

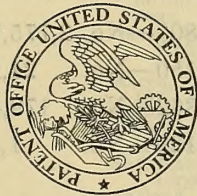
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- Ackley, Edward L.: *See*—
Ackley, Clifford L. and E. L. 2,814,110.
- Acme-Hamilton Mfg. Corp. The: *See*—
Kahn, Marvin M. 2,798,508.
- Acme Highway Products Corp.: *See*—
Brickman, Alan E. 2,775,924.
- Brickman, Alan E. 2,776,116.
- Acme Industrial Co.: *See*—
Gabriel, Adam F., and Kozacka. 2,782,044.
- Acme Industrial Equipment Co.: *See*—
Yukon, Edward H., and Bonney. 2,814,829.
- Acme Pallet Co.: *See*—
Herz, Julius J. and R. H. 2,783,960.
- Acme Protection Equipment Co.: *See*—
Glidden, Galen M. 2,785,767.
- Glidden, Galen M. 2,818,066.
- Acme Steel Co.: *See*—
Chester, Allan E., and Main. 2,799,635.
- Fullerton, Thomas J. 2,786,638.
- Fullerton, Thomas J., and Rosenblum. 2,777,647.
- MacChesney, Chester M. 2,797,714.
- Wognum, James N., Fullerton, and Ahern. 2,807,997.
- Acme Visible Records, Inc.: *See*—
Anspach, Russell D. 2,787,068.
- Kaighin, Hall Y. 2,778,658.
- Acquarone, Vincenzo. Electric slag resistance furnace. 2,783,288, 2-26-57, Cl. 13-23.
- Acra Electric Corp.: *See*—
Browne, Donald W. 2,795,685.
- Acro-Feed Industries, Inc.: *See*—
Jones, Otis V., Jr. 2,811,884.
- Actien-Gesellschaft der Gerresheimer Glashüttenwerke vorm. Ferd. Heye: *See*—
Küllmar, Heinrich. 2,815,135.
- Actiengesellschaft Joh. Jacob Rieter & Cie.: *See*—
Stähli, Gustav. 2,798,357.
- Action Laboratories, Inc.: *See*—
Altieri, Joseph R. 2,809,351.
- Acton, John R.: *See*—
Williams, David J., Bacon, and Acton. 2,783,408.
- Acton, John R., to Ericsson Telephones Ltd. Electronic counting and computing arrangements. 2,816,250, 12-10-57, Cl. 315-84.6.
- Acton Laboratories, Inc.: *See*—
Altieri, Joseph R. 2,778,908.
- Altieri, Joseph R. 2,778,994.
- Altieri, Joseph R., and Guba. 2,779,918.
- Burgess, Lauren M. 2,778,906.
- MacLaren, Frederick B. 2,778,909.
- Pihl, George. 2,778,988.
- Acton, William O. Tennis ball carrier. 2,801,105, 7-30-57, 273-73.
- Acushnet Process Co.: *See*—
Young, Richard B. 2,815,995.
- Ad. Schulthess & Co. A. G.: *See*—
Leunenberger, Gottfried. 2,782,621.
- Leunenberger, Gottfried. 2,788,850.
- Adacusky, Joseph W.: *See*—
Buechele, Walter E., and Adacusky. 2,807,203.
- Adair, Adolphus G. Multiple pivoted jaw wrench provided with cam-seated slidable back catch. 2,784,629, 3-12-57, Cl. 81-131.
- Adair, Robin, Jr. Variable pressure cushion. 2,790,440, 4-30-57, Cl. 128-33.
- Adalia Ltd.: *See*—
Neugebauer, Hans E. J. 2,790,844.
- Neugebauer, Hans E. J. 2,799,722.
- Adam, Frank, Electric Co.: *See*—
Green, Floyd S. 2,810,803.
- Stieglitz, Henry M. 2,800,613.
- Adam, Karl, and H.-G. Trieschmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of chlorocarbonylic acid chlorides. 2,778,852, 1-22-57, Cl. 260-544.
- Adamec, Gilbert: *See*—
Hemmings, Emile A., and Adamec. 2,779,344.
- Adamec, John B.: *See*—
Goetzel, Claus G., and Adamec. 2,798,809.
- Adamik, Walter J., to Westinghouse Electric Corp. Resilient elastomeric electrical insulating tape. 2,816,348, 12-17-57, Cl. 28-74.
- Adams, Aaron M. Combination portable clothes basket and stand. 2,797,102, 6-25-57, Cl. 280-30.
- Adams, Albert: *See*—
Dancy, William B., and Adams. 2,804,371.
- Adams, Albert H. Electrode holder. 2,784,293, 3-5-57, Cl. 219-70.
- Adams, Amos D., Jr., to Northrop Aircraft, Inc. Galvanometer trace blocker. 2,791,483, 5-7-57, Cl. 346-145.
- Adams, Arthur R.: *See*—
Eads, Charles L. 2,789,852.
- Adams, Arthur R., to The Safe Padlock and Hardware Co. Sliding door lock. 2,807,489, 9-24-57, Cl. 292-17.
- Adams, Blythe R. Bait box. 2,800,741, 7-30-57, Cl. 43-55.
- Adams Brothers, Inc.: *See*—
Adams, James D., and Kunze. 2,801,477.
- Adams, Cecil E., to American Brake Shoe Co. Antifriction bearing supported spool. 2,777,465, 1-15-57, Cl. 137-543.23.
- Adams, Cecil E., and W. E. Eschliman, to American Brake Shoe Co. Fluid energy translating device. 2,777,396, 1-15-57, Cl. 103-136.
- Adams, Cecil E., and K. C. Goodman, to American Brake Shoe Co. Electronic control system for hydraulic motor. 2,777,425, 1-15-57, Cl. 121-38.
- Adams, Cecil E., and J. R. English, to American Brake Shoe Co. Hydraulic system and pump means therefor. 2,797,551, 7-2-57, Cl. 60-97.
- Adams, Cecil E., and Yung Ho Sun, to American Brake Shoe Co. Pump casing construction. 2,809,595, 10-15-57, Cl. 103-217.
- Adams, Cecil E., and W. E. Eschliman, to American Brake Shoe Co. Apparatus for operating a machine element. 2,814,182, 11-26-57, Cl. 60-52.
- Adams, Charles F.: *See*—
Dommel, Homer K., and Adams. 2,817,317.
- Adams, Claude W., to The Dentists' Supply Co. of New York. Tooth shade guide. 2,805,478, 9-10-57, Cl. 32-71.
- Adams, Clifford C. Lock for gear shifting mechanisms. 2,792,717, 5-21-57, Cl. 74-477.
- Adams, Clyde S., M. J. Cormack, and M. L. Frazier, to The National Cash Register Co. Naphthoyl leuco methylene blue. 2,783,227, 2-26-57, Cl. 260-243.
- Adams, Clyde S., M. J. Cormack, and M. L. Frazier, to The National Cash Register Co. Nitro derivatives of benzoyl leuco methylene blue. 2,783,228, 2-26-57, Cl. 260-243.

- Adams, Clyde S., M. J. Cormack, and M. L. Frazier, to The National Cash Register Co. Halo derivatives of benzoyl leuco methylene blue. 2,784,186, 3-5-57, Cl. 260-243.
- Adams, Dale W. Electronic fast-time constant switch. 2,806,948, 9-17-57, Cl. 250-27.
- Adams, Daniel M., to General Motors Corp. License plate display device. 2,807,899, 10-1-57, Cl. 40-132.
- Adams, David, and H. Moss. Live bait pail. 2,782,552, 2-26-57, Cl. 43-57.
- Adams, Donald T. Piston seal. 2,802,706, 8-13-57, Cl. 309-4.
- Adams, Earl F.: *See*—
Lamb, Anthony H., and Adams. 2,778,708.
- Adams, Edward H.: *See*—
Walraven, George M., and Adams. 2,792,733.
- Adams, Edwin M., to Precision-Cosmet Co., Inc. Machine for grinding facets in lenses. 2,814,916, 12-3-57, Cl. 51-98.
- Adams, Franklin L., to Bendix Aviation Corp. Magnetic electron multiplier switch. 2,806,141, 9-10-57, Cl. 250-27.
- Adams, Frederic H.: *See*—
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- Adams, Geoffrey T., to John I. Thornycroft & Co. Ltd. Liquid fuel burners. 2,806,520, 9-17-57, Cl. 158-73.
- Adams, George C. Acoustical ceiling construction. 2,789,321, 4-23-57, Cl. 20-4.
- Adams, George H., Jr. Absorbent sweeping composition. 2,805,204, 9-3-57, Cl. 252-88.
- Adams, George R. Suction pump. 2,812,129, 11-5-57, Cl. 230-174.
- Adams, Gerald J., to A. Alford. Coaxial transmission line for super high frequencies. 2,796,589, 6-18-57, Cl. 333-96.
- Adams, Grace A. Self-propelling attachment for golf-bag carts. 2,812,824, 11-12-57, Cl. 180-19.
- Adams, Guy E., Sr., and P. J. Stadnyk, to Tech Laboratories, Inc. Internal commutator. 2,802,916, 8-13-57, Cl. 200-80.
- Adams, Harold E., to Nash Engineering Co. Booster fuel pumps. 2,804,022, 8-27-57, Cl. 103-113.
- Adams, Harold K. Needle carrying adapter arm for map-making engraving instruments. 2,782,501, 2-26-57, Cl. 30-164.9.
- Adams, Harold K. Fine line engraving tool for map making. 2,805,475, 9-10-57, Cl. 30-164.9.
- Adams, Harvey N., to Libbey-Owens-Ford Glass Co. Filament holder for thermal evaporation apparatus. 2,810,896, 10-22-57, Cl. 339-272.
- Adams, Henry W., Jr. Devices for testing capacitors. 2,777,989, 1-15-57, Cl. 324-60.
- Adams, Herman E. Accessory arm rest. 2,804,125, 8-27-57, Cl. 155-112.
- Adams, Jack, and M. I. Darrow, to Swift & Co. Poultry back scalders. 2,810,927, 10-29-57, Cl. 17-11.2.
- Adams, Jack E., and C. E. Garton. Guard attachment for a paint applying roller. 2,807,040, 9-24-57, Cl. 15-248.
- Adams, James D., and H. J. Kunze, to Adams Brothers, Inc. Ornamental attachment for shoes. 2,801,477, 8-6-57, Cl. 36-2.5.
- Adams, James J. Automatic gain control with noise limiter application. 2,785,302, 3-12-57, Cl. 250-20.
- Adams, James, Jr., to Raybestos-Manhattan, Inc. Belt splice. 2,801,452, 8-6-57, Cl. 24-38.
- Adams, James, Jr., and J. A. Kay, to Raybestos-Manhattan Inc. Mechanical belt splice. 2,814,846, 12-3-57, Cl. 24-38.
- Adams, Jesse R. Limb support for operating tables. 2,801,142, 7-30-57, Cl. 311-10.
- Adams, Jesse W. Vacuum holding fixture for power machine tools. 2,807,180, 9-24-57, Cl. 82-40.
- Adams, John Q. Canopy lid hinge. 2,791,348, 5-7-57, Cl. 220-34.
- Adams, John Q. Selective pig feeder. 2,797,662, 7-2-57, Cl. 119-52.
- Adams, Josiah W. Card shuffling device. 2,790,641, 4-30-57, Cl. 273-149.
- Adams, L., Ltd.: *See*—
Voss, Waldemar E. 2,805,040.
- Adams, Letha F. Window frame assembly. 2,777,548, 1-15-57, Cl. 189-64.
- Adams, Marjory M. Combination support and bag. 2,816,599, 12-17-57, Cl. 155-153.
- Adams, Max M., to Phillips Petroleum Co. Internal combustion engine and piston therefor. 2,815,014, 12-3-57, Cl. 123-191.
- Adams, Oliver F. and O. L. Tool for removing speednuts. 2,802,382, 8-13-57, Cl. 81-3.
- Adams, Omar L.: *See*—
Adams, Oliver F. and O. L. 2,802,382.
- Adams, Ralph D.: *See*—
Feeney, Thomas A., and Adams. 2,809,369.
- Adams, Richard E. Gusset type bag. 2,781,161, 2-12-57, Cl. 229-54.
- Adams Rite Mfg. Co.: *See*—
Collar, Frank R. 2,784,993.
- Adams, Robert T.: *See*—
Townsend, Harry M. 2,812,207.
- Adams, Robert T., A. Horvath, and B. Parzen, to International Telephone and Telegraph Corp. Standing wave ratio monitor. 2,797,387, 6-25-57, Cl. 324-58.
- Adams, Simpson J. Stop motion for textile machines. 2,793,490, 5-28-57, Cl. 57-81.
- Adams, Wayne P. Hay carrying and feeding machine. 2,801,759, 8-6-57, Cl. 214-506.
- Adams, William A. Distributor cap file. 2,809,419, 10-15-57, Cl. 29-78.
- Adams, William J.: *See*—
Fryer, Edward R., and Adams. 2,788,999.
- Adams, William J., Jr., and K. O. Engnell, to Food Machinery and Chemical Corp. Transmission. 2,813,433, 11-19-57, Cl. 74-218.
- Adamski, Richard R., $\frac{1}{4}$ to W. Adamski. Toy magnet propelled and directed vehicles. 2,794,929, 6-4-57, Cl. 310-12.
- Adamski, William: *See*—
Adamski, Richard R. 2,794,929.
- Adamsky, Walter A., to Pittsburgh Plate Glass Co. Handling glass sheets for thermal treatment. 2,805,519, 9-10-57, Cl. 49-45.
- Adamson, Arthur P., to General Electric Co. Acceleration responsive device having error compensation. 2,801,097, 7-30-57, Cl. 264-1.
- Adamson, Arthur W.: *See*—
Russell, Edwin R., Adamson, Schubert, and Boyd. 2,811,416.
- Adamson, Robert A. Soldering irons. 2,786,124, 3-19-57, Cl. 219-26.
- Adamson United Co.: *See*—
Seanor, Rex C. 2,783,977.
- Stratton, Edgar H., and Fisher. 2,780,384.
- Adamson, Uvadale S. Carburetor. 2,792,292, 5-14-57, Cl. 48-184.
- Adcock, John L., to Firth Sterling Inc. Spark machining apparatus. 2,815,435, 12-3-57, Cl. 219-69.
- Adcock, Mack D., and L. A. Kurtz, to Hughes Aircraft Co. Antenna coupling network. 2,818,549, 12-31-57, Cl. 333-11.
- Adcock, Willis A., to Texas Instruments Inc. Manufacture of junction-containing silicon crystals. 2,785,096, 3-12-57, Cl. 148-1.5.
- Adcock, Willis A., and W. C. Lake, to Pan American Petroleum Corp. Process for preparation of carbon disulfide. 2,788,262, 4-9-57, Cl. 23-206.
- Adcock, Willis A., and W. C. Lake, to Pan American Petroleum Corp. Process for preparation of carbonyl sulfide and carbon disulfide. 2,809,097, 10-8-57, Cl. 23-203.
- Addicks, Johannes H. Spring balance. 2,776,447, 1-8-57, Cl. 16-197.
- Addie, Albert N., to General Motors Corp. Refrigerating apparatus having a free piston compressor. 2,782,613, 2-26-57, Cl. 62-136.
- Addie, Albert N., to General Motors Corp. Free piston power plant with afterburner. 2,807,135, 9-24-57, Cl. 60-30.
- Addison, Tom, and J. K. McBeth, to American Steel Foundries. Feed rate control. 2,796,793, 6-25-57, Cl. 82-14.
- Addressograph-Multigraph Corp.: *See*—
Curtis, Franklin E. 2,775,936.
- Gollwitzer, Walter T. 2,815,947.
- Janke, Edward J. 2,813,716.
- Janke, Edward J., and Brewster. 2,798,426.
- Marshall, Kenneth L. 2,797,641.
- Mitchell, Lester F., and Brewster. 2,813,482.
- Mitchell, Lester F. and Janke. 2,791,177.
- Morse, Lawrence H. 2,798,720.
- Pratt, Adrian B. 2,813,484.
- Ade, William M., to Compressed Products Corp. Packaging machine. 2,795,909, 6-18-57, Cl. 53-124.
- Adelaar, Hans H., to International Standard Electric Corp. Binary electrical counting circuit. 2,812,134, 11-5-57, Cl. 235-61.
- Adelman, John: *See*—
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- Adelman, William M.: *See*—
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- Adelson, David E., to Shell Development Co. Lubricating composition. 2,805,995, 9-10-57, Cl. 252-33.6.
- Adelson, Samuel L., to Infilco Inc. Control device. 2,813,169, 11-12-57, Cl. 200-92.
- Adelson, Samuel L., to Infilco Inc. Vacuum-operated rate of flow controller. 2,815,765, 12-10-57, Cl. 137-205.
- Adise, Herbert H.: *See*—
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- Adisman, Irwin K. Feeding nipple construction. 2,816,547, 12-17-57, Cl. 128-252.
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- Adkins, Marion H.: *See*—
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- Adkison, Herbert L. Fishing trot line hook retainer and dispenser. 2,804,716, 9-3-57, Cl. 43-54.5.
- Adkisson, William M., to Minneapolis-Honeywell Regulator Co. Course control apparatus. 2,811,325, 10-29-57, Cl. 244-77.
- Adler, Herman G., to Novi Equipment Co. Centrifugal governor. 2,786,668, 3-26-57, Cl. 264-17.
- Adler, Myron, to Medical Plastics, Inc. Blood filter with clot remover. 2,776,055, 1-1-57, Cl. 210-151.
- Adler, Robert: *See*—
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- Adler, Robert, to Zenith Radio Corp. Electron-discharge device. 2,776,388, 1-1-57, Cl. 313-72.
- Adler, Robert, to Zenith Radio Corp. Television receiver. 2,781,468, 2-12-57, Cl. 313-69.
- Adler, Robert, to Zenith Radio Corp. Electron discharge devices. 2,786,943, 3-26-57, Cl. 250-36.

- Adler, Robert, to Zenith Radio Corp. Traveling-wave tubes. 2,809,320, 10-8-57, Cl. 315-3.5.
- Adler, Robert, to Zenith Radio Corp. Receiver A. F. C. system using A. C. amplification and D. C. reinsertion in the feed back loop. 2,812,431, 11-5-57, Cl. 250-20.
- Adler, Robert, to Zenith Radio Corp. Television receiver sync separator and noise-gated automatic gain control system. 2,814,801, 11-26-57, Cl. 178-7.5.
- Adler, Robert, to Zenith Radio Corp. Control system. 2,817,025, 12-17-57, Cl. 307-140.
- Adler, Robert, and J. L. Rennick, to Zenith Radio Corp. Demodulating systems for color television. 2,779,818, 1-29-57, Cl. 178-5.4.
- Adler, Robert, and M. Barks, to Zenith Radio Corp. Noise pulse interruption of synchronizing signal separator. 2,814,671, 11-26-57, Cl. 178-7.3.
- Adler, Samuel, and J. Corwin, to the United States of America as represented by the Secretary of the Army. Fine and course control servo system. 2,798,992, 7-9-57, Cl. 318-19.
- Adler, Samuel, J. Damon, and M. Maurer, to the United States of America as represented by the Secretary of the Army. Synchro generating means. 2,808,547, 10-1-57, Cl. 318-24.
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- Nitschke, Bruno. 2,799,551.
- Adloff, Jakob A., to General Motors Corp. Independent front wheel suspension. 2,793,048, 5-21-57, Cl. 280-96.2.
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- Carlson, Reuben C. 2,780,465.
- Carlson, Reuben C. 2,781,198.
- De Cola, Rinaldo E., and Honeywell. 2,778,932.
- Mautone, Francesco F., and Hoffman. 2,802,995.
- McTaggart, James E. 2,809,287.
- McWethy, Irvin E. 2,793,757.
- Miller, William J., and Reno. 2,804,068.
- Morton, Evans T. 2,786,094.
- Morton, Evans T. 2,793,781.
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- Vistain, James E., Jr. 2,795,429.
- Vistain, James E., Jr. 2,801,109.
- Adolphson, Evert W., to Deere Mfg. Co. Draft arrangement for corn pickers. 2,787,877, 4-9-57, Cl. 56-18.
- Adolphson, Gunnar A., to L. P. Kalenik. Means for locating and forming hinge recesses. 2,789,359, 4-23-57, Cl. 33-197.
- Adrema Ltd.: See—
- Sanderson, Thomas E. F., and Coates. 2,814,984.
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- Ostwaldt, Erich. 2,794,933.
- Adriansen, John R., to Cutler-Hammer, Inc. Braking systems. 2,779,906, 1-29-57, Cl. 318-211.
- Adrien, Henri F. Device for aligning printing plates and the like. 2,788,584, 4-16-57, Cl. 33-184.5.
- Adsit, LaRena L. Y. Fish scaling brush. 2,793,390, 5-28-57, Cl. 17-7.
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- Advance Machine Co.: See—
- Arones, Daniel A. 2,818,312.
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- Harrison, Stuart A., and Aelony. 2,787,633.
- Aelony, David, to General Mills, Inc. Process of preparing high solids β -alanine detergents. 2,811,549, 10-29-57, Cl. 260-534.
- Aelony, David, to General Mills, Inc. High solids detergent compositions. 2,814,643, 11-26-57, Cl. 260-534.
- Aelony, David, to General Mills, Inc. Process for the preparation of N-alkyl β -alanines. 2,816,911, 12-17-57, Cl. 260-482.
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- Kullgren, Gilbert V., and Wilkinson. 2,807,097.
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- Affleck, Antony C., to Canadian Patents and Development Ltd. Apparatus for electrochemical analysis. 2,776,257, 1-1-57, Cl. 204-195.
- Affleck, Theodore H., to Pantex Mfg. Corp. Plug valve actuator. 2,798,688, 7-9-57, Cl. 251-30.
- Affolter, André. Hair-sieve guard for the head of an electric razor. 2,797,480, 7-2-57, Cl. 30-43.
- Affrunti, Andrew J., to Motorola, Inc. Multiplex system. 2,802,056, 8-6-57, Cl. 179-15.
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- Agfa Camera-Werk Aktiengesellschaft: See—
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- Bammesberger, Karl, and Kaden. 2,791,163.
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- Aghnides, Elie P. Ash tray with cavities for extinguishing cigarettes. 2,798,498, 7-9-57, Cl. 131-235.
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- Agnew, Gary K.: See—
- Marsh, Robert F., and Agnew. 2,794,246.

- Agnew, Norman F., and A. J. Sorensen, to Femco, Inc. Protective apparatus for material-handling equipment. 2,814,032, 11-19-57, Cl. 340-258.
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- Agule, George J., to Machlett Laboratories, Inc. Cooling means for electron tubes. 2,810,849, 10-22-57, Cl. 313-45.
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- Ahl, Sven O. H., to Akitebolaget Produktionsmateriel. Valve mechanism for nozzle or similar tubular members. 2,809,800, 10-15-57, Cl. 251-148.
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- Ahlin, Fred E. Apparatus for heating and dipping articles in liquid compositions. 2,811,132, 10-29-57, Cl. 118-58.
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- Aicher, Elwood B. Holder for golf club covers. 2,800,696, 7-30-57, Cl. 24-73.
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- Aiken, Earl L. Package covering. 2,805,018, 9-3-57, Cl. 229-51.
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- Aiken, William R., to Kaiser Aircraft & Electronics Corp. Cathode ray tube. 2,795,731, 6-11-57, Cl. 315-21.
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- Ainley, Arthur D., to Imperial Chemical Industries Ltd. 4-(2,6-diamino-4-pyrimidylamino)-phenylarsine oxide carbonate and corresponding isethionate and process. 2,803,626, 8-20-57, Cl. 260-242.
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- Aktiebolaget Bofors: *See—*
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- Aktiebolaget C. E. Johansson: *See—*
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- Aktiebolaget Chematur: *See—*
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- Aktiebolaget Eksjöverkan: *See—*
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- Aktiebolaget Elektrolux: *See—*
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- Aktiebolaget Götaverken: *See—*
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- Aktiebolaget Rosenblads Patent: *See—*
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- Alamance Industries, Inc.: *See—*
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- Alba Hosiery Mills, Inc.: *See—*
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- Albach, Frank J. Fishing lure. 2,794,286, 6-4-57, Cl. 43-35.
- Albanes, Nicholas J., to International Business Machines Corp. Circuit arrangement and method for writing magnetic information. 2,787,514, 4-2-57, Cl. 346-74.
- Albano, Alphonso F. Mixing device. 2,785,011, 3-12-57, Cl. 299-83.
- Albany Billiard Ball Co.: *See*—
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- Albany Felt Co.: *See*—
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- Albares, Edwin J., to Phillips Petroleum Co. Blow-out preventer. 2,812,819, 11-12-57, Cl. 166-92.
- Albee, William H. Land vehicle or load-moving device comprising a flexible-walled, fluid-containing (peripherally-loaded) roller. Re. 24,272, 2-12-57, Cl. 180-9.
- Albee, William H. Vehicle comprising a flexible-walled, fluid-containing roller. 2,802,541, 8-13-57, Cl. 180-74.
- Albemarle Paper Mfg. Co., The: *See*—
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- Alberelli, Alberino: *See*—
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- Albers, Heinrich B., to Baldwin-Lima-Hamilton Corp. Forging dies and die-sets. 2,791,138, 5-7-57, Cl. 78-44.
- Albers, Heinrich B., to Baldwin-Lima-Hamilton Corp. Compensating system for presses. 2,809,542, 10-15-57, Cl. 78-42.
- Albersheim, Walter J., to Bell Telephone Laboratories, Inc. Spurious mode suppressing wave guides. 2,779,006, 1-22-57, Cl. 333-98.
- Albersheim, Walter J., to Bell Telephone Laboratories, Inc. Automatic distortion correction. 2,805,398, 9-3-57, Cl. 333-2.
- Albert, Daniel. Bird perch. 2,796,043, 6-18-57, Cl. 119-26.
- Albert, Eric, to International Standard Electric Corp. Measuring instrument. 2,817,817, 12-24-57, Cl. 324-142.
- Albert, George A. Cigarette disposal device. 2,777,448, 1-15-57, Cl. 131-237.
- Albert, Harry E., to The Firestone Tire & Rubber Co. Protection of rubber from ozone by means of bis(2-alkyl-4-isopropylphenol) monosulfides. 2,802,892, 8-13-57, Cl. 260-810.
- Albert, Irwin J., to Soda Dispenser Inc. Carbonated beverage dispenser. 2,813,662, 11-19-57, Cl. 222-145.
- Albert, Oliver R. Steering wheel mounted turn signal control switch. 2,793,262, 5-21-57, Cl. 200-6157.
- Albert, Willard S.: *See*—
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- Alberti, Giacchino G. Multiple film strip contacting printing device. 2,807,199, 9-24-57, Cl. 95-73.
- Albertoli, John. Can unscrambler. 2,790,532, 4-30-57, Cl. 198-30.
- Albertoli, John. Unscrambler for empty cans. 2,815,845, 12-10-57, Cl. 198-33.
- Albertson, Clarence E., to Borg-Warner Corp. Refrigerating apparatus and manually operable mechanical defrosting means therefor. 2,785,541, 3-19-57, Cl. 62-117.3.
- Albertson, Edward: *See*—
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- Albertson, William C., Jr.: *See*—
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- Albion Motors Ltd.: *See*—
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- Albrecht, Arthur H.: *See*—
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- Albrecht, Clifford C., and H. G. Brown, to Novelty Tool Co., Inc. Variable speed hydraulic transmission. 2,815,647, 12-10-57, Cl. 60-53.
- Albrecht, David E., and S. A. Grubich, to Hose Accessories Co. Apparatus for cutting hose. 2,779,412, 1-29-57, Cl. 164-60.
- Albrecht, Henry P. Adjustable shores. 2,777,660, 1-15-57, Cl. 248-354.
- Albrecht, Herbert O.: *See*—
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- Albrecht, Hermann F.: *See*—
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- Albrecht, Hermann F., to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Photographic camera. 2,800,842, 7-30-57, Cl. 95-11.
- Albrecht, Kurt, to Hagan Chemicals & Controls, Inc. Chemical feeders. 2,811,033, 10-29-57, Cl. 68-17.
- Albrecht, Leonard N., to General Motors Corp. Seat construction. 2,795,265, 6-11-57, Cl. 155-14.
- Albrecht, Otto: *See*—
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- Albrecht, Otto, and A. Hiestand, to Ciba Ltd. Salts of new hardenable, basic, ternary condensation products. 2,783,231, 2-26-57, Cl. 260-249.6.
- Albrecht, Otto, and E. Matter, to Ciba Ltd. Cosmetic preparations. 2,794,765, 6-4-57, Cl. 167-87.
- Albrecht, Otto, and E. Matter, to Ciba Ltd. New quaternary ammonium salts. 2,794,808, 6-4-57, Cl. 260-309.6.
- Albrecht, Ransom C.: *See*—
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- Pahl, Leo F., and Albrecht. 2,784,948.
- Stewart, Robert J., and Albrecht. 2,803,441.
- Albrecht, Robert E., and C. W. Bloomquist. Boat trailer attachment for support of the boat power means. 2,782,052, 2-19-57, Cl. 280-150.
- Albrecht, Warren F., to General Electric Co. Lamp basing apparatus. 2,809,279, 10-8-57, Cl. 219-130.
- Albrecht, Wolfram W., to Jos. Schneider & Co. Unsymmetrical photographic objective with three air-spaced members. 2,812,689, 11-12-57, Cl. 88-57.
- Albrektsson, John O. G., and A. M. R. Karlström. Method and apparatus for introduction of gas into water to be treated by flotation. 2,793,185, 5-21-57, Cl. 210-44.
- Albright, Cletus W. Offhand spool sanding machine. 2,780,033, 2-5-57, Cl. 51-3.
- Albright, Edward A. Oven construction. 2,817,506, 12-24-57, Cl. 263-8.
- Albright, Edward G. Lock means for tiltable table tops. 2,797,974, 7-2-57, Cl. 311-38.
- Albright, Franklin C., to Bendix Aviation Corp. Stabilizing and centering means for dirigible vehicle running gear. 2,793,047, 5-21-57, Cl. 280-29.
- Albright, Franklin C., to Bendix Aviation Corp. Anti-skip device for aircraft landing gear. 2,810,535, 10-22-57, Cl. 244-104.
- Albright, Harold D., Jr. Apparatus for waxing floors. 2,816,307, 12-17-57, Cl. 15-131.
- Albright, James E., to Radio Corp. of America. Card switching device. 2,817,824, 12-24-57, Cl. 339-18.
- Albright, John R., to Geo. D. Roper Corp. Pump control. 2,779,291, 1-29-57, Cl. 103-45.
- Albright, R. Mayne: *See*—
McDaniel, James W. 2,807,285.
- Albright, Robert B., and H. W. Golden, to Philco Corp. Method of forming a printed circuit and soldering components thereto. 2,777,192, 1-15-57, Cl. 29-155.5.
- Albright, Robert B., and H. W. Golden, to Philco Corp. Circuit construction. 2,777,193, 1-15-57, Cl. 29-155.5.
- Albrighton, Reginald F.: *See*—
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- Albrighton, Reginald F., to General Railway Signal Co. Car retarder control system. 2,814,996, 12-3-57, Cl. 104-26.
- Albrighton, Reginald F., and N. B. Coley, to General Railway Signal Co. Code communication system. 2,802,199, 8-6-57, Cl. 340-163.
- Albritton, Harvey J. Ball and socket type trailer hitch. 2,793,881, 5-28-57, Cl. 280-512.
- Albritton, Harvey S. Toy cultivator disk. 2,798,350, 7-9-57, Cl. 55-81.
- Albro, Lewis P., and J. S. Buck, to Sterling Drug Inc. Compositions containing calcium quinate and calcium gluconate and/or calcium levulinate. 2,794,764, 6-4-57, Cl. 167-68.
- Alburn, Harvey E., and R. W. Whitley, to American Home Products Corp. Stabilized hyaluronidase solution containing calcium chloride. 2,795,529, 6-11-57, Cl. 167-73.
- Albus, Charles P.: *See*—
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- Alco Lumber & Supply Co.: *See*—
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- Alco Products, Inc.: *See*—
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- Ross, Alexander, Wintemberg, and Gilchrist. 2,797,649.
- Ross, Alexander, Wintemberg, and Gilchrist. 2,797,650.
- Alco Refrigeration Sales & Service, Inc.: *See*—
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- Houghton, Lyle S. 2,783,019.
- Schoen, Roger W. 2,799,225.
- Tilney, Ralph B. 2,803,116.
- Alcock, John F., to Ricardo & Co., Engineers (1927) Ltd. Power units including an internal combustion engine and an exhaust-driven turbo supercharger. 2,811,826, 11-5-57, Cl. 60-13.
- Alcorn, Estes E., 1/4 to L. E. Eisele, and 1/4 to M. L. Strickler. Machine for reconditioning bakery pans. 2,799,319, 7-16-57, Cl. 153-48.
- Alcorn, Robert L., Jr., to Chambersburg Engineering Co. Fluid pressure-actuated apparatus. 2,785,535, 3-19-57, Cl. 60-97.
- Alcott, David W. Evacuating apparatus. 2,791,245, 5-7-57, Cl. 141-65.
- Alcott, Rollin A., to Minneapolis-Honeywell Regulator Co. Control device. 2,812,404, 11-5-57, Cl. 200-140.
- Aldeborgh, Erik H., and F. H. Czaplinski, to Standard Gage Co., Inc. Inside and outside thread gage. 2,784,494, 3-12-57, Cl. 33-147.
- Aldeborgh, Erik, and W. J. Croshier, to Standard Gage Co., Inc. External and internal caliper gage. 2,785,471, 3-19-57, Cl. 33-148.
- Alden, Milton. Separable supports for recorder electrodes. 2,776,181, 1-1-57, Cl. 346-74.
- Alden, Milton. Recorder. 2,776,183, 1-1-57, Cl. 346-101.
- Alden, Milton. Recorder. 2,785,942, 3-19-57, Cl. 346-74.
- Alden, Milton. Interchangeable component recorder. 2,789,029, 4-16-57, Cl. 346-145.
- Alden, Milton. Indicator light. 2,803,816, 8-20-57, Cl. 340-381.
- Alden, Milton. Motor driven drum for recorder. 2,805,114, 9-3-57, Cl. 346-74.
- Alden, Milton. Sheet feeding mechanism. 2,811,353, 10-29-57, Cl. 271-57.

- Alden, Milton. Electric lamp installation. 2,818,497, 12-31-57, Cl. 240-9.
- Alden Products Co.: *See*—
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- Nyman, Alexander. 2,778,873.
- Nyman, Alexander. 2,796,461.
- Alden, Richard C., to Phillips Petroleum Co. Liquid-fuel system. 2,791,186, 5-7-57, Cl. 103-150.
- Alderice, Thomas: *See*—
- Schatten, Frank, and Alderice. 2,787,947.
- Alderfer, Donovan C. Alarm for air conditioning system. 2,782,747, 2-26-57, Cl. 116-112.
- Alderfer, Sterling W., to The Kendall Co. Decorative cushion fabric and process of making same. 2,817,597, 12-24-57, Cl. 117-10.
- Alderson, Ross C., to Minneapolis-Honeywell Regulator Co. Automatic steering mechanism. Re. 2,4273, 12-25-57, Cl. 244-77.
- Alderson, Ross C., and O. H. Schuck, to Minneapolis-Honeywell Regulator Co. Aircraft control apparatus responsive to angle of attack. 2,798,682, 7-9-57, Cl. 244-77.
- Alderson, Thomas, to E. I. du Pont de Nemours and Co. Polymer from alpha-hydroxy isobutyric acid. 2,811,511, 10-29-57, Cl. 260-78.3.
- Alderson, William D. Mortar training device. 2,786,415, 3-26-57, Cl. 102-41.
- Alderson, William H., and H. I. Allen, Jr., to California Research Corp. Stabilization of cracked distillate fuel oils. 2,794,770, 6-4-57, Cl. 196-41.
- Alderstam, Nils O., and J. T. Ruist, to SKF Industries, Inc. Bearing for the carriages of machine tools and the like. 2,785,934, 3-19-57, Cl. 308-6.
- Aldinger, Donald J., to Taylor Instrument Companies. Pressure regulators. 2,803,451, 8-20-57, Cl. 267-1.
- Aldinger, Ulrich, to Robert Bosch G. m. b. H. Injection pump for multi-cylinder engines. 2,777,434, 1-15-57, Cl. 123-139.
- Aldinger, Ulrich, to Robert Bosch G. m. b. H. Injection pump. 2,810,376, 10-22-57, Cl. 123-139.
- Aldis Brothers Ltd.: *See*—
- Cook, Sidney A. 2,811,714.
- Aldous, George C., to Westinghouse Electric Corp. Multiple circuit terminal block. 2,810,056, 10-15-57, Cl. 219-37.
- Aldous, James H. Side frames for connection with motor-cycles and support of side cars and the like. 2,797,933, 7-2-57, Cl. 280-203.
- Aldred, Leslie: *See*—
- Webster, James G., and Aldred. 2,781,947.
- Aldrich, Clifford B.: *See*—
- Boone, Ronald E., and Aldrich. 2,786,553.
- Aldrich, Paul H., to Hercules Powder Co. Osmium tetroxide accelerator for the peroxide initiated polymerization of polymerizable organic compounds. 2,818,407, 12-31-57, Cl. 260-94.3.
- Aldrich, Richard W., J. S. Schaffner, and J. J. Suran, to General Electric Co. Semi-conductor network. 2,780,752, 2-5-57, Cl. 315-240.
- Aldrich, Walter S., to Minnesota Mining and Mfg. Co. Heavy duty hand dispensers. 2,798,552, 7-9-57, Cl. 164-84.5.
- Aldrich, Walter S., and R. H. Hanes, to Minnesota Mining & Mfg. Co. Platen tape applying method and apparatus. 2,787,941, 4-9-57, Cl. 93-1.
- Aldridge, Clyde L., and E. V. Fasce, to Esso Research and Engineering Co. Organic acid-promoted cobalt oxide oxo catalyst system. 2,812,356, 11-5-57, Cl. 260-604.
- Alesi, Anthony L., to the United States of America as represented by the Secretary of the Army. Nape strap. 2,814,043, 11-26-57, Cl. 2-8.
- Alessi, Andrew J., Jr.: *See*—
- Gottscho, Ira S., Hirschey, and Alessi. 2,778,305.
- Alessi, Andrew J., Jr., and M. Hirschey, to Adolph Gottscho, Inc. Marking apparatus. 2,818,016, 12-31-57, Cl. 101-35.
- Aleweld, Heinz: *See*—
- Halfmann, Christoph, and Aleweld. 2,782,842.
- Alex, Ralph P., to United Aircraft Corp. Turbo-jet driven helicopter. 2,811,324, 10-29-57, Cl. 244-17.21.
- Alexander, Ben H., to Sylvania Electric Products Inc. Stabilized semiconductor devices. 2,798,189, 7-2-57, Cl. 317-235.
- Alexander, Ben H., to Sylvania Electric Products Inc. Fabrication of semiconductor elements. 2,809,103, 10-8-57, Cl. 41-42.
- Alexander, Ben H., and R. C. Ingraham, to Sylvania Electric Products Inc. Semiconductor rectifying connections and methods. 2,793,332, 5-21-57, Cl. 317-239.
- Alexander, Bernice: *See*—
- Ianuzzi, Anthony P. 2,782,700.
- Alexander, Carl J. Reciprocating saw with laminated blade. 2,784,751, 3-12-57, Cl. 143-68.
- Alexander, Carl Z. Steam boiler. Re. 2,4278, 2-19-57, Cl. 122-165.
- Alexander, Charles W. Duplex sleeve pallet. 2,783,011, 2-26-57, Cl. 248-120.
- Alexander, Claude U., and E. Czapek, to Olin Mathieson Chemical Corp. Preparation and purification of dinitroresorcinol. 2,811,565, 10-29-57, Cl. 260-622.
- Alexander, David W. Telephone number reference. 2,788,592, 4-16-57, Cl. 40-10.5.
- Alexander, Donald P. Functional article of furniture. 2,797,734, 7-2-57, Cl. 155-41.
- Alexander, Earle F.: *See*—
- O'Leary, Francis M., Mayo, Alexander, and Kaltenbach. 2,796,208.
- Alexander, Emmett L., to G. E. Failing Co. Safety clevis. 2,809,856, 10-15-57, Cl. 287-100.
- Alexander, F.: *See*—
- Magondeaux, Leo. 2,812,427.
- Alexander, George G. Illuminated spirit level. 2,790,069, 4-23-57, Cl. 240-644.
- Alexander, Gordon A., to The American Hardware Corp. Door lock. 2,814,518, 11-26-57, Cl. 292-169.
- Alexander, Guy B., and R. K. Iler, to E. I. du Pont de Nemours and Co. Composition and process. 2,801,186, 7-30-57, Cl. 106-288.
- Alexander, Guy B., and R. K. Iler, to E. I. du Pont de Nemours & Co. Planar aggregates of silica spheroids and methods for preparing same. 2,801,902, 8-6-57, Cl. 23-182.
- Alexander, Guy B., and R. K. Iler, to E. I. du Pont de Nemours and Co. Grease thickened with organosilyl-coated siliceous material. 2,818,385, 12-31-57, Cl. 252-28.
- Alexander, Henry L., and H. Farrell, to E. I. du Pont de Nemours & Co. Titanium descaling bath and process. 2,790,738, 4-30-57, Cl. 134-2.
- Alexander, Henry R.: *See*—
- Spear, Robert L. 2,802,144.
- Alexander, Herbert C., and J. E. Burr, Jr., to Bomac Laboratories Inc. Rotatable shutter and transmit-receive device. 2,789,272, 4-16-57, Cl. 333-13.
- Alexander, Hugh C. Carbon paper correlating device. 2,809,031, 10-8-57, Cl. 270-58.
- Alexander, James L. Holder for coffee maker top. 2,780,081, 2-5-57, Cl. 65-65.
- Alexander, Jesse B., to G. H. Teeple. Telescoping rotor. 2,776,017, 1-1-57, Cl. 170-160.11.
- Alexander, John R., to Monsanto Chemical Co. Production of alkali metal phosphates. 2,792,284, 5-14-57, Cl. 23-106.
- Alexander, John R. Nozzle assembly. 2,797,964, 7-2-57, Cl. 299-62.
- Alexander, John R., and J. S. Metcalf, to Monsanto Chemical Co. Production of alkali metal phosphates. 2,792,285, 5-14-57, Cl. 23-106.
- Alexander, John S.: *See*—
- Majeske, Henry L., and Alexander. 2,790,662.
- Alexander, Leo E. Apparatus for mounting food. 2,815,530, 12-10-57, Cl. 17-1.
- Alexander, Leon G., to Wix Corp. Filtering mediums. 2,798,614, 7-9-57, Cl. 210-487.
- Alexander, Paul, to Continental Can Co., Inc. Method and apparatus for depositing metal coatings on metal bases. 2,812,270, 11-5-57, Cl. 117-50.
- Alexander, Paul D. Means for securing clothes to clotheslines. 2,815,864, 12-10-57, Cl. 211-119.02.
- Alexander, Peter P., to Metal Hydrides Inc. Method for preparing calcium. 2,794,732, 6-4-57, Cl. 75-67.
- Alexander, Peter P., and R. C. Wade, to Metal Hydrides Inc. Method for preparing calcium. 2,794,733, 6-4-57, Cl. 75-67.
- Alexander, Robert B. Power boat stabilizing device. 2,816,521, 12-17-57, Cl. 114-66.5.
- Alexander, Robert L., to Druwhit Metal Products Co. Multiple operated window. 2,799,903, 7-23-57, Cl. 20-42.
- Alexander, Russell R.: *See*—
- Schelke, Robert K., and Alexander. 2,788,502.
- Alexander, Stewart F.: *See*—
- Ianuzzi, Anthony P. 2,782,700.
- Alexander, William H., H. J. Arnott, and D. M. McCallum, to Ferranti, Ltd. Electrical indicating apparatus. 2,817,077, 12-17-57, Cl. 340-282.
- Alexander, Ernest F. W. Alternating-current motor. 2,797,375, 6-25-57, Cl. 318-249.
- Alexander, Ernest F. W. Push-pull magnetic amplifier. 2,798,904, 7-9-57, Cl. 179-171.
- Alexandersson, Harald V., to Telefonaktiebolaget L M Ericsson. Coin box for two or three kinds of coin. 2,817,709, 12-24-57, Cl. 179-6.5.
- Alexandersson, Harald V., and H. E. Lindström, to Telefonaktiebolaget L M Ericsson. Polarized ringing device for use in telephone systems. 2,782,310, 2-19-57, Cl. 340-397.
- Alexandrescue, Alexander M. Automatic fluid operated transmission system. 2,805,742, 9-10-57, Cl. 192-092.
- Alexeff, Alexander V.: *See*—
- Sanborn, Frank W., and Alexeff. 2,780,878.
- Alexy, Matthew R., to the United States of America as represented by the Secretary of the Air Force. Rotary contact follower for variable inductances. 2,814,023, 11-19-57, Cl. 339-9.
- Alfandre, Harry. Garment closure. 2,802,215, 8-13-57, Cl. 2-265.
- Alfandre, Harry. Hook sewing machine. 2,803,204, 8-20-57, Cl. 112-105.
- Alfano, Gustave. Steel wool holder. 2,792,583, 5-21-57, Cl. 15-209.
- Alfieri, Frank: *See*—
- Crawford, Robert J., and Alfieri. 2,789,524.
- Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli. Electropneumatic installation for controlling the change-speed gear in automotive vehicles. 2,795,963, 6-18-57, Cl. 74-334.

- Alfons Quatz, Richard R.: *See*—
Emil Pauls, Ingolf F. F., and Quatz. 2,783,147.
- Alford, Andrew: *See*—
Adams, Gerald J. 2,796,589.
- Alford, Andrew. Line stretcher. 2,786,184, 3-19-57, Cl. 333-31.
- Alford, Andrew. Slotted cylindrical antennas. 2,799,017, 7-9-57, Cl. 343-767.
- Alford, Andrew, and H. H. Leach; said Leach assor. to said Alford. Slotted ring antenna. 2,798,217, 7-2-57, Cl. 343-770.
- Alford Cartons: *See*—
Bowman, Paul F., and Vines. 2,815,700.
- Alford, Harvey E., and J. D. Bartleson, to The Standard Oil Co. Detergent lubricants and lubricating oil additives and process of making the same. 2,809,934, 10-15-57, Cl. 252-32.7.
- Alford, Willis J.: *See*—
Hennig, Harvey, Alford, and Hutchings. 2,802,026.
- Alfredene, Uno A., to Aktiebolaget Svenska Precisionsverktyg. Reversible rotary tool holder. 2,795,146, 6-11-57, Cl. 74-205.
- Alfrey, Allen: *See*—
Alfrey, James A. 2,779,501.
- Alfrey, James A., 15% to A. Alfrey. Cigarette lighter. 2,779,501, 1-29-57, Cl. 221-144.
- Alfrey, Turner, Jr.: *See*—
Longstreth, Murrey O., and Alfrey. 2,779,053.
- Algemene Kunstzijde Unie, N. V.: *See*—
De Ruyter, Paulus H. 2,781,341.
- Algier, Allen P., and F. M. Radenbaugh. Disposable safety razor. 2,789,346, 4-23-57, Cl. 30-32.
- Alheritiere, Louis, and J. Mercier, to Les Usines de Melle (Societe Anonyme). Process for the manufacture of lower aliphatic esters. 2,787,636, 4-2-57, Cl. 260-488.
- Alber, Marvin M. Fishing line sinker. 2,787,078, 4-2-57, Cl. 43-43.14.
- Alimanestiano, Mihai, to Process & Patent Corp. Vehicle parking apparatus. 2,799,406, 7-16-57, Cl. 214-16.1.
- Alinat, Jean, and R. Chauvin, to La Spirotechnique, Societe Anonyme. Electric torch for divers. 2,798,940, 7-9-57, Cl. 240-10.66.
- Alizon, Etienne, to Compagnie Industrielle des Telephones. Binary numeration pulse counter. 2,814,003, 11-19-57, Cl. 317-140.
- Alkema, Hendrik. "Great circle" disk computer. 2,794,593, 6-4-57, Cl. 235-61.
- All American Engineering Co.: *See*—
Cotton, Robert B. 2,778,611.
Cotton, Robert B. 2,805,065.
Cotton, Robert B., and Doolittle. 2,777,653.
Cotton, Robert B., and Doolittle. 2,789,780.
Doolittle, Donald B. Re. 2,430,6.
- Allan, Alexander J., and P. H. Booth, to Orenda Engines Ltd. Portable resistance welding gun. 2,812,418, 11-5-57, Cl. 219-86.
- Allan, Benjamin W., and F. O. Rummery, to The Glidden Co. Process for preparing cadmium red pigment. 2,777,777, 1-15-57, Cl. 106-301.
- Allan, Benjamin W., and F. O. Rummery, to The Glidden Co. Process for preparing cadmium red pigment. 2,777,778, 1-15-57, Cl. 106-301.
- Allan, Benjamin W., F. O. Rummery, and J. M. Gilbert, to The Glidden Co. Preparation of hydrolyzable titanium sulfate solutions from titaniferous slags. 2,794,702, 6-4-57, Cl. 23-117.
- Allan, Frederick A. Safety cap for bottles. 2,816,677, 12-17-57, Cl. 215-9.
- Allan, Harry T., 1/2 to R. G. Pinney. Serving rack for beverage tumblers. 2,776,756, 1-8-57, Cl. 211-74.
- Allan, Hugh, to Dover Corp. Truck leveler for loading docks. 2,798,620, 7-9-57, Cl. 214-38.
- Allan, John, and H. Samuel, to British Celanese Ltd. Method and apparatus for producing tubular articles. 2,814,071, 11-26-57, Cl. 18-14.
- Allan, John, D. W. Browne, and H. Samuel, to British Celanese Ltd. Process of extruding sheets. 2,798,258, 7-9-57, Cl. 18-55.
- Allan, Stephen G. Padded undershort. 2,807,805, 10-1-57, Cl. 2-224.
- Allan, Wallace H., to the United States of America as represented by the Secretary of the Navy. Stable sabot. 2,798,433, 7-9-57, Cl. 102-93.
- Allander, Claes, and G. Larsson, to Aktiebolaget Svenska Flaktfabriken. Apparatus for removing dust by centrifugal force. 2,790,508, 4-30-57, Cl. 183-34.
- Allanson, Douglas, to Pye Ltd. Cameras, particularly television cameras. 2,782,253, 2-19-57, Cl. 178-7.2.
- Allard, Dean E. Tractor-trailer hitching mechanism with collapsible guide means. 2,791,443, 5-7-57, Cl. 280-477.
- Allard, Frank L. Remotely controlled ratchet wrench. 2,814,224, 11-26-57, Cl. 81-54.
- Allard, Pierre J.-M. T. Devices for inserting posts or piles into the ground. 2,805,553, 9-10-57, Cl. 61-73.
- Allardt, Ernst W., to The Babcock & Wilcox Co. Inside bead trimmer with vertically adjustable tail rolls downstream of cutting edge. 2,778,281, 1-22-57, Cl. 90-24.
- Allardt, Ernst W., to The Babcock & Wilcox Co. Internally cooled resistance welder electrodes. 2,799,768, 7-16-57, Cl. 219-63.
- Allbert, Eugene F., to Westinghouse Electric Corp. Motor control system for twin drive reversing hot mill. 2,809,336, 10-8-57, Cl. 318-149.
- Allbright-Nell Co.: *See*—
Lubischer, Joseph B. 2,795,344.
- Allbright-Nell Co., The: *See*—
Allbright, Norman J., and Illsley. 2,805,788.
- Allbright, Norman J., to Cashin, Inc. Sliced product measuring and segregating apparatus. 2,812,792, 11-12-57, Cl. 146-1.
- Allbright, Norman J., and R. W. Illsley, to The Allbright-Nell Co. Cover-equipped container for retaining and molding a food product in connection with processing thereof. 2,805,788, 9-10-57, Cl. 220-55.
- Allder, George M., to W. E. Nutter. Automobile seat cover having electrical grounding properties and grounding tape. 2,802,148, 8-6-57, Cl. 317-2.
- Allegemeine Telefon-Fabrik G. m. b. H.: *See*—
Heine, Bruno. 2,794,861.
- Allegheny Ludlum Steel Corp.: *See*—
Borneman, Paul L., and Klaybor. 2,781,284.
Dyrkacz, Wasil W., Reynolds, and MacFarlane. 2,814,563.
Kalita, Wesley. 2,781,283.
Laine, Edward A. 2,780,985.
Lena, Adolph J. 2,799,602.
Methe, Paul S. 2,810,643.
Stock, Robert J., and McRay. 2,793,993.
Tommaney, Joseph W., Kilian, and Gabrykewicz. 2,814,172.
- Allegretti, Anthony J., to R. R. Donnelley & Sons Co. Book binding. 2,782,056, 2-19-57, Cl. 281-21.
- Alleman, Carl E.: *See*—
Dutcher, Harris A., and Alleman. 2,776,249.
- Alleman, Carl E., to Phillips Petroleum Co. Apparatus for gasifying coal. 2,786,660, 3-26-57, Cl. 262-3.
- Allemann, Hugo, to Hugo Allemann Aktiengesellschaft. Tool spindle rotated in alternated directions by means of reciprocating rack and pinion drive. 2,784,430, 3-12-57, Cl. 10-133.
- Allemann, Hugo, Aktiengesellschaft: *See*—
Allemann, Hugo. 2,784,430.
- Allemann, Paul, to Material Industriel S. A., and Constructions Mecaniques S. A. Apparatus for continuously cleaning railroad track ballast. 2,791,410, 5-7-57, Cl. 262-2.
- Allen, Adda M., to Disposable Bottle Corp. Nursing unit. 2,803,365, 8-20-57, Cl. 215-11.
- Allen, Alan A. Snap switch. 2,776,347, 1-1-57, Cl. 200-67.
- Allen, Alan A. Switch blade. 2,806,927, 9-17-57, Cl. 200-171.
- Allen, Alden W.: *See*—
Downham, Roy E., and Allen. 2,778,435.
- Allen, Alexander A. Racquet press. 2,818,257, 12-31-57, Cl. 273-74.
- Allen, Arthur C., to Stewart-Warner Corp. Unitary heating device for supplying hot combustion gases and hot air. 2,780,218, 2-5-57, Cl. 126-110.
- Allen, Arthur C., to Stewart-Warner Corp. Combustion heater of the fuel vapor generator type. 2,780,280, 2-5-57, Cl. 158-53.
- Allen, Arthur C., to Stewart-Warner Corp. Balancing apparatus. 2,782,641, 2-26-57, Cl. 73-457.
- Allen, Arthur C., to Stewart-Warner Corp. Method and apparatus for applying a thin film of liquid. 2,789,922, 4-23-57, Cl. 117-106.
- Allen, Arthur C., to Stewart-Warner Corp. Coalescing fitting for oil aerosols. 2,795,293, 6-11-57, Cl. 183-92.
- Allen, Arthur C., to Stewart-Warner Corp. Air line oiler. 2,811,224, 10-29-57, Cl. 184-55.
- Allen-Bradley Co.: *See*—
Baun, Raymond F. 2,784,298.
Dehn, William F. 2,796,487.
Dehn, William F. 2,805,579.
Dehn, William F., and Wilson. 2,791,656.
Dickinson, Clarence R., and Telkamp. 2,798,139.
Glogau, Manfred L. 2,796,474.
Kniel, Wolfgang E., and Matthias. 2,817,774.
Lawrence, Leland E. 2,817,729.
Matthias, Lynn H. 2,791,659.
Matthias, Lynn H. 2,798,188.
- Allen, Burriss R. Thermostatically controlled blower fan furnace attachment. 2,782,991, 2-26-57, Cl. 236-10.
- Allen, Charles F. H.: *See*—
Reynolds, Delbert D., and Allen. 2,811,486.
- Allen, Charles F. H., and K. C. Kennard, to Eastman Kodak Co. Stabilized photographic silver halide emulsions. 2,776,211, 1-1-57, Cl. 96-109.
- Allen, Charles F. H., and T. T. M. Laakso, to Eastman Kodak Co. Esters of methane sulfonic acid. 2,816,125, 12-10-57, Cl. 260-456.
- Allen, Charles S. Dry shaver with rotary cutting blades and suction fan. 2,802,260, 8-13-57, Cl. 30-41.5.
- Allen, Chester S., to West Penn Closure Corp. Plastic spout for liquid containers. Re. 24,338, 7-23-57, Cl. 222-569.
- Allen, Earle F.: *See*—
Haynes, Artemas J., and Allen. 2,780,937.
Haynes, Artemas J., and Allen. 2,786,196.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Silica composition and production thereof. 2,786,776, 3-26-57, Cl. 106-288.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Silica composition and production thereof. 2,786,777, 3-26-57, Cl. 106-306.

- Allen, Edward M., to Columbia-Southern Chemical Corp. Silica composition and production thereof. 2,805,955, 9-10-57, Cl. 106—288.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Vulcanized rubber-silica composition. 2,806,012, 9-10-57, Cl. 260—41.5.
- Allen, Edwin L. Door control mechanism. 2,811,381, 10-29-57, Cl. 292—280.
- Allen, Eleanore T.: *See—*
Thomas, Percy H. 2,803,589.
- Allen Electric & Equipment Co.: *See—*
Allen, Gerald H. 2,812,478.
Weidner, Ralph J. 2,807,778.
Weidner, Ralph J. 2,817,058.
- Allen, Frank. Can opener and dispenser. 2,812,112, 11-5-57, Cl. 222—85.
- Allen, Frank B., to The Fyr-Fyter Co. Portable fire extinguisher. 2,776,717, 1-8-57, Cl. 169—31.
- Allen, Frank B., to The Fyr-Fyter Co. Nozzle for powder fire extinguisher. 2,781,101, 2-12-57, Cl. 169—1.
- Allen, Frank B., and W. M. Haessler, to The Fyr-Fyter Co. Multiple valve. 2,807,281, 9-24-57, Cl. 137—627.5.
- Allen, George H.: *See—*
Lynes, John, Allen, and Gardner. 2,796,938.
- Allen, George H., to Lynes, Inc. Packer braid reinforcing and retainer. 2,778,432, 1-22-57, Cl. 166—187.
- Allen, George M., to American Viscose Corp. Method of spinning filamentary strands. 2,788,256, 4-9-57, Cl. 18—54.
- Allen, Gerald H., to Allen Electric and Equipment Co. Structure for controlling the output voltage of a transformer. 2,812,478, 11-5-57, Cl. 317—157.6.
- Allen, Grant W.: *See—*
Faler, John A., Allen, and Stanton. 2,815,614.
- Allen & Hanburys Ltd.: *See—*
Austin, William C., Collier, Potter, and Taylor. 2,791,582.
Collier, Henry O. J., Potter, and Taylor. 2,791,588.
Groom, Walter K. 2,787,272.
- Allen, Harold P.: *See—*
Risacher, Gerard H., and Allen. 2,813,173.
- Allen, Harry J. Convertible power unit. 2,789,756, 4-23-57, Cl. 230—235.
- Allen, Harry L.: *See—*
Joseph, Robert T., and Allen. 2,806,837.
- Allen, Harvey G., to Westinghouse Electric Corp. Thrust bearing. 2,799,227, 7-16-57, Cl. 103—87.
- Allen, Herbert, to Cameron Iron Works, Inc. Pipe hanging apparatus. 2,794,505, 6-4-57, Cl. 166—86.
- Allen, Herman C.: *See—*
Russell, William W., and Allen. 2,776,868.
- Allen, Howard G., to Bostitch, Inc. Hold down means for magazines with fasteners of different heights. 2,798,218, 7-9-57, Cl. 1—3.
- Allen, Howard G., to Bostitch, Inc. Carton-sealing machine. 2,799,861, 7-23-57, Cl. 1—101.
- Allen, Howard I., Jr.: *See—*
Alderson, William H., and Allen. 2,794,770.
- Allen, Irving W. Illuminated viewing device. 2,795,997, 6-18-57, Cl. 88—39.
- Allen, Jack. Tooth pick dispenser. 2,788,154, 4-9-57, Cl. 221—196.
- Allen, James F.: *See—*
Pianfetti, John A., Williams, and Allen. 2,786,009.
Williams, Oren F., and Allen. 2,798,880.
- Allen, James F., to Food Machinery and Chemical Corp. Phosphate esters of oximes. 2,816,128, 12-10-57, Cl. 260—461.
- Allen, James W.: *See—*
Krier, Alexander O., Allen, and Williams. 2,792,864.
- Allen, John B. Feed water deaerators. 2,809,711, 10-15-57, Cl. 183—2.5.
- Allen, John W., to General American Transportation Corp. Centering device for floating roof. 2,788,913, 4-16-57, Cl. 220—26.
- Allen, Jonathan K., $\frac{1}{4}$ to Allen Padex Corp. Ironer roll cover. 2,794,240, 6-4-57, Cl. 29—131.
- Allen, Joseph S.: *See—*
Stace, Walter L., and Allen. 2,784,002.
- Allen, Joseph W., to Bendix Aviation Corp. Overvoltage protective device. 2,784,323, 3-5-57, Cl. 307—57.
- Allen, Justin H.: *See—*
Sullivan, Francis J., Bair, and Allen. 2,797,081.
- Allen, Leo G. Puller tool having a manually operated sliding hammer. 2,779,089, 1-29-57, Cl. 29—254.
- Allen, Lloyd W., to International Business Machines Corp. Core matrix. 2,778,005, 1-15-57, Cl. 340—174.
- Allen, Louis N., Jr.: *See—*
Roy, Tuhin K., and Allen. 2,798,802.
Van Hare, George, Jr., and Allen. 2,805,918.
- Allen, Luther O., and W. J. Vollenweider. Tractor attached mower. 2,791,081, 5-7-57, Cl. 56—25.4.
- Allen Mfg. Corp.: *See—*
Abt, Arthur L. 2,809,932.
- Allen, Margaret. Artificial fly body and method of making same. 2,814,148, 11-26-57, Cl. 43—42.25.
- Allen, Mary L.: *See—*
Yarrow, Joseph S. 2,817,916.
- Allen, Max A., to North American Aviation, Inc. Universally floating nut. 2,789,457, 4-23-57, Cl. 85—32.
- Allen, Murray W., to Commonwealth Scientific and Industrial Research Organization. Binary adder-subtractor tube and circuit. 2,812,135, 11-5-57, Cl. 235—61.
- Allen Padex Corp.: *See—*
Allen, Jonathan K. 2,794,240.
- Allen, Philip J., to the United States of America as represented by the Secretary of the Navy. Electronic microwave switch. 2,809,354, 10-8-57, Cl. 333—7.
- Allen, Philip J., and J. H. Dunn. Dielectric disc phase-shifter for waveguide. 2,779,003, 1-22-57, Cl. 333—31.
- Allen, R. C., Business Machines, Inc.: *See—*
Carlson, John T. 2,815,110.
- Allen, Raymond W., to The Firestone Tire & Rubber Co. Vehicle wheel suspension. 2,779,636, 1-29-57, Cl. 305—9.
- Allen, Richard C., and J. H. Lego, to International Business Machines Corp. Xerographic image fixing apparatus. 2,807,704, 9-24-57, Cl. 219—45.
- Allen, Richard M., to The Gong Bell Mfg. Co. Toy power lawn mower. 2,781,609, 2-19-57, Cl. 46—39.
- Allen, Robert C. Means to determine the weight load of a motor vehicle. 2,792,209, 5-14-57, Cl. 265—40.
- Allen, Robert L.: *See—*
Beale, Dorr D., Johnson, and Allen. 2,811,182.
- Allen, S. L., & Co., Inc.: *See—*
Bonner, Edwin K., Jr. 2,796,719.
- Allen, Seward E., and C. W. Huffman, to Monsanto Chemical Co. Plant growth regulation. 2,799,568, 7-16-57, Cl. 71—2.7.
- Allen-Sherman-Hoff Co., The: *See—*
Mylting, Lauritz E. 2,776,171.
Mylting, Lauritz E. 2,807,202.
- Allen, Terry T. Anchoring means for toilet bowls. 2,789,615, 4-23-57, Cl. 151—41.7.
- Allen, Theodore K.: *See—*
Ising, George E., and Allen. 2,815,534.
- Allen, Thomas C.: *See—*
Stahmann, Mark A., Allen, Casida, and Chapman. 2,814,636.
- Allen, Thomas O., and G. H. Tausch, to Esso Research and Engineering Co. Apparatus for obtaining fluid flow from wells. 2,798,560, 7-9-57, Cl. 166—185.
- Allen, W. D., Mfg. Co.: *See—*
Pokryfke, John A. 2,780,430.
Pratt, Herbert L. 2,815,180.
- Allen, Wallace B.: *See—*
Broding, Robert A., and Allen. 2,794,951.
- Allen, Wallace T., and W. H. Woods, to Square D Co. Circuit breaker. 2,814,693, 11-26-57, Cl. 200—95.
- Allen, Walter J. Lubricating device. 2,779,509, 1-29-57, Cl. 222—189.
- Allen, Wendell P., and W. N. Lester, to General Electric Co. Interlock mechanism for a plurality of circuit breakers. 2,791,729, 5-7-57, Cl. 317—103.
- Allen, Wesley M. Bow string guide. 2,777,437, 1-15-57, Cl. 124—30.
- Allen, William A., to Carrier Corp. Ice cream making apparatus. 2,809,498, 10-15-57, Cl. 62—79.
- Allen, William S.: *See—*
Bernstein, Seymour, and Allen. 2,777,864.
Bernstein, Seymour, and Allen. 2,806,043.
Bernstein, Seymour, Lenhard, and Allen. 2,789,118.
Feldman, Louis I., and Allen. 2,789,940.
- Allen, William S., and O. E. Romig, to United States Steel Corp. Composition and method for increasing surface resistivity of silicon steel. 2,811,473, 10-29-57, Cl. 148—6.15.
- Allen, Willis E. Degree layout and fit-up table. 2,802,440, 8-13-57, Cl. 113—102.
- Allenbach, Roy E., to The Pueblo Tent and Awning Co. Inc. Floater. 2,800,666, 7-30-57, Cl. 9—17.
- Allenbaugh, George G., Jr.: *See—*
Fishelson, Joseph E., and Allenbaugh. 2,806,741.
- Allenbaugh, Ralph, to The Cadm Corp. Collating machine. 2,799,496, 7-16-57, Cl. 270—58.
- Allen, Edmund R., to American Transportation Corp. Outlet valve for hoppers. 2,789,739, 4-23-57, Cl. 222—556.
- Allen, Willis F., to The Sheffield Corp. Process for assembling ball bearings. 2,784,485, 3-12-57, Cl. 29—148.4.
- Allen, Willis F., to The Sheffield Corp. Method of gauging and selecting cooperating parts. 2,796,658, 6-25-57, Cl. 29—148.4.
- Allen, Willis F., to The Sheffield Corp. Gauging device and method for checking a radius of curvature. 2,796,671, 6-25-57, Cl. 33—178.
- Alles, Francis P., to E. I. du Pont de Nemours and Co. Polyester films and their preparation. 2,779,684, 1-29-57, Cl. 117—7.
- Alles, Gordon A. 1-paramethoxyphenyl-2-cyclopentylamino-1-propanol compounds. 2,776,993, 1-8-57, Cl. 260—563.
- Alley, Dee J. Perpetual calendar. 2,786,291, 3-26-57, Cl. 40—109.
- Allezard, Roland A.: *See—*
Strauch, Raymond H., Allezard, and Menu. 2,786,199.
- Allgaier, Albert: *See—*
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- Allied Control Co., Inc. : See—**
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- Allinquant, Fernand S.**
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- Allisbaugh, Howard C., to Eli Lilly and Co.**
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- Allison, Audrey J., to Allison Studios, Inc.**
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- Allison, Byron L., Jr. : See—**
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- Allison, John R., and C. A. Hewitt, to Leffingwell Chemical Co.**
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- Allison, Kenneth C., to Grigsby-Allison Co., Inc.**
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- Allison, Kenneth C.**
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- Allison, Lloyd H., to Plan-It Homes.**
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- Allison, Roy R., to Minnesota Mining and Mfg. Co.**
 Machine and method for applying a tear string or tape to box carton blanks. 2,788,079, 4-9-57, Cl. 93-1.
- Allison Studios, Inc. : See—**
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- Allison, William, to American Bosch Arma Corp. Projection device with directional lens. 2,800,054, 7-23-57, Cl. 88—24.
- Allison, William D. Torsional spring suspension for motor vehicles. 2,788,982, 4-16-57, Cl. 280—104.
- Allison, William M.: *See*—
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- Allison, William M., to Sprague Electric Co. Electrical capacitors. 2,785,351, 3-12-57, Cl. 317—260.
- Allman, Arvel D., 33 $\frac{1}{2}$ to O. L. Fanning, and 33 $\frac{1}{2}$ to H. D. Allman. Retriever for a fish lure. 2,800,738, 7-30-57, Cl. 43—17.2.
- Allman, Earl L., Sr. Adjustable tool holder. 2,817,902, 12-31-57, Cl. 83—27.
- Allman, Harry D.: *See*—
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- Allmand, John W. Fastener for flexible sheet material. 2,813,322, 11-19-57, Cl. 24—253.
- Allmang, William: *See*—
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- Allover Mfg. Co.: *See*—
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- Meltzer, Henry E. 2,796,715.
- Allred, Lura L., to Bask Tool Co. Socket wrench and latching adapters therefor. 2,800,822, 7-30-57, Cl. 81—125.
- Allred, Raymond C.: *See*—
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- Allred, Worth P.: *See*—
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- Allwes, Alvin E. Hydraulic means for propelling vehicles. 2,793,876, 5-28-57, Cl. 280—216.
- Allwood Inc.: *See*—
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- Allyn, Alvin L., to Shark Chaser Chemicals Co. Method of and means for controlling fish movements. 2,810,229, 10-22-57, Cl. 43—4.5.
- Allyn, Charles L., E. M. Barrentine, T. S. Hodgins, F. J. Shelton, and R. L. Rawson, to Reichhold Chemicals, Inc. Unsupported catalyst for the oxidation of methanol to formaldehyde. 2,812,309, 11-5-57, Cl. 252—470.
- Allyn, K. & B. Co.: *See*—
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- Allyn, Welch, Inc.: *See*—
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- Alma, Gerrit H. P., to North American Philips Co., Inc. Electric discharge tube comprising a plurality of electron beams. 2,793,310, 5-21-57, Cl. 313—69.
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- Almond, John R., to The Midland Steel Products Co. Door operating system. 2,782,028, 2-19-57, Cl. 268—20.
- Almqvist, Bo K. L., and B. O. Elgström, to International Aquavion S. A. Hydrofoil watercraft having stabilizing means. 2,791,195, 5-7-57, Cl. 114—66.5.
- Alox Corp.: *See*—
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- Alpert, Daniel, to Westinghouse Electric Corp. Electrical vacuum pump. 2,808,980, 10-8-57, Cl. 230—69.
- Alpert, Max, to Pacific Coast Products, a copartnership consisting of H. Chester and H. N. Schwartz. Device for mixing a cleaning agent with a stream of water. 2,797,132, 6-25-57, Cl. 299—84.
- Alpha Shrimp Machine Corp., The: *See*—
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- Alrich, John C., to Burroughs Corp. Timing signal generation. 2,807,003, 9-17-57, Cl. 340—174.
- Alsbrook, Bishop N., Jr., and T. H. Harkey. Drive-in theater speakers severance warning system. 2,786,098, 3-19-57, Cl. 179—1.
- Alsdorf, Ralph E., $\frac{1}{2}$ to L. C. Van Huben. Glazier's tool. 2,807,077, 9-24-57, Cl. 29—225.
- Alsina, Adolfo H. Crank-driven jig saw with flexible transmission means. 2,810,410, 10-22-57, Cl. 143—70.
- Alsobrook, Benjamin R.: *See*—
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- Alspaugh, Paul L., and R. R. Cosner, to Union Carbide and Carbon Corp. Process and apparatus for bore hole mining and conveying. 2,780,451, 2-5-57, Cl. 262—7.
- Alsterda, John R.: *See*—
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- Altec Lansing Corp.: *See*—
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- Altekruse, John L., to The Goodyear Tire & Rubber Co. Hydraulic torque controller for brakes. 2,781,871, 2-19-57, Cl. 188—152.
- Altamus, James D. Convertible aircraft with retractable lift rotor. 2,792,189, 5-14-57, Cl. 244—7.
- Altamus, James D. Pneumatic cotton harvester with gyrating picking fingers. 2,798,351, 7-9-57, Cl. 56—12.
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- Altenburger, Wilhelm. Carding machine. 2,810,936, 10-29-57, Cl. 19—70.
- Altenpohl, William F., Jr. Poultry handling device. 2,797,003, 6-25-57, Cl. 214—308.
- Alter, John E. Collapsible structure. 2,799,368, 7-16-57, Cl. 189—14.
- Alter, Winfield S., to Cook 'N' Tools, Inc. Cooker. 2,787,995, 4-9-57, Cl. 126—25.
- Altfillich, Michael D., H. A. Powers, and R. B. White, to Detroit Controls Corp. Gyroscopic mass flowmeter. 2,813,423, 11-19-57, Cl. 73—194.
- Altgelt, Herman E., to Deere & Co. Adjustable hitch mechanism for tractor-mounted plows. 2,796,817, 6-25-57, Cl. 97—47.52.
- Althens, Herbert E.: *See*—
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- Althouse Chemical Co.: *See*—
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- Feeman, James F. 2,795,578.
- Althouse, Homer C., to American Telephone and Telegraph Co. Trunk circuit. 2,803,706, 8-20-57, Cl. 179—18.
- Altieri, Joseph R., to Acton Laboratories, Inc. Variable electrical resistor. 2,778,908, 1-22-57, Cl. 201—56.
- Altieri, Joseph R., to Acton Laboratories, Inc. Method of and apparatus for noise measurement or indication in an electric circuit. 2,778,994, 1-22-57, Cl. 324—63.
- Altieri, Joseph R., to Acton Laboratories, Inc. Conversion device. 2,809,351, 10-8-57, Cl. 332—2.
- Altieri, Joseph R., and R. F. Gaba, to Acton Laboratories, Inc. Resolution tester. 2,779,918, 1-29-57, Cl. 324—63.
- Altman, Francis M. Apparatus for removing trash from cotton gins. 2,787,810, 4-9-57, Cl. 19—58.
- Altman, Frederick J., to International Telephone and Telegraph Corp. Coherent radar system. 2,776,425, 1-1-57, Cl. 343—7.7.
- Altman, Frederick J., to International Telephone and Telegraph Corp. Moving target range tracking unit. 2,776,426, 1-1-57, Cl. 343—9.
- Altman, Gerald: *See*—
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- Altman, Leonard: *See*—
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- Altman, Louis W., and H. Jung, to Applied Engineering of Wisconsin. Liquid pump. 2,802,606, 8-13-57, Cl. 222—324.
- Altman, Peter: *See*—
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- Altman, Teddy G. Dental chest. 2,812,880, 11-12-57, Cl. 222—94.
- Altmann, Andrew J. Combination cutter and attachment. 2,780,001, 2-5-57, Cl. 30—132.
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- Altmiller, Albert. Chain saw bucking device. 2,782,812, 2-26-57, Cl. 143—32.
- Altner, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Mixed polyurethane lacquer and method of coating there-with. 2,817,643, 12-24-57, Cl. 260—42.
- Alton Box Board Co.: *See*—
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- Alton, Werner: *See*—
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- Altosaar, Heino, to Dominion Textile Co. Ltd. Apparatus for the continuous treatment of textile materials. 2,792,700, 5-21-57, Cl. 68—5.
- Altrenter, Royal K., and W. F. Segelken, to Esso Research and Engineering Co. Catalytic dehydrogenation of secondary alcohols to ketones. 2,794,053, 5-28-57, Cl. 260—596.
- Altschuler, Robert L. Device for making building blocks. 2,792,614, 5-21-57, Cl. 25—41.
- Altschuler, Robert L. Machine for manufacturing building panels. 2,804,672, 9-3-57, Cl. 25—99.
- Altwickler, Elmar: *See*—
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- Altwickler, Hubert J., and K. F. Braeuninger. Method of shaping and finishing hollow elongated objects. 2,812,572, 11-12-57, Cl. 29—56.8.
- Aluma Kraft Mfg. Co.: *See*—
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- Alumatic Corp. of America: *See*—
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- Aluminium A. G. Menziken: *See*—
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- Aluminium Bronze Co. Ltd.: *See*—
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- Aluminium Laboratories Ltd.: *See*—
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- Aluminum Co. of America: *See*—
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- Aluminum Laboratories Ltd.: *See*—
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- Aluminum Products, Inc.: *See*—
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- Alvarez, Luis W., to Chromatic Television Laboratories, Inc.
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- Alvarez, Luis W. Suppressed side-lobe radio receiving system. 2,804,614, 8-27-57, Cl. 343-16.
- Alvarez, Octavio J. Electrical musical instrument. 2,799,196,
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- Alvernaz, Antonio L., $\frac{1}{2}$ to W. E. Walgren. Dice throwing device. 2,791,432, 5-7-57, Cl. 273-145.
- Alves, Raymond W. Wall-type container for tooth brushes. 2,794,696, 6-4-57, Cl. 312-206.
- Alwac International: *See*—
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- Alward, Kenneth C. Cylindrical construction. 2,813,765,
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- Aman, Thomas E. Sectionally formed brush, and the like. 2,810,147, 10-22-57, Cl. 15-202.
- Amara Refrigeration, Inc.: *See*—
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Schlichting, Otto, Westphal, Pachaly, and Amann. 2,812,358.
- Amann, Max, W. Gruger, and R. Scholpp, to International Standard Electric Corp. Sound damper for signalling devices. 2,800,101, 7-23-57, Cl. 116-149.
- Amatniek, Ernest, to J. Greenspan, d. b. a. Process and Instruments. Differential amplifier. 2,778,884, 1-22-57, Cl. 179-171.
- Amatniek, Ernest, to J. Greenspan, doing business as Process and Instruments. Multistable networks. 2,810,072, 10-15-57, Cl. 250-27.
- Amberg, John A., to The Westfield Mfg. Co. Lubricating device for bicycle sprocket chain. 2,813,599, 11-19-57, Cl. 184-16.
- Amberg, Walter E. Centrifugal atomizer for liquids. 2,784,033, 3-5-57, Cl. 299-63.
- Amberg, Walter E., to Lily-Tulip Cup Corp. Paper containers. 2,816,697, 12-17-57, Cl. 229-1.5.
- Amblard, Marcel E., and R. B. Winn, to E. I. du Pont de Nemours and Co. High pressure pumping method. 2,795,195, 6-11-57, Cl. 103-153.
- Ambler, Arnold E., to Imperial Chemical Industries Ltd. Photographic film base and process for the manufacture thereof. 2,805,173, 9-3-57, Cl. 117-62.
- Ambler, Geoffrey H., and W. R. Collier, to Ambler Superdraft Ltd. Driving of rotatable shafts. 2,810,164, 10-22-57, Cl. 19-130.
- Ambler Superdraft Ltd.: *See*—
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- Ambrette, Conrad, to Ambrette Machinery Corp. Dough sheeting die. 2,791,187, 5-7-57, Cl. 107-14.
- Ambrette Machinery Corp.: *See*—
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- Ambrose, Edwin R. and J. W. Starting aid for internal combustion engines. 2,803,295, 8-20-57, Cl. 158-36.
- Ambrose, John W.: *See*—
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- Ambrose, Marie: *See*—
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- Ambrose, Steve. Protective cover and article retaining tray for vehicle fenders. 2,797,932, 7-2-57, Cl. 280-150.
- Ambrosio, John. Adjustable garment hangers. 2,805,011, 9-3-57, Cl. 223-88.
- Ambrosio, Biagio F. Distance measurements by sonic means. 2,780,795, 2-5-57, Cl. 340-3.
- Ambuhl, Ernst. Method of promoting seed germination. 2,816,014, 12-10-57, Cl. 71-1.
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- Amen, Nicholas C. Bearing and lubricant friction evaluating apparatus. 2,780,091, 2-5-57, Cl. 73-9.
- Amend, Arthur L. Locating fixture. 2,782,520, 2-26-57, Cl. 33-185.
- Amend, Arthur L. Tool-locking device. 2,805,866, 9-10-57, Cl. 279-77.
- Amerace Corp.: *See*—
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- Amercoat Corp.: *See*—
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- American Agricultural Chemical Co., The: *See*—
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- Sullivan, Thomas J., Milligan, and Gross. 2,799,556.
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- American Art Metals Co.: *See*—
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- American Arts & Crafts, Inc.: *See*—
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- American Autolastic Corp.: *See*—
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- American Biltrite Rubber Co., Inc.: *See*—
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- American Bosch Arms Corp.: *See*—
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- Berlyn, Martin J. 2,813,492.
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- Davis, Arthur P. 2,817,239.
- Fancher, Kenneth L., and Hess. 2,815,741.
- Gittleman, Ralph, and Tellerman. 2,816,179.
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- American Carry Products Co., Inc.: *See*—
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- American Chain & Cable Co., Inc.: *See*—
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- American Character Doll Co.: *See*—
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- American Chemical Paint Co.: *See*—
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 American Grease Stick Co.: *See*—
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 American Hardware Corp., The: *See*—
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 Bruce, William F. 2,784,237.
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 Bruce, William F., Diamond, and de Vere Huber. 2,813,874.
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 Dann, Morris, Peterson, and Moran. 2,807,923.
 Gorgy, Paul, Kuhn, and Zilliken. 2,783,148.
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 Hanslick, Roy S., and Bruce. 2,784,229.
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 Myers, Gordon S., Morozovitch, and Grant. 2,784,189.
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 Seifter, Joseph, Hanslick, and Freed. 2,780,646.
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- American Home Products Corp.: *See*—Continued
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- American Hospital Supply Corp.: *See*—
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- American Instrument Co., Inc.: *See*—
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- American Iron & Machine Works Co., Inc.: *See*—
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Steirly, Albert R. 2,786,485.
- American Kleer-Vu Plastics, Inc.: *See*—
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- American Laundry Machinery Co., The: *See*—
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Ketchum, Clarence A. 2,788,769.
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Ketchum, Clarence A., and Prendergast. 2,784,509.
McLagan, Russell G. 2,778,550.
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- American Leicithin Co., Inc.: *See*—
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- American-Lincoln Corp.: *See*—
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- American Linen Supply Co.: *See*—
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- American Locker Co., Inc.: *See*—
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- American Machine & Foundry Co.: *See*—
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Rand, Kenneth R. 2,780,182.
Saunders, Norman B. 2,781,503.
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Wells, Willis L. 2,798,721.
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- American Machine and Metals, Inc.: *See*—
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- American Maize-Products Co.: *See*—
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- American-Marietta Co.: *See*—
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Chidister, Earl W. 2,779,080.
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Scripture, Edward W., Jr. 2,776,902.
Scripture, Edward W., Jr. 2,776,903.
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- American-Marietta Co., Adhesive, Resin and Chemical Division: *See*—
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- American-Marietta Co., Stoner-Mudge Co. Division: *See*—
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- American Meat Institute Foundation: *See*—
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- American Messer Corp.: *See*—
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- American Metal Co., Ltd., The: *See*—
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- American Metal Products Co.: *See*—
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- American Metal Specialties Corp.: *See*—
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- American Metallurgical Products Co.: *See*—
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- American Meter Co., Inc.: *See*—
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- American Molded Products Co.: *See*—
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- American MonoRail Co., The: *See*—
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- American Motors Corp.: *See*—
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Kishline, Floyd F., and Wood. 2,777,632.
Martin, Owen D. 2,783,065.
Mikulas, William. 2,801,146.
Moore, Meade F., and Christensen. 2,789,794.
Moore, Meade F., and Christensen. 2,796,820.
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- American Oil Co., The: *See*—
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- American Optical Co.: *See*—
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Ellis, Charles A., and Cole. 2,798,408.
Gile, Richard M. 2,808,760.
Granitsas, George A. 2,793,585.
Gunter, Roy C., Jr., and Haynes. 2,803,995.
Harper, Kennard W. 2,810,963.
Herrmann, John F. 2,808,759.
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Hopkins, Robert E. 2,803,997.
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Polley, Herman M. 2,803,884.
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Thorburn, Milton R. 2,789,441.
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- American Photocopy Equipment Co.: *See*—
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- American Pipe and Construction Co.: *See*—
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- American Plastics Corp.: *See*—
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- American Platinum Works, The: *See*—
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- American Playground Device Co.: *See*—
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- American Potash & Chemical Corp.: *See*—
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Mazza, Harold, Cohen, and Schafer. 2,776,202.
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- American Pulley Co., The: *See*—
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- American Radiator & Standard Sanitary Corp.: *See*—
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 Budde, James C. 2,818,215.
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 Hyde, Robert W. 2,787,174.
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 Meyer, Harry A. 2,799,446.
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- American Safety Razor Corp.: *See*—
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- American Safety Table Co., Inc.: *See*—
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- American Saw and Mfg. Co.: *See*—
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- American Saw & Tool Co.: *See*—
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- American Seal-Kap Corp. of Delaware: *See*—
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- American Seating Co.: *See*—
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 Hoven, Alfred C., and Nordmark. 2,786,513.
 Hoven, Alfred C., and Nordmark. 2,800,171.
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- American Scientific Laboratories, Inc.: *See*—
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- American Screen Products Co.: *See*—
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- American Screw Co., The: *See*—
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- American Ship Building Co., The: *See*—
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- American Sisalkraft Corp.: *See*—
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- American Smelting and Refining Co.: *See*—
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- American Specialty Co., The: *See*—
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- American Stay Co.: *See*—
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- American Steel Foundries: *See*—
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- American Steel Foundries: *See*—Continued
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- American Sterilizer Co.: *See*—
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- American Sugar Refining Co., The: *See*—
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- American Sulphur & Refining Co.: *See*—
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- American Tag Co. of New Jersey: *See*—
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- American Telephone and Telegraph Co.: *See*—
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- American Tobacco Co., The: *See*—
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- American Tool Works Co., The: *See*—
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- American Totalisator Co., Inc.: *See*—
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- American Trailer Co., Inc.: *See*—
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- American Truck Equip. Co.: *See*—
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- American Type Founders, Inc.: *See*—
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- American Uniform Co.: *See*—
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- American Viscose Corp.: *See*—
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 Ayars, Edward M., Jr., Beyers, Heffelfinger, and Truitt. 2,814,088.
 Ayars, Edward M., Jr., and Little. 2,801,460.
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 Bosler, William J. W., and Harvey. 2,800,403.
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 Cafasso, Joseph A. 2,791,484.
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 Denysen, Ivanhoe P. 2,795,321.
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- American Viscose Corp.: *See*—Continued
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 Smith, Robert R. 2,816,430.
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- American Zinc, Lead & Smelting Co.: *See*—
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 Hayes, Dale I. 2,809,703.
- Amering, Charles F.: *See*—
 Lake, Orson W., and Amering. 2,794,388.
- Amerio, Pasquale, and A. L. Kraft, to Amerio Refrigerating Equipment Co., Inc. Automatic pusher assembly. 2,812,050, 11-5-57, Cl. 198-31.
- Amerio Refrigerating Equipment Co., Inc.: *See*—
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- Amerock Corp.: *See*—
 Borchers, Earl M., and Ahlgren. 2,782,061.
- Ames, Edward E., to Ames Harris Neville Co. Automatic spring tensioner for tents. 2,811,164, 10-29-57, Cl. 135-3.
- Ames Harris Neville Co.: *See*—
 Ames, Edward E. 2,811,164.
- Ames, Jack, to Imperial Chemical Industries Ltd. Potassium nitrate of reduced tendency to caking and setting. 2,782,094, 2-19-57, Cl. 23-102.
- Ames, Jack, to Imperial Chemical Industries Ltd. Sodium nitrate of reduced tendency to caking and setting. 2,782,095, 2-19-57, Cl. 23-102.
- Ames, Jack, to Imperial Chemical Industries Ltd. Ammonium nitrate of reduced tendency to caking and setting on storage. 2,782,096, 2-19-57, Cl. 23-103.
- Ames, Jack, and E. K. Pierpoint, to Imperial Chemical Industries, Ltd. Ammonium nitrate of reduced tendency to caking and setting on storage and method of producing same. 2,794,701, 6-4-57, Cl. 23-103.
- Ames, John R.: *See*—
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- Ames, Malcolm H., to Technicolor Corp. Motion picture camera with shifting mechanism for viewfinding. 2,804,799, 9-3-57, Cl. 88-16.
- Ames, Malcolm H., and W. B. Tucker, to Technicolor Corp. Cinematographic film processing. 2,809,828, 10-15-57, Cl. 271-2.2.
- Ames, Robert G., $\frac{1}{2}$ to G. W. Williams, and $\frac{1}{4}$ to S. Ames. Recess-filling mastic applicator. 2,809,513, 10-15-57, Cl. 72-130.
- Ames, Robert G., $\frac{1}{2}$ to G. W. Williams, and $\frac{1}{4}$ to S. Ames. Self-contained dry wall taper. 2,815,142, 12-3-57, Cl. 216-25.
- Ames, Stanley: *See*—
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- Ames, W. R., Co.: *See*—
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- Amesbury, Robert R., to United-Carr Fastener Corp. Knob assembly. 2,801,118, 7-30-57, Cl. 287-53.
- Ami Inc.: *See*—
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- Amiard, Gaston, R. Heymes, and L. Velluz, to UCLAF. Process of resolving amino acids of the proline type. 2,794,025, 5-28-57, Cl. 260-326.3.
- Amiard, Gaston, R. Heymes, and L. Velluz, to U C L A F. Process of resolving DL-acyl tryptophan compounds and products obtained thereby. 2,797,226, 6-25-57, Cl. 260-319.
- Amiard, Gaston, R. Heymes, and L. Velluz, to U C L A F. Method of preparing dicyclohexylcarbodiimide. 2,797,240, 6-25-57, Cl. 260-551.
- Amico, Frank. Top lift trimmer. 2,787,012, 4-2-57, Cl. 12-103.
- Amico, Frank. Toy racing game. 2,808,265, 10-1-57, Cl. 273-86.
- Amida S. A.: *See*—
 Bamat, Joseph. 2,781,630.
- Amidon, Roger W.: *See*—
 Tawney, Pliny O., and Amidon. 2,780,615.
- Amidon, Roy C., and D. W. Rhoads, to Nanco, Inc. Knitting machine needle. 2,796,606, 6-18-57, Cl. 66-120.
- Amigone, Joseph N. Combination wine bottle cooler and ice bucket. 2,817,458, 12-24-57, Cl. 222-131.
- Amigone, Joseph N. Wine bottle cooler, ice bucket and beverage dispenser, and holder therefor. 2,817,459, 12-24-57, Cl. 222-131.
- Amison, Willard C., to Bendix Aviation Corp. Quick release valve actuator. 2,813,546, 11-19-57, Cl. 137-790.
- Ammann, Hubert A. Radar training devices. 2,777,215, 1-15-57, Cl. 35-10.4.
- Ammann, Jurg: *See*—
 Bossard, Werner, and Ammann. 2,817,658.
- Ammann, William L. Tire bead unseating tool. 2,784,777, 3-12-57, Cl. 157-1.26.
- Ammco Tools, Inc.: *See*—
 Billeter, Henry R. 2,812,624.
 Billeter, Henry R., and Kushmuk. 2,777,259.
- Ammerman, John: *See*—
 Setzekorn, Eugene M., Espersen, and Ammerman. 2,803,952.
- Ammlung, Louis C., Jr., and H. E. F. C. Lingenbrink, to United Specialties Co. Device for operating a turn indicator switch. 2,815,413, 12-3-57, Cl. 200-61.35.
- Ammon, Johannes H.: *See*—
 Kessler, George W., and Ammon. 2,800,113.
- Ammon, Johannes H., to The Babcock & Wilcox Co. Tubular ball drift tube expander. 2,780,272, 2-5-57, Cl. 153-80.5.
- Ammon, Roscoe A. Moving coil mechanism. 2,800,553, 7-23-57, Cl. 200-110.
- Ammons, Archie R.: *See*—
 Lovett, Joseph F. 2,785,742.
- Amoco Chemicals Corp.: *See*—
 Hnilicka, Miloslav P. 2,793,507.
- Amon, Frederick E., Jr.: *See*—
 Davies, Robert H., and Amon. 2,811,168.
- Amon, Robert. Dispensing devices for liquid or paste material. 2,805,794, 9-10-57, Cl. 222-148.
- Amoson, George H. Variable speed drive. 2,778,235, 1-22-57, Cl. 74-230.17.
- Amos, Alfred E.: *See*—
 Letterman, Charles B., and Amos. 2,818,154.
- Amos, Arthur M. Wheel slip or lock indicator. 2,815,503, 12-3-57, Cl. 340-268.
- Ampco Metal Inc.: *See*—
 Garriott, Francis E. 2,785,094.
 Garriott, Francis E. 2,805,178.
 Garriott, Francis E., and Klement. 2,789,065.
 Mullen, Henry A. 2,780,718.
- Amori, Joseph A. Fruit halving rotary knife. 2,801,660, 8-6-57, Cl. 146-73.
- Ampatco Laboratories Corp.: *See*—
 Gievers, Johannes G. 2,802,957.
 Gievers, Johannes G. L. 2,802,364.
 Hunstiger, Francis, and Massmann. 2,793,515.
- Ampco Metal, Inc.: *See*—
 Klement, John F. 2,798,826.
- Ampex Corp.: *See*—
 Brettell, George A. 2,814,354.
 Casagrande, Jere J. 2,802,201.
- Ampex Electric Corp.: *See*—
 Becker, Carl H. 2,783,677.
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 Becker, Carl H. 2,807,675.
- Dolby, Ray M., Fisher, and Wernli. 2,797,263.
- Amphenol Electronics Corp.: *See*—
 Schaefer, James H., and Kenmer. 2,798,404.
 Valach, Charles F. 2,813,144.
- Amplex Corp.: *See*—
 Bernstein, Irving S. 2,785,291.
- Ampro Corp.: *See*—
 Howell, Hugh A., and Bauman. 2,801,293.
- Amrhein, Heinz, and E. Landeck, to F. Wendt, Kommanditgesellschaft. Abrading machine. 2,806,329, 9-17-57, Cl. 51-60.
- Amson, Chester C., and C. G. Lehr, to Raytheon Mfg. Co. Tunable magnetrons. 2,811,670, 10-29-57, Cl. 315-39.61.
- Amson, Richard T., to American-Lincoln Corp. Gyrotory and straight-line movement abrading machine. 2,817,192, 12-24-57, Cl. 51-170.
- Amsel, Harry: *See*—
 Tucker, Grahame E. R., Amsel, and Wright. 2,800,076.
- Amsel Ltd.: *See*—
 Tucker, Grahame E. R., Amsel, and Wright. 2,800,076
- Amsler Morton Corp.: *See*—
 Graham, Frank H. 2,776,827.
 Herman, Carl L. 2,792,795.
- Amsterdam, Lewis L. Atlas. 2,809,447, 10-15-57, Cl. 35-42.
- Amstey, David H.: *See*—
 Rick, Richard M. 2,791,909.
- Amundsen, Earl K., to Hughes Aircraft Co. Card reading station. 2,792,175, 5-14-57, Cl. 235-61.11.
- Amundsen, Sidney W. Conditioning container for shot gun shells. 2,795,323, 6-11-57, Cl. 206-3.
- Amundson, Roald H., to McGraw-Edison Co. Transformer overload protection. 2,817,794, 12-24-57, Cl. 317-14.
- Anaconda Co., The: *See*—
 Den Dooven, K. Camille, Jr. 2,807,065.
- Anaconda Wire and Cable Co.: *See*—
 Olson, John W., and Sortland. 2,782,138.
 Ormerod, Harold F. 2,787,653.
- Anagnostopoulos, Constantine E., to Monsanto Chemical Co. Preparation of mercaptopropionic acids. 2,808,436, 10-1-57, Cl. 260-535.
- Anagnostopoulos, Constantine E., and R. J. Wineman, to Monsanto Chemical Co. Preparation of disulfides of hydroxy butyric acid and derivatives thereof. 2,802,871, 8-13-57, Cl. 260-535.
- Anander, Andrew K., to Powers Chemco, Inc. Flexible sheet support for photographic device. 2,814,233, 11-26-57, Cl. 88-24.
- Anania, James A., $\frac{1}{2}$ to W. J. Matt, Jr., and 10% to F. L. Knecht. Cutter tool assemblies. 2,799,917, 7-23-57, Cl. 29-98.
- Anas, Thomas: *See*—
 Rider, Stuart H., Anas, and Fraser. 2,816,865.

- Anas, Thomas, and S. H. Rider, to Monsanto Chemical Co. Modified phenolic resin compositions. 2,816,085, 12-10-57, Cl. 260-45.1.
- Anastasia, Angelo. Combination tooth brush and dentifrice container. 2,796,875, 6-25-57, Cl. 132-84.
- Anastasia, Harry G., and W. T. Clermont, to Bendix Aviation Corp. Means for indicating equivalent airspeed. 2,807,958, 10-1-57, Cl. 73-178.
- Anastor, Charles G., to Owens-Illinois Glass Co. Plural-compartment vials and method of producing same. 2,815,755, 12-10-57, Cl. 128-272.
- Anazawa, Kenji, and E. Tsuruta, to Furukawa Electric Co., Ltd. and Furukawa Mining Co., Ltd. Process for manufacturing titanium tetrachloride and arrangement thereof. 2,777,756, 1-15-57, Cl. 23-262.
- Anchor Hocking Glass Corp.: See—
Stover, Harry E. 2,817,453.
Stover, Harry E. 2,817,454.
- Anchor Mfg. Co.: See—
Johansson, Ernest G. 2,812,963.
- Ancona, Edward P., Jr.: See—
Petus, James L., and Ancona. 2,784,260.
- Andenberg, A. W., Mfg. Co.: See—
Andenberg, Axel W., and Taylor. 2,784,459.
- Andenberg, Axel W., and G. A. Taylor, to A. W. Andenberg Mfg. Co. Supporting bracket for windows. 2,784,459, 3-12-57, Cl. 20-42.
- Anderle, Joseph A., to Lorentzen Hardware Mfg. Corp. Installation providing movement of Venetian blind away from window. 2,802,523, 8-13-57, Cl. 160-167.
- Anderle, Joseph A., to Lorentzen Hardware Mfg. Corp. Machine useful in the manufacture of Venetian blinds. 2,803,065, 8-20-57, Cl. 33-174.
- Andersen, Adolph L. Hitch. 2,813,743, 11-19-57, Cl. 294-74.
- Andersen, Algot. Artificial limbs. 2,808,593, 10-8-57, Cl. 3-17.
- Andersen, Clifford, and O. Anderson, to The Rudolph Wurllitzer Co. Piano sounding board assembly. 2,800,049, 7-23-57, Cl. 84-187.
- Andersen, Clifford W.: See—
Tucker, Clarence W., and Andersen. 2,807,295.
- Andersen, Donald L., to General Mills, Inc. Production of zwitterion of detergent amino acids. 2,816,920, 12-17-57, Cl. 260-534.
- Andersen, Eron. Mason's tool. 2,785,467, 3-19-57, Cl. 33-86.
- Andersen, Kaj O. Harrow tooth. 2,806,336, 9-17-57, Cl. 55-97.
- Andersen, Niels E., to F. L. Smidth & Co. Slurry preheater. 2,784,499, 3-12-57, Cl. 34-54.
- Andersen, Soren K., to The Garrett Corp. Temperature responsive flow controlling mechanism. 2,788,176, 4-9-57, Cl. 236-34.5.
- Andersen, Soren K., to The Garrett Corp. Heat exchanger. 2,811,337, 10-29-57, Cl. 257-236.
- Andersen, Svend A. Beet lifting and topping machine. 2,806,540, 9-17-57, Cl. 171-56.
- Anderson, Albert & J. M., Mfg. Co.: See—
Cobbett, Leonard C. 2,809,360.
- Anderson, Alfred H., to The General Fireproofing Co. Drawer pull. 2,805,911, 9-10-57, Cl. 312-320.
- Anderson, Alva E., to Bell Telephone Laboratories, Inc. Transistor trigger circuit. 2,812,445, 11-5-57, Cl. 250-211.
- Anderson, Alvan M. Expansion bracelet with adjustable tension means for the springs. 2,787,116, 4-2-57, Cl. 59-79.
- Anderson, Alvan M., and C. J. Cowan. Expandable linkage with detachable, spring tension adjusting pivots. 2,787,117, 4-2-57, Cl. 59-79.
- Anderson, Anders, to The Murray Corp. of America. Washing machine and method. 2,809,650, 10-15-57, Cl. 137-13.
- Anderson, Andrew K., and V. N. Towt. Hay baler. 2,775,930, 1-1-57, Cl. 100-180.
- Anderson, Archie C., to A. O. Smith Corp. Method and apparatus for making fiber reinforced resin tubing. 2,794,481, 6-4-57, Cl. 154-1.8.
- Anderson, Arnold M., to Hughes Aircraft Co. Process for installing lead in a direct-viewing storage tube. 2,806,279, 9-17-57, Cl. 29-25.13.
- Anderson, Arnold N.: See—
Tacchella, Adolph A., and Anderson. 2,804,860.
- Anderson, Arthur F.: See—
Newcomer, Harry S., and Anderson. 2,807,922.
- Anderson, Arthur G., to International Business Machines Corp. Spin echo memory systems. 2,780,798, 2-5-57, Cl. 340-173.
- Anderson, Arthur G., and J. W. Horton, to International Business Machines Corp. Spin echo memory processes. 2,799,844, 7-16-57, Cl. 340-173.
- Anderson, Arthur J., to General Motors Corp. Machine and process for forming shell molds. 2,785,447, 3-19-57, Cl. 22-36.
- Anderson, Arthur W.: See—
Monroe, Roger F., and Anderson. 2,802,878.
- Anderson, Arthur W., to The Dow Chemical Co. Method of preparing cellulose ethers quickly soluble in cold water. 2,791,584, 5-7-57, Cl. 260-232.
- Anderson, Arthur W. Stacking and nesting containers. 2,813,656, 11-19-57, Cl. 220-97.
- Anderson, Arthur W., N. G. Merckling, deceased (by N. K. Merckling, administratrix), and P. H. Settlege, to E. I. du Pont de Nemours and Co. Novel polymers of ethylene and bicyclo-(2,2,1)-2-heptenes. 2,799,668, 7-16-57, Cl. 260-88.1.
- Anderson, Arvid A., to Kaiser Aluminum & Chemical Corp. Process of purifying caustic aluminate liquors. 2,806,766, 9-17-57, Cl. 23-143.
- Anderson, Arvid R., to The Colmol Co. Mine face traversing mining head. 2,776,126, 1-1-57, Cl. 262-9.
- Anderson, August E. Auxiliary blade attachment for bulldozers. 2,816,375, 12-17-57, Cl. 37-143.
- Anderson, Austin E. Air injection milking machine device. 2,775,955, 1-1-57, Cl. 119-14.36.
- Anderson, Axel, to Sundstrand Machine Tool Co. Magnetic lifting unit. 2,794,941, 6-4-57, Cl. 317-123.
- Anderson, Axel F. L., to American Radiator & Standard Sanitary Corp. Fluid coupling. 2,784,553, 3-12-57, Cl. 60-54.
- Anderson, Axel G.: See—
Jernander, Alvin A., and Anderson. 2,789,396.
- Anderson, Berger. Mobile folding table. 2,792,270, 5-14-57, Cl. 311-92.
- Anderson, Beverly S., $\frac{1}{2}$ to E. H. Simpson. Pin cushions. 2,818,206, 12-31-57, Cl. 223-109.
- Anderson Brass Work: See—
Lock, Robert L., and Nilsson. 2,791,623.
- Anderson, Bror E.: See—
Clark, James d'A., and Anderson. 2,788,294.
- Anderson, Byron, and J. M. Hill. Correspondence conveyor with station selector to drop correspondence at a desired station. 2,804,965, 9-3-57, Cl. 198-38.
- Anderson, Carl A., to H. M. Davis. Irrigation control system. 2,781,228, 2-12-57, Cl. 299-25.
- Anderson, Carl A., to Anson, Inc. Bill fold clip. 2,785,722, 3-19-57, Cl. 150-38.
- Anderson, Carl E. Pivoted hanger clamp. 2,810,537, 10-22-57, Cl. 248-63.
- Anderson, Carl E. Double-thread hanger clamp. 2,810,538, 10-22-57, Cl. 248-63.
- Anderson, Carl L., to Raytheon Mfg. Co. Apparatus for housing and transporting electronic components. 2,798,781, 7-9-57, Cl. 312-7.
- Anderson, Carl R., to Aluminum Co. of America. Metal working operations. 2,798,286, 7-9-57, Cl. 29-423.
- Anderson, Carl R., and M. W. Mahns, to Aluminum Co. of America. Apparatus for the fabrication of ribbed structural members. 2,802,509, 8-13-57, Cl. 153-54.
- Anderson, Carroll R., to Munsingwear, Inc. Process of making an improved resilient fabric. 2,791,021, 5-7-57, Cl. 26-68.
- Anderson, Charles E.: See—
McEwan, Alexander W., Anderson, and Daniels. 2,806,973.
- Anderson, Charles H. J., to North American Philips Co., Inc. Lamp holder. 2,802,999, 8-13-57, Cl. 339-188.
- Anderson, Charles K. Smoking device. 2,778,363, 1-22-57, Cl. 131-181.
- Anderson, Clarence M., to Anderson Tool & Mfg. Co. Metal-cutting shears. 2,801,468, 8-6-57, Cl. 30-254.
- Anderson, Clarence W., to Norton Co. Diamond cut-off wheel. 2,796,706, 6-25-57, Cl. 51-206.
- Anderson, Claude: See—
Menser, Henry E., Jeffords, and Vancil. 2,781,930.
- Anderson, Cleophas E., and D. C. Stratton. Flask heaters. 2,793,278, 5-21-57, Cl. 219-38.
- Anderson, Clifford W. Dispensing attachment for containers. 2,804,240, 8-27-57, Cl. 222-207.
- Anderson Coach Co.: See—
Christeson, Blaine C. 2,782,818.
- Anderson, Dale R. Wall of pre-cast slabs. 2,810,287, 10-22-57, Cl. 72-107.
- Anderson, David F., to Canadian Ingersoll-Rand Co., Ltd. Apparatus and method for forming a fiber reinforced plastic article. 2,787,314, 4-2-57, Cl. 154-1.
- Anderson Die Casting & Engineering Co.: See—
Bennett, James C. 2,781,836.
Bennett, James C. 2,786,551.
- Anderson, Donald C., to The Proctor & Gamble Co. Carton magazine. 2,776,039, 1-1-57, Cl. 198-37.
- Anderson, Eddie. Spectacle cases. 2,809,766, 10-15-57, Cl. 220-55.
- Anderson, Edmund B., to Borg-Warner Corp. Lubricating means for relatively rotatable members. 2,802,351, 8-13-57, Cl. 64-17.
- Anderson, Edmund B., to Borg-Warner Corp. Universal joint. 2,802,352, 8-13-57, Cl. 64-21.
- Anderson, Edmund R., to Ingersoll-Rand Co. Compressor piston. 2,793,089, 5-21-57, Cl. 309-4.
- Anderson, Edward C., to Elgin American, Inc. Container with music box unit. 2,800,048, 7-23-57, Cl. 84-95.
- Anderson, Edward L., to Goodman Mfg. Co. Collapsible boring head. 2,808,250, 10-1-57, Cl. 262-7.
- Anderson, Edward L., to Goodman Mfg. Co. Adjustable trimmer bar for boring type mining machine. 2,808,251, 10-1-57, Cl. 262-7.
- Anderson, Edwin E.: See—
Anderson, Frank P., E. E., and R. L. 2,811,269.
- Anderson, Eldon, to Collins Radio Co. Reactance tube circuit. 2,777,992, 1-15-57, Cl. 332-24.
- Anderson, Elmer A.: See—
Grimmett, Howard L., and Anderson. 2,807,654.

- Anderson, Elmer G., $\frac{2}{3}$ to V. T. Wigglesworth. Universal joints and adjustments. 2,784,573, 3-12-57, Cl. 64-6.
- Anderson, Emil: *See*—
- Clark, Murray P., and Anderson. 2,779,255.
- Anderson, Ernest O., to Barmotive Products, Inc. Pulsating type tire gauge. 2,791,233, 5-7-57, Cl. 137-224.5.
- Anderson, Florence A. Receptacle. 2,796,310, 6-18-57, Cl. 312-246.
- Anderson, Floyd E.: *See*—
- Leonard, Frederick, and Anderson. 2,788,751.
- Anderson, Floyd E., to Nepera Chemical Co., Inc. Cyclic acetals of pyridine (3) aldehyde. 2,782,201, 2-19-57, Cl. 260-297.
- Anderson, Floyd R.: *See*—
- Essig, Benjamin C., and Anderson. 2,804,413.
- Anderson, Floyd R., to Gardner-Denver Co. Carburation of metal articles. 2,804,412, 8-27-57, Cl. 148-19.
- Anderson, Floyd R., and J. A. King, to Gardner-Denver Co. Carburation of metal articles. 2,804,411, 8-27-57, Cl. 148-16.5.
- Anderson, Floyd W., to Sears, Roebuck and Co. Adjustable plow. 2,797,627, 7-2-57, Cl. 97-47.53.
- Anderson, Francis M., to Halliburton Oil Well Cementing Co. High temperature well cementing. 2,805,719, 9-10-57, Cl. 166-29.
- Anderson, Frank A. Tape dispenser and cutter. 2,738,181, 4-9-57, Cl. 242-55.5.
- Anderson, Frank P., E. E., and R. L. Truck having removable body. 2,811,269, 10-29-57, Cl. 214-517.
- Anderson, Frederick E., to E. I. du Pont de Nemours and Co. Apparatus for releasing filaments sewn to a tape. 2,781,572, 2-19-57, Cl. 28-17.
- Anderson, Frederick E., to E. I. du Pont de Nemours and Co. Packages of cut filaments. 2,804,972, 9-3-57, Cl. 206-56.
- Anderson, George A., to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor. 2,780,596, 2-5-57, Cl. 204-193.
- Anderson, George A., to the United States of America as represented by the United States Atomic Energy Commission. Fuel element loading apparatus for neutronic reactors. 2,794,562, 6-4-57, Cl. 214-18.
- Anderson, George H.: *See*—
- Endres, Leo J., and Anderson. 2,797,960.
- Anderson, George R., to Hagan Chemicals & Controls, Inc. Control system for powdered coal-fired burners. 2,811,120, 10-29-57, Cl. 110-103.
- Anderson, George W. Awnings. 2,778,071, 1-22-57, Cl. 20-57.5.
- Anderson, George W., to American Cyanamid Co. 1,3,4-thiadiazolyl-N-acylsulfonamides. 2,797,225, 6-25-57, Cl. 260-306.8.
- Anderson, George W., and S. J. Slinger. Growth-promoting feed supplements and methods of producing them. 2,809,112, 10-8-57, Cl. 99-4.
- Anderson, Gordon C.: *See*—
- West, Paul B., and Anderson. 2,813,309.
- Anderson, Gordon C., and G. B. Ingraham, to Saco-Lowell Shops. Textile drafting mechanism. 2,801,448, 8-6-57, Cl. 19-135.
- Anderson, Harald, E. Asendorf, and H. Bernstorff, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Vapor phase process for production of acrylonitrile. 2,789,126, 4-16-57, Cl. 260-465.3.
- Anderson, Hugo F., to Hastings Mfg. Co. Piston ring assembly and elements thereof. 2,776,865, 1-8-57, Cl. 309-24.
- Anderson, Hugo F., to Hastings Mfg. Co. Piston ring assembly and elements thereof. 2,800,377, 7-23-57, Cl. 309-44.
- Anderson, Ike D., to Simonds Saw & Steel Co. Tensioned band saw blade. 2,787,299, 4-2-57, Cl. 143-138.
- Anderson, Irving F., and R. C. Datin, to Allied Chemical & Dye Corp. Production of substantially pure vinyl chloride. 2,816,143, 12-10-57, Cl. 260-656.
- Anderson, J. Edward C., to Borg-Warner Corp. Valved piston follow-up servomotor. 2,775,957, 1-1-57, Cl. 121-41.
- Anderson, Jacob B., to Enger-Kress Co. Billfolds. 2,777,494, 1-15-57, Cl. 150-38.
- Anderson, Jacob W. Single trigger mechanism for double-barrel guns. 2,814,143, 11-26-57, Cl. 42-42.
- Anderson, James H., to Borg-Warner Corp. Flexible coupling. 2,793,513, 5-28-57, Cl. 64-15.
- Anderson, James T., to General Electric Co. Electric discharge lamp with phosphor-coated rhodium reflector. 2,785,327, 3-12-57, Cl. 313-25.
- Anderson, Jo., and A. S. Robinson, to General Electric Co. Induction watt-hour meter for two and three wire service. 2,785,379, 3-12-57, Cl. 324-137.
- Anderson, John, to C. A. Toco. Storage battery. 2,783,294, 2-26-57, Cl. 136-166.
- Anderson, John A. Extensible hitches for trailers with automatic latching means for retracted position. 2,794,657, 6-4-57, Cl. 280-477.
- Anderson, John C. Dispenser. 2,792,969, 5-21-57, Cl. 222-82.
- Anderson, John F., and L. F. Fiedler, to The B. F. Goodrich Co. Container bonded with a polyester-urethane. 2,801,648, 8-6-57, Cl. 138-74.
- Anderson, John R.: *See*—
- Murray, James V., Jr., and Anderson. 2,779,722.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Delay lines. 2,776,411, 1-1-57, Cl. 333-29.
- Anderson, John W., to Productive Inventions, Inc. Wind-shield wiper. 2,782,447, 2-26-57, Cl. 15-245.
- Anderson, John W., to Productive Inventions, Inc. Wind-shield wiper blade assemblies. 2,782,448, 2-26-57, Cl. 15-245.
- Anderson, John W., to Productive Inventions, Inc. Wind-shield wiper blade and carriage assemblies. 2,782,449, 2-26-57, Cl. 15-245.
- Anderson, John W. Shakeproof screw fastening. 2,784,503, 3-12-57, Cl. 36-59.
- Anderson, John W., to Minneapolis-Honeywell Regulator Co. Automatic pilots. 2,816,722, 12-17-57, Cl. 244-77.
- Anderson, John W., Jr., to Phillips Petroleum Co. Temperature control of low temperature emulsion polymerization. 2,803,623, 8-20-57, Cl. 260-83.7.
- Anderson, Kinsey A., to the United States of America as represented by the Secretary of the Navy. Device for use in determining tension in flexible sheet material. 2,792,707, 5-21-57, Cl. 73-88.
- Anderson, Leigh C., and C. E. Smith, Jr., to Allied Chemical & Dye Corp. Promoted reduction of aromatic nitrogen compounds. 2,804,453, 8-27-57, Cl. 260-143.
- Anderson, Leroy E., and H. F. St. Marie, to Tri-State Heating, Inc. Heating conduit connection with spring latch and baffle. 2,799,518, 7-16-57, Cl. 285-119.
- Anderson, Leslie V.: *See*—
- Targosh, Ted, and Anderson. 2,800,313.
- Anderson, Lysle V., to E. W. Bliss Co. Strip splicer. 2,782,488, 2-26-57, Cl. 29-33.
- Anderson, Lysle V., to E. W. Bliss Co. Strip splicer. 2,814,343, 11-26-57, Cl. 164-49.
- Anderson, Melvin C., and S. F. Hanks. Anti-kicking device for cows. 2,796,849, 6-25-57, Cl. 119-126.
- Anderson, Melvin H. Manicuring instrument. 2,785,691, 3-19-57, Cl. 132-76.2.
- Anderson, Milo, to Catalina, Inc. Ladies' bathing suits. 2,794,986, 6-11-57, Cl. 2-67.
- Anderson, Nelson E.: *See*—
- Steele, Richard B., Purkhiser, and Anderson. 2,777,973.
- Anderson, Nelson E., to Air Reduction Co., Inc. Electric arc welding. 2,784,349, 3-5-57, Cl. 315-176.
- Anderson, Nelson E., to Air Reduction Co., Inc. Apparatus for electric arc welding. 2,808,499, 10-1-57, Cl. 219-135.
- Anderson, Nelson E., and L. M. Layden, to Air Reduction Co., Inc. Method of welding and apparatus therefor. 2,778,099, 1-22-57, Cl. 29-484.
- Anderson, Nelson E., W. J. Greene, and R. E. Purkhiser, to Air Reduction Co., Inc. Arc welding apparatus and method. 2,807,708, 9-24-57, Cl. 219-137.
- Anderson-Nichols & Co.: *See*—
- House, Frank R. 2,814,676.
- Anderson, Norman C., to Electronics Corp. of America. Photoconductive targets. 2,789,193, 4-16-57, Cl. 20-63.
- Anderson, Orval W. Composite disposable pad. 2,779,465, 1-29-57, Cl. 206-47.
- Anderson, Oscar: *See*—
- Andersen, Clifford, and Anderson. 2,800,049.
- Anderson, Paul Z.: *See*—
- Gardner, Robert I., Anderson, Beemer, and Fuchs. 2,799,900.
- Anderson, Peter B. Stone gathering machine. 2,781,623, 2-19-57, Cl. 55-17.
- Anderson, Peter B. Dump for stone gathering machine. 2,810,605, 10-22-57, Cl. 298-27.
- Anderson, Philip C., and F. N. Rawlings. Vitamin additives. 2,807,546, 9-24-57, Cl. 99-6.
- Anderson, Philip C., and J. L. C. Rapp, to Feed Service Corp. Process for feeding ruminants and improved feed supplement therefor. 2,808,332, 10-1-57, Cl. 99-2.
- Anderson Products, Inc.: *See*—
- Ferguson, Warren T. 2,776,671.
- Ferguson, Warren T. 2,777,459.
- Anderson, Ralph: *See*—
- Lucas, Harold T. 2,797,072.
- Anderson, Ralph F. Ice cream tart nozzle. 2,782,735, 2-26-57, Cl. 107-14.
- Anderson, Ralph F., to National Lock Co. High chair tray slide and swivel assembly. 2,799,324, 7-16-57, Cl. 155-127.
- Anderson, Ralph F. Cover applying apparatus. 2,805,532, 9-10-57, Cl. 53-314.
- Anderson, Ralph J., to American Sisakraft Corp. Snow fence. 2,795,399, 6-11-57, Cl. 256-12.5.
- Anderson, Ralph L., to Deere & Co. Adjustable finger assembly for concaves. 2,804,077, 8-27-57, Cl. 130-30.
- Anderson, Raymond L.: *See*—
- Anderson, Frank P., E. E., and R. L. 2,811,269.
- Anderson, Raymond T., to International Basic Economy Corp. Drainage device for solvent extraction apparatus. 2,782,928, 2-26-57, Cl. 210-55.
- Anderson, Reed M.: *See*—
- Beatty, John W., and Anderson. 2,783,337.
- Anderson, Richard H., to The Robinson Clay Product Co. Resilient toroidal push-type pipe joint. 2,816,782, 12-17-57, Cl. 285-345.
- Anderson, Robert: *See*—
- Seeloff, Melvin M., and Anderson. 2,794,111.
- Anderson, Robert, and P. R. Hunt, to Mall Tool Co. Fuel-pump carburetor. 2,801,621, 8-6-57, Cl. 123-73.
- Anderson, Robert C., and R. E. Harr, to Western Electric Co., Inc. Method of electrolytically recovering precious metals from other metal bases. 2,797,194, 6-25-57, Cl. 204-146.

- Anderson, Robert E. Butter dish with cutting edge. 2,797,565, 7-2-57, Cl. 65-60.
- Anderson, Robert E., and W. L. Medlin, to Texas Instruments Inc. Heat treatment of silicon transistor bars. 2,818,361, 12-31-57, Cl. 148-33.
- Anderson, Robert F. Venetian blind. 2,776,461, 1-8-57, Cl. 20-62.
- Anderson, Robert I.: See—
- Lappin, Richard J., Anderson, and Wurn. 2,815,541.
- Anderson, Robert J., and A. E. Lepley, to Thompson Products, Inc. Modulating and shut-off valve. 2,812,774, 11-12-57, Cl. 137-489.
- Anderson, Robert L.: See—
- McDonald, Harold, and Anderson. 2,807,590.
- Anderson, Robert L., to The Hertner Electric Co. Specially coupled motor-generator apparatus. 2,778,960, 1-22-57, Cl. 310-113.
- Anderson, Robert M., to General Electric Co. Coated flash lamp and manufacture thereof. 2,791,113, 5-7-57, Cl. 67-31.
- Anderson, Robert M., to General Electric Co. Flash lamp. 2,798,368, 7-9-57, Cl. 67-31.
- Anderson, Robert S. Fish lure. 2,797,518, 7-2-57, Cl. 43-42,06.
- Anderson, Roger. Femoral prosthesis. 2,785,673, 3-19-57, Cl. 128-92.
- Anderson, Roger N., and D. L. Johnston, to General Electric Co. Bushing for electrical apparatus. 2,802,176, 8-6-57, Cl. 324-54.
- Anderson, Ronald J.: See—
- Stern, Edward S., and Anderson. 2,795,581.
- Anderson, Roy E., J. L. Lamberson, Jr., B. N. Russell, and S. B. Smart, Jr., to Esso Research and Engineering Co. Dual string production device. 2,806,429, 9-17-57, Cl. 103-4.
- Anderson, Roy H., and A. B. Youngs, to Boeing Airplane Co. Aircraft landing gear shock strut. 2,814,482, 11-26-57, Cl. 267-64.
- Anderson, Russell J., to Belle City Malleable Iron Co. Shifting mechanism for moving jackets and weights to and from molds. 2,792,603, 5-21-57, Cl. 22-112.
- Anderson, Russell J., to Belle City Malleable Iron Co. Pallet-handling device for handling foundry molds. 2,798,267, 7-9-57, Cl. 22-20.
- Anderson, Russell W. Table saw miter gauge. 2,787,301, 4-2-57, Cl. 143-169.
- Anderson, S. G.: See—
- Southworth, Herbert L. 2,809,402.
- Anderson Silver Plating Co.: See—
- Miller, Louis R. 2,798,401.
- Anderson, Stephen P. Air cooler for automobile. 2,811,913, 11-5-57, Cl. 98-2.
- Anderson, Thomas A., to Deactivator, Inc. Deactivator for plunger type switches. 2,787,680, 4-2-57, Cl. 200-61,79.
- Anderson, Thomas W. Weather strip for hinged doors. 2,802,247, 8-13-57, Cl. 20-67.
- Anderson Tool & Mfg. Co.: See—
- Anderson, Clarence M. 2,801,468.
- Anderson, Tore N.: See—
- Ingalls, David, Hamilton, and Anderson. 2,800,705.
- Anderson, Tore N., R. M. Hautzik, and A. H. Reeves, to Airtone, Inc. Microwave mixer. 2,813,972, 11-19-57, Cl. 250-20.
- Anderson, Trevor J.: See—
- Parriss, Walter H., and Anderson. 2,805,350.
- Anderson, V. E., Mfg. Co.: See—
- Cline, Robert S. 2,815,833.
- Anderson, Verne N., and O. E. Nelson. Beheading device for poultry. 2,787,807, 4-9-57, Cl. 17-12.
- Anderson, Verne R. Air conditioning apparatus. 2,788,198, 4-9-57, Cl. 261-29.
- Anderson, Victor, to The Oilgear Co. Hydraulic drive for broaching machines. 2,807,142, 9-24-57, Cl. 60-97.
- Anderson, Victor E., to Prentice Machine Works, Inc. Rotary jointer head and cutter. 2,781,068, 2-12-57, Cl. 144-218.
- Anderson, Victor E. Box car unloading apparatus. 2,812,867, 11-12-57, Cl. 214-44.
- Anderson, Victor G., to Pictorial Productions, Inc. Evaluating device. 2,799,938, 7-23-57, Cl. 33-107.
- Anderson, Victor G., to Pictorial Productions, Inc. Process of assembling in the art of changeable picture display devices. 2,815,810, 12-3-57, Cl. 154-122.
- Anderson, Walter E. Connector for battery charging jumpers. 2,793,350, 5-21-57, Cl. 339-95.
- Anderson, Walter J., to Chicago Musical Instrument Co. Electrical musical instruments. 2,814,726, 11-26-57, Cl. 250-36.
- Anderson, Walter J., and H. E. Holman, to Chicago Musical Instrument Co. Electrical musical instrument. 2,811,887, 11-5-57, Cl. 84-101.
- Anderson, Walter T.: See—
- Gazelle, Roland J. 2,796,903.
- Anderson, Warren D., to Norma-Hoffmann Bearings Corp. Ball bearing separator and method of making the same. 2,783,104, 2-26-57, Cl. 308-201.
- Anderson, Warren D., to Norma-Hoffmann Bearings Corp. Sealed bearing structure. 2,807,509, 9-24-57, Cl. 308-187,1.
- Anderson, Warren J. Control unit. 2,783,976, 3-5-57, Cl. 257-3.
- Anderson, Wayne E. Dump brake locking device. 2,801,514, 8-6-57, Cl. 56-393.
- Anderson, Wilbur T. Automotive sanders. 2,784,018, 3-5-57, Cl. 291-44.
- Anderson, Wilfred W., to Boston & Lockport Block Co. Snap hook. 2,783,518, 3-5-57, Cl. 24-241.
- Anderson, William E., to Riegel Paper Corp. Non-water repellent high slip paper. 2,776,913, 1-8-57, Cl. 117-92.
- Anderson, William G., T. R. Willis, and W. T. Hedgecock, to Collins Radio Co. Automatic air speed control. 2,799,461, 7-16-57, Cl. 244-77.
- Anderson, William H.: See—
- Kirby, Robert E., Anderson, and Vore. 2,792,212.
- Anderson, William S., $\frac{1}{2}$ to J. E. Axeman. Movement responsive control apparatus, especially for temperature response. 2,815,415, 12-3-57, Cl. 200-137.
- Anderson, William T., to The DoAll Co. High speed tool steel saw band and method of making the same. 2,786,788, 3-26-57, Cl. 148-21,55.
- Anderson, William T., Jr., and R. W. Samer, to Hanovia Chemical and Mfg. Co. Electric discharge lamp. 2,797,363, 6-25-57, Cl. 315-49.
- Anderson, Wilmer C., and R. I. Strough, to the United States of America as represented by the Secretary of the Navy. Induced magnetization compensator. 2,776,403, 1-1-57, Cl. 324-43.
- Andersson, Bror, and N. Wallenborn, to Allmanna Svenska Elektriska Aktiebolaget. Apparatus for electric butt welding of studs and the like. 2,806,934, 9-17-57, Cl. 219-103.
- Andersson, Bror A. Folding luggage rack and trailer for motor cars. 2,809,046, 10-8-57, Cl. 280-34.
- Andersson, J. R., & Co., Aktiebolag: See—
- Thornstenson-Rydberg, Carl A. S. 2,803,529.
- Andersson, Oscar W. Clothes hanger. 2,813,634, 11-19-57, Cl. 211-94.
- Andes, Chester C. Motorized beds. 2,781,524, 2-19-57, Cl. 5-8.
- Andis Clipper Co.: See—
- Andis, Matthew G. 2,790,236.
- Andis, Matthew G. 2,795,848.
- Andis, Matthew G., to Andis Clipper Co. Blade driving assembly for hair clippers and shavers. 2,790,236, 4-30-57, Cl. 30-210.
- Andis, Matthew G., to Andis Clipper Co. Hair clipper blade adjustment. 2,795,848, 6-18-57, Cl. 30-201.
- Andler, Otto A. Tool. 2,816,352, 12-17-57, Cl. 29-105.
- Andonian, Jaul J.: See—
- Eljanian, George, and Andonian. 2,803,865.
- Andorfer, Hans, to Etablissement Alustra. Sound-damping climatizing systems. 2,805,842, 9-10-57, Cl. 257-124.
- Andrae, Ernst C.: See—
- Meyer, Sven F. E. 2,785,249.
- Andre, James R., and L. H. Going, to The Procter & Gamble Co. Liquid shortening. 2,815,286, 12-3-57, Cl. 99-118.
- Andre, Noble. Quick set up folding container. 2,787,408, 4-2-57, Cl. 229-16.
- Andre, Noble. Can carrier. 2,818,171, 12-31-57, Cl. 206-65.
- Andreadis, Harriet C. Hot oil treatment cap. 2,783,806, 3-5-57, Cl. 150-2,3.
- Andrae, Maynard R., to Syncro Corp. Apparatus for operating vibratory jig saw. 2,780,248, 2-5-57, Cl. 143-73.
- Andrae, Maynard R., T. F. Carmichael, and E. G. Sturgeon, to Syncro Corp. Table jig saw with tiltable blade. 2,780,249, 2-5-57, Cl. 143-78.
- Andreas, John M., and D. H. Kelly, to Technicolor Motion Picture Corp. Photographic contrast control system. 2,783,678, 3-5-57, Cl. 88-24.
- Andreas, John M., W. F. Schreiber, and G. T. Inouye, to Technicolor Motion Picture Corp. Magnetic tape-to-film photographic system. 2,816,157, 12-10-57, Cl. 178-5,2.
- Andreatta, Antonio. Well drilling rigs. 2,815,929, 12-10-57, Cl. 255-13.
- Andreef, Alexis D. Wood furniture units and process of making the same. 2,784,774, 3-12-57, Cl. 155-186.
- Andregg, Harriett, to Swift & Co. Process of making imitation nutmeats. 2,776,212, 1-1-57, Cl. 99-14.
- Andren, Karl H., and C. J. Roach, to Western Electric Co., Inc. Strand feeding mechanism. 2,786,569, 3-26-57, Cl. 203-156.
- Andres, Roy K., and J. S. Harris, to Radio Corp. of America. Switching circuit. 2,796,460, 6-18-57, Cl. 178-2.
- Andres, William A., to The Singer Mfg. Co. Belt-guards for sewing machines. 2,790,407, 4-30-57, Cl. 112-261.
- Andres, William A., C. W. Clemons, and C. E. Trettel, to General Mills, Inc. Beverage maker. 2,794,106, 5-28-57, Cl. 219-43.
- Andres, William A., and M. H. Graham, deceased (by Northwestern National Bank, administrator), to The M. H. Graham Corp. Electric heating element. 2,799,762, 7-16-57, Cl. 219-19.
- Andresen, Hans. Stamp producing device. 2,800,333, 7-23-57, Cl. 276-1.
- Andresen, Hilmar A.: See—
- Williamson, Donald G., Snover, and H. A. and R. H. Andresen. 2,787,242.
- Andresen, John H., Jr. Rowing device. 2,815,517, 12-10-57, Cl. 9-7.
- Andresen, Raymond H.: See—
- Williamson, Donald G., Snover, and H. A. and R. H. Andresen. 2,787,242.
- Andrew, Alford. Balanced coupling unit for high frequency transmission. Re. 24,340, 7-30-57, Cl. 343-851.

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- Andrew, Victor J. 2,808,585.
 Andrew, Eugene A., to Olin Mathieson Chemical Corp. Extrusion apparatus. 2,775,788, 1-1-57, Cl. 18-12.
 Andrew, John P.: *See—*
 Check, Mathias M., and Andrew. 2,815,975.
 Andrew, Vaughan L. Pump casing with intercommunicating gear enclosing chambers. 2,806,886, 9-17-57, Cl. 74-724.
 Andrew, Victor J., to Andrew Corp. Skew antenna system. 2,808,585, 10-1-57, Cl. 343-799.
 Andrews, A. M. Co.: *See—*
 Andrews, Alvadore M. 2,798,767.
 Andrews, Allen R., to Standard Screw Co. Textile spindle brake service. 2,799,132, 7-16-57, Cl. 57-88.
 Andrews, Allen R., and A. E. Winslow, to Standard Screw Co. Textile spindle. 2,781,628, 2-19-57, Cl. 57-135.
 Andrews, Alvadore M., to A. M. Andrews Co. Fertilizer dissolver. 2,798,767, 7-9-57, Cl. 299-84.
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 Soussloff, Dimitri G., and Andrews. 2,778,579.
 Andrews, Bernard D., to General Motors Corp. Gear assembly. 2,785,580, 3-19-57, Cl. 74-432.
 Andrews, Boley A., E. R. Sabin, and L. A. Shontz, Jr., to The Vendo Co. Selective vending machine. 2,783,917, 3-5-57, Cl. 221-152.
 Andrews, Charles E.: *See—*
 Bray, Donald L., and Andrews. 2,807,885.
 Andrews, Charles L., to General Electric Co. Microwave oscillator. 2,803,749, 8-20-57, Cl. 250-36.
 Andrews, Cora M. Flag mountings. 2,799,240, 7-16-57, Cl. 116-174.
 Andrews, Dallas R., to Radio Corp. of America. Magnetic tape. 2,782,043, 2-19-57, Cl. 274-414.
 Andrews, David H., P. R. Liegey, S. Nozick, and W. S. Treitel. Cathode ray tube mount. 2,780,803, 2-5-57, Cl. 340-367.
 Andrews, Edward F. Composite aircraft with fixed-wing and rotary-wing components. 2,797,881, 7-2-57, Cl. 244-2.
 Andrews, Edward F. Jet driven helicopter rotor system. 2,799,353, 7-16-57, Cl. 170-135.4.
 Andrews, Ernest G., O. Cesareo, and P. B. Murphy, to Bell Telephone Laboratories, Inc. Digital computer. 2,797,862, 7-2-57, Cl. 235-61.
 Andrews, Frederick T., Jr., to Bell Telephone Laboratories, Inc. Electrical circuits employing magnetic cores. 2,776,380, 1-1-57, Cl. 307-88.
 Andrews, George S. Automatic regulator for timepieces. 2,789,414, 4-23-57, Cl. 58-109.
 Andrews, John L., to General Electric Co. Drain control system. 2,775,975, 1-1-57, Cl. 134-182.
 Andrews, L. V., to Riley Stoker Corp. Feeding pulverized fuel for combustion. 2,780,186, 2-5-57, Cl. 110-106.
 Andrews, Laurence M., and J. Rabinow, to the United States of America as represented by the Secretary of the Army. Contact fuze. 2,779,287, 1-29-57, Cl. 102-81.2.
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 Andrews, Malcolm C. Finger dial for dial telephones. 2,777,228, 1-15-57, Cl. 40-10.5.
 Andrews, Norman F., to Deere Mfg. Co. Pneumatic conveying and separating means for cotton harvesters. 2,807,925, 10-1-57, Cl. 56-12.
 Andrews, Percy J. Internal combustion engine. 2,801,622, 8-6-57, Cl. 123-78.
 Andrews, Robert C., and N. G. Peterson, to The Glidden Co. Unsaturated alkyl resin compositions containing choline chloride. 2,777,829, 1-15-57, Cl. 260-45.4.
 Andrews, Robert H. Ventilated and light diffusive awning or screening structure. 2,788,550, 4-16-57, Cl. 20-57.5.
 Andrews, Robert S. L., to Industrial Development Bank. Shot compacting in the shell molding process. 2,778,077, 1-22-57, Cl. 22-90.
 Andrews, Rufus A., to Vickers, Inc. Power transmission. 2,803,790, 8-20-57, Cl. 317-191.
 Andruhovich, Ottillia K. Diaper-pants for the use of pad like diapers. 2,793,642, 5-28-57, Cl. 128-284.
 Andrus, Budd W., H. T. Ford, and S. Hansel. Log-barking machine having bark-abrading discs and bark-removing log-feeding rollers. 2,783,795, 3-5-57, Cl. 144-208.
 Andrus, Orrin E., to A. O. Smith Corp. Hot water heater. 2,785,274, 3-12-57, Cl. 219-40.
 Andrus, Orrin E., to A. O. Smith Corp. Water heater utilizing heat of crystallization. 2,791,204, 5-7-57, Cl. 122-33.
 Andrus, Orrin E., to A. O. Smith Corp. Thermopile-anode structure. 2,808,373, 10-1-57, Cl. 204-196.
 Andrus, Orrin E., to A. O. Smith Corp. Self-sealing anode structure. 2,816,069, 12-10-57, Cl. 204-196.
 Andrus, Paul G., E. P. Matthews, and E. C. Ricker, to The Haloid Co. Generator of aerosol of powder in gas. 2,815,330, 12-3-57, Cl. 252-359.
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 Friedman, Nathan H., and Andruschkevich. 2,815,511.
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 Andy, Louis J., to Andy Bros. Tire Shop. Anti-skid vehicle tire. 2,806,502, 9-17-57, Cl. 152-211.
 Anello, Anthony P. Pipe bending machine. 2,779,382, 1-29-57, Cl. 153-48.
 Anello, Anthony P. Adjustable stroke tube bending tool. 2,800,161, 7-23-57, Cl. 153-33.
 Anemostat Corp. of America.: *See—*
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 Kurth, Franz J., Honerkamp, Phillips, Waeldner, and Wood. 2,813,474.
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 Phillips, Leonard R., and Waeldner. 2,791,170.
 Phillips, Leonard R., Waeldner, Palmquist, Wallen, and Kurth. 2,814,446.
 Angel, Tryggve, and A. W. Bernstein, to Sandvikens Jernverks Aktiebolag. Method of making corrosion resistant spring steel and product thereof. 2,795,519, 6-11-57, Cl. 148-12.
 Angelery, Henry W. Statically and dynamically balanced pressure actuated valve. 2,805,039, 9-3-57, Cl. 251-38.
 Angelery, Henry W. Coil structure for heat exchanger. 2,805,048, 9-3-57, Cl. 257-229.
 Angelini, Roger M. Composite building block. 2,817,965, 12-31-57, Cl. 72-44.
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 Angell, Paul M., and A. B. Mojonni, to Newly Weds Baking Co. Confectionery cutter and packer. 2,815,625, 12-10-57, Cl. 53-186.
 Angell, Pierce T., to Thompson Products, Inc. Pumping assembly. 2,781,831, 2-19-57, Cl. 158-36.3.
 Angelo, Ernest S. Venetian blind. 2,795,271, 6-11-57, Cl. 160-172.
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 Anger, Ernest G., and C. C. Gould, to Square D Co. Motor control systems. 2,786,975, 3-26-57, Cl. 318-146.
 Anger, Hal O.: *See—*
 Tobias, Cornelius A., and Anger. 2,779,876.
 Anger, Hal O., to the United States of America as represented by the United States Atomic Energy Commission. In vivo radiation scanner. 2,776,377, 1-1-57, Cl. 250-71.
 Angevine, Gordon K., to The Atlantic Refining Co. Testing device for laminated or coated specimens. 2,787,157, 4-2-57, Cl. 73-12.
 Angier, Robert B., and J. W. Marsico, to American Cyanamid Co. Synthesis of 4,5-diamino-6-dimethylamine pyrimidine. 2,784,188, 3-5-57, Cl. 260-256.4.
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 Angiolini, Aristide, and R. Barbuti, to A. Picciati. Device for mechanically extracting fibers from the stems of textile plants. 2,817,119, 12-24-57, Cl. 19-24.
 Angiolino, Guy, and E. Gelbman. Multi-facet selector and stone holder. 2,796,708, 6-25-57, Cl. 51-229.
 Angle, Richard O., 25% to J. H. Ferguson. Magnetically supported guide bar for torches and the like. 2,813,710, 11-19-57, Cl. 266-23.
 Angle, Wallace G. Corner bead gauge and plumb. 2,788,653, 4-16-57, Cl. 72-128.
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 Anhorn, Victor J., M. M. Stewart, and W. E. Morrow, to Gulf Research Development Co. Fluid catalytic hydrosulfurization with carbonized catalyst. 2,776,247, 1-1-57, Cl. 196-50.
 Anhorn, Victor J., to Gulf Research & Development Co. Fluidized catalytic hydrosulfurization and hydrocracking. 2,791,546, 5-7-57, Cl. 196-53.
 Anjeskey, Alphonse F., to The Cleveland Crane & Engineering Co. Rail coupling. 2,796,839, 6-25-57, Cl. 104-89.
 Anjeskey, Alphonse F., to The Cleveland Crane & Engineering Co. Rail coupling. 2,796,840, 6-25-57, Cl. 104-89.
 Anjeskey, Alphonse F., and H. A. Cotesworth, to The Cleveland Crane & Engineering Co. Trolley conductor bar. 2,802,910, 8-13-57, Cl. 191-23.
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 Ankersen, Borge R. Furnaces and methods of heating. 2,816,849, 12-17-57, Cl. 148-13.1.
 Ankersheil, Otto B. Power picking and lifting apparatus with tilting. 2,788,199, 4-9-57, Cl. 262-8.
 Ankersheil, Otto B. Power-picking and lifting apparatus. 2,806,682, 9-17-57, Cl. 262-8.
 Anklesaria, Maneck K. Telephone handset support. 2,784,261, 3-5-57, Cl. 179-148.
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 Annable, Weldon G., L. E. Hutchings, and J. W. Walsh, to The Pure Oil Co. Stabilized petroleum naphthas. 2,787,531, 4-2-57, Cl. 44-78.
 Annable, Weldon G., and J. W. Walsh, to The Pure Oil Co. Process for preparing oxidized microcrystalline waxes. 2,794,040, 5-28-57, Cl. 260-452.
 Annel, Vincent J.: *See—*
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- Annen, James E., to Sutherland Paper Co. Machine for applying cutter strips to a dispensing carton for rolls of wrapping material such as paper. 2,815,061, 12-3-57, Cl. 153-1.
- Annen, Robert. Universal gyroscope. 2,809,527, 10-15-57, Cl. 74-5.7.
- Anner, Georg, and K. Miescher, to Ciba Pharmaceutical Products, Inc. New 1,2,3,4,5,6,7,8-octahydrophenanthrene-carboxylic acids and derivatives thereof and process of making same. 2,788,363, 4-9-57, Cl. 260-468.5.
- Anness, Charles F.: See—
- Noble, Aubrey E., Anness, Hyman, and Roetz. 2,780,096.
- Anness, Russell W., to The Gardner Board and Carton Co. Can packaging apparatus. 2,817,197, 12-24-57, Cl. 53-48.
- Anness, Russell W., to The Gardner Board and Carton Co. Blank feeding apparatus. 2,817,518, 12-24-57, Cl. 271-23.
- Annestrand, Erik A., to Aktiebolaget Separator. Anti-clogging method for circulation-heating of cooking liquid for digesters. 2,801,918, 8-6-57, Cl. 92-7.
- Annis, Andrew J. Power transmission. 2,795,971, 6-18-57, Cl. 74-75.2.
- Annis, Rupert E., Jr., and D. A. Philbrook, to Improved Machinery Inc. Self-centering log feed for bark-removing machines. 2,815,776, 12-10-57, Cl. 144-208.
- Ansbacher-Siegle Corp.: See—
- Holtzman, Harris, and Simon. 2,793,214.
- Anschütz, Charles. Hopper barge. 2,797,824, 7-2-57, Cl. 214-14.
- Ansel, Harry R. Window. 2,787,031, 4-2-57, Cl. 20-56.5.
- Ansel, Harry R. Ice cube tray. 2,804,755, 9-3-57, Cl. 62-108.5.
- Ansell, Julian, to S. H. Ansell & Sons. Fluid dispenser. 2,783,919, 3-5-57, Cl. 222-211.
- Ansell, S. H., & Sons: See—
- Ansell, Julian. 2,783,919.
- Anselman, George W., and G. A. Babcock, to Whirl-Air-Flow Corp. Air flow conveying system. 2,794,686, 6-4-57, Cl. 302-24.
- Ansite, William K.: See—
- Long, Thomas L., and Ansite. 2,797,759.
- Anson, Inc.: See—
- Anderson, Carl A. 2,785,722.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Extraction of soy protein. 2,785,155, 3-12-57, Cl. 260-123.5.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Protein food product and process. 2,802,737, 8-13-57, Cl. 99-14.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Protein food product and process for the preparation of the same. 2,802,738, 8-13-57, Cl. 99-14.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Protein food product. 2,813,024, 11-12-57, Cl. 99-14.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Method of making protein food products and the resulting product. 2,813,025, 11-12-57, Cl. 99-14.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Process for preparing a casein gel. 2,813,794, 11-19-57, Cl. 99-20.
- Ansonia Mills, Inc.: See—
- McMurray, Arthur W. 2,809,673.
- Anspach, Eugene J., and W. Kowalski, to McGraw-Edison Co. Coupling clamp. 2,806,724, 9-17-57, Cl. 287-118.
- Anspach, Russell D., to Acme Visible Records, Inc. Visible index devices. 2,787,068, 4-2-57, Cl. 40-64.
- Anspen, Harry D., to General Aniline & Film Corp. Production of polymeric α -chloroacrylate sheets. 2,817,878, 12-31-57, Cl. 18-58.
- Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa: See—
- Brandt, Edgar W. 2,778,310.
- Brandt, Edgar W. 2,788,599.
- Brandt, Edgar W. 2,793,590.
- Delalande, Paul J. M. R. 2,789,476.
- Anstalt Unda: See—
- Lundh, Karl-Gustav. 2,803,042.
- Ansul Chemical Co.: See—
- Downham, Roy E., and Allen. 2,778,435.
- Hastert, Harlan G., and Guise. 2,778,434.
- Warnock, William R. 2,816,864.
- Zellner, Robert J. 2,796,421.
- Antal, John A. Pull strip opener for containers. 2,803,367, 8-20-57, Cl. 215-46.
- Antalis, Stanley J., M. O. Marsh, and E. J. Zelt, to General Electric Co. Inductive device. 2,815,491, 12-3-57, Cl. 336-98.
- Antel, Damon C., H. E. Ricks, and A. P. Colaiaco, to Westinghouse Electric Corp. Joining metals having high temperature melting points. 2,795,040, 6-11-57, Cl. 29-494.
- Anthes, Clifford C., to Union Carbide and Carbon Corp. Halide detector. 2,779,666, 1-29-57, Cl. 23-254.
- Anthes, Clifford C., to Union Carbide Corp. Cutting blowpipe. 2,800,173, 7-23-57, Cl. 158-27.4.
- Anthes, Jacob, and A. J. Koutnik, to U-Test-M Mfg. Co., Inc. Electronic tube testers. 2,795,755, 6-11-57, Cl. 324-22.
- Anthony, Alastair, to the Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Aircraft. 2,787,218, 4-2-57, Cl. 102-49.
- Anthony, Alfred A. Toy hemisphere with music box therein. 2,780,029, 2-5-57, Cl. 46-111.
- Anthony, Alfred A. Xylophone with toy dancing figures. 2,788,608, 4-16-57, Cl. 46-118.
- Anthony, Alfred A. Xylophone enclosed in figure. 2,788,696, 4-16-57, Cl. 84-402.
- Anthony, Alfred A. Toy musical instrument with jumping objects on keys. 2,788,697, 4-16-57, Cl. 84-404.
- Anthony, Charles, Jr.: See—
- Sylvester, Walter G., and Anthony. 2,776,942.
- Anthony, Eugene. Synchronization system. 2,797,611, 7-2-57, Cl. 88-16.2.
- Anthony, Herman R. C., and A. T. Torgerson, to Ray-O-Vac Co. Dry cell. 2,802,042, 8-6-57, Cl. 136-133.
- Anthony, Kenneth H., to Industrial Rayon Corp. Staple cutter. 2,776,005, 1-1-57, Cl. 164-61.
- Anthony, Leonard R.: See—
- Turner, John H. W., Anthony, and Bramwyche. 2,809,178.
- Turner, John H. W., Anthony, and Bramwyche. 2,809,181.
- Anthony, Paul Z., D. R. Borgen, and L. G. Ginger, to Baxter Laboratories, Inc. Preparation of thyroxine products. 2,803,654, 8-20-57, Cl. 260-519.
- Anthony, William C., to The Upjohn Co. Novel benzyl and benzal bromides. 2,813,128, 11-12-57, Cl. 260-612.
- Anti-Corrosive Metal Products Co., Inc.: See—
- Whiteman, Donald J., and Koryn. 2,783,484.
- Antle, Herbert R., to Phillips Petroleum Co. Production of crystalline ammonium nitrate. 2,782,108, 2-19-57, Cl. 23-302.
- Ante, Herbert R., to Phillips Petroleum Co. Process for drying ammonium nitrate prills. 2,798,301, 7-9-57, Cl. 34-12.
- Anton Electronic Laboratories, Inc.: See—
- Braun, Ludwig, Jr. 2,812,476.
- Anton, Hulscher, Jr.: See—
- Fortenbacher, James D., and Anton. 2,801,958.
- Anton, Joe. Device for truing grinding wheels. 2,806,462, 9-17-57, Cl. 125-11.
- Anton, Joe. Magnetic fixture for holding tool bits and the like. 2,807,759, 9-24-57, Cl. 317-162.
- Anton, Nicholas. Radiation detector tube. 2,776,390, 1-1-57, Cl. 313-93.
- Anton, Nicholas. Power supply circuits for radiation detectors or the like. 2,790,947, 4-30-57, Cl. 321-2.
- Antonazzi, Frank J.: See—
- Kunnes, Herbert W., and Antonazzi. 2,796,535.
- Antonsen, Randolph, to Godfrey L. Cabot Inc. Electrolytic after treatment of carbon black. 2,807,577, 9-24-57, Cl. 204-130.
- Antonucci, James A. Combination switch and outlet box. 2,782,954, 2-26-57, Cl. 220-3.92.
- Antos, Joseph, and E. C. Brown, to Baldwin-Lima-Hamilton Corp. Full circle boom crane. 2,787,383, 4-2-57, Cl. 212-35.
- Antozak, Frank S. Sweeping brush with frictionally adjustable handle. 2,804,637, 9-3-57, Cl. 15-144.
- Antrim, William D., to Carrier Corp. Gas burner control means. 2,812,807, 11-12-57, Cl. 158-133.
- Antrim, William D., Jr., to Bendix Aviation Corp. Accumulator. 2,800,924, 7-30-57, Cl. 138-31.
- Antrim, William D., Jr., to Bendix Aviation Corp. Modulating high pressure air valve. 2,817,362, 12-24-57, Cl. 138-46.
- Anzaldi, Salvatore, to Raytheon Mfg. Co. Electropolishing magnetic articles. 2,803,595, 8-20-57, Cl. 204-140.5.
- Anzillotti, Willard F., and V. Weinmayr, to E. I. du Pont de Nemours & Co. Process for the manufacture of dicyclopentadienyliron. 2,791,597, 5-7-57, Cl. 260-439.
- Apex Electrical Mfg. Co., The: See—
- Kirby, James B. 2,797,569.
- Kirby, James B. 2,802,356.
- Steidley, Virgil K. 2,781,765.
- Apex Machine and Tool Co., The: See—
- Williams, De Alt E., Jr. 2,782,823.
- Apgar, Donald H., to International Business Machines Corp. Type group and type selecting means for wheel printers. 2,781,722, 2-19-57, Cl. 101-93.
- Apgar, Frank A., to Sinclair Refining Co. Process for removing silica from hydrocarbons by treating with caustic soda. 2,778,778, 1-22-57, Cl. 196-41.
- Apker, Le Roy: See—
- Taft, Ernest A., and Apker. 2,813,991.
- Apothélos, Robert, and W. Niederer, to Machine Tool Works Oerlikon, Administration Co. Rocket projectile with stabilizer fins. 2,784,669, 3-12-57, Cl. 102-50.
- Apothélos, Robert, to Machine Tool Works Oerlikon, Administration Co. Fuze for rocket projectiles. 2,789,507, 4-23-57, Cl. 102-80.
- Appel, Andrew L. Metering and dispensing device. 2,778,527, 1-22-57, Cl. 222-42.
- Appel, Andrew L. Metering and dispensing device. 2,778,529, 1-22-57, Cl. 222-50.
- Appel, Andrew L. Metering and dispensing device. 2,778,538, 1-22-57, Cl. 222-243.
- Appel, Andrew L. Needle threading device. 2,800,262, 7-23-57, Cl. 223-99.
- Appel, Frederick T.: See—
- Kahl, Melvin R., and Appel. 2,804,768.
- Appel, Gilbert H. Apparatus for manufacturing particulate filters. 2,790,636, 4-30-57, Cl. 270-39.
- Appell, Herbert R., to Universal Oil Products Co. Treatment of petroleum fractions. 2,781,297, 2-12-57, Cl. 196-44.

- Appell, Herbert R., to Universal Oil Products Co. Recovery of platinum from alumina base platinum catalyst. 2,786,752, 3-26-57, Cl. 75—121.
- Appell, Herbert R., to Universal Oil Products Co. Recovery of platinum. 2,787,540, 4-2-57, Cl. 75—108.
- Appell, Herbert R., to University Oil Products Co. Process for manufacturing aluminum compounds. 2,791,486, 5-7-57, Cl. 23—50.
- Appell, Herbert R., to Universal Oil Products Co. Preparation of aluminum halide from other aluminum salts. 2,803,520, 8-20-57, Cl. 23—92.
- Appell, Herbert R., to Universal Oil Products Co. Process for producing an alkylation catalyst. 2,818,392, 12-31-57, Cl. 252—435.
- Appenzeller, Robert C., to General Motors Corp. Stator lamination welded assembly. 2,783,404, 2-26-57, Cl. 310—217.
- Appelbaum, Samuel B., to Cochrane Corp. Method and apparatus for water treatment. 2,807,582, 9-24-57, Cl. 210—26.
- Appelberg, Yngve L. Electric typewriting machine. 2,817,428, 12-24-57, Cl. 197—12.
- Appley, A. D.: *See*—
Green, William G. 2,814,465.
- Appley, Ernest M. H., to Appley & Ireland Ltd. Altimeters. 2,782,639, 2-26-57, Cl. 73—386.
- Appley & Ireland Ltd.: *See*—
Appley, Ernest M. H. 2,782,639.
- Appley, Philip P., to Aluminum Co. of America. Spray apparatus. 2,811,059, 10-29-57, Cl. 80—41.
- Applegate, Charles J. Gaseous discharge device. 2,790,110, 4-23-57, Cl. 315—84.6.
- Applegate, Charles O., deceased; V. C. Applegate, executrix of said C. O. Applegate. Typewriter desk. 2,198,782, 7-9-57, Cl. 312—26.
- Applegate, Dorothy C.: *See*—
Applegate, Walter M. 2,786,641.
- Applegate, Lindsay M. Muffler tubes. 2,805,730, 9-10-57, Cl. 181—42.
- Applegate, Vernon C., W. L. Stahl, and B. R. Smith, to United States of America. Method and apparatus for controlling aquatic animals. 2,778,140, 1-22-57, Cl. 43—17.1.
- Applegate, Virginia C.: *See*—
Applegate, Charles O. 2,798,782.
- Applegate, Walter M., deceased; D. C. Applegate, executrix. Bole-supporting device. 2,786,641, 3-26-57, Cl. 248—46.
- Appleman, Henry. Fish fly accessory. 2,813,364, 11-19-57, Cl. 43—19.2.
- Appler, Orville L.: *See*—
Turner, Charles T., and Appler. 2,782,653.
- Appleton, Arthur I. Well drilling bit. 2,782,005, 2-19-57, Cl. 255—340.
- Appleton, Arthur I. Separable conduit fitting. 2,782,060, 2-19-57, Cl. 285—248.
- Appleton, Arthur I. Explosion-proof lighting unit. 2,786,936, 3-26-57, Cl. 240—11.2.
- Appleton, Arthur I. Explosion-proof switch assembly. 2,794,891, 6-4-57, Cl. 200—172.
- Appleton, Arthur I. Closure member. 2,800,247, 7-23-57, Cl. 220—55.
- Appleton, Arthur I. Automobile seat and control therefor. 2,805,702, 9-10-57, Cl. 155—15.
- Appleton, Arthur I. Disposable tissue receptacle. 2,806,591, 9-17-57, Cl. 206—58.
- Appleton, Arthur I. Mounting clamp for switch boxes and the like. 2,812,149, 11-5-57, Cl. 248—27.
- Appleton Electric Co.: *See*—
Tornblom, Nils A. 2,808,631.
- Appleton, William H., and G. M. Farly, to the United States of America as represented by the United States Atomic Energy Commission. Automatic control system with remote adjustment. 2,782,993, 2-26-57, Cl. 236—51.
- Appleton, William C., and W. H. Michael, to Delaware Mills, Inc. Textile articles and processes for making same. 2,810,281, 10-22-57, Cl. 66—202.
- Appliance Mfg. Co. Inc.: *See*—
Crimmins, William C. 2,777,908.
- Applied Engineering of Wisconsin: *See*—
Altman, Louis V., and Jung. 2,802,606.
- Applied Mechanics Corp.: *See*—
Bukrey, Joseph K., and Marszal. 2,815,076.
- Applied Science Corp. of Princeton: *See*—
Donath, Erwin. 2,806,205.
- Appoldt, Edward: *See*—
Koch, Samuel J., Appoldt, and Feldman. 2,811,603.
- Apponaug Co., The: *See*—
Brown, Frederick G. 2,817,468.
Wood, George H., Jr. 2,802,752.
- Apra Precipitator Corp.: *See*—
Jensen, Arthur, Vickland, and Winklepleck. 2,797,429.
Klemperer, Hans. 2,790,128.
Klemperer, Hans. 2,817,412.
- Apra, Annette. Fire extinguisher units and holders therefor. 2,805,724, 9-10-57, Cl. 169—30.
- Apuli, Wayne E., to The Regents of the University of Minnesota. Pelletizing process. 2,805,141, 9-3-57, Cl. 75—3.
- Aquafilter Corp.: *See*—
Gerard, Merwin, Lester, and Nemeth. 2,796,869.
- Aquamatic Inc.: *See*—
Whitlock, Robert A., Jr. 2,796,886.
Whitlock, Robert A., Jr. 2,803,347.
- Aquillon, Charles A., to Ark-Les Switch Corp. Slide switch. 2,811,593, 10-29-57, Cl. 200—5.
- Aranda, Marcelo A. Tobacco leaf holding device. 2,809,068, 10-8-57, Cl. 294—5.5.
- Arant, Perry, to Clayton Mfg. Co. Steam cleaning machine. 2,790,678, 4-30-57, Cl. 299—84.
- Arant, Perry, to Clayton Mfg. Co. Feed water control means for steam generating systems. 2,800,117, 7-23-57, Cl. 122—451.2.
- Arant, Perry, to Clayton Mfg. Co. Steam accumulator and nozzle therefor. 2,800,196, 7-23-57, Cl. 183—95.
- Arata, Vincenzo S., to J. E. Brassert. Method for the production of pure iron, and iron carbon alloys including carbon and alloy steel. 2,805,142, 9-3-57, Cl. 75—11.
- Arato, Achille. Variable speed transmission. 2,814,205, 11-26-57, Cl. 74—199.
- Arbeit, Pierre, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Apparatus for melting glass. 2,780,891, 2-12-57, Cl. 49—54.
- Arbeiter, Henry J., and E. Winston, to Jerrold Electronics Corp. Male connector. 2,777,894, 1-15-57, Cl. 174—75.
- Arbeiter, Henry J., to Jerrold Electronics Corp. Coaxial cable connector. 2,786,095, 3-19-57, Cl. 174—88.
- Arbetter, Abel A., to G. Miller. Disposable sink mat and garbage wrapper. 2,806,227, 9-17-57, Cl. 4—187.
- Arbon, Robert S., D. W. Elson, and G. J. Hunt, to The General Electric Co. Ltd. Pulse signalling systems. 2,786,892, 3-26-57, Cl. 179—15.
- Arcand, Anna. Colostomy washing device. 2,782,785, 2-26-57, Cl. 128—283.
- Archambault, Claude. Spectacles with variable light transmission. 2,813,459, 11-19-57, Cl. 88—41.
- Archdeacon, Gerald D.: *See*—
Koons, Clarence J., and Archdeacon. 2,801,127.
- Archer-Daniels-Midland Co.: *See*—
Cox, Robert P., and Brice. 2,812,343.
Wahlroos, Arvi W. 2,813,878.
- Archer, George W.: *See*—
Archer, Monte B., and G. W. 2,813,736.
- Archer, Henry R.: *See*—
Howlett, John, and Archer. 2,800,434.
- Archer, Hugh M.: *See*—
Dickey, Robert C., Hauck, and Archer. 2,784,695.
- Archer, James E., to Pittsburgh Plate Glass Co. Apparatus for measuring the thickness of electroconductive films. 2,809,346, 10-8-57, Cl. 324—40.
- Archer, John L. Illuminated electric clock. 2,812,421, 11-5-57, Cl. 240—2.1.
- Archer, Lee A., to The Pyle-National Co. Electrical connection means and methods. 2,779,930, 1-29-57, Cl. 339—270.
- Archer Mills, Inc.: *See*—
Silver, Frederick W. 2,810,949.
- Archer, Monte B., and G. W. Remote controlled knot tying device. 2,813,736, 11-19-57, Cl. 289—17.
- Archer, Sydney, to Sterling Drug Inc. 4-ethanesulfonyl-4-aryl-1-methylpiperidines and their preparation. 2,777,850, 1-15-57, Cl. 260—293.4.
- Archer, Sydney, to Sterling Drug Inc. 3-(monocarbocyclic aryl-lower-alkyl)-1,5-imino-cycloalkanes and preparation thereof. 2,798,874, 7-9-57, Cl. 260—292.
- Archer, Wesley L.: *See*—
Cavallito, Chester J., Gray, and Archer. 2,804,460.
- Archibald, Raymond C.: *See*—
Kubicek, Naci F., and Archibald. 2,792,336.
- Arck, William M. Adjustable glass-cutting tool head. 2,812,579, 11-12-57, Cl. 33—32.
- Arcus, James S., Sr., to The Arcus Ticket Co. Ticket manipulating machine. 2,799,337, 7-16-57, Cl. 164—50.
- Arcus Ticket Co., The: *See*—
Arcus, James S., Sr. 2,799,337.
- Ardag, Applied Research and Development: *See*—
Walti, Hans. 2,785,608.
- Arden, Manuel E. Socketed furniture leg receiving member. 2,799,548, 7-16-57, Cl. 311—99.
- Arden, Thomas T., and W. F. Jackson, to Robertshaw-Fulton Controls Co. Water heater controls and safety device therefor. 2,806,652, 9-17-57, Cl. 236—21.
- Ardern, David B., to Houdry Process Corp. Lift disengager. 2,809,871, 10-15-57, Cl. 302—59.
- Ardern, David B., and J. W. Schall, to Houdry Process Corp. Solids withdrawal system. 2,783,898, 3-5-57, Cl. 214—17.
- Ardia, Vincent H., to Bendix Aviation Corp. Rotor centering device for a generator. 2,794,133, 5-28-57, Cl. 310—15.
- Arditi, Maurice, G. A. Deschamps, and J. Elefant, to International Telephone and Telegraph Corp. Microwave transmission systems and impedance matching devices therefor. 2,794,174, 5-28-57, Cl. 333—33.
- Arelt, Eugene G., to Onondaga Pottery Co. Screen printing apparatus. 2,793,586, 5-28-57, Cl. 101—123.
- Arena, Joseph P. Measuring and dispensing device for liquor. 2,777,614, 1-15-57, Cl. 222—442.
- Arenberg, David L., and R. M. Ashby. Ultrasonic delay lines. 2,777,997, 1-15-57, Cl. 333—30.
- Arenberg, David L., and A. G. Emslie, to the United States of America as represented by the Secretary of the Navy. Tuning assembly for a radar system. 2,788,520, 4-9-57, Cl. 343—17.7.

- Areco Aktiebolag: *See*—
Dahlström, Ernst R., and Rothelius. 2,783,888.
Krantz, Karl G. E., Bergman, Elvingson, and Karlsson. 2,815,860.
- Areco Ltd.: *See*—
Nixon, John D. 2,793,856.
- Arend, Christopher H., to International Harvester Co. Ball and socket hitch. 2,783,060, 2-26-57, Cl. 280-509.
- Arend, Christopher H., to International Harvester Co. Side delivery rake. 2,795,101, 6-11-57, Cl. 56-377.
- Arendale, William F., and C. F. Coleman, to the United States of America as represented by the United States Atomic Energy Commission. Uranium-vanadium recovery and separation by phosphate precipitation. 2,797,143, 6-25-57, Cl. 23-14.5.
- Arends, Jacobus L., to North American Philips Co., Inc. Automatic frequency stabilizing circuit. 2,794,910, 6-4-57, Cl. 250-20.
- Arens, Josef F., to N. V. Organon. Process for the synthesis of peptides. 2,793,204, 5-21-57, Cl. 260-112.
- Arens, Josef F., to Organon, Inc. Process of preparation of heterocyclic compounds employing acetylene ethers. 2,813,862, 11-19-57, Cl. 260-243.
- Arens, Walter: *See*—
Holzwarth, Herbert, and Arens. 2,811,693.
- Arenson, Herbert, to Childre Co. Dart and target board therefor. 2,818,259, 12-31-57, Cl. 273-102.
- Arenstein, Effrem. Swivel action toy figure. 2,808,681, 10-8-57, Cl. 46-22.
- Arenz, Matthias, to Schloemann Aktiengesellschaft, Mandrel for extrusion press. 2,809,750, 10-15-57, Cl. 207-16.
- Arey, William E., Jr.: *See*—
Gladrow, Elroy M., and Arey. 2,798,050.
- Arf, Myron C. Rotary polishing device having means to illuminate the work. 2,778,043, 1-22-57, Cl. 15-28.
- Argenta Products Co.: *See*—
Livingston, Gideon E. 2,807,858.
- Argento, Henry F., to Raytheon Mfg. Co. Impedance matching pad for microwave heating and method of use. 2,814,298, 11-26-57, Cl. 128-404.
- Argiro, Nicholas, to Schick Inc. Shaving device and rotatable guard means therefor. 2,787,830, 4-9-57, Cl. 30-43.
- Argo, Lynn: *See*—
Casady, Cecil A., and Wood. 2,803,133.
- Argo, Riley D. Duck decoy. 2,793,456, 5-28-57, Cl. 43-3.
- Argus Chemical Corp.: *See*—
Hecker, Arthur C. 2,789,963.
Pollock, Mark W. 2,789,957.
Scheer, Walter E., and Levy. 2,798,875.
- Aries Associates, Inc.: *See*—
Farkas, Adalbert, D'Alessandro, and Rosenthal. 2,784,212.
Farkas, Adalbert, D'Alessandro, and Rosenthal. 2,784,213.
- Aries, Robert S.: *See*—
Isbenjian, Hrant. 2,818,378.
Mayurrik, George. 2,815,373.
- Aries, Robert S. Preparation of ortho-phthalonitrile. 2,816,908, 12-17-57, Cl. 260-465.
- Arimoto, Fred S., to E. I. du Pont de Nemours and Co. Preparation of dicyclopentadienyliron compounds. 2,804,468, 8-27-57, Cl. 260-439.
- Arioli, Fortunata. Sponge-covered strand wash cloth with soap pocket. 2,817,865, 12-31-57, Cl. 15-122.
- Arisman, Mervin B.: *See*—
Daily, Arthur M., Arisman, and Cocanover. 2,791,666.
- Arisman, Mervin B., W. H. Budd, and A. M. Daily, to Chicago Telephone Supply Corp. High voltage controls. 2,789,191, 4-16-57, Cl. 201-55.
- Aristocrat Leather Products, Inc.: *See*—
Stember, Bernard. 2,802,501.
- Arkaw, Seymour M., to Simmonds Aerocessories, Inc. Apparatus for measuring and/or controlling fuel/air ratio of gas turbines without direct gravimetric fuel metering. 2,809,492, 10-15-57, Cl. 60-39.28.
- Arkell Safety Bag Co.: *See*—
Doyle, James F. 2,803,173.
Doyle, James F. 2,816,700.
Doyle, James F., and Onasch. 2,790,592.
Doyle, James, and Roland. 2,792,326.
- Arketex Ceramic Corp.: *See*—
Shoemaker, George W. 2,778,489.
- Arkla Air Conditioning Corp.: *See*—
Berry, Norton E. 2,814,468.
Berry, Norton E. 2,818,234.
- Ark-Les Switch Corp.: *See*—
Aquilone, Charles A. 2,811,593.
- Arletter, Hanns F., to Hurlbut Paper Co. Decorative laminate containing a transparent printed overlay sheet. 2,816,851, 12-17-57, Cl. 154-47.
- Arletter, Hans: *See*—
Porak, Waldemar and H. 2,812,526.
- Arleque, Warren S. Oil cooling device for automobile and other internal combustion engines. 2,798,695, 7-9-57, Cl. 257-263.
- Arlington Park Jockey Club, Inc.: *See*—
Brinkman, Clarence J. 2,803,497.
- Arlington, Rex. Stringed instrument auxiliary bass-bar and sound plate. 2,800,051, 7-23-57, Cl. 84-276.
- Arlitt, William H., Jr. Reinforcing means for articles of luggage. 2,788,871, 4-16-57, Cl. 190-49.
- Arlt, Herbert G., Jr.: *See*—
Webb, John S., and Arlt. 2,780,624.
- Armcast, Wilbur H., to Combustion Engineering, Inc. Controlled circulation boiler with orifice drum. 2,781,028, 2-12-57, Cl. 122-406.
- Armcast, Wilbur H., and L. J. Marshall, to Combustion Engineering, Inc. Art of generating and heating steam. 2,781,746, 2-19-57, Cl. 122-479.
- Armcast, Wilbur H., and A. C. Firl, to Combustion Engineering, Inc. Method and apparatus for steam temperature control. 2,812,747, 11-12-57, Cl. 122-478.
- Armant, David L., and H. S. Sigurdson, to National Lead Co. Method for producing titanium concentrates. 2,804,384, 8-27-57, Cl. 75-1.
- Armant, David L., and H. S. Sigurdson, to National Lead Co. Method of producing titanium concentrates. 2,815,272, 12-3-57, Cl. 75-1.
- Armbrecht, Howard R., to Crawford Mfg. Co., Inc. Adjustable T cushion cover. 2,782,840, 2-26-57, Cl. 155-182.
- Armbrecht, Howard R., to Crawford Mfg. Co., Inc. Slip cover. 2,800,169, 7-23-57, Cl. 155-182.
- Armbruster, John W. Continuous forming of containers of gelatinous food. 2,810,652, 10-22-57, Cl. 99-171.
- Armco Steel Corp.: *See*—
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- Armentrout, Everett C., to General Motors Corp. Evaporator unit. 2,806,360, 9-17-57, Cl. 62-126.
- Armer, Cyril: *See*—
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- Armiger, Janet: *See*—
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- Armington, Arthur P., to General Motors Corp. Steerable driving axle. 2,801,702, 8-6-57, Cl. 180-43.
- Armington, Arthur P., and G. E., to General Motors Corp. Independently controlled hydraulic power steering means for the front and rear wheels of a vehicle. 2,783,849, 3-5-57, Cl. 180-79.2.
- Armington, George E.: *See*—
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- Armington, Raymond Q., J. P. Carroll, J. Mazzarins, and R. C. Williams, to General Motors Corp. Track suspension. 2,786,724, 3-26-57, Cl. 305-9.
- Armington, Stewart F., to General Motors Corp. Dolly for digging and carrying scraper. 2,789,377, 4-23-57, Cl. 37-126.
- Armistead, William H., to Corning Glass Works. Glass. 2,799,590, 7-16-57, Cl. 106-53.
- Armitage, Harry. Work forming apparatus. 2,786,312, 3-26-57, Cl. 51-101.
- Armitage, Joseph B., H. L. Heywood, and J. L. Martin, to Kearney & Trecker Corp. Milling machine. 2,816,487, 12-17-57, Cl. 90-15.
- Armour and Co.: *See*—
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- Armour Research Foundation of Illinois Institute of Technology. *See*—
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- Arms, Merton H., and P. C. Durland, to Bryant Chucking Grinder Co. Internal grinding machine. 2,793,479, 5-28-57, Cl. 51-236.
- Armstrong, A. G.: *See*—
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- Armstrong, Adam E., to Armstrong Machine Works. Drainage device or apparatus for steam-heated drying cylinders. 2,791,038, 5-7-57, Cl. 34-125.
- Armstrong, Adna A.: *See*—
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- Armstrong, Albert C.: *See*—
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- Armstrong, Albert C., and J. W. Kee, to Vitro Corp. of America. Reactance tube circuitry. 2,790,147, 4-23-57, Cl. 332-28.
- Armstrong, Charles. Adjustable handle grip. 2,807,029, 9-24-57, Cl. 4-185.
- Armstrong Coalbreak Co.: *See*—
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- Armstrong, Daniel A., to Kiekhaefer Corp. Outboard motor with spring-release clutch control. 2,780,331, 2-5-57, Cl. 192-07.
- Armstrong, Daniel A., to Kiekhaefer Corp. Engine tachometer. 2,798,472, 7-9-57, Cl. 123-198.
- Armstrong, David G., to United States of America as represented by the Secretary of the Navy. Terminal support for bayonet type coaxial connector. 2,781,500, 2-12-57, Cl. 339-177.
- Armstrong, Don L.: *See*—
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- Armstrong, Edward T., to Toscony Fabrics, Inc. Apparatus for drying. 2,783,546, 3-5-57, Cl. 34-51.
- Armstrong, Edward T. Laminating apparatus. 2,793,677, 5-28-57, Cl. 154-37.
- Armstrong, Edward T., to Toscony Fabrics, Inc. Apparatus for embossing thermoplastic film. 2,809,392, 10-15-57, Cl. 18-10.
- Armstrong, George W., to O. B. Armstrong and Son Co. Valve and bag loader. 2,806,489, 9-17-57, Cl. 141-317.
- Armstrong, Godfrey P.: *See*—
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- Armstrong, Howard H., to The B. F. Goodrich Co. End stop and seal for slide fastener structure. 2,800,699, 7-30-57, Cl. 24-205.1.
- Armstrong, James F., to ACF Industries, Inc. Injection carburetion. 2,785,669, 3-19-57, Cl. 123-119.
- Armstrong, James F., to ACF Industries, Inc. Fuel feed for multi-stage carburetors. 2,790,630, 4-30-57, Cl. 261-23.
- Armstrong, James K., M. E. Erickson, and N. H. Willis, to Waukesha Motor Co. Engine-generator unit. 2,799,782, 7-16-57, Cl. 290-1.
- Armstrong, John A., to General Electric Co. Method of making contacts to semiconductor bodies. 2,806,807, 9-17-57, Cl. 148-15.
- Armstrong, John A., P. Cooperman, and H. J. White, to Research Corp. Electrostatic precipitator. 2,815,824, 12-10-57, Cl. 183-7.
- Armstrong, John D., C. G. Wallman, and W. W. Wittenberger, to The Petersen Oven Co. Automatic feeding arrangement from bread cooler to bread slicers and wrappers. 2,804,192, 8-27-57, Cl. 198-94.
- Armstrong, John E., to Jacuzzi Bros., Inc. Portable pumping system. 2,798,435, 7-9-57, Cl. 103-5.
- Armstrong, John H., and J. L. Jones. Rotary accelerator. 2,799,163, 7-16-57, Cl. 73-167.
- Armstrong, John P., and J. D. Hoffpauir. Internal combustion engine overload and underload alarm. 2,790,163, 4-23-57, Cl. 340-270.
- Armstrong, Law L., and H. D. Carson, to Westinghouse Electric Corp. Filament clamping device for an automatic mounting machine. 2,783,783, 3-5-57, Cl. 140-71.6.
- Armstrong, Law L., G. Meister, and S. A. Lopenski, to Westinghouse Electric Corp. Prescaling flush machine for incandescent bulbs. 2,816,579, 12-17-57, Cl. 141-92.
- Armstrong, Leland R., E. C. Henry, J. M. Lambie, and R. A. Youngs, to Findlay Clay Products Co. Method of drying slip cast materials and the like. 2,789,338, 4-23-57, Cl. 25-156.
- Armstrong, Loren K., to General Dynamics Corp. Trunk circuit. 2,788,393, 4-9-57, Cl. 179-18.
- Armstrong, Lorne D., to Radio Corp. of America. Semiconductors and methods of making same. 2,781,481, 2-12-57, Cl. 317-239.
- Armstrong, Lorne D., to Radio Corp. of America. Semiconductor devices. 2,811,474, 10-29-57, Cl. 148-33.
- Armstrong Machine Works: *See*—
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- Armstrong, O. B., and Son Co.: *See*—
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- Armstrong Products Corp.: *See*—
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- Armstrong, Ralph S., to The Sherwin-Williams Co. Emulsion paint. 2,778,740, 1-22-57, Cl. 106-170.
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- Armstrong, Raymond L. Bed side guard. 2,786,214, 3-26-57, Cl. 5-331.
- Armstrong, Raymond L., and Gerald H. and George H. Morenus. Perineal heating lamp. 2,778,923, 1-22-57, Cl. 219-45.
- Armstrong, Robert W., to Minneapolis-Honeywell Regulator Co. Precision resistance devices. 2,790,052, 4-23-57, Cl. 201-62.
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- Armstrong, Stephen F.: *See*—
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- Armstrong, Werner E., to Fairbanks, Morse & Co. Pull starter guide means. 2,789,551, 4-23-57, Cl. 123-185.
- Armstrong, William T. Automatic mailbox signal. 2,808,982, 10-8-57, Cl. 232-35.
- Army, United States of America as represented by the Secretary of the: *See*—
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- Armzen Co. : *See*—
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 Arndt, Larry J., and L. A. Balcer. Horse and carriage simulating riding toy. 2,794,649, 6-4-57, Cl. 280-1,165.

- Arndt, Otto E. Film cleaning device. 2,796,618, 6-25-57, Cl. 15-100.
- Arne, Christian, to Chicago Bridge & Iron Co. Spherical segmental vessel for external pressure. 2,818,191, 12-31-57, Cl. 220-1.
- Arnejo, Anthony. Light, ignition and starter switch. 2,786,906, 3-26-57, Cl. 200-11.
- Arnejo, Anthony. Bulb mounting for head lamp reflector. 2,786,937, 3-26-57, Cl. 240-41.
- Arneson, Blayne E. Cathode ray tube apparatus. 2,789,156, 4-16-57, Cl. 178-5.4.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Disposable container. 2,801,039, 7-30-57, Cl. 229-5.7.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 2,805,791, 9-10-57, Cl. 220-112.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Portable can package. 2,811,250, 10-29-57, Cl. 206-65.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 2,811,279, 10-29-57, Cl. 220-113.
- Arnett, Gordon J. Air conditioning. 2,785,273, 3-12-57, Cl. 219-39.
- Arnett, Leslie, to United Coffee Corp. Dispensing apparatus and method. 2,812,879, 11-12-57, Cl. 222-1.
- Arnett, Leslie, to United Coffee Corp. Beverage preparing and dispensing apparatus. 2,813,965, 11-19-57, Cl. 219-38.
- Arnett, Leslie, and W. G. Freise, to United Coffee Corp. Dispensing apparatus. 2,798,643, 7-9-57, Cl. 222-181.
- Arnett, Meyrick, to British Tyre & Rubber Co. Ltd. Fabric-reinforced flexible elastomeric article. 2,793,151, 5-21-57, Cl. 154-52.1.
- Arnhold, John J. Piston float valve. 2,802,482, 8-13-57, Cl. 137-315.
- Arni, Johann R., to E. Gretener. Eidophor liquid regenerating system. 2,776,339, 1-1-57, Cl. 178-7.5.
- Arnold, Charles E., to Sylvania Electric Products Inc. Mixing circuit for microwave frequencies. 2,789,210, 4-16-57, Cl. 250-13.
- Arnold, Charles F., and J. R. Holmes, to General Motors Corp. Heating, ventilating, and windshield defrosting apparatus. 2,800,068, 7-23-57, Cl. 98-2.
- Arnold, Charles N. Expanding tool. 2,788,833, 4-16-57, Cl. 153-82.
- Arnold, Cornelius S., J. J. Calaman, C. A. Napiorski, and D. H. Fleming, Jr., to Union Carbide and Carbon Corp. Rock-piercing blowpipe. 2,794,620, 6-4-57, Cl. 255-36.
- Arnold, David C., and P. A. McKinley, to Collins Radio Co. Flux detector. 2,786,179, 3-19-57, Cl. 324-43.
- Arnold, Ernest A. Device for warming beverages. 2,814,286, 11-26-57, Cl. 126-43.
- Arnold, Garland. Combination cargo tie down and seat fitting. 2,786,428, 3-26-57, Cl. 105-369.
- Arnold, Garland, to Eastern Rotorcraft Corp. Container type net construction. 2,809,860, 10-15-57, Cl. 294-77.
- Arnold, George B.: See—
Pevere, Ernest F., Hess, and Arnold. 2,799,640.
- Arnold, George B., and H. D. Kluge, to The Texas Co. Manufacture of alkyl phenols. 2,789,143, 4-16-57, Cl. 260-624.
- Arnold, Herbert, to Asta-Werke A. G. Chemische Fabrik. Method of preparing phosphoric acid esters of diethylstilbestrol. 2,802,854, 8-13-57, Cl. 260-461.
- Arnold, Herbert, N. Brock, and E. Kùhas, to Asta-Werke A. G. Chemische Fabrik. Basic ethers of substituted diphenylmethylcarbinols. 2,785,202, 3-12-57, Cl. 260-570.
- Arnold, Herrick R., and B. W. Howk, to E. I. du Pont de Nemours and Co. Reduced metal phosphomolybdates and their preparation. 2,788,258, 4-9-57, Cl. 23-51.
- Arnold, Hoffman & Co., Inc.: See—
Barnes, Carl E., Nummy, and Ney. 2,806,841.
Crowther, Milton, and Nummy. 2,806,839.
Robinson, Charles A. 2,806,856.
- Arnold, James G., to Radio Corp. of America. Stabilized multivibrators. 2,802,107, 8-6-57, Cl. 250-36.
- Arnold, K., & Co.: See—
Bortfeldt, Jürgen. 2,795,895.
- Arnold, Lionel K.: See—
Walker, Richard E., Bridger, and Arnold. 2,799,597.
- Arnold, Max E., to General Electric Co. Watertight base connection for electric lamps. 2,813,922, 11-19-57, Cl. 174-50.52.
- Arnold, Robert F.: See—
Knudsen, Raymond G., and Arnold. 2,817,151.
- Arnold, Vernon W.: See—
Twaddle, Warren W., Harban, and Arnold. 2,813,089.
- Arnoldi, Walter E., to United Aircraft Corp. Propeller manufacture. 2,786,262, 3-26-57, Cl. 29-156.8.
- Arnoldus, Menno J., to North American Philips Co., Inc. Adjusting device for a magnetic electron lens. 2,785,348, 3-12-57, Cl. 317-200.
- Arnolt Corp.: See—
Cameron, Colin E. 2,817,005.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Vehicle steering mechanism. 2,786,436, 3-26-57, Cl. 116-31.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Pallet and like trucks. 2,796,186, 6-18-57, Cl. 214-621.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Electric motor controllers. 2,796,575, 6-18-57, Cl. 318-474.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Storage battery charging device. 2,796,577, 6-18-57, Cl. 320-40.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Fork and like trucks. 2,810,488, 10-22-57, Cl. 214-652.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Electric motor regulating apparatus. 2,813,240, 11-12-57, Cl. 318-262.
- Arnot, Edward G. F., to Westinghouse Electric Corp. Incandescent-electroluminescent lamp. 2,780,746, 2-5-57, Cl. 313-109.
- Arnot, Herbert J.: See—
Alexander, William H., Arnot, and McCallum. 2,817,077.
- Arnt, Vernon R. Water dispersing device. 2,814,529, 11-26-57, Cl. 299-104.
- Arntzen, Arnt. Fish lures. 2,780,022, 2-5-57, Cl. 43-42.36.
- Aro Equipment Corp.: See—
De Groff, William B. 2,811,877.
Dye, Dean C. 2,805,371.
Miller, Paul F. 2,787,500.
- Aron, Werner L., to Aronco Meter Products Corp. High capacity gas meter. 2,793,621, 5-28-57, Cl. 121-48.
- Aronco Meter Products Corp.: See—
Aron, Werner L. 2,793,621.
Karl, Hans. 2,793,622.
- Arones, Daniel A., to Advance Machine Co. Selective handle connection for floor polishing machines. 2,818,312, 12-31-57, Cl. 306-12.
- Aronson, Albert I., to Radio Corp. of America. Audio recording level indicator. 2,816,281, 12-10-57, Cl. 340-253.
- Aronson, Charles N. Work holder. 2,787,826, 4-9-57, Cl. 29-288.
- Aronson, David, to Worthington Corp. Refrigeration apparatus. 2,791,105, 5-7-57, Cl. 62-115.
- Aronson, Theodore F.: See—
Drillick, John H., Floyd, Halahan, Aronson, and Lyon. 2,792,725.
Halahan, John, Aronson, and Lyon. 2,787,214.
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- Arp, Ewald A., to Tobin-Arp Mfg. Co. Arbor and sleeve for mounting same. 2,795,904, 6-18-57, Cl. 51-241.
- Arp, Ewald A. Mounting for film. 2,798,236, 7-9-57, Cl. 40-152.
- Arp, Ewald A., to Tobin-Arp Mfg. Co. Quick acting chuck. 2,805,865, 9-10-57, Cl. 279-51.
- Arpin, Edmund P., Jr. Light-weight luggage box fastener and carrier. 2,786,557, 3-26-57, Cl. 190-41.
- Arpin, Frank D. Convertible bed-sofa combinations. 2,779,031, 1-29-57, Cl. 5-38.
- Arpin, Frank D. Firmness adjustment for mattresses. 2,779,034, 1-29-57, Cl. 5-348.
- Arpin, John W. Underwater breathing regulators. 2,787,280, 4-2-57, Cl. 137-63.
- Arpin, Leon G., and L. G. Arpin, Jr. Underwater breathing devices. 2,810,387, 10-22-57, Cl. 128-142.
- Arpin, Leon G., Jr.: See—
Arpin, Leon G., and L. G. Arpin, Jr. 2,810,387.
- Arps, Bruno F., to Arps Corp. Detachable bracket and spade cutter for trench digger chain. 2,780,014, 2-5-57, Cl. 37-191.
- Arps, Bruno F., to Arps Corp. Scraper attachment for tractors. 2,787,847, 4-9-57, Cl. 37-159.
- Arps Corp.: See—
Arps, Bruno F. 2,780,014.
Arps, Bruno F. 2,787,847.
- Arps, Jan J. Apparatus for logging wells. 2,787,759, 4-2-57, Cl. 324-1.
- Arps, Jan J. Borehole logging apparatus. 2,806,372, 9-17-57, Cl. 73-151.5.
- Arrain, William E. Combination electric wire stripper and welder. 2,807,705, 9-24-57, Cl. 219-68.
- Arranbee Doll Co., Inc.: See—
Kirby, Virgil D. 2,813,372.
- Arrance, Frank C.: See—
Twells, Robert, and Arrance. 2,806,971.
- Arras, Damiano. Hose clamp. 2,793,414, 5-28-57, Cl. 24-27.
- Arrighini, Artile, and G. A. Van Sickle, to Roewall Co. Inside corner structure for prefabricated forms for composition walls. 2,789,337, 4-23-57, Cl. 25-131.
- Arrol, William J., and S. Jefferson, to the United States of America as represented by the United States Atomic Energy Commission. Gas discharge devices. 2,804,573, 8-27-57, Cl. 315-54.
- Arrow-Hart & Hegeman Electric Co., The: See—
Bentley, Robert H. 2,778,869.
Johnson, David W. 2,789,170.
Johnson, David W. 2,790,961.
Johnson, David W. 2,800,547.
Johnson, David W. 2,802,911.
Johnson, David W. 2,810,050.
Johnson, David W. 2,810,051.
Johnson, David W. 2,817,722.
Schleicher, Harold E. 2,802,919.
- Arrow Mfg. & Sale Co., Inc.: See—
McCuen, Donald H. 2,794,569.
- Arrowood, S. D., & Co., Inc.: See—
Malley, Joseph W. 2,778,172.
- Arrow Safety Device Co.: See—
Rossi, Robert R. 2,781,428.
- Arrowsmith Tool & Die Corp.: See—
Grodt, William F., and Miller. 2,794,663.
- Arroyo Lopez, Humberto. Weight-of-passenger operated electrical signal system for vehicles. 2,801,404, 7-30-57, Cl. 340-48.
- Arsenault, William R., and A. E. Garfein, to The Magnavox Co. Magnetic flip-flop. 2,802,953, 8-13-57, Cl. 307-68.

- Arson, Samuel L., to Cannon Electric Co. Electric connector having pliant body portion. 2,787,770, 4-2-57, Cl. 339-63.
- Arson, Samuel L., to Cannon Electric Co. Polarized electrical plug and socket connector having a plurality of contacts. 2,790,153, 4-23-57, Cl. 339-184.
- Art Electrotrope Co., The: *See—*
Schwenk, Gustav H., and Schwarz. 2,796,675.
- Art Metal Construction Co.: *See—*
Brandell, Nels O. 2,817,444.
Wells, Roy E. 2,795,205.
- Art Steel Co. Inc.: *See—*
Bergman, Ed. 2,784,522.
Bergman, Ed. 2,794,697.
Bergman, Edward. 2,801,141.
Bergman, Ed. 2,812,991.
- Arter Grinding Machine Co.: *See—*
Arter, Harry. 2,784,535.
Sangster, Arlon G. 2,782,904.
Sangster, Arlon G. 2,784,357.
Sangster, Arlon G. 2,800,806.
- Arter, Harry, to Arter Grinding Machine Co. Automatic regulating means for grinding machines. 2,784,535, 3-12-57, Cl. 51-105.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc. 44-31,16,20-tetraketopregne and processes of preparing the same. 2,791,591, 5-7-57, Cl. 260-397.3.
- Arthur, Chester A.: *See—*
Fowler, Paul L., and Arthur. 2,797,296.
- Arthur, Evan M. Apparatus for facilitating the adjustment of valve stems of internal combustion engine for tappet clearance. 2,778,120, 1-22-57, Cl. 33-181.
- Arthur, Evan M. Means for holding electric cable in a coiled condition. 2,778,582, 1-22-57, Cl. 242-96.
- Arthur, Hobert: *See—*
Hoskins, Della, and Arthur. 2,803,180.
- Arthur, Ralph P.: *See—*
Chestrown, Russell, Newby, and Arthur. 2,811,559.
- Artis, Edward J. Ventilator cap. 2,806,419, 9-17-57, Cl. 98-42.
- Artsay, Nicholas C., to Foster Wheeler Corp. Method and apparatus for the generation of power. 2,802,114, 8-6-57, Cl. 290-2.
- Artzt, Maurice, to the United States of America as represented by the Secretary of the Army. Facsimile recording apparatus. 2,785,039, 3-12-57, Cl. 346-74.
- Artzt, Maurice, to Radio Corp. of America. Multiple pickup facsimile scanner. 2,800,527, 7-23-57, Cl. 178-7.1.
- Artzt, Maurice, to the United States of America as represented by the United States Atomic Energy Commission. Automatic light control. 2,804,550, 8-27-57, Cl. 250-217.
- Arundale, Erving: *See—*
Kittleson, Allen R., Arundale, Jones, and Fenske. 2,809,981.
Oakley, Howard T., Arundale, and Jones. 2,799,708.
Staib, John H., and Arundale. 2,806,816.
- Arundale, Erving, G. E. Serniuk, and F. A. Biribauer, to Esso Research and Engineering Co. Olefin polymerization process. 2,786,878, 3-26-57, Cl. 260-683.15.
- Arundel Coulthard & Co. Ltd.: *See—*
Ridgway, Frank. 2,815,639.
- Arutunoff, Armais, to Reda Pump Co. Sand resistant pump. 2,775,945, 1-1-57, Cl. 103-108.
- Arutunoff, Armais, to Reda Pump Co. Air preheater for melting furnaces. 2,776,130, 1-1-57, Cl. 263-15.
- Arutunoff, Armais, to Reda Pump Co. Protecting unit for oil-filled submergible electric motors. 2,783,400, 2-26-57, Cl. 310-87.
- Arvey Corp.: *See—*
Blum, Jerome J. 2,807,356.
Peretti, Leonard. 2,782,538.
Rath, Joseph. 2,789,701.
Scaturro, Peter S. 2,793,802.
- Arvidson, George O. Buttering device. 2,808,020, 10-1-57, Cl. 118-13.
- Arvin Industries, Inc.: *See—*
Moore, Ezra L., and Smith. 2,776,704.
Moore, Ezra L., and Smith. 2,787,316.
- Arwa-Feinstrumpfwerkerei G. m. b. H.: *See—*
Leimann, Anton. 2,799,150.
- Arzt, Emanuel L. Earrings having an adjustable slide on the front clamp. 2,813,407, 11-19-57, Cl. 63-14.
- Asahi Chemical Industry Co., Ltd.: *See—*
Munekata, Fijii, Doi, and Onodera. 2,781,254.
- Asahi Kabushiki Kaisha (Asahi Glass Co., Ltd.): *See—*
Kurata, Motoharu, and Shibata. 2,793,471.
- Asahi Kasei Kogyo Kabushiki Kaisha: *See—*
Fujisaki, Yoshisato, and Takemoto. 2,778,847.
- Asakura, Masao.: *See—*
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- Asano, Toru, to The Governor of Tokyo-Metropolitan Office. Two lamp type high power factor fluorescent lamp device. 2,806,981, 9-17-57, Cl. 315-96.
- Asbeck, Hans J., and F. E. Ehrett, to The Sherwin-Williams Co. Multi-component spray gun. 2,780,496, 2-5-57, Cl. 299-140.1.
- Asbeck, Hans J., and N. D. Harter, to The Sherwin-Williams Co. Block coating apparatus. 2,804,044, 2-27-57, Cl. 118-120.
- Asbeck, Walter K., to The Sherwin-Williams Co. High shear viscosimeter. 2,807,160, 9-24-57, Cl. 73-60.
- Asbury, Allan, to The English Electric Co. Ltd. Automatic voltage control systems. 2,786,974, 3-26-57, Cl. 318-149.
- Asbury, Charles T. Oil-burning room heater. 2,787,997, 4-9-57, Cl. 126-121.
- Aschbacher, Frederick E. Pleat former and retainer. 2,805,007, 9-3-57, Cl. 223-34.
- Aschenbach, Theodora T. Toothbrush. 2,813,290, 11-19-57, Cl. 15-136.
- Aschenbach, Theodora T. Shoe dauber. 2,814,060, 11-26-57, Cl. 15-135.
- Aschenbrenner, Henry. Gravitational irrigation attachment. 2,776,169, 1-1-57, Cl. 299-104.
- Aschkenas, Abraham: *See—*
Reiser, Hyman, and Aschkenas. 2,780,333.
- Asendorf, Erich: *See—*
Anderson, Harald, Asendorf, and Bernstorff. 2,789,126.
- Aseptic Food Fillers, Inc.: *See—*
Johnson, Robert A. 2,787,875.
- Aseptic Thermo Indicator Co.: *See—*
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- Ash, Arthur B., and M. H. Earing, to Wyandotte Chemicals Corp. Removal of HNO₃ from carboxymethyl diethers of ethylene glycols. 2,791,551, 5-7-57, Cl. 202-52.
- Ash, Bertrand D.: *See—*
Phillips, Benjamin, Starcher, and Ash. 2,814,641.
- Ash, Jacob R.: *See—*
Bowen, Albert H., and Ash. 2,805,209.
- Ash, Jacob R., and A. L. Lambuth, to Monsanto Chemical Co. Method of preparing adhesives comprising a phenolic resin and a protein. 2,817,639, 12-24-57, Cl. 260-7.
- Ash, Thomas, & Co. Ltd.: *See—*
Slee, Alfred G. 2,781,115.
Slee, Alfred G., and Cox. 2,781,114.
- Ash, William J.: *See—*
Loomis, Chauncey C., and Ash. 2,814,477.
- Ashby, Bruce A., and C. J. Hoffman, to General Electric Co. Water-repellent cotton textiles. 2,802,754, 8-13-57, Cl. 117-76.
- Ashby, Clarence E., to E. I. du Pont de Nemours and Co. Purification of hexamethylenediamine. 2,802,030, 8-6-57, Cl. 260-583.
- Ashby, Harold W.: *See—*
Fredrickson, Edward A., Ashby, and Johnson. 2,806,740.
- Ashby, Robert M.: *See—*
Arenberg, David L., and Ashby. 2,777,997.
- Ashby, Ronald J.: *See—*
Hartley, Arthur C., and Ashby. 2,812,640.
- Ashby, William C., to Remington Arms Co., Inc. Arranging and combining machine. 2,790,535, 4-30-57, Cl. 198-33.
- Ashby, William C., to Remington Arms Co., Inc. Feed mechanism for articles. 2,804,237, 8-27-57, Cl. 221-234.
- Ashcroft, Alfred G., to Mohasco Industries, Inc. Pile fabric and method of making same. 2,796,654, 6-25-57, Cl. 28-72.
- Ashcroft, Alfred G., and A. Schock, to Mohasco Industries, Inc. Method and apparatus for making non-woven pile fabrics. 2,792,323, 5-14-57, Cl. 154-76.
- Asheim, Bernard B., and J. E. Jordan. Stagger stall parking. 2,815,133, 12-3-57, Cl. 214-16.1.
- Asheim, Bernard B., and V. K. Mayer. Elevator for mechanical parking. 2,816,624, 12-17-57, Cl. 187-9.
- Ashenfelder, Warren E., R. P. Johnson, and N. T. Wilcox, to Northrop Aircraft, Inc. Surface generator. 2,799,975, 7-23-57, Cl. 51-95.
- Ashkin, William C. Shoulder preparation of teeth. 2,793,438, 5-28-57, Cl. 32-58.
- Ashland Oil & Refining Co.: *See—*
Leas, Arnold M. 2,799,623.
- Ashley, Carlyle M., to Carrier Corp. Nozzle cleaners. 2,812,531, 11-12-57, Cl. 15-373.
- Ashley, Cecil W. Tool bar hitching clamp. 2,805,877, 9-10-57, Cl. 287-54.
- Ashley, Dorothy E. Ironing board cover and method of making the same. 2,811,795, 11-5-57, Cl. 38-140.
- Ashley, Frederick: *See—*
Torrance, John J., and Ashley. 2,797,834.
- Ashley, George R. Fishhook recoiler from obstacles. 2,785,500, 3-19-57, Cl. 43-44.97.
- Ashley, Ira R. Approaching vehicle indicator. 2,803,998, 8-27-57, Cl. 88-86.
- Ashley, Irie R. Artificial fish bait. 2,796,605, 6-18-57, Cl. 43-26.2.
- Ashley, Kenneth D., S. I. Federman, and W. B. Innes, to American Cyanamid Co. Carbon monoxide conversion catalyst and method of preparing same. 2,815,331, 12-3-57, Cl. 252-373.
- Ashley, Mervin F. Grip attachments for golf clubs. 2,780,464, 2-5-57, Cl. 273-165.
- Ashley, Robert H., to John Wood Co. Method of forming hull pressure seal between elements of a container having an interior coating of porcelain enamel. 2,777,194, 1-15-57, Cl. 29-458.
- Ashley, Walter M., Jr., to International Harvester Co. Hydraulic track tensioning apparatus for crawler type land vehicles. 2,818,311, 12-31-57, Cl. 305-10.
- Ashton, Albert A., to Youngstown Sheet and Tube Co. Rotary machine drive for well servicing machines. 2,803,973, 8-27-57, Cl. 74-665.
- Ashton, Benjamin N., to Electrol Inc. Accumulators. 2,790,462, 4-30-57, Cl. 138-31.

- Ashton, George H., and G. E. Nelson, to Bemis Bro. Bag Co. Manufacture of draw-cord bags and the product thereof. 2,777,491, 1-15-57, Cl. 150-11.
- Ashton, George H., and W. E. Stageberg, to Bemis Bro. Bag Company. Seaming apparatus. 2,794,485, 6-4-57, Cl. 154-42.
- Ashton, Philip E., to The Cuno Engineering Corp. Electric cigar lighter. 2,784,290, 3-5-57, Cl. 219-32.
- Ashton, Ralph E. Tap wrench guide. 2,793,377, 5-28-57, Cl. 10-147.
- Ashton, Richard G. Vehicle suspension system for boat trailers and the like. 2,789,835, 4-23-57, Cl. 280-414.
- Ashton, William E.: See—
- Goehenour, Carl I., Ashton, and Baranauckas. 2,793,201.
- Ashurst, Thomas, to International Trublast Stemming Corp. (Proprietary) Ltd. Stemming of shot holes in blasting operations. 2,812,712, 11-12-57, Cl. 102-30.
- Ashwood, Peter F.: See—
- Fletcher, Walter G., and Ashwood. 2,781,638.
- Ashworth, Fred, and J. R. Ioannilli, to United Shoe Machinery Corp. Machines for sewing shoes. 2,780,189, 2-5-57, Cl. 112-46.
- Askania Corp.: See—
- Koch, Richard. 2,799,599.
- Askania Regulator Co.: See—
- Cathcart, Richard C. 2,778,997.
- Holzbock, Werner G. 2,814,183.
- Markey, Frank J. 2,794,444.
- Markey, Frank J. 2,813,535.
- Medken, Russell J. 2,814,187.
- Reip, Raymond G. 2,785,659.
- Stebol, Herbert. 2,808,067.
- Aske, Irving E. Doubly padded face-plates for vise jaws. 2,796,787, 6-25-57, Cl. 81-38.
- Asker, Gunnar C. P., to Desomatic Products, Inc. Valveless intermittent dehumidifier. 2,801,706, 8-6-57, Cl. 183-4.5.
- Asker, Gunnar C. P., to Desomatic Products, Inc. Valveless continuous dehumidifier. 2,801,707, 8-6-57, Cl. 183-4.5.
- Asker, Gunnar C. P., to Desomatic Products, Inc. Valve. 2,817,360, 12-24-57, Cl. 137-625.43.
- Askew, Joseph H., to Evershed & Vignoles Ltd. Electric servomotor control system. 2,786,174, 3-19-57, Cl. 318-448.
- Askey, Warren E., to Esso Research and Engineering Co. Maintaining catalyst activity in a hydroforming process. 2,804,426, 8-27-57, Cl. 196-50.
- Aslin, James K., A. W. Brown, and H. R. Downey. Axial scraping device for pipe cleaning. 2,813,285, 11-19-57, Cl. 15-104.04.
- Asmussen, Paul: See—
- Puckett, James H. 2,795,668.
- Aspegren, Olof E. A. Method of pyrolysis of fuel. 2,788,313, 4-9-57, Cl. 202-14.
- Aspelin, Leslie L., to Thompson Products, Inc. Variable volume pump. 2,800,082, 7-23-57, Cl. 103-37.
- Aspelin, Leslie L., to Thompson Products, Inc. Pivoted valve plate for a pump assembly. 2,813,493, 11-19-57, Cl. 103-162.
- Asperger, Paul. Square attachment for providing a scribe or a height gauge. 2,797,491, 7-2-57, Cl. 33-169.
- Asperger, Paul. Dumping trailer. 2,800,362, 7-23-57, Cl. 298-20.
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- Aspergren, Brooke D.: See—
- Heinzelman, Richard V., and Aspergren. 2,789,138.
- Heinzelman, Richard V., and Aspergren. 2,798,876.
- Aspergren, Brooke D., R. V. Heinzelman, and R. B. Moffett, to The Upjohn Co. 2,2-dimethyl- α -diphenyl-1-pyrrolidene-alkanoamides. 2,782,206, 2-19-57, Cl. 260-313.
- Aspergren, Brooke D., to The Upjohn Co. Glyoxal derivatives. 2,796,430, 6-18-57, Cl. 260-513.
- Aspetti, George: See—
- Ghiglieri, Angelo. 2,804,065.
- Aspey, Cecil W., to Northrop Aircraft, Inc. Sectionally interlocking plate nut. 2,780,264, 2-5-57, Cl. 151-41.71.
- Aspey, Wayne S.: See—
- Baker, Benjamin P., Aspey, and Frisch. 2,788,191.
- Asplund, Arne J. A. Control means for dishwashing machines and similar washing apparatus. 2,788,789, 4-16-57, Cl. 134-58.
- Asseff, Peter A., T. W. Mastin, and A. Rhodes, to The Lubrizol Corp. Metal complexes and methods of making same. 2,777,874, 1-15-57, Cl. 260-504.
- Asseff, Peter A., T. W. Mastin, and A. Rhodes, to The Lubrizol Corp. Method of making organic lithium compounds. 2,802,816, 8-13-57, Cl. 260-139.
- Asselineau, Jean M.: See—
- Lederer, Edgar, Asselineau, and Bloch. 2,802,819.
- Assembly Products, Inc.: See—
- Thompson, Bradley R., and Saint-Amour. 2,780,709.
- Assman, Donald C. and W. C. Livestock rubbing station. 2,810,369, 10-22-57, Cl. 119-157.
- Assman, William C.: See—
- Assman, Donald C. and W. C. 2,810,369.
- Assmus, Waldemar, to General Motors Corp. Springing of road vehicles. 2,776,135, 1-1-57, Cl. 267-30.
- Associated Pipe Line Contractors, Inc.: See—
- Todd, Robert E. 2,786,284.
- Associated Spring Corp.: See—
- Stofko, Charles J. 2,806,507.
- Asta-Werke A. G. Chemische Fabrik: See—
- Arnold, Herbert. 2,802,854.
- Arnold, Herbert, Brock, and Kùhas. 2,785,202.
- Astra Merchandise Co., Inc.: See—
- Yamauchi, Tomiko. 2,814,285.
- Asta-Werke Aktiengesellschaft Chemische Fabrik: See—
- Geks, Franz J. 2,776,242.
- Astley, Benjamin P., to B. F. Perkins & Sons, Inc. Bin piling apparatus. 2,801,534, 8-6-57, Cl. 68-177.
- Astor, Edward L., to William Gluckin & Co., Inc. Conversion flap brassieres. 2,794,984, 6-11-57, Cl. 2-42.
- Asturias, Roderick E., Jr., to Rico-Dent Corp. Toothbrush. 2,809,386, 10-15-57, Cl. 15-137.
- Atcheson, Francis W.: See—
- Preston, Jack, and Atcheson. 2,795,636.
- Atchison, Leonard W., to General Electric Co. Method and apparatus for making bellows. 2,781,565, 2-19-57, Cl. 22-116.
- Atchison, Leonard W., to General Electric Co. Air conditioning apparatus. 2,782,611, 2-26-57, Cl. 62-129.
- Atchison, Leonard W., to General Electric Co. Air conditioning apparatus. 2,797,559, 7-2-57, Cl. 62-140.
- Atchley, Raymond D., to the United States of America as represented by the Secretary of the Navy. Buoyancy control device. 2,793,589, 5-28-57, Cl. 102-14.
- Atelier de Construction Jonneret S. A.: See—
- Sturzenegger, Jean. 2,784,844.
- Sturzenegger, Jean. 2,784,845.
- Ateliers de Construction Oerlikon: See—
- Storsand, Bjarne. 2,778,890.
- Ateliers de Constructions Electriques de Charleroi: See—
- Coquelet, Jules. 2,794,068.
- Malherbe, Georges. 2,779,880.
- Ots, Ivan. 2,795,133.
- Ateliers de Constructions Mecaniques de Vevey S. A.: See—
- Steinmann, Wilhelm. 2,797,813.
- Ateliers De La Motobecane, Societe Anonyme Francaise: See—
- Jaulmes, Eric. 2,790,525.
- Ateliers des Charmilles S. A.: See—
- Gallusser, Hans. 2,786,747.
- Mironof, Nicolas. 2,779,857.
- Ateliers Houget Societe Anonyme Verietoise pour la Construction de Machines: See—
- Defraiteur, Louis J. M. I. 2,814,316.
- Ateliers Roannais de Constructions Textiles: See—
- Crouzet, Henri. 2,788,634.
- Aterno, Joseph P., R. G. Heyner, A. F. Leyden, Jr., and D. Pindola, to Chas. Pfizer & Co., Inc. Pharmaceutical composition and process for preparing the same. 2,811,483, 10-29-57, Cl. 167-81.
- Athens Flooring Co., The: See—
- Life, Richard E., and Brengman. 2,789,323.
- Atherholt, George L., and G. L., Jr. Hydrostatic holding device. 2,797,603, 7-2-57, Cl. 82-44.
- Atherholt, George L., and G. L., Jr. Hydrostatic holding device. 2,797,604, 7-2-57, Cl. 82-44.
- Atherholt, George L., Jr.: See—
- Atherholt, George L., and G. L., Jr. 2,797,603.
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- Atherholt, George L., Sr., and G. L., Jr. 2,797,602.
- Atherholt, George L., Sr., and G. L., Jr. Hydrostatic holding devices. 2,797,602, 7-2-57, Cl. 82-44.
- Atherton, Henry F., Jr. Automatic aircraft rocket launcher. 2,800,056, 7-23-57, Cl. 89-1.7.
- Atherton, William A. Paint can attachment. 2,801,762, 8-6-57, Cl. 220-4.
- Atherton, William C., N. O. Felps, and C. B. Fletcher, to Esso Research and Engineering Co. Acid proof control valve. 2,792,845, 5-21-57, Cl. 137-375.
- Athey Products Corp.: See—
- Kling, Robert W. 2,776,036.
- Athmann, Chrys C. Support for circumferentially travelling type fire mounting and demounting apparatus. 2,812,788, 11-12-57, Cl. 144-288.
- Athmann, Chrys C. Automatically adjustable bead breaker. 2,812,805, 11-12-57, Cl. 157-1.28.
- Atkin, Rupert L.: See—
- Sinclair, Charles W., and Atkin. 2,804,117.
- Atkin, Sydney: See—
- Seyfried, Warren R., and Atkin. 2,799,557.
- Atkins, Albert E. Telescopic support. 2,806,722, 9-17-57, Cl. 287-58.
- Atkins, Bernard R.: See—
- Greaves, Charles D., and Atkins. 2,777,806.
- Atkins, Bernard R., P. S. Maer, and M. J. Lanham. Dynamo-electric machine brush. 2,783,405, 2-26-57, Cl. 310-228.
- Atkins, Carl E., to Tung-Sol Electric Inc. Photoelectric circuit. 2,777,097, 1-8-57, Cl. 317-130.
- Atkins, Carl E., to Tung-Sol Electric Inc. Light sensitive control circuit. 2,798,964, 7-9-57, Cl. 250-214.
- Atkins, Don C., Jr.: See—
- Newman, Kenneth W., Atkins, and Douglas. 2,795,490.
- Newman, Kenneth W., Atkins, and Douglas. 2,795,491.
- Atkins, Earle R., Jr., and P. G. Nahin, to Union Oil Co. of California. Neutron logging of well bores. 2,811,649, 10-29-57, Cl. 250-83.1.
- Atkins, Ellis K.: See—
- Iglehart, Fredinand C., George, Atkins, and Schachter. 2,788,402.

- Atkins, Floyd W., and H. W. Elkin, to North American Aviation, Inc. Aircraft duct screen arrangement. 2,814,454, 11-26-57, Cl. 244-102.
- Atkins, Iris F., $\frac{1}{2}$ to P. H. Pettway. Cam-actuated vise. 2,788,688, 4-16-57, Cl. 81-25.
- Atkins, James: *See*—
Bell, Keith L. 2,790,936.
- Atkins, S. Lawrence: *See*—
Murphy, Arthur J. 2,781,788.
- Atkinson, Albert E. Devices for cleaning the walls of bore holes. 2,787,328, 4-2-57, Cl. 166-173.
- Atkinson Bulk Transport Co.: *See*—
Atkinson, Fred M., Mattson, and Paulson. 2,777,481.
- Atkinson, Fred M., and Mattson. 2,779,634.
- Atkinson, Fred M., D. F. Mattson, and A. L. Paulson, to Atkinson Bulk Transport Co. Railroad car filling device. 2,777,481, 1-15-57, Cl. 141-388.
- Atkinson, Fred M., and D. F. Mattson, to Atkinson Bulk Transport Co. Actuator for fluidized conveying systems. 2,779,634, 1-29-57, Cl. 302-49.
- Atkinson, George R., to Mid-West Abrasive Co. Honing head with oblique abrasive elements and method of making the same. 2,797,535, 7-2-57, Cl. 51-184.1.
- Atkinson, Gerald L., to McGraw Electric Co. Circuit interrupting device. 2,785,254, 3-12-57, Cl. 200-146.
- Atkinson, Gerald L., to McGraw-Edison Co. Load break interrupter. 2,811,612, 10-29-57, Cl. 200-144.
- Atkinson, Herbert J. Bilge pump. 2,777,397, 1-15-57, Cl. 103-148.
- Atkinson, Herbert J. Speed wing for motor-driven boat. 2,779,302, 1-29-57, Cl. 114-66.5.
- Atkinson, Herbert J. Continuous filtering apparatus for flowing liquids. 2,809,753, 10-15-57, Cl. 210-301.
- Atkinson, Herbert J., and S. M. Coan; said Atkinson assor. to said Coan. Plastic boat. 2,807,811, 10-1-57, Cl. 9-6.
- Atkinson, Ralph B., and S. G. Ellis; said Ellis, assor. to said Atkinson. Variable area magnetic recording apparatus. 2,806,904, 9-17-57, Cl. 179-100.2.
- Atkinson, Ralph G., and D. R. Switzer, to The Standard Oil Co. Contamination-reduction in pipe lines. 2,796,878, 6-25-57, Cl. 137-1.
- Atkinson, Ralph H., to The International Nickel Co., Inc. Process for electrodeposition of platinum. 2,792,341, 5-14-57, Cl. 204-47.
- Atkinson, Richard L., to Atkinson's Agricultural Appliances Ltd. Endless tracks for self-laying track type vehicles. 2,796,302, 6-18-57, Cl. 305-10.
- Atkinson, Richard L., to Atkinson's Agricultural Appliances Ltd. Endless tracks for self-laying track type vehicles. 2,796,303, 6-18-57, Cl. 305-10.
- Atkinson, Robert P., to General Motors Corp. Turbine and compressor coupling. 2,778,565, 1-22-57, Cl. 230-116.
- Atkinson, Robert P., to General Motors Corp. Piston ring turbine shaft seal. 2,812,196, 11-5-57, Cl. 286-7.
- Atkinson, Sid L. Trailer for boats or the like. 2,817,537, 12-24-57, Cl. 280-44.
- Atkinson, W. G.: *See*—
Bensin, Basil M. 2,777,253.
- Atkinson, Wallace E., to Long Mfg. Co., Inc. Bag frame hinge. 2,813,295, 11-19-57, Cl. 16-163.
- Atkinson's Agricultural Appliances Ltd.: *See*—
Atkinson, Richard L. 2,796,302.
- Atkinson, Richard L. 2,796,303.
- Atkron, Inc.: *See*—
Copping, Bruce G. 2,792,695.
- Copping, Brian G. 2,812,085.
- Atlanta Paper Co.: *See*—
Davis, William R. 2,802,597.
- Forrer, Homer W. 2,776,072.
- Forrer, Homer W. 2,778,526.
- Forrer, Homer W. 2,785,827.
- Forrer, Homer W. 2,785,847.
- Gentry, Hermond G. 2,780,970.
- Gentry, Hermond G. 2,786,572.
- Gentry, Hermond G. 2,794,374.
- Gentry, Hermond G. 2,809,484.
- Gentry, Hermond G. 2,809,486.
- Gentry, Hermond G. 2,817,520.
- Atlantic Chemicals and Metals Co.: *See*—
Heins, Sidney M. 2,807,538.
- Atlantic Coast Line Railroad Co.: *See*—
Stein, Harry J. 2,794,403.
- Atlantic Refining Co., The: *See*—
Angevine, Gordon K. 2,787,157.
- Jakaitis, Eugene A. 2,808,382.
- Keenan, Vincent J., Gazlow, and Doan. 2,804,391.
- Kieras, Joseph A. 2,777,776.
- Martin, John L. 2,794,512.
- Schuler, Ellis W., Jr., Dunlap, and Gourley. 2,782,364.
- Atlantic Research Corp.: *See*—
Sloan, Arthur W. 2,814,570.
- Sloan, Arthur W. 2,814,618.
- Sloan, Arthur W. 2,814,619.
- Sloan, Arthur W., and Mann. 2,809,120.
- Sloan, Arthur W., and Mann. 2,809,191.
- Sloan, Arthur W., and Mann. 2,809,192.
- Stewart, William D., and Gatcomb. 2,809,193.
- Stewart, William D., and Wachtel. 2,814,620.
- Atlas-Boxmakers, Inc.: *See*—
Boitel, Arwed C. 2,778,559.
- Atlas Copeo Aktiebolag: *See*—
Danielsson, Jan P. 2,806,673.
- Ekström, Gösta I. 2,781,025.
- Ekström, Gösta I. 2,817,316.
- Nyholm, Bengt V. 2,809,470.
- Pyk, Herman T. 2,812,745.
- Wahlsten, Gösta L. B. 2,787,984.
- Atlas Floor Surfacing Machinery Corp.: *See*—
Okun, Nathaniel N. 2,801,437.
- Atlas Mfg. Co.: *See*—
Hyams, Herbert B., and Kerr. 2,812,599.
- Atlas Mfg. & Sales Corp., The: *See*—
Jenkins, Wallace, and McCreery. 2,784,827.
- Atlas Metal Works: *See*—
Baird, Beno H. 2,799,173.
- Atlas Mineral Products Co. of Pennsylvania, The: *See*—
Seymour, Raymond B., Steiner, and Pascoe. 2,799,593.
- Atlas Plywood Corp.: *See*—
Bolster, Richard D. 2,797,414.
- Muller, Robert A. 2,777,126.
- Muller, Robert A. 2,812,096.
- Muller, Robert A., and MacPhie. 2,806,594.
- Atlas Powder Co.: *See*—
Behrens, Robert W. 2,786,013.
- Behrens, Robert W., and Griffin. 2,778,814.
- Brandner, John D. 2,788,372.
- Brandner, John D. 2,809,899.
- Frost, Arthur L. 2,782,492.
- Huyett, Daniel D. 2,797,473.
- Huyett, Daniel D. 2,797,608.
- Richardson, Henry M. 2,809,911.
- Zech, John D. 2,789,976.
- Zech, John D. 2,802,820.
- Zech, John D. 2,802,821.
- Zech, John D. 2,813,091.
- Zech, John D. 2,813,092.
- Zech, John D. 2,815,345.
- Atlas Tack Corp.: *See*—
Millett, Henry. 2,804,251.
- Atlas-Werke Aktiengesellschaft: *See*—
Kietz, Hans. 2,801,403.
- Wiese, Herman. 2,802,053.
- Atlee, Zed J., to Dunlee Corp. Electron tube. 2,786,954, 8-26-57, Cl. 313-60.
- Atlee Zed J., to Dunlee Corp. X-ray tube anode. 2,790,102, 4-23-57, Cl. 313-32.
- Atols, John S. Fishing device. 2,809,461, 10-15-57, Cl. 43-18.
- Atomic Energy of Canada Ltd.: *See*—
Green, Donald T., and Braestrup. 2,781,454.
- Atomic Instrument Co.: *See*—
Stoddard, Hugh F. 2,794,977.
- Ator, Joe T., to General Controls Co. Flame responsive safety control system using prism and light chopper. 2,804,131, 8-27-57, Cl. 158-28.
- Attrill, Arthur T. Salt and pepper shaker. 2,812,114, 11-5-57, Cl. 222-1424.
- Attendu, Andre C., to Stadler, Hurter & Co. Airport and transfer buses. 2,778,674, 1-22-57, Cl. 296-28.
- Atterby, Per A. Rotatable container closure. 2,778,547, 1-22-56, Cl. 222-553.
- Atlas, Isidor, and E. Pappo. Garbage cans or containers for other purposes. 2,804,230, 8-27-57, Cl. 220-38.
- Atkins, Roy, to Imperial Chemical Industries Ltd. Melting high melting point metals or alloys. 2,796,450, 6-18-57, Cl. 13-9.
- Atton, Alfred M., and L. A. Fletcher, to Savage and Parsons Ltd. Plural motor control system for radar scanner drive. 2,797,374, 6-25-57, Cl. 318-8.
- Attwood, John G., to Union Special Machine Co. Lubrication system for sewing machines. 2,780,192, 2-5-57, Cl. 112-256.
- Attwood, John G. Apparatus for supplying decontaminated air. 2,808,124, 10-1-57, Cl. 183-35.
- Attwood, John G., and E. Schoij, to Union Special Machine Co. Sewing machines. 2,788,758, 4-16-57, Cl. 112-220.
- Atwater, George S. Liquid control valve. 2,802,480, 8-13-57, Cl. 137-207.
- Atwill, Gilbert C. Folding table for automobiles. 2,791,476, 5-7-57, Cl. 311-21.
- Atwood, Harold T. Hat crown pouncing and ragging machine. 2,817,467, 12-24-57, Cl. 223-20.
- Atwood, John S.: *See*—
Hulse, Robert E., Atwood, Muller, and Miller. 2,801,211.
- Muller, Werner C., and Atwood. 2,792,433.
- Atwood & Morrill Co.: *See*—
Prescott, Norman F. 2,791,395.
- Atwood, Seth B.: *See*—
Patzer, William A. 2,785,828.
- Patzer, William A. 2,805,745.
- Atwood Vacuum Machine Co.: *See*—
Burns, James R. 2,791,794.
- Burns, James R. 2,807,828.
- Dall, Edward D. 2,793,061.
- Johnson, Agnar. 2,795,448.
- Nunn, Herbert E., Jr. Re. 24,362.
- Atwood, William E., and P. C. Culver, said Culver assor. to K & B Allyn Co. Glow plug. 2,795,220, 6-11-57, Cl. 123-145.
- Aube, Bateson A. Illuminated spirit level. 2,806,133, 9-10-57, Cl. 240-644.

- Aubert, Fred B., to Detroit Controls Corp. Tunnel-type gas burner and double ignition and flame-sensing pilot means. 2,814,339, 11-26-57, Cl. 158-123.
- Auburn Machine Works, Inc.: *See*—
George, Warren E., and McIninch. 2,810,293.
- Auccoin, John J. Foot support. 2,789,624, 4-23-57, Cl. 155-165.
- Aud, Robert P. Combined hold-down weight and bumper guard for tractors. 2,797,121, 6-25-57, Cl. 293-99.
- Audas, Francis G., and J. Wilson, to The British Rayon Research Assn. Treatment of elongated flexible materials such as fabrics. 2,785,478, 3-19-57, Cl. 34-9.
- Audemar, Pierre G. J. M.: *See*—
Mercier, Jean, and Audemar. 2,787,255.
- Audio Devices, Inc.: *See*—
Speed, William C. 2,796,359.
Speed, William C., and Dwyer. 2,797,170.
- Audio Products Corp.: *See*—
Giel, George J., and Kinsey. 2,788,470.
- Auer, Adolf C., to Maschinenfabrik Augsburg-Nurnberg, A. G. Steering linkage for vehicles. 2,814,500, 11-26-57, Cl. 280-93.
- Auer, Betty. Caster cups. 2,787,085, 4-2-57, Cl. 45-137.
- Auer, George G. Ventilator grill. 2,811,094, 10-29-57, Cl. 98-40.
- Auer, John H., Jr.: *See*—
Kendall, Hugh C., and Auer. 2,805,335.
- Auer, Laszlo: *See*—
Smith, Malcolm K., and Auer. 2,782,215.
- Auer, Leland S., to Shaffer Tool Works. Tubing-head stud lock. 2,798,747, 7-9-57, Cl. 286-7.
- Auerbach, Albert A.: *See*—
Eckert, John P., Jr., Weiner, Shaw, and Auerbach. 2,781,446.
- Auerbach, Mary. Chance controlled game device. 2,792,227, 5-14-57, Cl. 273-134.
- Auerhaan, Joseph J. Foldable closure mechanism fitted with adjustable hinge arms. 2,790,491, 4-30-57, Cl. 160-84.
- Auerhaan, Joseph J., to Barwel Mfg. Co., Inc. Foldable closure and actuating mechanism therefor. 2,815,072, 12-3-57, Cl. 160-84.
- Auger, Jacques. Device for applying anti-skid chains. 2,806,332, 9-17-57, Cl. 81-3.
- Augsburger, Franz, and L. Laubender, to Firma Krauss-Maffei Aktiengesellschaft. Internal combustion engines exhaust apparatus. 2,814,178, 11-26-57, Cl. 60-29.
- Augsten, Kenneth J., and J. E. Candlin, Jr., to Pullman-Standard Car Mfg. Co. Berth section arrangement. 2,778,320, 1-22-57, Cl. 105-317.
- August, Pablo. Accessory device for gasoline engines. 2,790,709, 4-30-57, Cl. 45-107.
- August, Pablo. Transportable concrete or mortar mixer. 2,806,680, 9-17-57, Cl. 259-161.
- August Thyssen-Hutte Aktiengesellschaft: *See*—
Kootz, Theodor, and Kellermeyer. 2,817,584.
Oelsen, Willy, and Kellermeyer. 2,815,724.
- August, William, to The Birtcher Corp. Gas blanketed clotting instrument. 2,808,833, 10-8-57, Cl. 128-303.17.
- Augusta Chemical Co.: *See*—
Whitaker, Charles H. W. 2,806,761.
- Augustadt, Herbert W., and W. F. Kannenberg, to Bell Telephone Laboratories, Inc. Telephone answering and message recording system. 2,793,252, 5-21-57, Cl. 179-6.
- Augustauskas, Edward L., to General Electric Co. Method for assembling refrigeration systems. 2,782,496, 2-26-57, Cl. 29-469.
- Augustine, Arthur L., to Augustine-Davidson Lock Corp. Permutation switch. 2,797,271, 6-25-57, Cl. 200-43.
- Augustine-Davidson Lock Corp.: *See*—
Augustine, Arthur L. 2,797,271.
- Aukerman, Malcolm H., and H. L. Lincoln. Multiple valve. 2,808,882, 10-8-57, Cl. 161-7.
- Ault, Charles E.: *See*—
Shank, Clifford A., Brown, and Ault. 2,808,985.
- Ault, James R., and C. P. Jenkins, to Joy Mfg. Co. Impeller for axial flow fans. 2,811,303, 10-29-57, Cl. 230-134.
- Aumann, Richard F., to Clinton Machine Co. Saw chain. 2,792,035, 5-14-57, Cl. 143-135.
- Auphan, Michel, to Societe Generale d'Electronique, Societe Anonyme. Method of forming a film supported a short distance from a surface and cathode-ray tube incorporating such film. 2,815,462, 12-3-57, Cl. 313-84.
- Auslander, William, and L. Margold, to Beckley Electric Co., Inc. Electric flashers for lighting displays. 2,804,523, 8-27-57, Cl. 200-122.
- Aust, Paul C., to Food Machinery and Chemical Corp. Apparatus for filling powdered materials into containers. 2,795,389, 6-11-57, Cl. 249-60.
- Aust, Robert J., C. F. Frey, L. R. Goetz, and N. C. Skillman, to P. R. Mallory & Co., Inc. Television tuner. 2,787,713, 4-2-57, Cl. 250-40.
- Austen, Herman P. Mattress. 2,807,033, 9-24-57, Cl. 5-347.
- Austenal, Inc.: *See*—
Folsom, Ralph L. 2,812,265.
Zahn, Eric H. 2,797,456.
Zahn, Eric H. 2,797,482.
Zahn, Eric H. 2,798,294.
- Austermiller, Donald J. Agitator assembly for multiple outlet hopper. 2,800,255, 7-23-57, Cl. 222-330.
- Austin, Donald C.: *See*—
Austin, Ellsworth W. 2,792,574.
- Austin, Ellsworth W., to D. C. Austin. Strainer. 2,792,574, 5-21-57, Cl. 4-287.
- Austin, Eric P., and H. McCallum, to Simon-Carves Ltd. Means for separating particles suspended in liquid. 2,816,657, 12-17-57, Cl. 209-8.
- Austin, Ervin. Recessed wall fixture and mounting means. 2,793,782, 5-28-57, Cl. 220-18.
- Austin, Frederick J.: *See*—
Skelton, John H., and Austin. 2,817,170.
- Austin Hoy & Co. Ltd.: *See*—
Proctor, Sidney E. 2,778,236.
- Austin, Leslie W., deceased (by W. O. Austin, administrator), and C. A. Rick, to Kaiser Aluminum & Chemical Corp. Process for forming crystalline magnesia of high purity and of high density. 2,812,241, 11-5-57, Cl. 23-201.
- Austin, Lucien C. Camera for producing screen positive. 2,789,905, 4-23-57, Cl. 96-116.
- Austin Motor Co. Ltd., The: *See*—
Burzi, Richard. 2,777,731.
Burzi, Richard. 2,794,672.
- Austin, Noel A., to The Miner Rubber Co. Ltd. Rubber overshoes. 2,787,063, 4-2-57, Cl. 36-58.6.
- Austin, Oliver K., to Phillips Petroleum Co. Carbon black collecting system employing Orion bag filters. 2,778,715, 1-22-57, Cl. 23-209.9.
- Austin, Paul R., and O. W. Cass, to E. I. du Pont de Nemours & Co. Organic polyesters from tetrahydrofurans and dicarboxylic acids. 2,811,512, 10-29-57, Cl. 260-78.4.
- Austin, Peter J., to The Firth Carpet Co., Inc. Pile fabric. 2,777,475, 1-15-57, Cl. 139-406.
- Austin Powder Co., The: *See*—
McCleannan, Morton. 2,800,302.
- Austin, Ralph W., to Process Engineering, Inc. Fire-extinguishing apparatus. 2,784,791, 3-12-57, Cl. 169-31.
- Austin, Ralph W., to Process Engineering Inc. Fire extinguisher. 2,794,506, 6-4-57, Cl. 169-31.
- Austin, Thomas D.: *See*—
Price, Charles S. 2,784,511.
- Austin, Wallace O.: *See*—
Austin, Leslie W., and Rick. 2,812,241.
- Austin, Wendell F., to Metronatic Mfg. Co., Inc. Water mixing valve for use in water heaters or storage tank systems. 2,803,409, 8-20-57, Cl. 236-12.
- Austin, William C., H. O. J. Collier, M. J. Potter, and E. P. Taylor, to Allen & Hanburys Ltd. Polyalkylene bis-1-(4-methyl quinaldiniums). 2,791,582, 5-7-57, Cl. 260-286.
- Auto, Paul, to Illinois Tool Works. Nut and washer assembly apparatus. 2,792,578, 5-21-57, Cl. 10-155.
- Auto, Paul. Grinder for frozen materials. 2,796,901, 6-25-57, Cl. 146-184.
- Auto Bumper Straightening Dies Corp.: *See*—
Weiners, Simon. 2,788,831.
- Auto Lamp Mfg. Co.: *See*—
Danek, August J. 2,784,348.
- Auto Research Corp.: *See*—
Thomas, Thomas R. 2,784,808.
Thomas, Thomas R. 2,787,222.
Thomas, Thomas R. 2,787,336.
Thomas, Thomas R. 2,810,541.
Thomas, Thomas R. 2,815,662.
- Auto-Crat Mfg. Co., Division of B-N Corp.: *See*—
Leonard, John N. 2,813,726.
- Autogiro Co. of America: *See*—
Campbell, Harris S. 2,776,016.
Pullin, Cyril G., and Shapiro. 2,788,075.
- Automata: *See*—
Schmid, Wolfgang. 2,810,327.
Schmid, Wolfgang. 2,814,237.
- Automatic Devices Co., Inc.: *See*—
McMullin, George M. 2,815,911.
- Automatic Devices Corp.: *See*—
Youhouse, Joseph. 2,790,061.
- Automatic Draft and Stove Co., Inc.: *See*—
Harding, George W. 2,797,874.
- Automatic Electric Laboratories, Inc.: *See*—
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Crabtree, Leonard F. 2,783,304.
Faulkner, Alfred H. 2,785,229.
Gulbrandsen, Christian A. 2,785,228.
Henrikson, Oscar W., and Wood. 2,782,261.
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Lomax, Clarence E. 2,776,340.
Peterson, Edward S. 2,776,341.
Sargisson, Robert L., and Wood. 2,783,313.
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- Automatic Locking Devices, Inc.: *See*—
Spragen, Louis. 2,787,353.
- Automatic News vending Corp.: *See*—
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- Automatic Phone Recorder Co. Ltd.: *See*—
Fontaine, John G., and McLean. 2,783,303.
- Automatic Poultry Feeder Co.: *See*—
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Smallegan, Marvin L. 2,789,407.
- Automatic Redial Corp.: *See*—
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- Automatic Safety Fuses and Flares, Inc.: *See*—
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- Automatic Shifters, Inc.: *See—*
Ingres, Jeannot G. 2,811,864.
- Automatic Steel Products, Inc.: *See—*
Sproul, Nolte V. 2,801,724.
- Automatic Switch Co.: *See—*
Canfield, Albert V. H. 2,775,982.
- Automatic Temperature Control Co., Inc.: *See—*
Brightman, Barrie. 2,816,249.
MacGeorge, William D. 2,801,874.
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- Automatic Voting Machine Corp.: *See—*
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- Automation Development Corp.: *See—*
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- Automation-Engineering Corp.: *See—*
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- Automobiles M. Berliet: *See—*
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- Automotive & Marine Products Corp.: *See—*
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Harvey, Draper M. 2,812,754.
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- Automotive Products Co Ltd.: *See—*
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- Automotive Rubber Co., Inc.: *See—*
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- Auton, Clifford, to Hemphill Co. Knitting machine control mechanism. 2,799,148, 7-16-57, Cl. 66-8.
- Autoscope, Inc.: *See—*
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- Auto-Soler Co., The: *See—*
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- Auto-Test, Inc.: *See—*
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- Auto-Vac Co.: *See—*
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- Autoyre Co., The: *See—*
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- Autoyre Co., Inc., The: *See—*
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- Auzin, John M. Squeeze toy. 2,817,187, 12-24-57, Cl. 46-118.
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Ebbeler, John R. 2,789,251.
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Jansen, Robert A. 2,799,901.
Lines, Carl H. 2,799,285.
Maher, Richard A. 2,790,117.
Nave, Alfred E. 2,777,304.
Rohm, Fredric G. 2,797,671.
Schrotter, Jerome H., and Duncan. 2,800,560.
Warner, Fred, Calhoun, and Herbe. 2,800,929.
- Avedikian, Souren Z. Paint remover composition. 2,802,709, 8-13-57, Cl. 252-154.
- Avedikian, Souren Z. Process of preparing completely carbonated lime. 2,802,719, 8-13-57, Cl. 23-66.
- Averill, Charles C., to Union Steel Products Co. Material handling container. 2,776,775, 1-8-57, Cl. 220-6.
- Averill, Charles C., to Union Steel Products Co. Material handling pallet. 2,781,184, 2-12-57, Cl. 248-120.
- Averill, Charles C., to Union Steel Products Co. Material handling pallet. 2,809,796, 10-15-57, Cl. 248-120.
- Aversa, Joseph: *See—*
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- Aversten, Karl J., to Svenska Aktiebolaget Gasaccumulator. Electric welding and soldering gun. Re. 24,367, 10-1-57, Cl. 219-98.
- Avery Adhesive Label Corp.: *See—*
Avery, Ray S. 2,783,172.
Gassaway, James S. 2,782,961.
Petterson, Thorleif H. 2,802,598.
- Avery, Fred J., $\frac{1}{2}$ to H. L. Kuehlthau. Material unloading device. 2,797,831, 7-2-57, Cl. 214-317.
- Avery, Fred J., and H. L. Kuehlthau, said Avery assor. to said Kuehlthau. Loading apparatus for material treating machines. 2,797,835, 7-2-57, Cl. 214-707.
- Avery, Fred J., and H. L. Kuehlthau. Scoop unit. 2,816,676, 12-17-57, Cl. 214-701.
- Avery-Hardoll Ltd.: *See—*
Fraser, John. 2,815,149.
- Avery, Harold T., to Minneapolis-Honeywell Regulator Co. Variable pitch rotary wing control system. 2,784,792, 3-12-57, Cl. 170-135.74.
- Avery, Howard S., and C. E. Ridenour, to American Brake Shoe Co. Welding rods and the high performance hard facing alloys produced thereby. 2,776,208, 1-1-57, Cl. 75-126.
- Avery, Howard W., to General Electric Co. Ball piston type fluid transmission. 2,815,718, 12-10-57, Cl. 103-161.
- Avery, Kent, to Bachmann-Uxbridge Worsted Corp. Process of making worsted type yarn. 2,809,401, 10-15-57, Cl. 19-65.
- Avery, Ray S., to Avery Adhesive Label Corp. Laminated label structure. 2,783,172, 2-26-57, Cl. 154-46.8.
- Avery, W. & T. Ltd.: *See—*
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- Avgerinos, Costas: *See—*
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- Aviation Engineering Division, Avien-Knickerbocker, Inc.: *See—*
Snyder, Ellery P. 2,816,975.
- Avins, Jack, to Radio Corp. of America. Variable level noise-clipping circuit. 2,776,338, 1-1-57, Cl. 178-7.3.
- Avins, Jack, to Radio Corp. of America. Signal separation system for color television receiver. 2,811,580, 10-29-57, Cl. 178-5.4.
- Avoset Co.: *See—*
Poarch, Arthur E., and Twieg. 2,809,893.
Poarch, Arthur E., and Twieg. 2,809,894.
- Avra, Elmer L., deceased; L. M. Avra, administratrix of said E. L. Avra, 60% to L. M., P. E., M. L., and D. E. Avra, and 40% to W. D. Bail. Sharpening machine. 2,777,258, 1-15-57, Cl. 51-48.
- Avra, Lela M.: *See—*
Avra, Elmer L. 2,777,258.
- Avra, Marvin L.: *See—*
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- Avra, Paul E.: *See—*
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- Avril, Arthur C. Safety device for hand trucks. 2,800,337, 7-23-57, Cl. 280-47.33.
- Avro Aircraft Ltd.: *See—*
Kuzyk, William, and Whittley. 2,807,165.
Manning, Ernest A. 2,800,346.
- Avseev, Ralph O. Combination car bed and car seat for infants. 2,805,704, 9-10-57, Cl. 155-44.
- Awica Products, Inc.: *See—*
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- Awnair Corp. of America: *See—*
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- Awot, Alfred E. Apparatus for repairing dents in car bodies. 2,799,190, 7-16-57, Cl. 81-15.
- Axe, Daniel E.: *See—*
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- Axe, William N., to Phillips Petroleum Co. Manufacture of lubricating oils. 2,786,015, 3-19-57, Cl. 196-18.
- Axel Bros., Inc.: *See—*
Axel, Harry. 2,787,142.
- Axel Harry, to Axel Bros., Inc. Resiliently retained finger ring guard. 2,787,142, 4-2-57, Cl. 63-15.6.
- Axelrad, Bernard A., to Freeport Sulphur Co. Mining of sulfur using hot saline water containing a small percentage of finely divided earthy material. 2,817,504, 12-24-57, Cl. 262-3.
- Axelsen, Howard C., to Ideal Industries, Inc. Fish tape reel spreader. 2,788,952, 4-16-57, Cl. 254-134.3.
- Axelsen, Irvin J.: *See—*
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- Axelson Mfg. Co.: *See—*
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- Axelsson, Axel. Apparatus for tying threads in a cloth joining operation. 2,786,256, 3-26-57, Cl. 28-1.
- Axeman, James E.: *See—*
Anderson, William S. 2,815,415.
- Axlander, Axel N. A. Radiator connecting device. 2,777,663, 1-15-57, Cl. 251-148.
- Axtell, Willard G., to Shwayder Bros., Inc. Device for attaching two separable parts together. 2,792,248, 5-14-57, Cl. 292-248.
- Axvall, Gordon N., $\frac{1}{2}$ to W. H. West and $\frac{1}{2}$ to J. D. Kirby. Towel dispenser. 2,799,429, 7-16-57, Cl. 221-15.
- Ayars, Edward M., Jr., to American Viscose Corp. Yarn tension guide. 2,781,181, 2-12-57, Cl. 242-150.
- Ayars, Edward M., Jr., and A. W. Little, to American Viscose Corp. Roll extension attachment. 2,801,460, 8-6-57, Cl. 29-115.
- Ayars, Edward M., Jr., G. W. Beyers, R. D. Heffelfinger, and J. A. Truitt, to American Viscose Corp. Stop motion assembly. 2,814,088, 11-26-57, Cl. 28-51.
- Aycock, Benjamin F., and S. Melamed, to Rohm & Haas Co. Vinylethylalkylcarbamates and vinyl thioalkylcarbamates. 2,806,840, 9-17-57, Cl. 260-77.5.
- Ayer, Donald E., and G. H. Buchi, to E. I. du Pont de Nemours and Co. 1-cyanobenzocyclo [4.2.0] octa-2,4-dienes and their synthesis. 2,805,242, 9-3-57, Cl. 260-465.
- Ayer, John L., to Cambridge Filter Corp. Filter demonstration device. 2,790,253, 4-30-57, Cl. 35-49.
- Ayer, William E., to the United States of America as represented by the Secretary of the Navy. Instantaneous automatic gain control amplifier. 2,782,268, 2-19-57, Cl. 179-171.
- Ayers, David T., Jr.: *See—*
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- Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure operated motor. 2,784,702, 3-12-57, Cl. 121-41.
- Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure operated motor. 2,791,203, 5-7-57, Cl. 121-41.
- Ayers, David T., Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,805,550, 9-10-57, Cl. 60-54.6.
- Ayers, David T., Jr., to Kelsey-Hayes Co. Variable ratio brake lever. 2,809,725, 10-15-57, Cl. 188-152.

- Ayers, David T., Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,811,836, 11-5-57, Cl. 60—54.6.
- Ayers, David T., Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,817,410, 12-24-57, Cl. 180—90.
- Ayers, David T., Jr., and C. Chakmakian, to Kelsey-Hayes Co. Brake operating mechanism. 2,811,868, 11-5-57, Cl. 74—51.2.
- Ayers, Earl D.: *See—*
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- Ayers, Earl D., to Burroughs Corp. Multiple position beam switching tube. 2,817,786, 12-24-57, Cl. 315—21.
- Ayers, Edgar H., to Clark Equipment Co. Reversing switch. 2,807,684, 9-24-57, Cl. 200—67.
- Ayers, George W., to The Pure Oil Co. Production of doctor-sweet non-corrosive naphthas. 2,793,983, 5-28-57, Cl. 196—25.
- Ayers, George W., and W. L. Flerce, to The Pure Oil Co. Synthesis of succinonitriles. 2,780,638, 2-5-57, Cl. 260—465.3.
- Ayers, John S.: *See—*
Brown, Alvin H., and Ayers. 2,785,626.
- Ayers, Joseph W., and J. J. Bradley, Jr., to Agrashell, Inc. Phenolic resin glue compositions containing a vegetable shell flour derivative. 2,781,286, 2-12-57, Cl. 154—45.9.
- Ayers, Joseph W., and J. J. Bradley, Jr., to Agrashell, Inc. Phenolic resin glue compositions containing modified bark phloem flour. 2,781,327, 2-12-57, Cl. 260—17.2.
- Ayers, Joseph W., and J. J. Bradley, Jr., to Agrashell, Inc. Phenolic resin glue compositions containing hydrolyzed ligno-cellulosic degradation products. 2,781,328, 2-12-57, Cl. 260—17.2.
- Ayers, Merton E. Golf bag cart. 2,786,693, 3-26-57, Cl. 280—47.26.
- Ayers, Robert C., Jr., to Chas. Pfizer & Co., Inc. Recovery of citric acid. 2,810,755, 10-22-57, Cl. 260—537.
- Ayres, Waldemar A., to White Sewing Machine Corp. Reverse stitch control knob. 2,818,039, 12-31-57, Cl. 112—210.
- Ayres, William P. Multiple gas burner. 2,781,088, 2-12-57, Cl. 158—104.
- Ayres, William P. Gas burner. 2,808,878, 10-8-57, Cl. 158—104.
- Aylard, William F.: *See—*
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- Aylesworth, Robert D., to Emery Industries, Inc. Soap composition. 2,792,348, 5-14-57, Cl. 252—132.
- Aylesworth, Robert D., and L. A. Stegemeyer, to Emery Industries, Inc. Thickening agent for liquid hydrocarbons. 2,795,492, 6-11-57, Cl. 44—7.
- Aylor, Elmo E., and E. C. Vollmer, to Midwest Mfg. Corp. Knob retainer clip. 2,805,876, 9-10-57, Cl. 287—53.
- Ayoub, Sam F. Key ring holder. 2,775,804, 1-1-57, Cl. 24—3.
- Ayres, Arthur U., to The Sharples Corp. Process of centrifugally separating glycerides from oil. 2,807,411, 9-24-57, Cl. 233—11.
- Ayres, Elwyn C., to Phillips Petroleum Co. Storage of volatile liquids. 2,790,807, 4-30-57, Cl. 62—1.
- Ayres, John E., to Oil Equipment Laboratories, Inc. Valve assembly for aerosol type containers. 2,805,003, 9-3-57, Cl. 222—394.
- Ayres, Richard H.: *See—*
Hopkins, Frank L., and Ayres. 2,781,620.
- Ayres, Robert F., and E. Heinzelman, Jr., to Oakite Products, Inc. Phosphate coating composition and method of coating metal therewith. 2,790,740, 4-30-57, Cl. 148—6.15.
- Ayres, Waldemar A., to White Sewing Machine Corp. Sewing machine. 2,781,011, 2-12-57, Cl. 112—221.
- Ayres, Waldemar A., to White Sewing Machine Corp. Needle bar dynamic balancer. 2,802,437, 8-13-57, Cl. 112—221.
- Ayres, Waldemar A., to White Sewing Machine Corp. Sewing machine. 2,802,710, 8-13-57, Cl. 312—30.
- Ayres, Waldemar A., to White Sewing Machine Corp. Feeding mechanism for sewing machine. 2,808,793, 10-8-57, Cl. 112—210.
- Ayres, Waldemar A., to White Sewing Machine Corp. Vertically pivoted presser foot for zigzag sewing. 2,808,794, 10-8-57, Cl. 112—235.
- Ayres, Waldemar A., to White Sewing Machine Corp. Needle plate latch. 2,808,797, 10-8-57, Cl. 112—260.
- Ayres, Weldon R., to The Pioneer Rubber Co. Article hanger support. 2,788,121, 4-9-57, Cl. 206—45.33.
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- Azoplate Corp.: *See—*
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Neugebauer, Wilhelm, and Barthenheier. 2,810,342.
- Azorlosa, Julian L.: *See—*
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- B & B Engineering & Supply Co., Inc.: *See—*
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- B-I-F Industries, Inc.: *See—*
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Cary, Francis H. Re. 24,271.
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- B & J Mfg. Co.: *See—*
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- BMC Mfg. Corp.: *See—*
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- B & N Aluminum Welding Corp.: *See—*
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- B. S. F. A. Holdings Ltd.: *See—*
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- Baade, William H., and T. J. Macek, to Merck & Co., Inc. Process of preparing crystalline hydrocortisone acetate. 2,805,232, 9-3-57, Cl. 260—397.45.
- Baader, Fritz-Henning, R. Friedl, and R. von Linde, to Wilhelm Balzer K. G. Thermal relay. 2,794,100, 5-28-57, Cl. 200—136.
- Baaron, Robert E., to Armour and Co. Method for concentrating the titanium oxide minerals in beach sand. 2,792,940, 5-21-57, Cl. 209—166.
- Baasner, Wilhelm, H. Gunther, and K. Huber, to Agfa Camera-Werk Aktiengesellschaft. Light projecting and illuminating system for copying colored original pictures. 2,794,365, 6-4-57, Cl. 88—24.
- Babalan, Mesrop K., to Centric Clutch Co. Overload release clutches. 2,778,468, 1-22-57, Cl. 192—56.
- Babalan, Mesrop K. Flexible coupling. 2,814,187, 11-26-57, Cl. 64—15.
- Babb, Maynard A., to Bendix Aviation Corp. Hydrogen altimeter. 2,790,324, 4-30-57, Cl. 73—384.
- Babbar, Inderjit: *See—*
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- Babbitt, B. T., Inc.: *See—*
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- Babbitt, Seth M., to Massari Brothers Machine Co. Precision boring machine. 2,816,462, 12-17-57, Cl. 77—4.
- Babcock, Gilbert A.: *See—*
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- Babcock, John C.: *See—*
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- Babcock, Maurice P. Mail box. 2,796,217, 6-18-57, Cl. 232—35.
- Babcock & Wilcox Co., The: *See—*
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Carpenter, Otis R. 2,785,459.
Chan, Charles R., and Raynor. 2,800,115.
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Eberle, Fritz T. 2,797,992.
Edgecombe, David A. 2,815,127.
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Gay, Cecil H., and G. J. and E. E. Schoessow. 2,789,670.
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Harter, Isaac, I. Harter, Jr., and Ratcliffe. 2,804,665.
Harter, Isaac, Jr., Ratcliffe, and McClain. 2,804,663.
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Hubel, Ernst. 2,793,626.
Hutchings, Edward G. 2,794,427.
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Jessen, Nicholas C. 2,787,899.
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Jessen, Nicholas C. 2,789,925.
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Kessler, George W., and Ammon. 2,800,113.
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- Schoessow, Earl E. 2,792,965.
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 Sprague, Theodore S., and Marquez. 2,815,007.
 Troutman, Louis G. 2,806,453.
 Urquhart, William M. 2,795,200.
 Woolley, Charles H., and Durham. 2,778,346.
 Wooton, William R., and Evans. 2,804,854.
 Zoller, Ronald E. 2,782,738.
- Babeock, William J. Speed change attachment for power tools. 2,780,942, 2-12-57, Cl. 74—417.
- Bablarz, Raymond S., and H. A. Wallace, to Joseph Bancroft & Sons Co. Production of multi-colored durable tipped effects on embossed fabrics. 2,785,081, 3-12-57, Cl. 117—11.
- Babin, Benton P. Soil moistening apparatus. 2,798,768, 7-9-57, Cl. 299—104.
- Babish, Richard C.: *See*—
 Waller, Fred, Dresser, and Babish. 2,816,475.
- Bäbler, Justus, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for determining the location of a fault on electric lines. 2,783,434, 2-26-57, Cl. 324—52.
- Baboz, Jean E., to Societe d'Optique et de Mecanique de Haute Precision. Apparatus for photogrammetric plotting. 2,803,992, 8-27-57, Cl. 88—24.
- Babros, Joseph H., and J. Komada, said Komada assor, to said Babros. Combined cage and playpen for birds. 2,778,333, 1-22-57, Cl. 119—17.
- Babson Bros. Co.: *See*—
 Babson, Henry B. 2,793,612.
 Merritt, Thomas W. 2,800,134.
 Thomas, Chester A. 2,783,737.
 Thomas, Chester A. 2,783,771.
- Babson, Henry B., to Babson Bros. Co. Milk receiving apparatus. 2,793,612, 5-28-57, Cl. 119—14.03.
- Babson, Robert G. Fire warning device. 2,806,108, 9-10-57, Cl. 200—138.
- Babunovic, Momir: *See*—
 Ponder, Raymond E., and Babunovic. 2,776,445.
- Babyak, George H. Cotter key spreading tool and dies. 2,802,383, 8-13-57, Cl. 81—15.
- Baccari, Chester P., to International Business Machines Corp. Electronic calculator. 2,811,308, 10-29-57, Cl. 235—61.6.
- Bacchetti, Tullio, to Carlo Erba S. p. A. Process for the preparation of thiazolic derivatives. 2,784,196, 3-5-57, Cl. 260—306.7.
- Bachi, Ray, to Baldwin-Lima-Hamilton Corp. Counterbalanced pumping jack. 2,780,063, 2-5-57, Cl. 60—51.
- Bach, Donald, and T. G. Kaus, to Super Sign Co., Inc. Sign stand. 2,802,291, 8-13-57, Cl. 40—64.
- Bach, Elmer T. Mechanical tally. 2,801,054, 7-30-57, Cl. 235—110.
- Bach, Frederick L.: *See*—
 Kushner, Samuel, Bach, and Brabander. 2,794,804.
- Bach, Frederick L., Jr., H. J. Brabander, and S. Kushner, to American Cyanamid Co. 1,1'-alkylenedipiperazines and methods of preparing same. 2,777,849, 1-15-57, Cl. 260—268.
- Bach, Frederick L., Jr., and S. Kushner, to American Cyanamid Co. Piperazine derivatives and method of preparing the same. 2,780,625, 2-5-57, Cl. 260—268.
- Bach, John A. Stringed musical instrument. 2,796,795, 6-25-57, Cl. 84—173.
- Bach, John H., to Northrop Aircraft, Inc. Rocket tube exhaust. 2,787,938, 4-9-57, Cl. 89—1.7.
- Bach, John H., V. E. Peak, and K. W. Maier, to Northrop Aircraft, Inc. Reaction device. 2,792,758, 5-21-57, Cl. 89—1.7.
- Bach, John W., R. S. Frisbie, and J. V. Kubovy, to Pitney-Bowes, Inc. Value printing from coplanar type. 2,795,186, 6-11-57, Cl. 101—269.
- Bach, Oscar B., deceased; M. Grun, C. L. Borden, and W. Ebbitt, executors of said Bach. Protectively coated metals and process of coating same. 2,809,901, 10-15-57, Cl. 117—46.
- Bacher, Gottlob: *See*—
 Zeininger, Gustav, and Bacher. 2,798,242.
- Bachle, Carl F.: *See*—
 Prescott, Ford L., and Bachle. 2,809,614.
- Bachli, Herman, and H. S. Shapiro, to Chicago Specialty Mfg. Co. Shower head with frictional grip coupling means for attachment to tubular conduits. 2,799,533, 7-16-57, Cl. 299—73.
- Bachman Bros., Inc.: *See*—
 McNeill, Albert G. 2,780,028.
- Bachman, Carl O. Collapsible reel. 2,805,828, 9-10-57, Cl. 242—63.
- Bachman, Eugene, to D. W. Price Corp. Cam operated ball detent clevis pin. 2,786,383, 3-26-57, Cl. 85—5.
- Bachman, Eugene, to D. W. Price Corp. Clevis pin with lockable operating means. 2,816,471, 12-17-57, Cl. 85—5.
- Bachman, Eugene, F. B. Bolte, and F. G. Hicks, to D. W. Price. Hermetically sealed switch. 2,794,889, 6-4-57, Cl. 200—168.
- Bachman, Fred E.: *See*—
 Tack, Carl E., and Bachman. 2,812,040.
- Bachman, Fred E., to American Steel Foundries. Brake head mounting arrangement. 2,777,540, 1-15-57, Cl. 188—73.
- Bachman, Fred E., to American Steel Foundries. Brake head assembly. 2,780,316, 2-5-57, Cl. 188—59.
- Bachman, Fred E., and J. E. Klausner, to American Steel Foundries. Rotor brake suspension. 2,780,317, 2-5-57, Cl. 188—59.
- Bachman, Fred E., G. O. Buchholz, and M. K. Coskun, to American Steel Foundries. Rotor brake. 2,791,294, 5-7-57, Cl. 188—59.
- Bachman, Fred E., and M. K. Coskun, to American Steel Foundries. Combination brake. 2,796,151, 6-18-57, Cl. 188—33.
- Bachman, Fred E., and D. M. Young, to American Steel Foundries. Rotor brake. 2,816,629, 12-17-57, Cl. 188—207.
- Bachman, Rudolph E., to Sterling Precision Instrument Corp. Triplex magnetic clutch. 2,801,720, 8-6-57, Cl. 192—48.
- Bachman, Walter: *See*—
 Korngold, Leon, and Bachman. 2,806,607.
- Bachmann, Dittmar, H. Eilers, W. Grundmann, and F. Buchtmeyer, to Buttner-Werke Aktiengesellschaft. Process and apparatus for the drying of damp material in current driers. 2,783,544, 3-5-57, Cl. 34—10.
- Bachmann, Harald: *See*—
 Tegtmeyer, Heinrich, and Bachmann. 2,799,453.
- Bachmann, Harald, to A. W. Faber-Castell. Slide rules. 2,812,905, 11-12-57, Cl. 235—70.
- Bachmann Uxbridge Worsted Corp.: *See*—
 Avery, Kent. 2,809,401.
 Pfau, Julius H. 2,793,418.
- Bachmann, Werner E., to the United States of America as represented by the Secretary of War. Method for preparing explosives. 2,798,870, 7-9-57, Cl. 260—248.
- Bachner, Arthur J.: *See*—
 Prough, Paul B., and Bachner. 2,814,101.
- Bachner, George L., to Bachner Valvi Development Corp. Shell mold making machine. 2,794,222, 6-4-57, Cl. 22—20.
- Bachner, George L., to Bachner Valvi Development Corp. Process of making shell molds and shell molds made thereby. 2,794,223, 6-4-57, Cl. 22—130.
- Bachner Valvi Development Corp.: *See*—
 Bachner, George L. 2,794,222.
 Bachner, George L. 2,794,223.
 Valvi, Emery I. 2,815,550.
- Bachofer, Henry L., to Sun Oil Co. Tube caliper device. 2,810,203, 10-22-57, Cl. 33—178.
- Bachtel, Howard J., to The Dow Chemical Co. Methyl chloroform inhibited with dioxane. 2,811,252, 10-29-57, Cl. 206—84.
- Bachy, Andrew L. Intermittent marking devices. 2,777,385, 1-15-57, Cl. 101—42.
- Back, Frank G. Target plotting projector unit device. 2,785,600, 3-19-57, Cl. 88—24.
- Back, Frank G., and A. J. Quittner; said Quittner assor, to said Back. Panoramic cameras. 2,815,701, 12-10-57, Cl. 95—17.
- Back, James. Tire and metal buffing tool. 2,811,816, 11-5-57, Cl. 51—193.5.
- Backhouse, Headley T.: *See*—
 Tebbs, George W. 2,782,031.
 Tebbs, George W. 2,812,941.
 Tebbs, George W. 2,812,942.
- Backhouse, Headley T. Sheet feeding machines. 2,801,849, 8-6-57, Cl. 271—59.
- Backiel, Mary. Protective foot covering. 2,795,865, 6-18-57, Cl. 36—10.
- Backlund, Peter S., to Union Oil Co. of California. Coating compositions containing a heart-cut-paraffin wax and a polyolefin. 2,791,569, 5-7-57, Cl. 260—28.5.
- Backlund, Peter S., to Union Oil Co. of California. Wax coating composition. 2,791,570, 5-7-57, Cl. 260—28.5.
- Backman, Kenneth E. H., and G. R. Madland, to Motorola, Inc. Converting system. 2,799,001, 7-9-57, Cl. 321—48.
- Backman, William O. Hold-down unit for clamping devices. 2,806,411, 9-17-57, Cl. 90—59.
- Backstay Welt Co.: *See*—
 Welch, Herman P. 2,792,318.
- Backstrand, Winston C. Directional coupler. 2,792,550, 5-14-57, Cl. 333—10.
- Backus, John G., to the United States of America as represented by the United States Atomic Energy Commission. Ion source for a calutron. 2,817,763, 12-24-57, Cl. 250—41.9.
- Baclawski, Joseph E., to General Electric Co. Commutator construction and method of making the same. 2,782,330, 2-19-57, Cl. 310—234.
- Bacon, Carl E.: *See*—
 Jackson, Stuart P., and Bacon. 2,815,472.
- Bacon, Clinton J., and S. J. Kent, to Nu Matic Nailer, Inc. Nail-driving machine. 2,799,858, 7-23-57, Cl. 1—44.4.
- Bacon, Elbridge F., to General Motors Corp. Vibration damper for gages. 2,779,442, 1-29-57, Cl. 188—90.
- Bacon, Harold A., to Electric Lighting, Inc. Outdoor lighting fixture with adjustable mount. 2,816,214, 12-10-57, Cl. 240—3.
- Bacon, John G. Sleeve and glove closure. 2,778,027, 1-22-57, Cl. 2—270.
- Bacon, John H. Beverage stirrer. 2,793,842, 5-28-57, Cl. 259—144.

- Bacon, Louis E.: *See*—
Benning, Samuel, and Bacon. 2,780,227.
Benning, Samuel, and Bacon. 2,809,641.
- Bacon, Kenneth D.: *See*—
Weaver, Miles A., Bacon, and Greminger. 2,802,740.
- Bacon, Leslie R., J. V. Othralek, and A. L. Sotier, to Wyandotte Chemicals Corp. Method of controlling slime in sugar mills. 2,802,757, 8-13-57, Cl. 127-44.
- Bacon, Marilyn L.: *See*—
MacGriff, Jack E., and Bacon. 2,777,030.
- Bacon, Raymond C.: *See*—
Williams, David J., Bacon, and Acton. 2,783,408.
- Bacsik, George J., and W. O. Taff, to Esso Research and Engineering Co. Process for producing low-sediment fuel. 2,809,153, 10-8-57, Cl. 196-50.
- Bacsik, Joseph G., to Chance Vought Aircraft, Inc. Copyboard adapter for flexible transparent drawings. 2,799,205, 7-16-57, Cl. 88-24.
- Badalini, Giovanni, to S. p. A. Cambi Idraulici Badalini. Rotary pump and motor hydraulic transmission. 2,777,286, 1-15-57, Cl. 60-53.
- Badalini, Giovanni, to Cambi Idraulici Badalini S. p. A. Front plate for a fluid transmission comprising members for distributing and adjusting the pressure in the circuit. 2,781,639, 2-19-57, Cl. 60-53.
- Badalini, Giovanni, to S. p. A. Cambi Idraulici Badalini. Variable speed, rotary pump and motor hydraulic transmission. 2,784,554, 3-12-57, Cl. 60-53.
- Badalini, Giovanni, to S. p. A. Cambi Idraulici Badalini. Rotary pump and motor hydraulic transmission system. 2,788,636, 4-16-57, Cl. 60-53.
- Badalini, Giovanni, to Cambi Idraulici Badalini S. p. A. Rotary pump and motor hydraulic power transmission. 2,817,953, 12-31-57, Cl. 60-53.
- Badalini, Giovanni, to Cambi Idraulici Badalini S. p. A. Hydraulic change speed device. 2,817,954, 12-31-57, Cl. 60-53.
- Badders, William C., to Bell Telephone Laboratories, Inc. Electrical socket connector for printed circuit boards. 2,802,188, 8-6-57, Cl. 339-17.
- Bade, Alfred G., to The Falk Corp. Speed reducers. 2,795,155, 6-11-57, Cl. 74-805.
- Bade, Alfred G., to The Falk Corp. Multi-speed drive. 2,797,585, 7-2-57, Cl. 74-217.
- Bade, Alfred G., to The Falk Corp. Speed reducer. 2,801,548, 8-6-57, Cl. 74-421.
- Bade, Heinz, to Messrs. James Mackie & Sons Ltd. Spinning frame. 2,788,631, 4-16-57, Cl. 57-36.
- Bade, Heinz, to Messrs. James Mackie & Sons Ltd. Thread feed stopping device. 2,807,131, 9-24-57, Cl. 57-83.
- Badeau, Carroll A., to The Thomas & Betts Co. Clevis-forming electrical connector. 2,783,297, 2-26-57, Cl. 174-44.
- Badenoch, Benjamin W., to Vickers Inc. Power transmission. 2,807,241, 9-24-57, Cl. 121-46.5.
- Bader, Alfred R.: *See*—
Mirr, Gordon J., and Bader. 2,809,182.
- Bader, Alfred R., to Pittsburgh Plate Glass Co. Method of preparing alkenylaryloxy aliphatic carboxylic acids. 2,790,826, 4-30-57, Cl. 260-521.
- Bader, Alfred R., to Pittsburgh Plate Glass Co. N-amino-alkanol substituted alkylaromatic compounds. 2,790,830, 4-30-57, Cl. 260-570.9.
- Bader, Alfred R., to Pittsburgh Plate Glass Co. Preparation of terpene diphenolic compounds. 2,811,564, 10-29-57, Cl. 260-619.
- Bader, Alfred R., to Pittsburgh Plate Glass Co. Halogenated phenols. 2,811,566, 10-29-57, Cl. 260-623.
- Bader, Alfred R., to Pittsburgh Plate Glass Co. Method of preparing acetoacetic acid ester of castor oil. 2,812,340, 11-5-57, Cl. 260-405.
- Bader, Alfred R., and L. O. Cummings, to Pittsburgh Plate Glass Co. Preparation of novel dialkylol derivatives of alkenylphenols. 2,802,882, 8-13-57, Cl. 260-261.
- Bader, Alfred R., and G. J. Mirr, to Pittsburgh Plate Glass Co. Method of interpolymerizing ethylene monomers with polyesters containing ethylene groups using dihydroxy maleic acid and esters thereof as accelerators. 2,809,183, 10-8-57, Cl. 260-45.4.
- Bader, Charles O.: *See*—
Kluck, Theodore J. 2,800,046.
- Bäder, Erich: *See*—
Bredereck, Hellmut, Bader, Nubling, and Wohnhas. 2,776,952.
- Bredereck, Hellmut, Bäder, Wohnhaas, and Nubling. 2,779,751.
- Bader, Hans. Electrical lead connector. 2,780,789, 2-5-57, Cl. 339-59.
- Bader, Theodore. Sign mounting frame. 2,802,292, 8-13-57, Cl. 40-129.
- Bader, William, to Wesson Tool Co. Tool holder. 2,778,092, 1-22-57, Cl. 29-105.
- Badger, Algernon S., to Esso Research and Engineering Co. Tubing joint leak detector. 2,793,524, 5-28-57, Cl. 73-40.5.
- Badger, Everett H., Jr.: *See*—
Davies, Robert H., and Badger. 2,780,238.
- Badger Mfg. Co.: *See*—
Latham, Allen, Jr., and Reed. 2,793,988.
- Badger Meter Mfg. Co.: *See*—
Miller, Jacob C. 2,784,597.
- Badgley, Gerald J. Motion picture apparatus having film magazine and loop forming means. 2,807,188, 9-24-57, Cl. 88-17.
- Badgley, Martelle C. Adjustable brassiere drying hanger. 2,815,157, 12-3-57, Cl. 223-66.
- Badham Insulation Co.: *See*—
Holtzford, Ernest L. 2,785,099.
- Badin, Ferdinand E., to Societe Mediterraneenne, Miniere, Metallurgique et Commerciale. Centrifugal powder clutches. 2,813,606, 11-19-57, Cl. 192-58.
- Badische Anilin- & Soda-Fabrik Aktiengesellschaft: *See*—
Adam, Karl, and Triessmann. 2,778,852.
- Bergmann, Friedrich. 2,809,237.
- Ebel, Friedrich, Randebröck, and Rupp. 2,792,397.
- Ellbracht, Hans, and Haerberle. 2,790,201.
- Eisele, Julius, Federkiel, Gassenmeier, and Schuster. 2,813,773.
- Fikentscher, Hans, and Wilhelm. 2,808,383.
- Finck, Emil, and Hummel. 2,795,505.
- Friederich, Herbert, and Hrubesch. 2,805,248.
- Friederich, Herbert, Laib, and Henkel. 2,789,141.
- Himmeler, Wilhelm, and Schiller. 2,787,628.
- Hoelscher, Friedrich. 2,789,961.
- Hoelscher, Friedrich. 2,807,598.
- Jacobi, Hans-Rudolph, and Beck. 2,788,196.
- Jockers, Kurt, and Wintersberger. 2,798,791.
- Johannsen, Adolf, and Luedemann. 2,815,352.
- Kroper, Hugo, Rau, and Wirth. 2,792,436.
- Krzikalla, Hans. 2,791,580.
- Lehrer, Erwin, and Buschmann. 2,812,374.
- Markert, Ferdinand. 2,792,293.
- Minsinger, Manfred, and Friederich. 2,813,893.
- Muehlbauer, Fritz. 2,795,585.
- Pasedach, Heinrich, and Seefelder. 2,778,821.
- Pasedach, Heinrich, and Seefelder. 2,778,830.
- Pasedach, Seefelder, Spaenig, and Weickmann. 2,808,437.
- Reppe, Walter, and Friederich. 2,789,137.
- Reppe, Walter, and Friederich. 2,795,607.
- Reppe, Walter, Friederich, Henkel, and Lautenschlager. 2,806,040.
- Reppe, Walter, Friederich, Lautenschlager, and Laib. 2,809,976.
- Reppe, Walter, Pasedach, Dreher, and Amann. 2,782,191.
- Schlecht, Leo, and Klippel. 2,791,497.
- Schlecht, Leo, and Klippel. 2,794,735.
- Schlecht, Leo, and Staeger. 2,817,583.
- Schlichthaerle, Anton, Jennrich, and Salzer. 2,812,003.
- Schlichting, Otto, Pachaly, Westphal, and Amann. 2,812,359.
- Schlichting, Otto, Westphal, Pachaly, and Amann. 2,812,358.
- Schuster, Curt, Maier, Gehm, Eisele, and Frederkiel. 2,813,774.
- Stastny, Fritz. 2,779,062.
- Stastny, Fritz. 2,787,809.
- Stephan, Hans J., and Koehler. 2,812,037.
- Woellhaf, Josef. 2,787,422.
- Badlam, Stephen, to Blaw-Knox Co. Indexing mechanism. 2,816,459, 12-17-57, Cl. 74-820.
- Badmaieff, Alexis: *See*—
Carrington, George L., and Badmaieff. 2,802,116.
- Badovannis, George M.: *See*—
Rosenthal, Louis A., and Badovannis. 2,791,747.
- Bady, Isidore. Weak signal detector using synchronously switched rectifier bridge. 2,790,898, 4-30-57, Cl. 250-20.
- Baecker, Henry J., E. J. Kubis, and A. W. Liger, to Wyandotte Chemicals Corp. Phosphating compositions. 2,809,906, 10-15-57, Cl. 148-6.15.
- Baehr, Carl G., to The Greist Mfg. Co. Overcasting attachment for sewing machines. 2,779,300, 1-29-57, Cl. 112-160.
- Baehr, Carl G., and H. N. Johnson, to The Greist Mfg. Co. Buttonhole attachments. 2,804,035, 8-27-57, Cl. 112-77.
- Baenziger, Leonard N., to Royal Electric Corp. Fuse construction. 2,789,181, 4-16-57, Cl. 200-123.
- Baenziger, Leonard N., to Royal Electric Co., Inc. Fuse construction. 2,789,182, 4-16-57, Cl. 200-123.
- Baer, Austin R. Surgical instrument. 2,781,760, 2-19-57, Cl. 128-303.
- Baer, Austin R. Fire alarm. 2,798,452, 7-9-57, Cl. 116-106.
- Baer, Donald R., and R. E. Heckert, to E. I. du Pont de Nemours & Co. 4-(aminoaryl)-1,3-butadiene-2-carbonitriles and their preparation. 2,708,881, 7-9-57, Cl. 260-465.
- Baer, John S.: *See*—
Kleinberg, Harry, and Baer. 2,807,664.
- Baer, John S., to Radio Corp. of America. Controlled feed device. 2,791,422, 5-7-57, Cl. 271-2.4.
- Baer, John S., and R. A. Oberdorf, to Radio Corp. of America. Punched tag reader. 2,781,973, 2-19-57, Cl. 235-61.11.
- Baer, Massimo, to Monsanto Chemical Co. Modification of partially hydrolyzed polyvinyl ester with a dicarboxylic acid anhydride. 2,796,413, 6-13-57, Cl. 260-78.4.
- Baer, Massimo, to Monsanto Chemical Co. High melting interpolymers of monovinyl aromatic compounds. 2,816,890, 12-17-57, Cl. 260-80.5.
- Baer, Rudi L. Ice cream scoop. 2,815,724, 12-10-57, Cl. 107-48.
- Baer, William, R. T. Bayard, and O. F. Swift, to Westinghouse Electric Corp. Fission counter. 2,809,313, 10-8-57, Cl. 313-61.

- Baerwald, Hans G., and E. G. Thurston, to Clevite Corp. Ice detector. 2,800,647, 7-23-57, Cl. 340-234.
- Baessler, John J.: See—
 Abplanalp, Robert H. 2,783,502.
 Abplanalp, Robert H. 2,799,435.
 Abplanalp, Robert H. 2,800,702.
 Abplanalp, Robert H. 2,818,202.
- Baff, Giuseppe, to Vivaldi and Co. Dry gas meter with rotary gas distributor. 2,793,624, 5-28-57, Cl. 121-179.
- Bagarozzy, Tully J. Spray valve. 2,805,725, 9-10-57, Cl. 169-31.
- Bagby, Leland W., to Northrop Aircraft, Inc. Tow target. 2,795,778, 6-11-57, Cl. 340-228.
- Bagge, Spencer B. Wall construction. 2,795,305, 6-11-57, Cl. 189-34.
- Baggenstoss, Alois C.: See—
 Stanley, Lester N., and Baggenstoss. 2,809,189.
- Baggenstoss, Alois C., and L. N. Stanley, to General Aniline & Film Corp. Process of preparing lower alkyl substituted aminoazoanilines. 2,809,964, 10-15-57, Cl. 260-205.
- Baggett, Durward A., to The Dow Chemical Co. Solvent and process for separating acetylene from gas mixture. 2,794,516, 6-4-57, Cl. 183-115.
- Baggett, Joseph M.: See—
 Pruitt, Malcolm E., and Baggett. 2,811,491.
- Baggott, Edmund W., to Ideal Toy Corp. Walking dolls. 2,786,304, 3-26-57, Cl. 46-149.
- Baggott, Edmund W., to Ideal Toy Corp. Coupling. 2,799,970, 7-23-57, Cl. 46-149.
- Baggs, Burton D., Jr.: See—
 Smith, Alexander, and Baggs. 2,777,272.
- Bagley, Glen D., to Union Carbide and Carbon Corp. Rotary furnace. 2,778,716, 1-22-57, Cl. 23-279.
- Bagley, Glen D., to Union Carbide Corp. Furnace for heating reaction vessels. 2,809,026, 10-8-57, Cl. 263-40.
- Bagley, Paul C., T. F. McGivney, H. H. Bruhn, and E. H. Miller, to United States Borax & Chemical Corp. Method for scrubbing exhaust gases from diesel engines. 2,789,032, 4-16-57, Cl. 23-2.
- Bagno, Samuel M. Razor having plural cutting heads which are operated in opposite directions by a vibrator type of motor. 2,814,866, 12-3-57, Cl. 30-43.
- Bagno, Samuel M., and J. B. Cooper, to Walter Kidde & Co., Inc. Compensation for turbulence and other effects in intruder detection systems. 2,794,974, 6-4-57, Cl. 340-258.
- Bagshaw, Charles M., to United Shoe Machinery Corp. Fastener forming machines with means for preventing actuation of the feed length changing device during operation of the former. 2,780,051, 2-5-57, Cl. 59-75.
- Bagshaw, Roberts B.: See—
 Wilson, Rufus W., and Bagshaw. 2,788,240.
- Baguhn, Alfred H., to Allis-Chalmers Mfg. Co. Quiet operating quick-break mechanism for load tap changing transformer. 2,811,595, 10-29-57, Cl. 200-17.
- Bahlsen, Hans, to Marba Co. Baking oven. 2,784,686, 3-12-57, Cl. 107-57.
- Bahlsen, Werner. Baking machine. 2,812,729, 11-12-57, Cl. 107-57.
- Bahnson Co., The: See—
 King, James F., Jr. 2,807,053.
- Bahorik, Steve. Adjustable strike plate. 2,781,219, 2-12-57, Cl. 292-341.18.
- Bahr, Alfred. Steam trap. 2,781,173, 2-12-57, Cl. 236-59.
- Bahr, Gustave F., to The Bead Chain Mfg. Co. Fishing tackle connection. 2,814,086, 11-26-57, Cl. 24-236.
- Bahr, Helmut E., to No-Sag Spring Co. Clip for supporting the end of a spring strip. 2,784,772, 3-12-57, Cl. 155-179.
- Baier, Otto. Power-driven hand device to be used as a tool for multiple purposes. 2,775,898, 1-1-57, Cl. 74-22.
- Baier, Wilhelm, K. G.: See—
 Baader, Fritz-Henning, Friedl, and von Linde. 2,794,100.
- Baierlein, George, to Imperial Paper Box Corp. Pressure unit for box wrapping machines. 2,816,491, 12-17-57, Cl. 93-54.2.
- Baierlein, George, to Imperial Paper Box Corp. Form block for box covering machines. 2,816,492, 12-17-57, Cl. 93-59.
- Baigent, George M. Feeder and/or conveyor mechanisms. 2,776,037, 1-1-57, Cl. 198-30.
- Bail, Paul T., B. F. Grant, and S. Klosky, to the United States of America as represented by the Secretary of the Interior. Selective plugging of gas-injection oil wells in oil field gas-drive projects. 2,808,886, 10-8-57, Cl. 166-9.
- Baile, John H.: See—
 Stovall, George T. 2,808,072.
 Wortham, Carl A. 2,808,795.
- Bailer, Austin, to American Telephone and Telegraph Co. Self-oscillating double tone whistle. 2,777,251, 1-15-57, Cl. 46-179.
- Bailes, Elizabeth F.: See—
 Bailes, Ray E. and E. F. 2,815,167.
- Bailes, Forrest L. Hydraulic motor for a scrubbing machine. 2,781,745, 2-19-57, Cl. 121-164.
- Bailes, Ray E. and E. F. Door actuated signal for rural mail box. 2,815,167, 12-3-57, Cl. 232-35.
- Bailes, Richard H., R. S. Long, and R. R. Grinstead, to the United States of America as represented by the United States Atomic Energy Commission. Uranium recovery and purification process and production of high purity uranium tetrafluoride. 2,806,764, 9-17-57, Cl. 23-14.6.
- Bailey, Art. Golf ball retriever. 2,810,487, 10-22-57, Cl. 214-356.
- Bailey Co., Inc., The: See—
 Johnson, Leonard W. 2,792,936.
 Olson, Harold G. 2,809,728.
- Bailey, Donald L.: See—
 Mixer, Robert Y., and Bailey. 2,777,868.
- Bailey, Donald L., and R. Y. Mixer, to Union Carbide and Carbon Corp. Polymerization of vinylalkoxysilanes. 2,777,869, 1-15-57, Cl. 260-448.2.
- Bailey, Donald L., and E. R. York, to Union Carbide Corp. Method of preparing cyclic polysiloxanes from dichlorosilane. 2,810,628, 10-22-57, Cl. 23-203.
- Bailey, Donald S., to Lockheed Aircraft Corp. Method of forming a mechanical and electrical connection. 2,779,998, 2-5-57, Cl. 29-470.3.
- Bailey, Edward W. Spherical internal combustion turbine. 2,777,290, 1-15-57, Cl. 60-39.35.
- Bailey, Floyd H. Garment hanger. 2,808,187, 10-1-57, Cl. 223-89.
- Bailey, Forrest C. Waterproof sheet and tie and masonry wall waterproofed therewith. 2,791,117, 5-7-57, Cl. 72-127.
- Bailey, Francis T.: See—
 Hartwig, Edward C., and Bailey. 2,809,297.
- Bailey, Fred D., to Cluett Peabody & Co., Inc. Control for button sewing machine. 2,799,235, 7-16-57, Cl. 112-67.
- Bailey, Fred S., to American Machine and Metals, Inc. Adjustment for poultry house thermostats, and the like. 2,783,335, 2-26-57, Cl. 200-140.
- Bailey, Harry J. Headlight with fog lens attachment. 2,781,680, 5-7-57, Cl. 240-46.59.
- Bailey, James, to Plax Corp. Method of making plastic bottles. 2,810,934, 10-29-57, Cl. 18-55.
- Bailey, John H. Muffler. 2,784,797, 3-12-57, Cl. 181-47.
- Bailey, John H., to J. Martell. Sprinkler head assembly and valve. 2,805,099, 9-3-57, Cl. 299-60.
- Bailey, Julian C., to I. M. Leonard, Sr. Automatic poultry feeder. 2,797,663, 7-2-57, Cl. 119-52.
- Bailey, Lloyd E., and H. B. Wood. Oil well pump valve. 2,807,277, 9-24-57, Cl. 137-242.
- Bailey Meter Co.: See—
 Gorrie, Harvard H. 2,776,669.
 Gorrie, Harvard H. 2,785,037.
 Green, Thomas A. 2,811,616.
 Green, Thomas A., Gorrie, Shannon, and Fink. 2,793,606.
 Hornfeck, Anthony J. 2,794,971.
 Johnson, Clarence. 2,777,349.
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 Markow, George R. 2,792,541.
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 Vollmer, Harden D., and Paulison. 2,790,429.
 Wade, Arthur L. 2,786,188.
- Bailey, Myron C.: See—
 Le Febvre, Alfred L., and Bailey. 2,798,230.
- Bailey, Paul C.: See—
 Van Deventer, Harry R., and Bailey. 2,793,250.
 Van Deventer, Harry R., Shively, and Bailey. 2,799,726.
 Van Deventer, Harry R., Shively, and Bailey. 2,800,530.
- Bailey, Preston F., J. H. Schneider, and J. A. Richard, to Mine Safety Appliances Co. Helmet with eyeshield. 2,798,221, 7-9-57, Cl. 2-6.
- Bailey, Roy W., and J. T. Faull, to Detroit Power Screw-driver Co. Selective feeding means. 2,798,585, 7-9-57, Cl. 198-33.
- Bailey, Rufus M. Pigling feed trough. 2,789,537, 4-23-57, Cl. 119-61.
- Bailey, Sara E.: See—
 Kaufman, David, and Bailey. 2,780,519.
- Bailey, Thomas W.: See—
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- Bailey, Vivian P. Traffic signal. 2,807,984, 10-1-57, Cl. 88-80.
- Bailey, William H.: See—
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- Baillif, Ernest A., to Whirlpool-Seeger Corp. Household refrigerator assembly. 2,797,553, 7-2-57, Cl. 62-117.4.
- Bain Corp.: See—
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- Bain, Joseph P., and W. Y. Gary, to The Glidden Co. Hydrogenation of conjugated terpenes. 2,785,208, 3-12-57, Cl. 260-666.
- Bain, Joseph P., A. B. Booth, and E. A. Klein, to The Glidden Co. Preparation of carveol and dihydrocarveol and their esters. 2,803,647, 8-20-57, Cl. 260-489.
- Bain, Joseph P., and W. Y. Gary, to The Glidden Co. Preparation of verbenyl compounds from 3-pinene-2-ol. 2,818,427, 12-31-57, Cl. 260-489.
- Bain, Joseph P., E. A. Klein, H. G. Hunt, and A. B. Booth, to The Glidden Co. Monocyclic terpene alcohols from verbenol and the process of their oxidization. 2,818,435, 12-31-57, Cl. 260-587.
- Bain, William J. Flange beveling apparatus. 2,805,057, 9-3-57, Cl. 266-23.

- Bainbridge, Fetherstone, to Huwood Mining Machinery Ltd. Composite rollers, pulleys and the like. 2,779,639, 1-29-57, Cl. 308—187.1.
- Bainbridge, John P., Jr., and E. S. Blake, to Monsanto Chemical Co. Paper products and manufacture thereof. 2,778,749, 1-22-57, Cl. 117—154.
- Baines, Leslie, and L. S. Barnish, to Richard Sutcliffe Ltd. Hydraulic apparatus. 2,811,143, 10-29-57, Cl. 121—121.
- Bair, Edward J.: See—
- Sullivan, Francis J., Bair, and Allen. 2,797,081.
- Bair, Floyd M. Load equalizing trailer hitch. 2,793,879, 5-28-57, Cl. 280—406.
- Bair, Harry P., 50% to R. I. Bair. Combined stepladder. Re. 24,282, 2-26-57, Cl. 228—29.
- Bair, Richard H., ½ to L. and W. Goldstein. Liquid separating ladle. 2,795,119, 6-11-57, Cl. 65—28.
- Bair, Roger I.: See—
- Bair, Harry P. Re. 24,282.
- Bair, Stanley G.: See—
- Diggins, Bartholomew A. 2,812,223.
- Baird Associates, Inc.: See—
- Mertz, Lawrence N. 2,815,452.
- Williamson, Donald E. 2,788,708.
- Baird, Beno H., to Atlas Metal Works. Control means for vending mechanisms. 2,799,173, 7-16-57, Cl. 74—152.
- Baird, Clyde W., to Curtiss-Wright Corp. Detector for misalignment of rotating body. 2,805,677, 9-10-57, Cl. 137—31.
- Baird, Earl L. Semi-collapsible camping shelter. 2,788,238, 4-9-57, Cl. 296—23.
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- Bairreuther, Edward J. Film holders. 2,803,077, 8-20-57, Cl. 40—152.
- Baizer, Manuel M.: See—
- Swidinsky, John, and Baizer. 2,785,162.
- Swidinsky, John, and Baizer. 2,785,163.
- Baker, Adolph A., Jr., to General Dynamics Corp. Inter-communication system. 2,802,900, 8-13-57, Cl. 179—1.
- Baker, Albert A., to J. A. Zurn Mfg. Co. Enclosed unitary plumbing fitting assembly. 2,787,027, 4-2-57, Cl. 20—1.11.
- Baker, Albert A., and H. L. Rhoades, Jr., to J. A. Zurn Mfg. Co. Closure unit. 2,801,023, 7-30-57, Cl. 220—39.
- Baker, Albert A., and H. L. Rhoades, Jr., to Zurn Industries, Inc. Wiping ferrule. 2,810,918, 10-29-57, Cl. 4—252.
- Baker, Albert B.: See—
- McIlhenny, William F., Baker, and Clarke. 2,814,399.
- Baker, Albert D., and W. E. Brown, to General Motors Corp. Indicator switch. 2,798,906, 7-9-57, Cl. 200—11.
- Baker, Allister L.: See—
- Keuffel, Carl W., Hillman, and Baker. 2,784,641.
- Baker, Ambrose D.: See—
- Young, Earle A., Baker, and Canaday. 2,784,251.
- Baker, Arthur L., to Vadco Products, Inc. Multi-purpose container and support. 2,800,380, 7-23-57, Cl. 312—245.
- Baker, Benjamin F., W. S. Aspey, and E. Frisch, to Westinghouse Electric Corp. Circuit breaker blast valve mechanism. 2,788,191, 4-9-47, Cl. 251—35.
- Baker, Benjamin F., and W. M. Leeds, to Westinghouse Electric Corp. Circuit interrupters. 2,806,111, 9-10-57, Cl. 200—150.
- Baker, Benjamin P., C. F. Cromer, and J. Sucha, to Westinghouse Electric Corp. Circuit interrupters. 2,809,259, 10-8-57, Cl. 200—145.
- Baker, Bernard E., to American Cyanamid Co. 3-[Beta-ketogamma-(1,4,5,6-tetrahydro-2-pyridyl)propyl]-4-quinazoline compounds and methods of making the same. 2,811,524, 10-29-57, Cl. 260—256.4.
- Baker, Bernard E., and M. V. Querry, to American Cyanamid Co. Quinazoline compounds and methods of making the same. 2,796,417, 6-18-57, Cl. 260—256.4.
- Baker Brothers, Inc.: See—
- Hallenbeck, Thomas L., and Ninneman. 2,781,546.
- Baker, Buford M.: See—
- Carle, Guy F., and Baker. 2,783,971.
- Baker, Buford M., to Texas Instruments Inc. Horizontal seismometer. 2,792,562, 5-14-57, Cl. 340—17.
- Baker-Carr, Edgar D. S., and J. L. Winfield, to Glaxo Laboratories Ltd. Sealing of bottles, vials and the like. 2,799,981, 7-23-57, Cl. 53—39.
- Baker-Castor Oil Co., The: See—
- Daidone, Philip C. 2,790,824.
- Patton, Temple C., and Hall. 2,794,791.
- Smith, Malcolm K. 2,801,220.
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- Sprowls, Willard R. 2,782,214.
- Baker, Charles H., and J. J. Mikos, to S & C Electric Co. Bayonet type circuit interrupter. 2,813,952, 11-19-57, Cl. 200—127.
- Baker, Charles T., to International Business Machines Corp. Protection circuit for series tube regulation system. 2,782,361, 2-19-57, Cl. 323—22.
- Baker, Charles T., Jr., to the United States of America as represented by the Secretary of the Army. Sector sweep circuit. 2,797,412, 6-25-57, Cl. 343—11.
- Baker, Charles T., Jr., to the United States of America as represented by the Secretary of the Army. Moving target indicator radar. 2,811,715, 10-29-57, Cl. 343—7.7.
- Baker, Clarence P. Screw driver. 2,792,861, 5-21-57, Cl. 145—50.
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- Ward, Michael J., Baker, and Wood. 2,801,028.
- Baker & Co., Inc.: See—
- Keitel, William. 2,798,210.
- Keitel, William, and Stumbock. 2,796,495.
- Klausmann, Harry. 2,803,925.
- Schneider, Julius F., and Sivil. 2,780,543.
- Stumbock, Max J. 2,793,423.
- Stumbock, Max J. 2,796,346.
- Underwood, Kenneth C., and Johnson. 2,793,273.
- Baker, Craig C.: See—
- Satre, Leland H., and Baker. 2,786,385.
- Baker, Dale J. Electric curb feeler. 2,808,480, 10-1-57, Cl. 200—61.44.
- Baker, David B.: See—
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- Baker, David B. Bag support. 2,784,749, 3-12-57, Cl. 141—314.
- Baker, David S. Apparatus for tempering material. 2,779,102, 1-29-57, Cl. 34—60.
- Baker, Edwin A. Board and card game apparatus. 2,806,702, 9-17-57, Cl. 273—130.
- Baker, Earnest N., to Fred D. Baker. Adjustable gunstock. 2,790,262, 4-30-57, Cl. 42—73.
- Baker, Elvin E., to George P. Filling & Son Co. Endoscope. 2,779,327, 1-29-57, Cl. 128—6.
- Baker, Floyd A.: See—
- Timmel, Frederick G., and Baker. 2,802,119.
- Baker, Frank A.: See—
- Kolb, William B., and Baker. 2,791,190.
- Baker, Fred D.: See—
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- Baker, George T., to British Telecommunications Research Ltd. Electrical signalling systems. 2,805,286, 9-3-57, Cl. 179—18.
- Baker, George T., deceased, and W. Bezdell, to British Telecommunications Research Ltd. Electric counting circuits. 2,805,363, 9-3-57, Cl. 315—84.5.
- Baker, George W., to United States Gypsum Co. Laminated partition. 2,815,542, 12-10-57, Cl. 20—4.
- Baker, Harold T.: See—
- Hunter, Edward A., and Baker. 2,804,482.
- Baker, Harold W., Jr., to L. E. Jones Corp. Casket closure device. 2,787,487, 4-2-57, Cl. 292—4.
- Baker, Giles A., to Pyro Plastics Corp. Rotatable calendar stand. 2,782,539, 2-26-57, Cl. 40—111.
- Baker, Giles A., to Pyro Plastics Corp. Card display device. 2,796,667, 6-25-57, Cl. 33—75.
- Baker, Henry E. Inflated marker. 2,800,099, 7-23-57, Cl. 116—63.
- Baker, J. T., Chemical Co.: See—
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- Baker, Jack M., to General Electric Co. Governing mechanism for extraction type steam turbine. 2,813,400, 11-19-57, Cl. 60—67.
- Baker, Jess F. Lifting mechanism. 2,816,675, 12-17-57, Cl. 214—390.
- Baker, John G., and L. C. Tullis, to Baker Mfg. Co. Extendible mast joint. 2,791,453, 5-7-57, Cl. 287—58.
- Baker, John J., and W. G. Benjey. Fluid conductor and take-off. 2,798,506, 7-9-57, Cl. 137—580.
- Baker, John M., to The American Pulley Co. Caster mounting. 2,799,041, 7-16-57, Cl. 16—40.
- Baker, John R., to Baker Oil Tools, Inc. Scratchers for well bores. 2,802,536, 8-13-57, Cl. 166—173.
- Baker, Joseph C. Rotary pilot protractor. 2,803,881, 8-27-57, Cl. 33—75.
- Baker, Joseph J.: See—
- Moore, Raymond L., Markley, and Baker. 2,804,367.
- Baker, Kenneth L.: See—
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- Baker, Kenneth L., to the United States of America as represented by the Secretary of the Navy. Delay arming, self destroying and point detonating fuze device. 2,790,390, 4-30-57, Cl. 102—71.
- Baker, Lloyd B. Bottle cap remover. 2,781,142, 2-12-57, Cl. 215—46.
- Baker, Louis. Nylon glide strip. 2,815,252, 12-3-57, Cl. 308—3.6.
- Baker, Lynn E., and F. P. Ball. Game board apparatus. 2,794,641, 6-4-57, Cl. 273—130.
- Baker Mfg. Co.: See—
- Baker, John G., and Tullis. 2,791,453.
- Ellis, Kenneth A. 2,812,720.
- Baker, Marie L.: See—
- Pollock, Edith N. S., and Baker. 2,778,362.
- Baker, Marshall W., to General Motors Corp. Ice making apparatus. 2,784,563, 3-12-57, Cl. 62—7.
- Baker, Marshall W., to General Motors Corp. Expansion valve control. 2,807,151, 9-24-57, Cl. 62—8.
- Baker, Marshall W., C. F. Henney, and H. C. Johnston, to General Motors Corp. Automobile refrigerating apparatus. 2,779,162, 1-29-57, Cl. 62—4.
- Baker, Marvin A., to General Electric Co. Brush holder assembly. 2,802,960, 8-13-57, Cl. 310—246.
- Baker, Max P., and F. W. Sampson, to General Motors Corp. Torque transmitting device. 2,800,777, 7-30-57, Cl. 64—14.

- Baker Oil Tools, Inc.:** See—
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Baker, Reuben C. 2,785,758.
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Baker, Reuben C. 2,802,533.
Baker, Reuben C. 2,810,441.
Baker, Reuben C. 2,815,816.
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Baker, Reuben C., and Conrad. 2,781,774.
Baker, Reuben C., and Conrad. 2,799,346.
Baker, Reuben C., and Conrad. 2,806,532.
Baker, Reuben C., and Conrad. 2,806,536.
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Clark, Earnest H., Jr. 2,791,279.
Clark, Earnest H., Jr. 2,799,349.
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Conrad, Martin B. 2,799,350.
Conrad, Martin B. 2,802,534.
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- Baker Perkins Inc.:** See—
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- Baker-Raulang Co., The.:** See—
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- Baker, Rest R.** to Westinghouse Electric Corp. Motor control system. 2,785,354, 3-12-57, Cl. 318-76.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Apparatus for lowering and elevating tools in well bores. 2,776,012, 1-1-57, Cl. 166-123.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Retrievable well apparatus. 2,778,430, 1-22-57, Cl. 166-139.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Apparatus for anchoring tubing strings in well bore conduits. 2,785,758, 3-19-57, Cl. 166-212.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Tubing tester and well packer apparatus. 2,799,345, 7-16-57, Cl. 166-133.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Well tool apparatus. 2,802,533, 8-13-57, Cl. 166-124.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Apparatus for testing tubing and for setting subsurface well devices. 2,810,441, 10-22-57, Cl. 166-124.
- Baker, Reuben C.** to Baker Oil Tools, Inc. Automatically relieved gas pressure well apparatus. 2,815,816, 12-10-57, Cl. 166-63.
- Baker, Reuben C., and M. B. Conrad.** to Baker Oil Tools, Inc. Releaseable apparatus for retrieving subsurface well devices. 2,778,428, 1-22-57, Cl. 166-125.
- Baker, Reuben C., and M. B. Conrad.** to Baker Oil Tools, Inc. Valve apparatus for automatically filling well conduits. 2,781,774, 2-19-57, Cl. 137-493.2.
- Baker, Reuben C., and T. M. Ragan.** to Baker Oil Tools, Inc. Method for producing well casing centering equipment. 2,799,085, 7-16-57, Cl. 29-468.
- Baker, Reuben C., and M. B. Conrad.** to Baker Oil Tools, Inc. Retrievable bridge plug. 2,799,346, 7-16-57, Cl. 166-135.
- Baker, Reuben C., and M. B. Conrad.** to Baker Oil Tools, Inc. Method and apparatus for pressuring well bores. 2,806,532, 9-17-57, Cl. 166-42.
- Baker, Reuben C., and M. B. Conrad.** to Baker Oil Tools, Inc. Well packer. 2,806,536, 9-17-57, Cl. 166-123.
- Baker, Richard E.:** See—
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- Baker, Robert:** See—
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- Baker, Stephen C.** Distributor construction. 2,791,649, 5-7-57, Cl. 200-30.
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- Baker, William E., to Standard-Thomson Corp.** Actuating device having guided supports with a flexible member. 2,781,784, 2-19-57, Cl. 137-789.
- Baker, William H., to W. H. Green.** Mushroom trimming machines. 2,806,498, 9-17-57, Cl. 146-81.
- Baker, William O., to the United States of America as represented by the Secretary of the Navy.** Smokeless powder grains and method of making same. 2,780,997, 2-12-57, Cl. 102-98.
- Baker, William R., to the United States of America as represented by the United States Atomic Energy Commission.** Regulated power supply. 2,783,433, 2-26-57, Cl. 323-22.
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- Bakewell, Sidney.** Mixing machine. 2,784,950, 3-12-57, Cl. 259-105.
- Bakewell, Sidney.** Mixing machine. 2,784,951, 3-12-57, Cl. 259-105.
- Bakke, Laurence D., and P. Altman,** to Continental Motors Corp. Recoil starters. 2,799,265, 7-16-57, Cl. 123-185.
- Bakker, Pier,** to General Telephone Laboratories, Inc. Circuits for rotary selector and connector switches. 2,790,031, 4-23-57, Cl. 179-18.
- Bakker, Pier,** to General Telephone Laboratories, Inc. P. A. B. X. selector-connector switch. 2,791,635, 5-7-57, Cl. 179-18.
- Bakker, Willem,** to American Enka Corp. Bobbin winding machine. 2,811,319, 10-29-57, Cl. 242-35.5.
- Bakos, György,** to Hartford National Bank and Trust Co., as trustee. Alternating-current motor. 2,782,352, 2-19-57, Cl. 318-173.
- Bakula, Walter M.** Safety teeter-totters. 2,784,968, 3-12-57, Cl. 272-54.
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- Balash, Edward J., and K. E. Farr,** to Westinghouse Electric Corp. Ultrahigh-frequency tuner. 2,795,699, 6-11-57, Cl. 250-40.
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- Balassa, Leslie L.** Mixing device. 2,801,083, 7-30-57, Cl. 259-8.
- Balaz, Charles S.:** See—
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- Baldassarre, Anthony J.:** See—
Clarke, William E., Baldassarre, and Yut. 2,786,564.
Clarke, William E., Baldassarre, and Yut. 2,809,769.
- Baldé, Ulysse,** to Methra-A-G. Electronic impulse counting devices. 2,778,952, 1-22-57, Cl. 250-217.
- Balde, Ulysse,** to Methra-A-G. Generation of electrical impulses controlled by a perforated carrier. 2,809,785, 10-15-57, Cl. 235-61.11.
- Baldi, Alfonso L., Jr.:** See—
Schuster, Ludwig K., and Baldi. 2,777,785.
- Baldino, Louis R.:** See—
Raska, Edward J., and Baldino. 2,799,542.
- Baldock, George S.:** See—
Whitmore, Edward J., and Baldock. 2,777,972.
- Baldrige, James D.** Game stringer. 2,794,582, 6-4-57, Cl. 224-7.
- Baldrige, Walter M., and K. R. Davison.** Power operated unloading apparatus for truck bodies. 2,781,925, 2-19-57, Cl. 214-82.
- Balduman, Agapito P.** Impulse motored sounding ornaments. 2,817,080, 12-17-57, Cl. 340-392.
- Baldwin, Arthur R., L. K. Blatter, and D. M. Gallagher,** to Corn Products Refining Co. Preparation of phytic acid. 2,815,360, 12-3-57, Cl. 260-461.
- Baldwin, David E., and R. H. Runk,** to Westinghouse Electric Corp. Resinous compositions and fire-resistant laminates prepared therefrom. 2,801,672, 8-6-57, Cl. 154-2.6.
- Baldwin, Earl M., Jr., and J. E. Christ.** Apparatus for capping vacuum bottles. 2,792,678, 5-21-57, Cl. 53-101.
- Baldwin, Edwin G., to Bell Telephone Laboratories, Inc.** Multielectrode semiconductor circuit element. 2,776,381, 1-1-57, Cl. 307-88.5.
- Baldwin, Ewart M., to Hughes Aircraft Co.** Fused-junction semiconductor photocells. 2,788,381, 4-9-57, Cl. 136-4.
- Baldwin, Ewart M., to Hughes Aircraft Co.** Electronic data translating system. 2,817,480, 12-24-57, Cl. 235-61.7.
- Baldwin, Francis P.:** See—
Sparks, William J., Baldwin, and Newberg. 2,791,326.
Sparks, William J., Baldwin, and Newberg. 2,791,327.

- Baldwin, Francis P., and T. H. Hakala, to Esso Research and Engineering Co. Reduction of acid foaming in ethanol synthesis. 2,808,378, 10-1-57, Cl. 252-321.
- Baldwin, George C., to General Electric Co. Radiation sources in charged particle accelerators. 2,803,767, 8-20-57, Cl. 313-62.
- Baldwin, James F., and R. O. Sheets, to Coast Metals, Inc. Cobalt-base alloys. 2,801,165, 7-30-57, Cl. 75-134.
- Baldwin-Lima-Hamilton Corp.: See—
- Albers, Heinrich B. 2,791,138.
- Albers, Heinrich B. 2,809,542.
- Antos, Joseph, and Brown. 2,787,383.
- Bacchi, Ray. 2,780,063.
- Cozzo, Giuseppe. 2,792,730.
- Govan, William L. 2,780,092.
- Hines, Frank F. 2,775,887.
- Krause, Gerhard P. 2,778,495.
- Lathrop, Robert P., and Hyde. 2,775,886.
- Parker, Earl R., and Potter. 2,801,193.
- Phillips, Adrian. 2,781,905.
- Rued, Fred H. 2,782,768.
- Ruge, Arthur C. 2,793,851.
- Ruge, Arthur C. 2,801,388.
- Ruge, Arthur C. 2,815,480.
- Terhune, Howard. 2,807,177.
- Willi, Richard B. 2,776,107.
- Willi, Richard B. 2,776,573.
- Willi, Richard B. 2,810,929.
- Zeitzlin, Alexander. 2,809,543.
- Baldwin, Maynard M., to Olin Mathieson Chemical Corp. Method of oxidizing olefins. 2,776,316, 1-1-57, Cl. 260-604.
- Baldwin, Philip S., $\frac{1}{2}$ to Fiat Societa per Azioni. Master cylinder. 2,805,551, 9-10-57, Cl. 60-54.6.
- Baldwin, Philip S., $\frac{1}{2}$ to Fiat Societa per Azioni. Master cylinder for hydraulic brake systems. 2,808,703, 10-8-57, Cl. 60-54.6.
- Baldwin Piano Co., The: See—
- Bissonette, Alfred J., Jr. 24,379.
- Bissonette, Alfred J., and Elbrecht. 2,785,238.
- Jones, Edward M. 2,801,342.
- Machalek, Ferdinand T. 2,806,398.
- Martin, Daniel W. 2,801,703.
- Martin, Daniel W. 2,801,704.
- Baldwin, Stephen P., and G. A. Wood, Jr., to Arthur D. Little, Inc. Unidirectional hand tool. 2,792,094, 5-14-57, Cl. 192-43.
- Baldwin, Vincent C.: See—
- Pick, Joseph R., and Lasinski. 2,806,564.
- Baldy, Maurice P.: See—
- Mittelstadt, Clarence F., Peters, and Baldy. 2,793,013.
- Bales, Max G., to General Motors Corp. Ignition distributor and coil unit. 2,782,247, 2-19-57, Cl. 123-148.
- Bales, Russell C.: See—
- Holmes, Roland E., and Bales. 2,775,857.
- Balint, Anthony T. Magnetic transformer apparatus. 2,811,689, 10-29-57, Cl. 323-48.
- Balint, Joseph, Sr., to United States Steel Corp. Performing head for wire stranding machine. 2,811,010, 10-29-57, Cl. 57-9.
- Baljak Corp.: See—
- Lefief, Frank M. 2,805,060.
- Stenger, Richard C. 2,785,845.
- Balkan, Samuel A., to Polaroid Corp. Method of stretching plastic materials. 2,804,652, 9-3-57, Cl. 18-48.
- Balke, Claire C., and W. S. Graff, to the United States of America as represented by the Secretary of the Army. Pyrophoric element. 2,801,590, 8-6-57, Cl. 102-90.
- Balke, Roy L., to General Electric Co. Slot liner-closer for dynamoelectric machine core member. 2,778,964, 1-22-57, Cl. 310-214.
- Balko, Harlan B.: See—
- Balko, Norman G., V. A., H. W., and H. B. 2,799,416.
- Balko, Henry W.: See—
- Balko, Norman G., V. A., H. W., and H. B. 2,799,416.
- Balko, John H.: See—
- Childs, Emory S., and Balko. 2,799,964.
- Balko, Norman G., V. A., H. W., and H. B. Boat trailer. 2,799,416, 7-16-57, Cl. 214-506.
- Balko, Verlie A.: See—
- Balko, Norman G., V. A., H. W., and H. B. 2,799,416.
- Ball, Albert L., to Bay State Abrasive Products Co. Flexible abrasive bands. 2,778,169, 1-22-57, Cl. 51-188.
- Ball Brothers Co., Inc.: See—
- McFarlane, James W. 2,778,519.
- Ball, Charles A., Jr., to Cherry Electrical Products Corp. Electric switches. 2,810,030, 10-15-57, Cl. 200-67.
- Ball, Charles F., to Joy Mfg. Co. Mining and loading machine with upper and lower relatively movable disintegrating head portions. 2,777,681, 1-15-57, Cl. 262-9.
- Ball, Charles F., to Joy Manufacturing Co. Continuous mining apparatus of the pivoted boom type. 2,798,712, 7-9-57, Cl. 262-29.
- Ball, Charles F., to Joy Mfg. Co. Adjusting mechanism for boring arms of a rotary boring head. 2,801,094, 7-30-57, Cl. 262-26.
- Ball, Charles F., to Joy Mfg. Co. Vein disintegrating and material handling apparatus. 2,801,095, 7-30-57, Cl. 262-29.
- Ball, Charles F., to Joy Mfg. Co. Fluid motor driven shaker conveyor. 2,802,336, 8-13-57, Cl. 60-51.
- Ball, Charles F., to Joy Mfg. Co. Apparatus for controlling the transmission of torque. 2,810,304, 10-22-57, Cl. 74-789.
- Ball, Charles F., to Joy Mfg. Co. Cable pull assist for self-propelled long-wall miner. 2,816,747, 12-17-57, Cl. 262-9.
- Ball, Charles O., and R. Baker, to The United Products Co. Food sterilization processes. 2,789,058, 4-16-57, Cl. 99-186.
- Ball, Francis M. Shingles. 2,811,118, 10-29-57, Cl. 108-17.
- Ball, Frank J., to West Virginia Pulp and Paper Co. Coagulation of lignin by freezing. 2,813,090, 11-12-57, Cl. 260-124.
- Ball, Frank P.: See—
- Baker, Lynn E., and Ball. 2,794,641.
- Ball, Fred M.: See—
- Coney, Charles H., and Ball. 2,787,559.
- Ball, Frederick S.: See—
- Palmgren, Per G., Ball, Johansson, and Haley. 2,783,102.
- Ball, Jack, and J. J. Russell, to Picker X-Ray Corp. Waite Mfg. Division, Inc. Photo timer. 2,796,528, 6-18-57, Cl. 250-95.
- Ball, Jack, and J. J. Russell, to Picker X-ray Corp. Waite Mfg. Division, Inc. Photo timer. 2,810,078, 10-15-57, Cl. 250-95.
- Ball, John D., to Esso Research and Engineering Co. Electrical borehole surveying device. 2,806,295, 9-17-57, Cl. 33-205.5.
- Ball, Leslie C.: See—
- Weijer, Berend, Draijer, and Ball. 2,802,923.
- Ball, Raymond M., Jr.: See—
- Sheffield, Berthold, and Ball. 2,806,944.
- Ball, Reginald D.: See—
- Corbett, James P., Sutton, and Ball. 2,807,763.
- Ball, Sanford W. Shock absorbing support for lamp shades. 2,808,503, 10-1-57, Cl. 240-148.
- Ball, W. D.: See—
- Avra, Elmer L. 2,777,258.
- Ball, Wayne H.: See—
- Buck, Robert J., and Ball. 2,797,269.
- Ballantine, James S. Apparatus and process for melting material of high melting point. 2,814,560, 11-26-57, Cl. 75-84.
- Ballantine Laboratories, Inc.: See—
- Sauber, James W. 2,810,107.
- Ballantine, P., & Sons: See—
- Macaluso, Henry. 2,785,785.
- Ballantyne, David H., D. O. Davies, and D. E. Bowns, to Rolls-Royce Ltd. Pump arrangements for gas-turbine engine fuel systems. 2,813,394, 11-19-57, Cl. 60-35.6.
- Ballard, Albert E., to the United States of America as represented by the United States Atomic Energy Commission. Recovery of uranium from wash liquids. 2,779,657, 1-29-57, Cl. 23-14.5.
- Ballard, Edwin L. Grain bagging device. 2,799,301, 7-16-57, Cl. 141-317.
- Ballard, Hyde W.: See—
- Meissner, William E., and Ballard. 2,782,695.
- Ballard, Hyde W., to James Lees and Sons Co. Industrial apparatus and method. 2,797,711, 7-2-57, Cl. 139-36.
- Ballard, James W.: See—
- Ostrofsky, Bernard, and Ballard. 2,790,731.
- Ostrofsky, Bernard, and Ballard. 2,793,140.
- Ostrofsky, Bernard, and Ballard. 2,815,302.
- Ballard, James W., and M. M. Moorhead, Jr., to The Commonwealth Engineering Co. of Ohio. Magnetic and a photoelectric system for replacing metallic make and break contacts in automobile ignition systems. 2,787,649, 4-2-57, Cl. 123-148.
- Ballard, John H.: See—
- Berg, Clyde H. O., Vaell, and Ballard. 2,809,922.
- Ballard, Louis M., to Wayne Mfg. Co. Rotary brushes. 2,782,439, 2-26-57, Cl. 15-182.
- Ballard, Louis M., to Wayne Mfg. Co. Methods for forming rotary brushes. 2,783,095, 2-26-57, Cl. 300-21.
- Ballard, Robert L., and D. C. Burch, to Essex Wire Corp. Soldering flux. 2,788,303, 4-9-47, Cl. 148-23.
- Ballard, Seaver A.: See—
- Finch, Harry deV., and Ballard. 2,806,057.
- Ballard, Wiley P., S. P. Dickens, and B. F. Smith, to The Texas Co. Desorption of straight chain hydrocarbons from selective adsorbents. 2,818,455, 12-31-57, Cl. 260-676.
- Ballato, Joseph J., to Norton Co. Coated abrasive segment and wheel containing the same. 2,816,402, 12-17-57, Cl. 51-193.
- Ballentine, Richard E., to Westinghouse Electric Corp. Extruded phosphorus-silver-copper brazing alloys. 2,795,520, 6-11-57, Cl. 148-32.
- Ballentine, William I., Jr., and H. C. Brest, to United States Steel Corp. Traveling apparatus for welding horizontal joints between vertically disposed plates. 2,781,441, 2-12-57, Cl. 219-126.
- Baller, Maurice H., R. K. Bole, and H. Stone, to the United States of America as represented by the Secretary of the Navy. Intervalometer. 2,794,079, 5-28-57, Cl. 200-5.
- Ballerait, Marcel E., to Les Vehicules Guides Sur Pneumatiques. Control system for regulating the speed of vehicles. 2,803,743, 8-20-57, Cl. 246-182.
- Ballert, Otto, to Torkret Gesellschaft mit beschränkter Haftung. Piston pumps. 2,796,032, 6-18-57, Cl. 103-153.

- Ballesteros, Daniel, Automatic signal for parking lots. 2,784,692, 3-12-57, Cl. 116-28.
- Ballhausen, Carl, to Deutsche Edelstahlwerke Aktiengesellschaft, Hard-metal containing mixtures and processes of applying them to supporting bodies and supporting bodies so treated. 2,798,474, 7-9-57, Cl. 125-18.
- Ballhausen, Carl, and H. Schoelkens, to Deutsche Edelstahlwerke Aktiengesellschaft, Sintered hard metals. 2,791,025, 5-7-57, Cl. 29-182.7.
- Ballington, Bernard T., to English Steel Corp. Ltd. Electrode holders for hand-welding. 2,780,719, 2-5-57, Cl. 219-138.
- Ballou, Harry G., to Superior Concrete Accessories, Inc. Lag screw anchoring insert for a concrete slab. 2,794,336, 6-4-57, Cl. 72-105.
- Ballou, James K.: See—
Hoffman, John D., and Ballou. 2,813,598.
- Ballou, Richard P., to Federal Electric Products Co. Circuit breaker service equipment. 2,786,162, 3-19-57, Cl. 317-119.
- Ballweber, Edward G.: See—
Molotsky, Hyman M., and Ballweber. 2,795,608.
Molotsky, Hyman M., and Ballweber. 2,807,579.
- Balmer, Donald F., and R. C. Burns, to The Soundscribe Corp. Centralized remote control apparatus for dictation. 2,786,101, 3-19-57, Cl. 179-100.1.
- Balmer, Ralph M. Lawn mower grinding apparatus. 2,787,099, 4-2-57, Cl. 51-232.
- Balmes Solanas, Ramón, to Estrajes Balmes, S. A. Drawing mechanism for textile machines. 2,798,259, 7-9-57, Cl. 19-130.
- Balmforth, John C.: See—
Harthman, Francis P., Harwood, and Balmforth. 2,804,601.
- Balogh, Ferenc, and K. Ramaszeder, to "Licencia" Talalmanyokot Ertekesito Vallalat. Apparatus for testing the wear resistance of textile yarns. 2,788,655, 4-16-57, Cl. 73-7.
- Balogh, Roy O., to McCabe-Powers Auto Body Co. Ladder-supported work platforms. 2,777,737, 1-15-57, Cl. 304-29.
- Balogh, Roy O., to McCabe-Powers Auto Body Co. Portable derricks. 2,786,580, 3-26-57, Cl. 212-8.
- Balogh, Roy O., to McCabe-Powers Auto Body Co. Portable derricks. 2,786,581, 3-26-57, Cl. 212-8.
- Balon, Walter J., to E. I. du Pont de Nemours and Co. Trifunctional isocyanate trimers. 2,801,244, 7-30-57, Cl. 260-248.
- Balsam, Maurice M. Apparatus for driving a tool through a predetermined stroke. 2,797,584, 7-2-57, Cl. 74-42.
- Balsiger, Harold E.: See—
Jones, Alvin J., and Balsiger. 2,782,565.
Jones, Alvin J., and Balsiger. 2,799,977.
- Balsiger, Harold E., to Landis Tool Co. Work feeding device. 2,782,573, 2-26-57, Cl. 51-215.
- Balsiger, Harold E., to Landis Tool Co. Auto radial profile dresser. 2,782,778, 2-26-57, Cl. 125-11.
- Balsiger, Harold E., to Landis Tool Co. Turbine blade model grinder. 2,787,870, 4-9-47, Cl. 51-101.
- Balsiger, Harold E., to Landis Tool Co. Machine and method for grinding turbine blades and the like. 2,815,611, 12-10-57, Cl. 51-101.
- Balstad, Edward: See—
Eschenburg, William A., and Balstad. 2,808,084.
- Balthis, Joseph H., Jr., to E. I. du Pont de Nemours and Co. Hydrogenation of carbon monoxide over a molybdenum (III) oxyphosphate catalyst to normally solid, essentially hydrocarbon polymers. 2,795,561, 6-11-57, Cl. 260-2.
- Balthis, Joseph H., Jr., to E. I. du Pont de Nemours and Co. Hydrated molybdenum (III) phosphate and its preparation. 2,817,577, 12-24-57, Cl. 23-105.
- Baltimore Gas and Electric Co.: See—
Bechtel, Charles E., and Taylor. 2,789,268.
- Baltimore Paper Box Co., The: See—
Riley, Melvin A. 2,783,930.
- Baltimore Spice Co., The: See—
Meusel, Jerome A. 2,786,766.
- Baltrukonis, John H., W. G. Messenger, and B. A. Wheeler, to Hughes Aircraft Co. Center of weight distribution locator. 2,782,631, 2-26-57, Cl. 73-65.
- Baltrush, John J., Jr.: See—
Smith, Raymond E., and Baltrush. 2,809,631.
- Baly, Hal H. Steam generator. 2,785,271, 3-12-57, Cl. 219-38.
- Baly, Hal H. Steam generator. 2,785,272, 3-12-57, Cl. 219-38.
- Balz, Emil H., L. F. Ornella and J. D. Villwock, to L. O. F. Glass Fibers Co. Method of making a glass fiber reinforced resinous product. 2,798,020, 7-2-57, Cl. 154-90.
- Balzer, Joseph F.: See—
Pedersen, Edvard M., Leupe, and Balzer. 2,811,886.
- Balzer, Rudolf. Needle threading device. 2,777,623, 1-15-57, Cl. 223-99.
- Bamat, Joseph, to Amida S. A. Dial train for Roskopf type watches. 2,781,630, 2-19-57, Cl. 58-125.
- Bambi, Harry J. Multiple classifier vibrating screen. 2,783,698, 3-5-57, Cl. 97-10.
- Bamford, Robert M. Laterally shiftable wheel mounting structure for automobiles. 2,776,147, 1-1-57, Cl. 280-124.
- Bammesberger, Karl: See—
Kaden, Willy, and Bammesberger. 2,789,528.
- Bammesberger, Karl, and W. Kaden, to AFGA Camera-Werk Aktiengesellschaft. Roll film camera adjustment mechanism. 2,791,163, 5-7-57, Cl. 95-31.
- Ban, Mamoru, and F. Ida, $\frac{1}{2}$ to Taoka Dyestuff Mfg. Co., Ltd., and $\frac{1}{2}$ to S. Taoka. Production of acetaldehyde from acetylene. 2,791,614, 5-7-57, Cl. 260-605.
- Ban, Matt: See—
Bruce, William F., and Ban. 2,786,057.
- Bancel, Paul A., to Ingersoll-Rand Co. Crankshaft. 2,800,810, 7-30-57, Cl. 74-596.
- Banchback, William J. Sanitary well seal. 2,784,988, 3-12-57, Cl. 285-140.
- Banck, Robert A., to Bigelow-Liptak Corp. Tube supported wall. 2,780,205, 2-5-57, Cl. 122-6.
- Bancroft Cap Co.: See—
Goldman, Louis. 2,797,417.
- Bancroft, Charles. Rotary piston gas generator. 2,810,371, 10-22-57, Cl. 123-11.
- Bancroft, James E., to Allied Control Co., Inc. Tensioning mechanism for winding machines. 2,777,643, 1-15-57, Cl. 242-45.
- Bancroft, James E., to Allied Control Co., Inc. Relay incorporating printed circuit. 2,790,875, 4-30-57, Cl. 200-87.
- Bancroft, John W., to Minneapolis-Honeywell Regulator Co. Fluid quantity measuring apparatus. 2,793,529, 5-28-57, Cl. 73-304.
- Bancroft, Joseph C. Window frame construction. 2,776,735, 1-8-57, Cl. 189-36.
- Bancroft, Joseph, & Sons Co.: See—
Babiarz, Raymond S., and Wallace. 2,785,081.
Barry, John F., Squier, and Billingsley. 2,789,741.
- Bancroft, Robert F.: See—
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- Band, Philip H. Multi-compartment cabinet structure. 2,803,512, 8-20-57, Cl. 312-298.
- Bandel, David, and W. K. W. Chen, to American Machine & Foundry Co. Media for dispersing glass fibers. 2,802,734, 8-13-57, Cl. 92-3.
- Bandemer, Herman A. "Quick-release" fish hook. 2,815,603, 12-10-57, Cl. 43-43.16.
- Bandy, Kenneth L., to The McKay Machine Co. Strip uncoller and control therefor. 2,800,288, 7-23-57, Cl. 242-68.4.
- Bandy, Kenneth L., to The McKay Machine Co. Strip feeding line. 2,800,327, 7-23-57, Cl. 271-2.2.
- Bandy, Owen L., to The McNeil Machine & Engineering Co. Valves. 2,807,278, 9-24-57, Cl. 137-246.22.
- Banes, Fred W.: See—
Nelson, Joseph F., Banes, and Gleason. 2,795,631.
Nelson, Joseph F., Banes, and Hubbard. 2,801,270.
Smith, Brook I., Banes, and Nelson. 2,793,172.
- Banes, Fred W., H. K. Wiese, and O. C. Slotterbeck, to Esso Research and Engineering Co. Preparation of cyclopentene. 2,793,238, 5-21-57, Cl. 260-666.
- Banes, Fred W., J. F. Nelson, and R. G. Hoyt, to Esso Research and Engineering Co. Petroleum resins. 2,798,865, 7-9-57, Cl. 260-82.
- Banes, Fred W., and J. H. McAteer, to Esso Research and Engineering Co. Electrodes from fluid coke. 2,805,199, 9-3-57, Cl. 204-294.
- Bang, Mogens W., to Allen B. Du Mont Laboratories, Inc. Shield for printed wiring. 2,798,897, 7-9-57, Cl. 174-35.
- Bang, Mogens W., to Liberty Mfg. Corp. Multiple position switch. 2,813,935, 11-19-57, Cl. 200-1.
- Bange, Joseph B., Jr., to The Western States Machine Co. Centrifugal battery control system. 2,790,553, 4-30-57, Cl. 210-138.
- Bangs, George R., to Old Tappan Products, Inc. Surgical hand brush. 2,802,229, 8-13-57, Cl. 15-143.
- Bangs, Howard T.: See—
Varela, Andrew A., and Bangs. Re. 2,4351.
Varela, Andrew A., and Bangs. 2,781,553.
- Bangs, Howard T., and R. A. Mazur, to American Cyanamid Co. Resinous molding composition and process for producing same. 2,791,573, 5-7-57, Cl. 260-45.2.
- Bangs, Ralph C., to Coro, Inc. Spring biased ear ring with means varying the pressure of the spring. 2,809,501, 10-15-57, Cl. 63-14.
- Bangs, Walter J., to Tuthill Pump Co. Reversible fuel pump for oil burners. 2,781,726, 2-19-57, Cl. 103-3.
- Banister, Guy: See—
Burns, Leonard S., and Banister. 2,783,556.
- Banister, Robert T., to Thompson Products, Inc. Centrifugal casting. 2,811,757, 11-5-57, Cl. 22-65.
- Banite Co.: See—
Palo, Maurice M. 2,789,737.
- Bank, Albert M., and A. J. Katz, to Super Sagless Spring Co. Cut-off mechanism for zig zag wire. 2,789,585, 4-23-57, Cl. 140-71.
- Bank of America National Trust and Savings Association: See—
Libby, Edward W. 2,811,862.
Stone, Donald D. 2,782,773.
- Bank, Thor G., to Allis-Chalmers Mfg. Co. Switching device with L-shaped contactor bars. 2,794,873, 6-4-57, Cl. 200-50.
- Banker, John J., to The Babcock & Wilcox Co. Fluid heat exchange unit with plural header terminals. 2,797,900, 7-2-57, Cl. 257-235.
- Banker, Louis C. Boat and house trailer assembly. 2,797,008, 6-25-57, Cl. 214-605.

- Banker, Oscar H., to New Products Corp. Motion-transmitting device. 2,777,329, 1-15-57, Cl. 74-96.
- Banker, Oscar H., to New Products Corp. Sprag mechanism. 2,777,551, 1-15-57, Cl. 192-45.1.
- Banker, Oscar H., to New Products Corp. Auxiliary two-speed transmission. 2,785,582, 3-19-57, Cl. 74-47.2.
- Banker, Oscar H., to New Products Corp. Hydraulic system and unloader valve therefor. 2,793,498, 5-28-57, Cl. 60-51.
- Banker, Oscar H., to New Products Corp. Liquid level gauge. 2,799,089, 7-16-57, Cl. 33-126.7.
- Banker, Oscar H., Impulse actuated switch. 2,805,295, 9-3-57, Cl. 200-61.45.
- Banker, Oscar H., to New Products Corp. Change speed transmission and controls therefor. 2,817,425, 12-24-57, Cl. 192-3.5.
- Banko, George. Punch and die. 2,801,696, 8-6-57, Cl. 164-118.
- Banks, Clarence K.: *See*—
- Ramsden, Hugh E., and Banks. 2,789,994.
- Banks, Clarence K., to Metal & Thermit Corp. Floor covering. 2,816,852, 12-17-57, Cl. 154-49.
- Banks, Clarence R. Fishing line signal device. 2,809,459, 10-15-57, Cl. 43-17.
- Banks, Earl S. Collapsible furniture. 2,785,735, 3-19-57, Cl. 155-149.
- Banks, Harold G., to The Sheffield Corp. Gauging device. 2,814,123, 11-26-57, Cl. 33-170.
- Banks, Robert B., and A. A. Kalinske, to Infilco Inc. Clarifying apparatus and process. 2,813,074, 11-12-57, Cl. 210-44.
- Banks, Robert L.: *See*—
- Hogan, John P., and Banks. 2,794,842.
- Banks, St. Clair O. Oil changing device for internal combustion engines. 2,796,148, 6-18-57, Cl. 184-105.
- Banks, Waldo H., to Draper Corp. Bobbin replenishing means for looms. 2,778,382, 1-22-57, Cl. 139-245.
- Banks, Willis L.: *See*—
- Goff, William H., and Banks. 2,789,040.
- Bankston, Earl F., to W. E. Burgess. Tube testing system. 2,801,386, 7-30-57, Cl. 324-22.
- Banner, Edwin B., to Reeve & Mitchell Mfg. Co., Inc. Flatware case. 2,788,827, 4-16-57, Cl. 150-52.
- Banner, Edwin B., to Reeve & Mitchell Mfg. Co., Inc. Flatware case. 2,788,828, 4-16-57, Cl. 150-52.
- Banning Electrical Products Corp.: *See*—
- Banning, Gerald E. 2,784,330.
- Banning, Gerald E., to Banning Electrical Products Corp. Controlled reaction, variable speed, constant torque motor. 2,784,330, 3-5-57, Cl. 310-119.
- Banning, Thomas A., Jr. Coin controlled liquid dispensing apparatus and the like. 2,777,555, 1-15-57, Cl. 194-13.
- Banning, Thomas A., Jr. Controls for variable pitch propellers and the like. 2,778,436, 1-22-57, Cl. 170-135.2.
- Banning, Thomas A., Jr. Cigarette machines and the like. 2,788,004, 4-9-57, Cl. 131-59.
- Banning, Thomas A., Jr. Cigarette rolling machines, and the like. 2,791,221, 5-7-57, Cl. 131-60.
- Banning, Thomas A., Jr. Synchronizing system for plural propellers with pitch and fuel control. 2,794,507, 6-4-57, Cl. 170-135.29.
- Bannink, Maarten: *See*—
- Jonker, Gerard H., Wolhuis, and Bannink. 2,803,803.
- Bannister, Brian: *See*—
- Johnson, William S., Bannister, and Rogier. 2,810,758.
- Bannister, Harold V., to Schield Bantam Co. Crane. 2,809,756, 10-15-57, Cl. 212-59.
- Bannister, Leonard C., and W. J. B. Chater, to The British Oxygen Co. Ltd. Treatment of fumes in steelmaking operations. 2,811,435, 10-29-57, Cl. 75-41.
- Bannister, Raymond: *See*—
- Beall, William R. 2,782,577.
- Banowetz, Michael W., to Master Industries, Inc. Fishline float. 2,814,903, 12-3-57, Cl. 43-43.13.
- Banta, George E., B. F. Wade, and J. W. Bartow. Forming tool. 2,795,974, 6-18-57, Cl. 76-25.
- Banta, William: *See*—
- Bologna, Ciro L., and Banta. 2,783,777.
- Bantam-Lite, Inc.: *See*—
- Schwartz, Sidney. 2,805,826.
- Bantar, Inc.: *See*—
- McBride, John W. 2,776,591.
- Bantor, Inc.: *See*—
- McBride, John W. 2,806,399.
- Bantz, John H.: *See*—
- Eitel, William W., Jr., and Bantz. 2,812,687.
- Bany, Herman: *See*—
- Coggeshall, Thellwell R., and Bany. 2,804,576.
- Banzhof, William S., Jr., to Western Electric Co., Inc. Pressing punch and die. 2,777,162, 1-15-57, Cl. 18-16.5.
- Banzhof, William S., Jr., to Western Electric Co., Inc. Masking unit for spraying machines. 2,796,041, 6-18-57, Cl. 118-503.
- Baptist, Victor: *See*—
- Goodman, Robert, and Baptist. 2,776,673.
- Goodman, Robert, Baptist, and Rice. 2,793,989.
- Baracket, Albert J., to International Telephone and Telegraph Corp. Television synchronizing generator. 2,794,069, 5-28-57, Cl. 178-69.5.
- Barager, Ethel D. Disposable bib. 2,782,420, 2-26-57, Cl. 2-49.
- Baral, Leon L., to W. R. Grace & Co. Process for the production of clear aqueous solution of alkali metal silicate. 2,783,129, 2-26-57, Cl. 23-110.
- Baran, Joseph G., to Burgess-Manning Co. Releasable latch support for panel ceiling. 2,818,235, 12-31-57, Cl. 257-124.
- Baranauckas, Charles F.: *See*—
- Gochenour, Carl I., Ashton, and Baranauckas. 2,793,201.
- Baranauckas, Charles F., to Hooker Electrochemical Co. Perchlorocarbon having the empirical formula C_6OCl_8 . 2,801,268, 7-30-57, Cl. 260-648.
- Baranauckas, Charles F., to Hooker Electrochemical Co. Unsaturated esters of poly-halogen-containing dicarboxylic acids and polymers thereof. 2,810,712, 10-22-57, Cl. 260-78.4.
- Baranowski, Frank, Jr., and J. L. Paine, to General Electric Co. Oscillograph timing line mechanism. 2,816,002, 12-10-57, Cl. 346-107.
- Barany, Harry A. Attachment for drill press. 2,816,405, 12-17-57, Cl. 51-241.
- Barath, Josef. Variable tension spring. 2,804,128, 8-27-57, Cl. 155-179.
- Baraut, Marcel J.: *See*—
- Meulien, Henri L. P., Baraut, and Le Foll. 2,814,930.
- Barbeau, Raymond A., and H. A. Di Marco, to International Business Machines Corp. Registration device for record card punching machine. 2,792,222, 5-14-57, Cl. 271-55.
- Barber, Charles E. Stuffing box gland and wrench assembly. 2,805,589, 9-10-57, Cl. 81-3.
- Barber-Colman Co.: *See*—
- Bullen, Clark V., and Tice. 2,803,813.
- Bullen, Clark V., and Wilson. 2,818,478.
- Cibelius, Charles A., Jr., and Schaeve. 2,813,934.
- Johnson, Royce E. 2,818,539.
- Kennedy, Walter W. 2,780,980.
- Mahoney, Robert J. 2,804,274.
- Roesen, William F. 2,790,045.
- Stibitz, George R. 2,788,567.
- Sweger, Russell P. 2,792,475.
- Westbrook, Lowell V. 2,817,758.
- Wieneke, Frederick L. 2,807,861.
- Barber, Earnway A., B. H. Tubbs, F. B. Nagle, and A. F. Roche, to The Dow Chemical Co. Process for making molding compositions of polystyrene and copolymers of styrene and butadiene. 2,797,203, 6-25-57, Cl. 260-33.2.
- Barber, Franklin D., to Standard Car Truck Co. Spring group and stabilizer unit for railway car trucks. 2,797,914, 7-2-57, Cl. 267-9.
- Barber, Franklin T., and R. F. Vandaveer, to Pan American Petroleum Corp. Method for promoting hydrocarbon synthesis catalyst. 2,797,200, 6-25-57, Cl. 252-474.
- Barber-Greene Co.: *See*—
- Barber, Harry A. 2,817,167.
- Barber, Harry A., and Berg. 2,796,811.
- Burns, Leonard S., and Banister. 2,783,556.
- Lehman, Herbert A. 2,795,286.
- MacDonald, Raymore D. 2,805,750.
- Barber, Harry A., to Barber-Greene Co. Ditching machine. 2,817,167, 12-24-57, Cl. 37-86.
- Barber, Harry A., and E. G. Berg, to Barber-Greene Co. Machine for laying roads. 2,796,811, 6-25-57, Cl. 94-46.
- Barber, Harry J., K. D. R. Washburn, and W. R. Wragg, to May & Baker Ltd. Cinnoline derivatives. 2,797,218, 6-25-57, Cl. 260-250.
- Barber, Harry J., and M. B. Greene, to May & Baker Ltd. Organic thioethers. 2,797,246, 6-25-57, Cl. 260-609.
- Barber, James R., and Jesse. Spreader for fertilizer and the like. 2,797,847, 7-2-57, Cl. 222-177.
- Barber, Jesse: *See*—
- Barber, James R., and J. Barber. 2,797,847.
- Barber, Leo W. Sliding window adapter. 2,805,097, 9-3-57, Cl. 296-47.
- Barber, Lewin F. Dental mirror attachment. 2,809,430, 10-15-57, Cl. 32-69.
- Barber, Richard P.: *See*—
- Compton, Jack, and Barber. 2,787,516.
- Compton, Jack, and Barber. 2,793,930.
- Barber, Wayland F. Pencil and pen holder. 2,812,563, 11-12-57, Cl. 24-10.
- Barber, William A., to American Cyanamid Co. Method of producing dicyclopentadienylmagnesium. 2,788,377, 4-9-57, Cl. 260-865.
- Barber, William A., and H. Z. Friedlander, to American Cyanamid Co. Compositions comprising a polymer of acrylamide and ethylene glycol. 2,780,610, 2-5-57, Cl. 260-33.4.
- Barber, William A., and H. Z. Friedlander, to American Cyanamid Co. Compositions comprising a homo polymer of acrylamide and an organic acid. 2,798,058, 7-2-57, Cl. 260-31.2.
- Barbera, Anthony S.: *See*—
- Culpepper, Emmett L. 2,797,973.
- Barberl, Giuseppe. Valve arrangement for internal combustion engines. 2,781,031, 2-12-57, Cl. 123-47.
- Barbler, Henry, to Compagnie de Pont-A-Mousson. Control device for a motor vehicle transmission mechanism. 2,815,673, 12-10-57, Cl. 74-336.5.
- Barbier, Jacques. Device for exhibiting bags and other articles. 2,814,390, 11-26-57, Cl. 211-126.
- Barbier, John E., and C. A. Ginter, to Jones & Lamson Machine Co. Machine tool fixture. 2,793,041, 6-21-57, Cl. 279-6.

- Barbisan, Luciano E. Cylindrical combustion chambers for Diesel engines of all types. 2,811,147, 10-29-57, Cl. 123-32.
- Barbolla, Luis. Simulated basketball game. 2,779,597, 1-29-57, Cl. 273-85.
- Barbolla, Luis. Simulated basketball game. 2,799,501, 7-16-57, Cl. 273-85.
- Barbour, Daniel H., and A. Hoffman, Jr., to Union Carbide Corp. Injection nozzle. 2,804,339, 8-27-57, Cl. 299-107.
- Barbour, David W., and J. Czetti. Shower curtain. 2,817,850, 12-31-57, Cl. 4-149.
- Barbour, Roswell P. Display lug box. 2,789,748, 4-23-57, Cl. 229-23.
- Barbour Welting Co.: See—
- Vizard, William C. 2,775,829.
- Vizard, William. 2,784,504.
- Vizart, William C. 2,789,376.
- Vizard, William C. 2,795,869.
- Bar-Brook Mfg. Co., Inc.: See—
- Barnes, Taylor. 2,796,494.
- Barbuti, Renzo: See—
- Angiolini, Aristide, and Barbuti. 2,817,119.
- Barcafer, John. Ball and socket hitch with safety chain. 2,788,990, 4-16-57, Cl. 280-457.
- Barcafer, John. Vehicle carrier. 2,802,612, 8-13-57, Cl. 224-42.08.
- Barcafer, John. Telescoping map and article carrying tray. 2,807,516, 9-24-57, Cl. 312-246.
- Barcafer, John. Trailer hitch with auxiliary safety device. 2,815,225, 12-3-57, Cl. 280-457.
- Barch, William E., to Standard Brands Inc. Decaffeination of coffee. 2,817,588, 12-24-57, Cl. 99-70.
- Barclay, Andrew S., to Bendix Aviation Corp. Cold start overspeed control for fuel injection system. 2,807,244, 9-24-57, Cl. 123-32.
- Barclay, Harry A.: See—
- Lee, John A., Barclay, and Johnson. 2,776,014.
- Barclay, Herbert, to The Garrett Corp. Belt supporting device. 2,777,330, 1-15-57, Cl. 74-230.7.
- Barclay, Robert, to A. F. Stoddard and Co. Ltd. Mechanism for inserting tufts in pile fabrics especially carpets. 2,817,365, 12-24-57, Cl. 139-8.
- Barclay Mfg. Co., Inc.: See—
- Sundelin, Ronald R., and Feder. 2,779,978.
- Sundelin, Ronald R., and Feder. 2,779,979.
- Sundelin, Ronald R., and Feder. 2,779,983.
- Barclay Pharmaceutical Products Co.: See—
- Wilson, Eldon M., and Barnes. 2,803,249.
- Barclay, Robert J., and R. L. Hankin, to The Etna Machine Co. Electrode mounting for resistance weld tube mills. 2,803,736, 8-20-57, Cl. 219-84.
- Barcus, Edward L.: See—
- Slone, Howard L., Clayton, and Barcus. 2,811,592.
- Barcus, Edward L., to General Motors Corp. Direction signal control. 2,798,913, 7-9-57, Cl. 200-61.34.
- Barcus, Edward L., R. N. Falge, and L. T. Fuqua, to General Motors Corp. Direction signal. 2,800,542, 7-23-57, Cl. 200-61.34.
- Bard, Francis N. Ball retained swing joint. 2,786,698, 3-26-57, Cl. 285-276.
- Bard, Larry A., D. E. Cardoze, and L. M. Hallstrom, to Michigan Tool Co. Coolant testing instrument. 2,809,515, 10-15-57, Cl. 73-53.
- Barden Corp., The: See—
- Mims, Bruce L. 2,785,566.
- Mims, Bruce L. 2,793,525.
- Barden, Wayne A.: See—
- Daily, Arthur M., and Barden. 2,796,498.
- Barden, Wayne A., A. M. Daily, and H. L. Slough, to Chicago Telephone Supply Corp. Electric switch with terminal assembly especially adapted for connection to printed circuits. 2,796,499, 6-18-57, Cl. 200-166.
- Barden, Wayne A., to Chicago Telephone Supply Corp. Variable resistor with means for preventing shaft rattle. 2,781,436, 2-12-57, Cl. 201-55.
- Barden, Wayne A., to Chicago Telephone Supply Corp. Electric switch with terminal assembly especially adapted for connection to printed circuits. 2,796,497, 6-18-57, Cl. 200-166.
- Barden, Wayne A., to Chicago Telephone Supply Corp. Variable resistor with improved housing cover securement. 2,810,809, 10-22-57, Cl. 201-55.
- Barden, Wayne A., A. M. Daily, and H. L. Slough, to Chicago Telephone Supply Corp. Electric switch with terminal assembly especially adapted for connection to printed circuits. 2,796,500, 6-18-57, Cl. 200-166.
- Bardini, Armando J., to Food Machinery and Chemical Corp. Apparatus for processing fruit. 2,800,937, 7-30-57, Cl. 146-43.
- Bardini, Gino. Fruit peel press. 2,788,736, 4-16-57, Cl. 100-232.
- Barditch, Irving F., to Aircraft Armaments, Inc. Pulse modulators. 2,782,372, 2-19-57, Cl. 332-9.
- Bardsley, Robert F.: See—
- Miller, Philip, and Bardsley. 2,780,245.
- Bardwell, Howard F.: See—
- Kriegbaum, George M., Bornzin, and Bardwell. 2,796,825.
- Barea, Arnold J.: See—
- Schaan, José L., De Gall, and Barea. 2,807,989.
- Barefoot, Carlton K., to National Industries, Inc. Centering means for tire retreading machines. 2,793,397, 5-28-57, Cl. 18-18.
- Bareford, Christopher F., and H. A. Dell, to North American Philips Co., Inc. Electrical counting apparatus. 2,791,695, 5-7-57, Cl. 250-49.5.
- Bareither, Emanuel. Chance controlled game apparatus. 2,811,362, 10-29-57, Cl. 273-142.
- Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Motor vehicle accessible by means of a pivotal cap. 2,777,728, 1-15-57, Cl. 296-28.
- Barényi, Béla. Arrangement of the drive assemblies in automotive vehicles. 2,784,794, 3-12-57, Cl. 180-57.
- Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Elastic suspension devices arranged in series between vehicle wheel, axle and superstructure. 2,785,764, 3-19-57, Cl. 180-73.
- Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Motor vehicle with a laterally hinged hood-like upper part. 2,785,921, 3-19-57, Cl. 296-28.
- Barényi, Béla. Chassis frame for vehicles. 2,788,983, 4-16-57, Cl. 280-106.
- Barényi, Béla. Body structure for automotive vehicles. 2,790,674, 4-30-57, Cl. 296-28.
- Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Motor vehicle with a streamlined body and a cap-like closure member. 2,796,286, 6-18-57, Cl. 296-28.
- Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Passenger motor vehicle with a pontoon-like body. 2,797,953, 7-2-57, Cl. 296-28.
- Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Steering wheels. 2,813,436, 11-19-57, Cl. 74-555.
- Barényi, Béla, and K. Wilfert, to Daimler-Benz Aktiengesellschaft. Motor vehicle body fixed and hinged panel joints construction. 2,778,673, 1-22-57, Cl. 296-28.
- Barényi, Béla, and K. Wilfert, to Daimler-Benz Aktiengesellschaft. Multi-unit motor vehicle body having overlapping marginal body portions. 2,797,952, 7-2-57, Cl. 296-28.
- Barford, Frederik, to Bendix Aviation Corp. Fuel injection system. 2,786,460, 3-26-57, Cl. 123-119.
- Barg, Joel. Head-supported scribing instrument. 2,785,462, 3-19-57, Cl. 30-164.9.
- Bargen, William J. Combination one piece back and seat. 2,808,875, 10-8-57, Cl. 155-178.
- Barger, Frank L.: See—
- Oosterhout, Johan C. D., Meadows, Miller, and Barger. 2,796,384.
- Bargman, Theodore. Rotary-bolt door-lock. 2,797,571, 7-2-57, Cl. 70-135.
- Bargmeyer, Ernest G. H., to United States Rubber Co. Manufacture of rubber articles. 2,789,933, 4-23-57, Cl. 154-46.
- Bargren, Herman E.: See—
- Swanson, Fred R. and W. S., and Bargren. 2,790,361.
- Barlera, Guido, and H. Whitefield. Combination haircutter and razor. 2,793,429, 5-28-57, Cl. 30-31.
- Baril, Samuel J., and F. G. Stein, to Hobart, Inc. Hanging clip. 2,782,482, 2-26-57, Cl. 24-252.
- Barile, Peter, to Tri-Par Mfg. Co. Collapsible serving stand for use in dining room service and the like. 2,802,578, 8-13-57, Cl. 211-132.
- Barish, David T. Vortex ring parachute. 2,797,885, 7-2-57, Cl. 244-145.
- Barish, Thomas: See—
- Lear, William P., and Barish. 2,800,024.
- Barish, Thomas, to General Motors Corp. Spinner construction. 2,780,297, 2-5-57, Cl. 170-159.
- Barish, Thomas, C. F. Irwin, R. E. Line, and C. B. Wright, to General Motors Corp. Blade seal assembly. 2,780,298, 2-5-57, Cl. 170-160.23.
- Barish, Thomas, J. D. Moeller, R. C. Treseder, and C. B. Wright, to General Motors Corp. Propeller mechanism. 2,797,761, 7-2-57, Cl. 170-160.32.
- Barium Steel Corp.: See—
- Jazwinski, Stanislaw T., and Sisto. 2,793,106.
- Jazwinski, Stanislaw T., and Sisto. 2,793,107.
- Bark, Hurdman W.: See—
- Luttrell, Earl B. 2,786,458.
- Barkeley Mfg. Co.: See—
- Clayton, William. 2,806,346.
- Barker, Douglas B. Clips for panels. 2,804,670, 9-3-57, Cl. 24-259.
- Barker, Frederick W. Clothes rack or dryer. 2,778,705, 1-22-57, Cl. 312-313.
- Barker, Harry H.: See—
- Palmer, Reed A., Barker, and Chivers. 2,778,912.
- Barker, Jabus, to General Electric Co. Micro-wave mode converter. 2,816,271, 12-10-57, Cl. 333-13.
- Barker, Jack H., and J. B. Vending machines. 2,811,403, 10-29-57, Cl. 312-97.1.
- Barker, Joe B.: See—
- Barker, Jack H., and J. B. 2,811,403.
- Barker, John: See—
- Fawcley, Cecil A., and Barker. 2,790,050.
- Barker, John E., to Hoffman Electronics Corp. Miniature electrical switch apparatus or the like. 2,818,480, 12-31-57, Cl. 200-153.
- Barker, John S., Jr., and N. B. McFarlane, to Pittsburgh Metallurgical Co., Inc. Process of producing metal alloys of low impurity content. 2,797,988, 7-2-57, Cl. 75-13.
- Barker, Luther P., Jr. Safety hat. 2,813,270, 11-19-57, Cl. 2-3.
- Barker, Max S.: See—
- Rose, John E., and Barker. 2,793,024.
- Barker, Norval G.: See—
- Chang, Robert W. H., and Barker. 2,810,754.

- Barker, Orrin W., and J. J. Lenert, to Kearney & Trecker Corp. Transfer machines. 2,818,002, 12-31-57, Cl. 90-59.
- Barker Poultry Equipment Co.: *See*—
- Barker, Seth S., Crane, and Sharp. 2,813,298.
- Barker, Ray C. Broiler bucket. 2,792,773, 5-21-57, Cl. 99-421.
- Barker, Ray C. Can opener for tearstrip cans. 2,799,428, 7-16-57, Cl. 220-52.
- Barker, Robert C., to Gulf Research & Development Co. Permanent type antifreeze composition. 2,817,836, 12-24-57, Cl. 252-75.
- Barker, Robert S.: *See*—
- Hill, Alfred G., and Barker. 2,798,106.
- Barker, Ronald H., to National Research Development Corp. Ferroresonant circuits. 2,795,706, 6-11-57, Cl. 307-88.
- Barker, Seth S., E. J. Crane, and A. W. Sharp, to Barker Poultry Equipment Co. Process for scalding animals. 2,813,298, 11-19-57, Cl. 17-45.
- Barker, Stacey. Testing mechanism for cream. 2,779,476, 1-29-57, Cl. 210-150.
- Barker, William M.: *See*—
- Rees, Frank X., Brixner, and Barker. 2,816,218.
- Barker, William M., to General Railway Signal Co. Line circuit for code communication systems. 2,790,159, 4-23-57, Cl. 340-163.
- Barkla, Hugh M., to The National Research Development Corp. Sailing vessels. 2,804,038, 8-27-57, Cl. 114-66.5.
- Barkley, Lloyd B., to Monsanto Chemical Co. Synthesis of steroids. 2,803,632, 8-20-57, Cl. 260-340.9.
- Barkley, Philip: *See*—
- Weston, Roy. 2,788,088.
- Barkley, Rex C.: *See*—
- Blazek, William J., Evans, and Barkley. 2,812,621.
- Barkley, Wiley Z. Tobacco hanger. 2,781,921, 2-19-57, Cl. 214-16.
- Barkow, William H.: *See*—
- Kratz, Jerrold K., and Barkow. 2,799,798.
- Over, Donald P., and Barkow. 2,817,782.
- Barkschat, Eric. Automatic exerciser for feet and legs. 2,815,020, 12-3-57, Cl. 128-25.
- Barkstrom, Reynold: *See*—
- Orelin, John R., Pool, Barkstrom and Karlsson. 2,796,717.
- Barley, Leo D., to Harris-Seybold Co. Hydraulic motive power system. 2,780,204, 2-5-57, Cl. 121-45.
- Barlow, Dick S., and G. B. Croffut, Jr., to Bell Telephone Laboratories, Inc. Identifier-translator. 2,808,459, 10-1-57, Cl. 179-18.
- Barlow, Edward J., to Sperry Rand Corp. High frequency directive beam apparatus. 2,810,905, 10-22-57, Cl. 343-100.
- Barlow, Ernest, to Metropolitan-Vickers Electrical Co. Ltd. Dynamo electric machines. 2,796,540, 6-18-57, Cl. 310-61.
- Barlow, Ernest, and E. W. Consterdine, to Metropolitan-Vickers Electrical Co. Ltd. Dynamo electric machines. 2,811,659, 10-29-57, Cl. 310-258.
- Barlow, Harold. Centering device. 2,816,366, 12-17-57, Cl. 33-180.
- Barlow, Howard C.: *See*—
- Rosen, Leo, Barlow, and Bowman. 2,805,620.
- Barlow, Niles L.: *See*—
- Neumann, Karl L., Barlow, and Schneider. 2,808,504.
- Barlow, Sidney D., and A. V. De Molin. Pressurizing means for ink devices. 2,787,249, 4-2-57, Cl. 120-48.
- Barlow, William H., to Scovill Mfg. Co. Split-bolt type electrical connectors. 2,816,274, 12-10-57, Cl. 339-244.
- Barmer Maschinenfabrik Aktiengesellschaft: *See*—
- Lenk, Walter. 2,796,225.
- Barmotive Products, Inc.: *See*—
- Anderson, Ernest O. 2,791,233.
- Barna, Vella A.: *See*—
- Williams, Chester L. 2,781,711.
- Barnaby, Roland E., to Rayline, Inc. Dispensing container. 2,809,748, 10-15-57, Cl. 206-56.
- Barnaby, Roland E., and C. T. Morrow, to Sperry Rand Corp. Drive and mounting means for a tuning fork structure. 2,817,779, 12-24-57, Cl. 310-25.
- Barnack, Henry C. Stone mold. 2,810,180, 10-22-57, Cl. 25-1.
- Barnard, Francis E. Combined arrow quiver and carrying case. 2,781,808, 2-19-57, Cl. 150-1.5.
- Barnard, Kent R., to Pan American Petroleum Corp. Method for processing preferentially oil soluble acids. 2,801,212, 7-30-57, Cl. 202-60.
- Barnard, Marill M., and F. A. Coles. Door operated spray devices. 2,817,560, 12-24-57, Cl. 299-82.5.
- Barnard, Ralph. Steering mechanism for vehicles. 2,785,909, 3-19-57, Cl. 280-426.
- Barnard, William S., and A. L. Scarbrough, to National Lead Co. Textile lubricant and process. 2,805,993, 9-10-57, Cl. 252-8.8.
- Barnebey, Herbert L., to The Meyercoed Co. Process and apparatus for hardening coating compositions. 2,810,662, 10-22-57, Cl. 117-62.
- Barnes, Arthur H., to the United States of America as represented by the United States Atomic Energy Commission. Direct current electromagnetic pump. 2,811,923, 11-5-57, Cl. 103-1.
- Barnes, Bryce E., to Minneapolis-Honeywell Regulator Co. Electron discharge device. 2,784,337, 3-5-57, Cl. 313-266.
- Barnes, Carl E., W. R. Nummy, and W. O. Ney, Jr., to Arnold, Hoffman & Co., Inc. Polymers of alpha-piperidone. 2,806,841, 9-17-57, Cl. 260-78.
- Barnes, Carl E., W. O. Ney, Jr., and W. R. Nummy, to General Aniline & Film Corp. Polymerization procedures for 2-pyrrolidone. 2,809,958, 10-15-57, Cl. 260-78.
- Barnes, Clarence S. Hand signal light. 2,799,854, 7-16-57, Cl. 340-321.
- Barnes, David K., to Pan American Petroleum Corp. Process for hydrobromination of olefins. 2,790,013, 4-23-57, Cl. 260-663.
- Barnes Drill Co.: *See*—
- Estabrook, Mark R. 2,781,616.
- Gross, Maurice J. 2,787,865.
- Gross, Maurice J. 2,787,866.
- Johnson, Albert M. 2,777,257.
- Johnson, Albert M. 2,771,871.
- Klein, James B. 2,787,867.
- Price, Richard P. 2,777,321.
- Seborg, Earnest Y. 2,795,089.
- Seborg, Earnest Y. 2,797,531.
- Seborg, Earnest Y., and Greenberg. 2,780,893.
- Barnes, Edgar S., to Eastman Kodak Co. Sighting telescope. 2,807,981, 10-1-57, Cl. 88-32.
- Barnes Engineering Co.: *See*—
- Frothingham, Donald M. 2,805,374.
- Barnes, E. J. F. Mouse or rat trap. 2,775,844, 1-1-57, Cl. 43-69.
- Barnes, F. A., R. L. Devine, Jr., J. A. F. Hill, L. H. Schindel, and W. E. Nicholson, to the United States of America as represented by the Secretary of the Navy. Rolling moment computer for a flight simulator. 2,793,300, 5-21-57, Cl. 250-237.
- Barnes, Harold N.: *See*—
- Barnes, Juanita G. and H. N. 2,798,492.
- Barnes, Homer C., Jr.: *See*—
- Bieniossek, Chester E., Barnes, and Dahm. 2,803,533.
- Barnes, James L. Bale handling hook. 2,785,920, 3-19-57, Cl. 294-26.
- Barnes, Jerry S., and J. H. Shaver. Automatic fishing rod holders and retrievers. 2,784,516, 3-12-57, Cl. 43-16.
- Barnes, John H.: *See*—
- Marshall, Philip G., Barnes, and McCrea. 2,814,637.
- Barnes, John P., and E. Zimmerman, said Zimmerman to said Barnes. Garment bag. 2,792,107, 5-14-57, Cl. 206-7.
- Barnes, John V.: *See*—
- Wilson, Eldon M., and Barnes. 2,803,249.
- Barnes, Juanita G. and H. N. Adhesive type suture. 2,798,492, 7-9-57, Cl. 128-335.
- Barney, Kay H., to Sperry Rand Corp. Pulse timing systems. 2,812,450, 11-5-57, Cl. 307-88.
- Barnes, Lewis. Ironing machine. 2,789,378, 4-23-57, Cl. 38-59.
- Barnes, Oscar E., and R. L. Safety jig for cutting wedges on all movable saws. 2,789,596, 4-23-57, Cl. 143-169.
- Barnes, Reno L.: *See*—
- Barnes, Oscar E., and R. L. 2,789,596.
- Barnes, Robert E., to P. R. Mallory & Co., Inc. Electromagnetic interrupter device. 2,790,129, 4-23-57, Cl. 321-49.
- Barnes, Robert E., to P. R. Mallory & Co., Inc. Vibrator with multiple voltage operating coil. 2,796,578, 6-18-57, Cl. 321-49.
- Barnes, Robert E. Current responsive signal devices. 2,799,852, 7-16-57, Cl. 340-252.
- Barnes, Robert I. Insulator clamp. 2,816,155, 12-10-57, Cl. 174-172.
- Barnes, Sidney W., to the United States of America as represented by the United States Atomic Energy Commission. Electromagnetic apparatus. 2,794,923, 6-4-57, Cl. 250-41.9.
- Barnes, Taylor, to Bar-Brook Mfg. Co., Inc. Fire fuse link. 2,796,494, 6-18-57, Cl. 200-142.
- Barnes, Theodore M., and A. B. Skromme, to Deere Mfg. Co. Tying mechanism control for balers. 2,807,996, 10-1-57, Cl. 100-4.
- Barnes, Tracy W., to John Ramming Machine Co. Thread cutting apparatus with improved die head collapsing means. 2,795,805, 6-18-57, Cl. 10-94.
- Barnes, W. F., and John, Co.: *See*—
- Chapman, Lester. 2,791,315.
- Smith, Clarence J. 2,781,232.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Double action trimmer and surface preparation tool for solid phase bonding. 2,779,954, 2-5-57, Cl. 7-5.6.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Fabricated fin tube heat exchanger. 2,790,628, 4-30-57, Cl. 257-262.2.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Terminal construction. 2,794,176, 5-28-57, Cl. 339-275.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Multiple range compound action hand tool. 2,799,191, 7-16-57, Cl. 81-15.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Terminal construction. 2,799,840, 7-16-57, Cl. 339-275.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Joint structure. 2,801,402, 7-30-57, Cl. 339-275.
- Barnes, William A., to Utica Drop Forge & Tool Corp. Surface trimming and flange stripping tool. 2,801,576, 8-6-57, Cl. 90-24.
- Barnes, William A., to Kelsey-Hayes Co. Cold welding tool. 2,815,689, 12-10-57, Cl. 78-82.

- Barnes, William A., and W. J. Rozmus, to Utica Drop Forge & Tool Corp. Compression device operated by direct and reaction forces. 2,817,254, 12-24-57, Cl. 78-82.
- Barnes, William E.: *See*—
Duckworth, Wesley H., and Barnes. 2,795,768.
- Barnes, William E., and G. W. Harry, to General Motors Corp. Fuel pump. 2,818,027, 12-31-57, Cl. 103-150.
- Barnes, William M., to Coca-Cola Co. Tanks. 2,805,795, 9-10-57, Cl. 222-184.
- Barnett, Guy F., to Philco Corp. Precision dual beam cathode-ray tube. 2,784,334, 3-5-57, Cl. 313-69.
- Barnett, Harold M., deceased (by M. B. Barnett, executrix), and H. M. Espoy; said Espoy assor. to said M. B. Barnett. Process for extracting the coloring matter from annatto seeds. 2,815,287, 12-3-57, Cl. 99-148.
- Barnett, Harry E. Fitted pocket medical kit. 2,804,969, 9-3-57, Cl. 206-16.
- Barnett, Irvin: *See*—
Spell, Sidney, and Barnett. 2,811,457.
- Barnett, Irvin, to Johns-Manville Corp. Fiber opener and cleaner. 2,789,319, 4-23-57, Cl. 19-96.
- Barnett, Irvin, and S. E. Zager, to Johns-Manville Corp. Thermal modification of acrylonitrile polymers. 2,799,915, 7-23-57, Cl. 28-75.
- Barnett, James C., and J. D. Barnhill, to Monsanto Chemical Co. Method of sintering ores. 2,799,573, 7-16-57, Cl. 75-5.
- Barnett, Louis, to National Tea Packing Co., Inc. Infusion packages. 2,791,505, 5-7-57, Cl. 99-77.1.
- Barnett, Margaret B.: *See*—
Barnett, Harold M., and Espoy. 2,815,287.
- Barnett, Nelson L. R. Condensation device. 2,777,383, 1-15-57, Cl. 99-293.
- Barnett, Stanley F., to The Plessey Co. Ltd. Transformer. 2,796,590, 6-18-57, Cl. 336-210.
- Barney, Freeman, and M. E. Papanoli, to The Challenge Machinery Co. Paper cutter back gauge mounting. 2,799,338, 7-16-57, Cl. 164-59.
- Barney, Herbert A., to Owens-Illinois Glass Co. Dispensing and measuring closure. 2,786,494, 3-26-57, Cl. 141-322.
- Barnhart, Clarence O., to the United States of America as represented by the Secretary of the Air Force. Electro-mechanical decoder. 2,794,969, 6-4-57, Cl. 340-164.
- Barnhart, George E. Sealing ring. 2,783,106, 2-26-57, Cl. 309-33.
- Barnhart, George E. Seal ring construction. 2,785,026, 3-12-57, Cl. 309-33.
- Barnhart, Vern A. Cored masonry brick. 2,810,286, 10-22-57, Cl. 72-41.
- Barnhart, William S.: *See*—
Weber, Charles W., and Barnhart. 2,816,147.
- Barnhart, William S., to The M. W. Kellogg Co. Phosphorus oxychloride-halogen-containing telomers and their preparation. 2,786,827, 3-26-57, Cl. 260-92.1.
- Barnhart, William S., to Minnesota Mining and Mfg. Co. Telomerization of perhaloolefins and chloroformates. 2,817,673, 12-24-57, Cl. 260-487.
- Barnhart, William S., and J. L. Zollinger, to The M. W. Kellogg Co. Perchlorofluoronitriles and methods for their preparation. 2,788,362, 4-9-57, Cl. 260-465.2.
- Barnhart, William S., and R. H. Wade, to The M. W. Kellogg Co. New fluoride-containing compounds and method of preparation thereof. 2,806,865, 9-17-57, Cl. 260-408.
- Barnhart, William S., and R. H. Wade, to The M. W. Kellogg Co. Polyfluorohalogenated organic compounds and method of preparation thereof. 2,806,866, 9-17-57, Cl. 260-408.
- Barnhart, William S., and R. H. Wade, to The M. W. Kellogg Co. Perchlorofluorocarboxylic acid salts. 2,806,867, 9-17-57, Cl. 260-408.
- Barnhill, James D.: *See*—
Barnett, James C., and Barnhill. 2,799,573.
- Barnish, Leonard S.: *See*—
Baines, Leslie, and Barnish. 2,811,143.
- Barnóthy, Jeno M., to Research Corp. Pulse-height discriminator. 2,817,771, 12-24-57, Cl. 307-88.5.
- Barnsley, Herbert J. Handwheel for manually operable valves. 2,803,032, 8-20-57, Cl. 16-117.
- Barnstead Still and Sterilizer Co.: *See*—
Smith, Verity C. 2,816,064.
- Barnum, Emmett R., and L. E. Lorensen, to Shell Development Co. Lubricating compositions. 2,781,319, 2-12-57, Cl. 252-47.5.
- Barnwell, Dorothy J. Disposable wash-bowl liners. 2,817,851, 12-31-57, Cl. 4-166.
- Baroch, George F., to Motorola, Inc. High frequency coupling device. 2,798,206, 7-2-57, Cl. 333-73.
- Baron, Heinz. Dressing material for wounds. 2,802,464, 8-13-57, Cl. 128-156.
- Barone, Antonio T. Hair cutting attachment for electric razors. 2,807,876, 10-1-57, Cl. 30-34.
- Barone, Salvatore J. Skirt cutting device. 2,779,099, 1-29-57, Cl. 30-231.
- Baroni, Alessandro: *See*—
Marullo, Gerlando, Baroni, and Garlanda. 2,790,801.
- Baroni, Francisco J. L. Blind for curved, sinuous and irregular openings. 2,799,333, 7-16-57, Cl. 160-114.
- Barr, Arthur C. Nursing nipple. 2,803,250, 8-20-57, Cl. 128-252.
- Barr, Claude J.: *See*—
Wan, Shen W., Strelzoff, and Barr. 2,785,045.
- Barr, Courtland H., to Courtland Laboratories. Container sealing device. 2,784,543, 3-12-57, Cl. 53-334.
- Barr, Courtland H., and J. T. Tripp: said Tripp assor. to C. H. Barr, Sr., C. H. Barr, Jr., and J. W. Barr. Blood packaging unit. 2,780,225, 2-5-57, Cl. 128-272.
- Barr, Courtland H., Jr.: *See*—
Barr, Courtland H., and Tripp. 2,780,225.
- Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 2,817,372.
- Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. Transfusion assembly. 2,817,372, 12-24-57, Cl. 141-288.
- Barr, Francis A., to Sylvania Electric Products Inc. Process for preparing synthetic mica products. 2,788,837, 4-16-57, Cl. 154-2.6.
- Barr, Frank T., J. W. Brown, and C. E. Jahngig, to Esso Research and Engineering Co. Dual bed process for coking and catalytic cracking of hydrocarbons. 2,789,082, 4-16-57, Cl. 196-49.
- Barr, Gilbert W. Retractable jaw gripper. 2,802,691, 8-13-57, Cl. 294-99.
- Barr, Irwin R., to Aircraft Armaments, Inc. Method and apparatus for sabot removal. 2,811,901, 11-5-57, Cl. 89-14.
- Barr, John T., to Pennsalt Chemicals Corp. Copolymers of 1-chloro-2,2-difluoro ethylene and 2,2-trifluoroethyl vinyl ether. 2,813,848, 11-19-57, Cl. 260-87.5.
- Barr, John T., and F. E. Lawlor, to The Pennsylvania Salt Mfg. Co. Bis(trifluoroethyl) fumarate. 2,778,850, 1-22-57, Cl. 260-485.
- Barr, John W.: *See*—
Barr, Courtland H., and Tripp. 2,780,225.
- Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 2,817,372.
- Barr, Leslie A., and W. D. Henry, to Essex Wire Corp. Temperature responsive control circuit. 2,777,932, 1-15-57, Cl. 219-20.
- Barr, Naaman F., to American-Marietta Co., Stoner-Mudge Co. Division. Sanitary coating composition, process of coating metal therewith, and coated article. 2,793,141, 5-21-57, Cl. 117-132.
- Barr, Richard H. H., $\frac{1}{2}$ to Centrax Power Units Ltd. Bladed rotors. 2,781,998, 2-19-57, Cl. 253-39.
- Barr, Robert M., and H. J. Scott. Water feed controls for hot air furnace humidifiers. 2,784,735, 3-12-57, Cl. 137-426.
- Barr Rubber Products Co., The: *See*—
Chupa, John C. 2,812,551.
- Collins, Arthur E. 2,791,873.
- Barr and Stroud Ltd.: *See*—
Dickson, John H. 2,780,132.
- Barr, William E., and C. H. Owen, to Phillips Petroleum Co. Method for obtaining increased depth of flash vaporization. 2,799,628, 7-16-57, Cl. 196-83.
- Barr, William M., to King Associates. Brush support. 2,789,297, 4-23-57, Cl. 15-121.2.
- Barratt, Alexander W. E.: *See*—
Halford, Frank B., Clarke, and Barratt. 2,807,433.
- Barratt, Roland L.: *See*—
Aaron, Martin, and Barratt. 2,777,245.
- Barre, Wade B., to Sylvania Electric Products, Inc. Corona socket. 2,779,009, 1-22-57, Cl. 339-143.
- Barreca, Henry J. Net supporting poles. 2,812,945, 11-12-57, Cl. 273-29.
- Barrentine, Eugene M.: *See*—
Shelton, Frederic J., and Barrentine. 2,812,308.
- Barrentine, Harry M.: *See*—
Allyn, Charles L., Barrentine, Hodgins, Shelton, and Rawson. 2,812,309.
- Barrer, Richard M., to Union Carbide and Carbon Corp. Separation of mixtures of compounds by means of metal benzene sulfonates. 2,776,292, 1-1-57, Cl. 260-290.
- Barrera, Joseph: *See*—
Cueno, Donald F., and Barrera. 2,796,814.
- Barrera, Sam E.: *See*—
Muskin, Nathan, and Barrera. 2,807,026.
- Barreto, Ladislao. Self-draining knives and scrapers for sugar mills. 2,818,013, 12-31-57, Cl. 100-174.
- Barrett, A. Lee, to Joy Mfg. Co. Explosively actuated expanding mine roof fastener. 2,813,449, 11-19-57, Cl. 85-40.
- Barrett, Arthur L., to Joy Mfg. Co. Method of and apparatus for mining by drilling, coring and breaking. 2,776,809, 1-8-57, Cl. 262-9.
- Barrett, Arthur L., to Joy Mfg. Co. Rotating cutter and core breaker for continuous miner. 2,776,823, 1-8-57, Cl. 262-9.
- Barrett, Arthur L., to Joy Mfg. Co. Mining machine and automatic cycling control mechanism therefor. 2,777,102, 1-8-57, Cl. 262-29.
- Barrett, Arthur L., to Joy Mfg. Co. Continuous miner having disintegrating head mechanism and floor-clean-up means carried on tiltable support. 2,788,200, 4-9-57, Cl. 262-9.
- Barrett, Arthur L., to Joy Mfg. Co. Disintegrating head mechanism of the plurally articulated type for a continuous miner. 2,788,202, 4-9-57, Cl. 262-26.
- Barrett, Arthur L., to Joy Mfg. Co. Creeper base for mining apparatus. 2,800,970, 7-30-57, Cl. 180-8.
- Barrett-Deenan Co.: *See*—
Barrett, Edward L. 2,794,086.
- Barrett, Donald O. Bags and method of manufacturing same. 2,798,523, 7-9-57, Cl. 150-11.
- Barrett, Edward L., to Barrett-Keenan Co. Toggle switch construction. 2,794,086, 5-28-57, Cl. 200-67.
- Barrett, Edward L. Battery construction. 2,812,378, 11-5-57, Cl. 136-134.

- Barrett, Francis E., to Sealzit Co. of America. Plastic spraying apparatus. 2,813,751, 11-19-57, Cl. 299-86.
- Barrett, Fred O., C. G. Goebel, and R. M. Peters, to Emery Industries, Inc. Process of dimerizing monounsaturated fatty acids. 2,793,219, 5-21-57, Cl. 260-407.
- Barrett, Fred O., C. G. Goebel, and R. M. Peters, to Emery Industries, Inc. Method of making polymeric acids. 2,793,220, 5-21-57, Cl. 260-407.
- Barrett, Gerald R., to Monsanto Chemical Co. Hydrolyzed polyacrylonitrile polymers and process of preparing same. 2,812,317, 11-5-57, Cl. 260-88.7.
- Barrett, Gerald R., and R. Perry, Jr., to Monsanto Chemical Co. Suspension polymerization of vinyl acetate and crotonic acid. 2,795,573, 6-11-57, Cl. 260-85.7.
- Barrett, Harry B. Brake drum gauge. 2,791,032, 5-7-57, Cl. 33-143.
- Barrett, Harry B. Brake shoe and brake drum surfacers. 2,791,072, 5-7-57, Cl. 51-186.
- Barrett, Harry B. Brake shoe gauges. 2,805,486, 9-10-57, Cl. 33-180.
- Barrett, Harry B. Cylinder hones. 2,805,528, 9-10-57, Cl. 51-184.2.
- Barrett, Harry B. Tire truing lathes. 2,805,713, 9-10-57, Cl. 164-10.2.
- Barrett, Harry B. Hand tools adapted for removing glaze from automotive brake shoes and brake drums. 2,815,616, 12-10-57, Cl. 51-186.
- Barrett, Hillard E., and W. F. Payne, to Curtiss-Wright Corp. Jet engine burner construction. 2,780,062, 2-5-57, Cl. 60-39.72.
- Barrett, John S., W. G. Martin, III, and P. H. Trickey, to Vickers Inc. Magnetic field responsive coupling device with cooling means. 2,791,308, 5-7-57, Cl. 192-113.
- Barrett, La Vern H., to Manett Enterprises, Inc. Packaging methods and apparatus. 2,815,622, 12-10-57, Cl. 53-24.
- Barrett, Maurice L., Jr., to Shell Development Co. Apparatus for proving positive-displacement meters. 2,792,705, 5-21-57, Cl. 73-3.
- Barrett, Ralph A., to White Sewing Machine Corp. Folding wringer interlock. 2,800,009, 7-25-57, Cl. 68-22.
- Barrett, Robert B., to Klenzade Products, Inc. Cleaning process. 2,817,606, 12-24-57, Cl. 134-22.
- Barrett, Wayne T., and P. L. Veitman, to W. R. Grace & Co. Preparation of substituted chloramines and substituted hydrazines. 2,808,439, 10-1-57, Cl. 260-583.
- Barrie, William H. Conveyor tables for glass washing machines and the like. 2,788,884, 4-16-57, Cl. 198-219.
- Barrier, Alvis L. Fluid flow line inspection device. 2,800,869, 7-30-57, Cl. 116-117.
- Barrington, William F., and W. Skillen, to Somerville Ltd. Corner lock cartons. 2,809,776, 10-15-57, Cl. 229-34.
- Barron, Joseph B. Gum massage device. 2,800,899, 7-30-57, Cl. 128-62.
- Barron, Joseph M.: See—
Harlan, Don L., and Barron. 2,799,475.
- Barrons, Keith C., to The Dow Chemical Co. Method and composition for the treatment of soil. 2,794,727, 6-4-57, Cl. 71-2.7.
- Barrons, Keith C., to The Dow Chemical Co. Method and composition for the control of undesired vegetation. 2,807,530, 9-24-57, Cl. 71-2.7.
- Barron, Lee H. Diamond band saw. 2,784,536, 3-12-57, Cl. 51-188.
- Barron, Ralph L. Electronic control system. 2,779,904, 1-29-57, Cl. 318-28.
- Barros, Ramon. Ice-containing receptacle applicable to mixing machines. 2,785,547, 3-19-57, Cl. 62-149.
- Barrow, Norman, B. M. Robert, and H. G. Edwards, to Siemens Bro. & Co., Ltd. Party line telephone systems. 2,788,394, 4-9-57, Cl. 179-86.
- Barrus, Russell W., and M. Aitken, deceased (by R. M. Aitken, administratrix). Lighting attachment for golf clubs. 2,787,470, 4-2-57, Cl. 273-186.
- Barry, Aaron W. Scarifying applicator. 2,818,070, 12-31-57, Cl. 128-333.
- Barry, Aaron W. Scarifying applicator. 2,818,071, 12-31-57, Cl. 128-333.
- Barry, Adelbert: See—
Palmer, Carl C., and Barry. 2,779,839.
- Barry, Alfreda F.: See—
Barry, John A., 2,787,277.
- Barry, Arthur J. to Dow Corning Corp. Method of preparing phenylsilosilanes. 2,788,357, 4-9-57, Cl. 260-448.2.
- Barry, George D., ½ to G. S. Mitchell. Ice cream scoop. 2,786,429, 3-26-57, Cl. 107-48.
- Barry, Harold E. Pompon. 2,810,977, 10-29-57, Cl. 41-10.
- Barry, John A., deceased; A. F. Barry, administratrix, to V. Reiman. Mountings for oscillating screens. 2,787,277, 4-2-57, Cl. 134-61.
- Barry, John F., R. C. Squier, and G. A. Billingsley, Jr., to Joseph Bancroft & Sons Co. Production of durably-pleated goods. 2,789,741, 4-23-57, Cl. 223-28.
- Barry, Joseph R. Knockdown skeleton frame. 2,803,903, 8-27-57, Cl. 41-10.
- Barry, Morris. Lint remover. 2,787,014, 4-2-57, Cl. 15-104.
- Barry, Robert E.: See—
Boone, Harris D., Howell, and Barry. 2,787,333.
- Barry-Webb Machinery Co.: See—
Dungfelder, Chris C., and Silver. 2,786,479.
- Streckfuss, Elmer G. 2,799,414.
- Barsel, Norman: See—
Fleischhacker, Desider, and Barsel. 2,791,532.
- Barsky, Al. Automobile safety seat. 2,796,112, 6-18-57, Cl. 155-9.
- Barstow, Ormond E., to The Dow Chemical Co. Viscosimeter. 2,817,231, 12-24-57, Cl. 73-60.
- Bart, Edward J. Combination storm window. 2,796,122, 6-18-57, Cl. 160-103.
- Bart, Siegfried G.: See—
Scholl, Elwood L. 2,776,253.
- Bart, Siegfried G. Rubber bonding process. 2,776,254, 1-1-57, Cl. 204-20.
- Barta, Henry J., to S & C Electric Co. Circuit interrupter construction. 2,816,982, 12-17-57, Cl. 200-114.
- Bartelink, Everhard H. G., to the United States of America as represented by the Secretary of the Navy. Cathode ray tube presentation. 2,803,005, 8-13-57, Cl. 343-5.
- Bartelink, Everhard H., to the United States of America as represented by the Secretary of the Navy. Plan position indicator. 2,810,126, 10-15-57, Cl. 343-11.
- Bartelink, Everhard H. B., and W. M. Cady, to the United States of America as represented by the Secretary of War. Computer. 2,803,820, 8-20-57, Cl. 343-13.
- Bartelink, Jan A., to National Luchtvaartlaboratorium. Electric circuit for metering the flow of a liquid or gaseous medium. 2,790,145, 4-23-57, Cl. 324-78.
- Bartell, Clarence C., to Rockwell Spring and Axle Co. Vehicle drive mechanism. 2,808,738, 10-8-57, Cl. 74-701.
- Bartels, Alfred F. A., to Nordischer Maschinenbau Rud. Baader. Device for skinning fish filets. 2,806,245, 9-17-57, Cl. 17-4.
- Bartels, Alfred F. A., and P. F. W. Jobmann, to Nordischer Maschinenbau Rud. Baader. Charging device for fish processing apparatus. 2,803,035, 8-20-57, Cl. 17-4.
- Bartels, Charles R., G. Kleiman, D. B. Irish, and J. N. Korzun, to Olin Mathieson Chemical Corp. Process of recovering basic antibiotics. 2,786,831, 3-26-57, Cl. 260-210.
- Bartelt Engineering Co.: See—
Morgan, Tracy B., Jr. 2,791,355.
- Barten, Raymond J., and H. J. Swarthout, to Electrol Inc. Pressure regulating-unloading valve. 2,817,352, 12-24-57, Cl. 137-108.
- Bartenfeld, Wilford G. Side tank construction for bulk cargo vessels. 2,777,413, 1-15-57, Cl. 114-78.
- Bartenfeld, Wilford G. Double bottom construction for vessels. 2,785,645, 3-19-57, Cl. 114-79.
- Barth, Eugene I., to Western Electric Co., Inc. Methods of coating articles with fluorescent polymerized chloroprene. 2,796,360, 6-18-57, Cl. 117-66.
- Barth, Hans, to O'Dell Brothers. Differential pulse counter. 2,816,709, 12-17-57, Cl. 235-92.
- Barth, Harry J.: See—
Spanell, Lois A., Owen, and Barth. 2,797,415.
- Barth, Harry J., to International Latex Corp. Art of making preformed deposited brassieres. 2,786,236, 3-26-57, Cl. 18-41.
- Barth, Luther B., ½ to L. J. Cromer. Double chain saw. 2,800,153, 7-23-57, Cl. 143-32.
- Barth, Oscar. Hair-roller. 2,801,639, 8-6-57, Cl. 132-40.
- Barthauer, Gerald, J. A. Phinney, E. J. Wasp, and F. N. Speller, to Pittsburgh Consolidation Coal Co. Method of reducing metal losses in coal slurry transportation pipelines. 2,791,472, 5-7-57, Cl. 302-66.
- Barthel, Eric, Jr.: See—
Detrick, Stanley R., and Barthel. 2,787,601.
- Barthel, Eric, Jr., to E. I. du Pont de Nemours and Co. Cellular reaction products of castor oil, an epoxy resin and an aromatic diisocyanate. 2,788,335, 4-9-57, Cl. 260-2.5.
- Barthelson, Norman A., to Hercules Powder Co. Separation of primary and tertiary cyrene hydroperoxides. 2,779,797, 1-29-57, Cl. 260-610.
- Barthenheier, Jakob: See—
Neugebauer, Wilhelm, and Barthenheier. 2,810,341.
- Neugebauer, Wilhelm, and Barthenheier. 2,810,342.
- Bartholomew, Harvey L. Awning hinge. 2,793,388, 5-28-57, Cl. 16-171.
- Bartholomew, Harvey L. Rod and fixture connector. 2,793,888, 5-28-57, Cl. 287-125.
- Bartholomew, Harvey L. Awning headrod clamp. 2,814,456, 11-26-57, Cl. 248-273.
- Bartholomew, Howard W., to National Lead Co. Simultaneous casting and trimming apparatus. 2,804,662, 9-3-57, Cl. 22-57.
- Bartholomew, Orlo A. Means for erecting precast walls. 2,799,404, 7-16-57, Cl. 214-1.
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- Bartkus, Michael J.: See—
Lykins, James H., Bartkus, and Kermicle. 2,790,919.
- Bartleson, John D.: See—
Alford, Harvey E., and Bartleson. 2,809,934.
- Bartleson, John D., to The Standard Oil Co. Crankcase lubricating oil and additive therefor. 2,780,599, 2-5-57, Cl. 252-37.7.
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- Bartlett, Earl H. Illuminated writing instrument. 2,811,632, 10-29-57, Cl. 240-646.
- Bartlett, James C. Fish lures. 2,817,181, 12-24-57, Cl. 43-4245.
- Bartlett, Jeffrey H.: See—
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Fischer, Wilbur F., and Bartlett. 2,782,177.
Matuszak, Alfred H., Mikeska, and Bartlett. 2,802,787.
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- Bartlett, Jeffrey H., and A. J. Morway, to Esso Research and Engineering Co. Preparation of grease thickeners by alkali fusion of polyvinyl esters. 2,801,975, 8-6-57, Cl. 252-41.
- Bartlett, Jeffrey H., R. S. Brodkey, and P. V. Smith, Jr., to Esso Research and Engineering Co. Dimethyl-tricyclopentadecanol esters and process. 2,814,639, 11-26-57, Cl. 260-488.
- Bartlett, Kenneth M., to Thompson Products, Inc. Hollow turbine bucket. 2,787,441, 4-2-57, Cl. 253-3915.
- Bartlett, Kenneth M., and J. C. Sawyer, to Thompson Products, Inc. Method of making shell molds. 2,792,604, 5-21-57, Cl. 22-193.
- Bartlett, Leonard J. Exercising chair. 2,795,422, 6-11-57, Cl. 272-58.
- Bartlett, Percy, to General Electric Co. Electric bus duct apparatus. 2,815,396, 12-3-57, Cl. 174-99.
- Bartlett, Philip D.: See—
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- Bartlett, Philip D., to Polaroid Corp. Photographic apparatus. 2,778,269, 1-22-57, Cl. 88-24.
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- Bartlett, Richard J., to Smith & French Laboratories. Capsule filling ring assembly. 2,778,178, 1-22-57, Cl. 53-287.
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- Bartley, John J. Auxiliary step and supporting brackets for attachment to ladders. 2,804,355, 8-27-57, Cl. 304-315.
- Bartlo, John S.: See—
Frank, Carl A., and Bartlo. 2,816,453.
- Bartolucci, Edgar O. Couch-bed. 2,783,479, 3-5-57, Cl. 5-18.
- Barton, Armand: See—
Kelly, Edmund P., and Barton. 2,797,113.
- Barton, Benjamin D., to American Fire Apparatus Co. Priming device for pumps. 2,801,592, 8-6-57, Cl. 103-113.
- Barton, Hugh M., Jr., to Phillips Petroleum Co. Analyzer. 2,792,501, 5-14-57, Cl. 250-435.
- Barton, Hugh M., Jr., to Phillips Petroleum Co. Photoelectric analyzer. 2,806,148, 9-10-57, Cl. 250-218.
- Barton, John R., to C. A. Wherry. Apparatus for injecting materials into the earth. 2,789,522, 4-23-57, Cl. 111-6.
- Barton, John S., W. J. Follette, and F. L. Schmidt, to Crown Zellerbach Corp. Container for packaging tacky materials. 2,804,205, 8-27-57, Cl. 206-84.
- Barton, Ralph D., to Servel, Inc. Ice making. 2,796,741, 5-25-57, Cl. 62-7.
- Barton, Ralph D., to Servel, Inc. Automatic ice maker. 2,799,144, 7-16-57, Cl. 62-7.
- Barton, Raymond W., to Mead Johnson & Co. Blood bottle closure. 2,804,224, 8-27-57, Cl. 215-37.
- Bartoo, Otto F., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Extrusion head of an apparatus for the manufacture of tubes or hoses from plastic material. 2,805,446, 9-10-57, Cl. 18-14.
- Bartosiewicz, Henry S.: See—
Clark, Thomas H. 2,788,777.
- Bartoszy, Frank J., to The Singer Mfg. Co. Sealing dielectric materials by the application of a radio-frequency arc. 2,796,912, 6-25-57, Cl. 154-42.
- Bartovics, Albert, and S. M. Kinzinger, to The George W. Borg Corp. Pile fabrics and method of pile fabric treatment. 2,815,558, 12-10-57, Cl. 28-72.
- Bartow Beacons, Inc.: See—
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- Bartow, James E. Computer for designing forward scatter propagation systems. 2,809,787, 10-15-57, Cl. 235-84.
- Bartow, John B., to Bartow Beacons, Inc. Apparatus and method for producing autokinematic-stereoscopic vision and optical illusionary effects. 2,781,042, 2-12-57, Cl. 128-765.
- Bartow, Joseph W.: See—
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- Bartz, Melvin C., and W. C. Wintrobe, to Bendix Aviation Corp. Speed sensing apparatus. 2,793,327, 5-21-57, Cl. 317-5.
- Barusch, Maurice R.: See—
Denison, George H., Jr., and Barusch. 2,776,262.
- Barwel Mfg. Co., Inc.: See—
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- Barwidi, George: See—
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- Bary, Woldemar A.: See—
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- Basch, Robert, G. m. b. H.: See—
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- Basche, Joseph A. Game of chance. 2,813,720, 11-19-57, Cl. 273-138.
- Basche, Joseph A., Jr. Rotating pointer game device. 2,788,976, 4-16-57, Cl. 273-141.
- Bascom, Herb W. Door. 2,779,401, 1-29-57, Cl. 160-37.
- Bäsel, Wolfgang. Rail vehicles for transporting containers, vessels, street vehicles and the like. 2,815,720, 12-10-57, Cl. 105-3.
- Baselt, Walter H., to American Steel Foundries. Bolster mounted tread brake arrangement. 2,815,092, 12-3-57, Cl. 188-52.
- Baseman, Maurice S., K. S. Johnston, and S. E. Baseman. Water displacing corrosion inhibiting compositions and process of treating metal surfaces therewith. 2,784,104, 3-5-57, Cl. 106-14.
- Baseman, Sherwin E.: See—
Baseman, Maurice S., Johnson, and Baseman. 2,784,104.
- Basdekis, Costas H., to Monsanto Chemical Co. Calcium and alkali metal double salts of hydrolyzed polyacrylonitrile. 2,812,314, 11-5-57, Cl. 260-80.
- Basford, Kenneth A., and P. Redfern, to Rolls-Royce Ltd. Fuel-systems for internal combustion engines with means to compensate for an operating variable. 2,806,519, 9-17-57, Cl. 158-364.
- Basham, Lawrence H.: See—
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- Bashlow, Archie, and E. Snow. Depth limiting means for drills. 2,794,353, 6-4-57, Cl. 77-55.
- Bashor, Nelson P.: See—
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- Bashover, Albert: See—
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- Bashover, Albert, to Margon Corp. Doll eye. 2,788,610, 4-16-57, Cl. 46-169.
- Basic, Inc.: See—
Pearson, Edward P., and Rusoff. 2,814,567.
Pearson, Edward P., and Rusoff. 2,814,568.
- Basile, Joseph. Anti-skid chain for automotive vehicle tires. 2,792,867, 5-21-57, Cl. 152-219.
- Bask Tool Co.: See—
Allred, Luran L. 2,800,822.
- Baskin, Benjamin J., to American-Marietta Co. Method for prestressing stranded cable. 2,811,773, 11-5-57, Cl. 29-452.
- Baskin, Paul, to Sylvania Electric Products Inc. Orientating mechanism. 2,800,993, 7-30-57, Cl. 198-33.
- Baso Inc.: See—
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- Bassett, Henry W., to The W. E. Bassett Co. Combined tool. 2,814,109, 11-26-57, Cl. 30-152.
- Bassett, Ronald M.: *See*—
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- Bassett, W. E. Co., The: *See*—
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- Bassieré, Jean G.: *See*—
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- Bassler, Guido K.: *See*—
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- Basso, Arthur J.: *See*—
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- Bassoff, Arthur B.: *See*—
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- Bassoff, Arthur B., to National Broach & Machine Co. Gear gauging master. 2,815,579, 12-10-57, Cl. 33-179.5.
- Easter, Forest S., to The White Motor Co. Water softener. 2,784,705, 3-12-57, Cl. 123-41.42.
- Baster, Forest S., to The White Motor Co. Steering tandem rear axle assembly for a tractor of semi-trailers. 2,791,286, 5-7-57, Cl. 180-22.
- Bastian, Arthur L., to Ward Leonard Electric Co. Magnetic amplifier circuit. 2,800,626, 7-23-57, Cl. 323-89.
- Bastian-Blessing Co., The: *See*—
 Johnson, Herman K. 2,814,184.
- Poethig, Robert E., and Billington. 2,813,402.
- Bastie, Francisque. Industrial lift truck with bodily shiftable upright guides and minimum load overhang. 2,792,956, 5-21-57, Cl. 214-672.
- Bastir, Robert: *See*—
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- Basto, Julio H.: *See*—
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- Batchelder, George E., E. Thoresen, and F. Niesemann, to Rockwell Mfg. Co. Predetermining dispensing apparatus. 2,818,193, 12-31-57, Cl. 222-20.
- Batchelder, James W. Container conveying and positioning machine for a packaging apparatus. 2,792,031, 5-14-57, Cl. 141-153.
- Batchelder, James W. Automatic tapping and drilling machine. 2,811,876, 11-5-57, Cl. 77-5.
- Batcheller, Hugh W., to Kent Mfg. Corp. Electrical connector. 2,785,387, 3-12-57, Cl. 339-258.
- Batcheller, Hugh W., to Kent Mfg. Corp. Electric connector with forked member. 2,789,275, 4-16-57, Cl. 339-258.
- Batcheller, Hugh W., to Kent Mfg. Corp. Branch connector for a wire. 2,790,963, 4-30-57, Cl. 339-276.
- Batcheller, Hugh W., to Kent Mfg. Corp. Detachable electrical connector unit. 2,805,405, 9-3-57, Cl. 339-125.
- Batchelor, John H.: *See*—
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- Bateman, Alva W., to E. I. du Pont de Nemours and Co. Process of making patent leather-like finish on polyvinyl chloride sheet materials. 2,801,949, 8-6-57, Cl. 154-120.
- Bateman, George H., R. L. Freeman, and D. W. Holbrook, to A. C. Nielsen Co. Apparatus for indicating instantaneously and at a remote point the tuning condition of one or more wave signal receivers. Re. 2,4320, 5-21-57, Cl. 346-37.
- Bateman, John T.: *See*—
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- Bateman, William H.: *See*—
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- Bates, Clyde N., to The Howe Scale Co. Vehicular beam scale. 2,776,133, 1-1-57, Cl. 265-27.
- Bates, Conrad R., and M. E. Means for controlling the average valve of electric current through a load. 2,817,056, 12-17-57, Cl. 323-4.
- Bates, Denis H., to The National Cash Register Co. Machine for calculating avertisdupois weights. 2,798,672, 7-9-57, Cl. 235-133.
- Bates, George W., to Hughes Aircraft Co. Smoke generating device. 2,809,606, 10-15-57, Cl. 116-114.
- Bates, Harold, J. W. Fisher, and E. J. Upton, to British Celanese Ltd. Treatment of flowable materials. 2,804,457, 8-27-57, Cl. 260-227.
- Bates, Inman B. Connecting rod construction. 2,787,163, 4-2-57, Cl. 74-44.
- Bates, Jackson W. Apparatus for close-up stereography of immovable objects. 2,795,173, 6-11-57, Cl. 95-18.
- Bates, John J. Artificial fish lure. 2,793,462, 5-28-57, Cl. 43-42.44.
- Bates, Luther K.: *See*—
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- Bates, Madeline E.: *See*—
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- Bates Mfg. Co.: *See*—
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- Bates, Minnie M. Bound buttonhole gauge. 2,786,278, 3-26-57, Cl. 33-190.
- Bates, Reginald G.: *See*—
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- Bates, Robert L., to Chemineer, Inc. Fluid agitating devices. 2,791,406, 5-7-57, Cl. 259-97.
- Bates Shoe Co.: *See*—
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- Bates, Sidney B., to Pullman-Standard Car Mfg. Co. Railway track dressing apparatus. 2,777,220, 1-15-57, Cl. 37-103.
- Bates, Woodrow F.: *See*—
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- Batesman, Frederic S. Spraying apparatus. 2,793,073, 5-21-57, Cl. 299-1.
- Bath Cyril Co., The: *See*—
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- Bathurst, William N., and I. M. Jarvis, to Heenan & Froude Ltd. Valve control system for hydraulic dynamometers, brakes and couplings. 2,784,728, 3-12-57, Cl. 137-47.
- Batis, Joseph F.: *See*—
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- Batori, Oscar E. Mounting structure sensitive to the direction of movement of the mounted object, and clutch incorporated therein. 2,795,299, 6-11-57, Cl. 188-83.
- Batson, Dossie M., and D. R. Shirley, said Batson assor. to said Shirley. Machine for yarding and loading logs. 2,784,850, 3-12-57, Cl. 212-58.
- Batson, Oscar R., B. F. Moore, and A. U. Christie. Air-conditioned oxygen-box. 2,776,657, 1-8-57, Cl. 128-1.
- Batstone, James E. Clam digging device. 2,802,689, 8-13-57, Cl. 294-50.7.
- Batteau, Dwight W. Gaseous-discharge method and system. 2,817,032, 12-17-57, Cl. 313-63.
- Battelle Development Corp., The: *See*—
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- Willardson, Robert K., Goering, and Harman. 2,778,802.
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- Batterman, Jacob F. Pivotaly supported shoe tree unit. 2,808,600, 10-8-57, Cl. 12-53.6.
- Batley, Everett M., to the United States of America as represented by the Secretary of the Army. Slurry type liquid treating apparatus. 2,787,378, 4-2-57, Cl. 210-512.
- Battiste, Donald A. Process for the production of a dehydrated bread sponge product. 2,808,334, 10-1-57, Cl. 99-94.
- Battistello, Dominic A. Tool for removing tear strips from tin cans. 2,784,867, 3-12-57, Cl. 220-52.
- Battistowne, Aduato. Liquefying devices. 2,793,840, 5-28-57, Cl. 259-108.
- Battle, Jack L., to Esso Research and Engineering Co. Method for protecting oil well casings. 2,795,278, 6-11-57, Cl. 166-1.
- Battle, Jack L., to Esso Research and Engineering Co. Well casing protected against electrolytic action. 2,809,699, 10-15-57, Cl. 166-46.
- Battle, Norman, and N. R. Robinson, to Rolls-Royce Ltd. Jet-nozzle arrangements with outlet area varying means. 2,801,516, 8-6-57, Cl. 60-35.6.
- Battner, Stephen, to C. R. Daniels, Inc. Loom. 2,790,465, 4-30-57, Cl. 139-55.
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- Batts, John H., to John Thomas Batts, Inc. Method of producing coat hanger material. 2,813,560, 11-19-57, Cl. 144-309.
- Batts, John Thomas, Inc.: *See*—
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- Baude, John, to Allis-Chalmers Mfg. Co. Control system employing a thermal relay coordinated with circuit breakers. 2,811,678, 10-29-57, Cl. 317-132.
- Baudet, Raimond E. M.: *See*—
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- Baudry, René A., to Westinghouse Electric Corp. Waterwheel generator assembly. 2,792,505, 5-14-57, Cl. 290-52.
- Baudry, René A., to Westinghouse Electric Corp. Laminated end-shield for turbine generators. 2,795,714, 6-11-57, Cl. 310-256.

- Baudry, René A., and P. R. Heller, to Westinghouse Electric Corp. Conductor-ventilated turbine-generators. 2,780,739, 2-5-57, Cl. 310-55.
- Baudry, René A., and G. E. Peterson, to Westinghouse Electric Corp. Bearings. 2,788,251, 4-9-57, Cl. 308-160.
- Bauer, Albert W.: See—
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- Pacsu, Eugene, and Bauer. 2,779,694.
- Bauer, Albert W., and C. F. Belcher, to E. I. du Pont de Nemours and Co. Quinophthalone dyes for hydrophobic fibers. 2,795,582, 6-11-57, Cl. 260-247.5.
- Bauer, Alfred F., to National Lead Co. Split dies provided with cooling means. 2,811,761, 11-5-57, Cl. 22-203.
- Bauer, Alfred F., and C. Pack, to National Lead Co. Press for forging metal. 2,780,117, 2-5-57, Cl. 78-41.
- Bauer Bros. Co., The: See—
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- Steiniger, Herman W. 2,779,638.
- Woodruff, Maurice D. 2,809,567.
- Bauer, Benjamin B. Apparatus for determining proper contrast-grade of photosensitive paper and exposure time. 2,795,168, 6-11-57, Cl. 88-24.
- Bauer, Curt, to North American Philips Co., Inc. Explosion-proof connector for electric lamps. 2,802,998, 8-13-57, Cl. 339-111.
- Bauer, Earl W., to Wagner Electric Corp. Device for eliminating noise and vibration in dynamoelectric machines. 2,798,192, 7-2-57, Cl. 318-221.
- Bauer, Edwin W., to International Business Machines Corp. Non-destructive sensing of magnetic cores. 2,814,794, 11-26-57, Cl. 340-174.
- Bauer, Ernest K., to American Viscose Corp. Tape-applying device. 2,786,257, 3-26-57, Cl. 28-32.
- Bauer, Ernest K., to American Viscose Corp. Extrusion apparatus. 2,801,440, 8-6-57, Cl. 18-8.
- Bauer, Eugen, G. m. b. H.: See—
- Barthruft, Otto. 2,791,934.
- Bauer, George W.: See—
- Busch, Lee S., and Bauer. 2,777,768.
- Bauer, Horace P., to The Budd Co. Frame with bracket for automobiles. 2,809,050, 10-8-57, Cl. 280-106.
- Bauer, Jacob L., to Esso Research and Engineering Co. Slide valve structure. 2,787,438, 4-2-57, Cl. 251-326.
- Bauer, Kurt: See—
- Krimm, Heinrich, Harman, and Bauer. 2,784,182.
- Bauer, Lester L.: See—
- Lane, Sanford A., and Bauer. 2,810,429.
- Bauer, Lester L., to Gendron Wheel Co. Collapsible stretcher. 2,781,525, 2-19-57, Cl. 5-81.
- Bauer, Matthew F. Tap having combined thread cutting and swagging teeth followed by full thread cutting teeth. 2,816,302, 12-17-57, Cl. 10-140.
- Bauer, Robert E. Container construction. 2,784,900, 3-12-57, Cl. 229-35.
- Bauer, Robert F., R. C. McNeill, and J. T. Ledbetter, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. Off-shore drilling. 2,808,229, 10-1-57, Cl. 255-25.
- Bauer, Russell E., and J. D. Lorimer. Gun fire control system with hydraulic superlevation. 2,789,475, 4-23-57, Cl. 89-41.
- Bauer, Walter. Production of molded articles from mixed synthetic substances. 2,788,545, 4-16-57, Cl. 18-47.5.
- Bauer, Wilhelm: See—
- Reichard, Hans, and Bauer. 2,812,694.
- Bäuerle, Kurt: See—
- Junghans, Helmut, and Bauerle. 2,777,278.
- Bauerle, Lester C., and I. W. Nicholson, to the United States of America as represented by the Secretary of the Interior. Method of recovering vanadium from leach liquors. 2,784,075, 3-5-57, Cl. 75-6.
- Bauerlein, Carl C., to The Dole Valve Co. Refrigerator dispenser for concentrates. 2,785,546, 3-19-57, Cl. 62-141.
- Bauerlein, Carl C., to The Dole Valve Co. Dispenser for concentrates and the like. 2,785,830, 3-19-57, Cl. 222-57.
- Bauerlein, Carl C., to The Dole Valve Co. Liquid measuring and dispensing device. 2,811,286, 10-29-57, Cl. 222-212.
- Bauerlein, Carl C., and J. J. Goodwillie, to The Dole Valve Co. Dispenser for concentrates. 2,785,833, 3-19-57, Cl. 222-108.
- Bauermeister, Hans J., to Olympia Werke Aktiengesellschaft. Separable hinge. 2,808,611, 10-8-57, Cl. 16-177.
- Bauermeister, Heinrich: See—
- Krug, Hans-Dietrich, and Bauermeister. 2,782,460.
- Bauermeister, Heinrich A., and H. D. Krug, to Continental Gummi-Werke Aktiengesellschaft. Device for heating of molded bodies, especially tires, in an electric high-frequency alternating field. 2,797,440, 7-2-57, Cl. 18-38.
- Bauermeister, Heinrich and H.-D. Krug, to Continental Gummi-Werke Aktiengesellschaft. Device for heating of molded bodies, especially tires, in an electric high-frequency alternating field. 2,797,441, 7-2-57, Cl. 18-38.
- Bauger, Louis J.: See—
- Meulein, Henri L. P., Bauger, and Turinetti. 2,797,547.
- Baugh, Archie E. Journal grinder and attachment therefor. 2,790,281, 4-30-57, Cl. 51-241.
- Baugh, Charles W., Jr.: See—
- Farr, Kenneth E., Baugh, and Heffron. 2,780,668.
- Baugh, Charles W., Jr., to Westinghouse Electric Corp. Color television apparatus. 2,792,446, 5-14-57, Cl. 178-5.4.
- Baugh, Herbert H., and K. G. F. Moeller. Ball bearing test machine. 2,796,759, 6-25-57, Cl. 73-67.
- Baughan, Fred A. Stove construction. 2,796,119, 6-18-57, Cl. 158-91.
- Baughman, John E., to the United States of America as represented by the Secretary of the Navy. Connector for securing initiator rocket to an aerial vehicle. 2,779,283, 1-29-57, Cl. 102-49.
- Baughman, Robert W., and R. A. Grange, to United States Steel Corp. Method of improving machinability of steel. 2,779,698, 1-29-57, Cl. 148-21.5.
- Baum, Frederick J., Jr., to Leeds & Northrup Co. Measurement of light scattering. 2,788,702, 4-16-57, Cl. 88-14.
- Baum, George J. Article of furniture. 2,804,122, 8-27-57, Cl. 155-43.
- Baum, Harold D. Vending machine. 2,777,603, 1-15-57, Cl. 221-84.
- Baum, John W. Fish lures. 2,787,075, 4-2-57, Cl. 43-42.5.
- Baum, Martin A.: See—
- Benning, Richard F., and Baum. 2,801,900.
- Bauman, Guillermo G.: See—
- Carrasco, John A., and Bauman. 2,790,566.
- Bauman, Harold W.: See—
- Howell, Hugh A., and Bauman. 2,801,293.
- Baumann, Frank J., and M. D. Rodgers, to Industrial Rayon Corp. Tube holding assembly. 2,776,098, 1-1-57, Cl. 242-130.
- Baumann, Frederick W.: See—
- Hamm, Clarence L., and Baumann. 2,778,958.
- Baumann, Friedrich, to VEB Leuna-Werke "Walter Ulbricht." Process for simultaneously producing hydrogen and a carbon monoxide hydrogen mixture and a plant for carrying out the process. 2,809,099, 10-8-57, Cl. 23-213.
- Baumann, Fritz, B. Bienert, and G. Rösch, to Farbenfabriken Bayer Aktiengesellschaft. 1-alkoxy-3 imino-isodolenine derivatives. 2,778,819, 1-22-57, Cl. 260-319.
- Baumann, Fritz, and H.-S. Blen, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of vat dyestuffs of the "benzanthronimide green" series. 2,805,224, 9-3-57, Cl. 260-274.
- Baumann, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Gas turbine installation for the generation of hot compressed air. 2,793,019, 5-21-57, Cl. 263-19.
- Baumann, Karl E., to Baxter Laboratories, Inc. Inflatable gripping mechanism. 2,784,997, 3-12-57, Cl. 294-88.
- Baumann, Karl E., to Baxter Laboratories, Inc. Closure. 2,787,394, 4-2-57, Cl. 215-46.
- Baumann, Karl E., to Baxter Laboratories, Inc. One-piece tear-cap or closure. 2,789,718, 4-23-57, Cl. 215-46.
- Baumbach, Emil A. Switch with cushioning protective housing. 2,791,665, 5-7-57, Cl. 200-168.
- Baumgardner, William C., to Punch and Judy. Figure with balloon inflating means. 2,776,530, 1-8-57, Cl. 53-268.
- Baumgarten, Jochem, to General Motors Corp. Engine-hood construction for automobiles. 2,783,978, 3-5-57, Cl. 257-132.
- Baumgarten, Ulrich: See—
- Ostwald, Fritz, and Baumgarten. 2,818,138.
- Baumgarten, Werner, and R. F. Johnson, to Merck & Co., Inc. Process for preparing pancreatic desoxyribonuclease. 2,801,956, 8-6-57, Cl. 195-66.
- Baumgarth, John. Display device. 2,796,687, 6-25-57, Cl. 40-120.
- Baumgartner, Eduard. Loose reed loom. 2,813,550, 11-19-57, Cl. 139-189.
- Baumgartner, Frederick N., to Esso Research and Engineering Co. Production of cyclic hydroperoxides. 2,798,096, 7-2-57, Cl. 260-610.
- Baumgartner, George R., and C. M. Cutler, to General Electric Co. Adapter holder for circular lamps. 2,817,004, 12-17-57, Cl. 240-51.12.
- Baumgartner, Heinrich, to Hartford National Bank and Trust Co., as trustee. Radio-receiver with tuning indication when listening and volume indication when recording. 2,808,467, 10-1-57, Cl. 179-100.11.
- Baumgartner, John G. Brush dispenser. 2,806,634, 9-17-57, Cl. 221-301.
- Baumgartner, John R. Blank forming press. 2,798,417, 7-9-57, Cl. 93-58.3.
- Baumgartner, Philip T.: See—
- Sheldrick, Henry W., and Baumgartner. 2,783,053.
- Baun, Raymond F., to Allen-Bradley Co. Apparatus for the termination of a heat applying interval. 2,784,298, 3-5-57, Cl. 219-89.
- Baur, Arnold: See—
- Schulz, Paul, and Bauer. 2,791,727.
- Bauroth, Walter J., to The Jeffrey Mfg. Co. Brush holder. 2,804,558, 8-27-57, Cl. 310-246.
- Bausch & Lomb Optical Co.: See—
- Benford, James R. 2,800,818.
- Boughton, Olin W. 2,806,406.
- De Grave, Charles J., Jr. 2,808,761.
- De Grave, Charles J., Jr. 2,808,762.
- Franke, Georg H. 2,796,804.
- Murray, Allen E. 2,777,364.
- Stegeman, Raymond F. E. 2,777,356.
- Stegeman, Raymond F. E. 2,777,361.
- Stegeman, Raymond F. E. 2,777,489.
- Stegeman, Raymond F. E. 2,796,803.
- Stegeman, Raymond F. E. 2,800,695.
- Stegeman, Raymond F. E. 2,801,396.
- Stegeman, Raymond F. E. 2,806,404.
- Stegeman, Raymond F. E. 2,806,407.

- Bauserman, James R. Vehicle license tag and tab construction. 2,780,018, 2-5-57, Cl. 40-125.
- Bayley, Abraham, and W. M. McLamore, to Chas. Pfizer & Co., Inc. Hypnotic agent and intermediate. 2,791,602, 5-7-57, Cl. 260-463.
- Bayley, Abraham, and W. M. McLamore, to Chas. Pfizer & Co., Inc. Process for preparing carbamates of tertiary acetylenic carbinols. 2,791,603, 5-7-57, Cl. 260-463.
- Bavouset, Russell R. Solubilizer for preparing an aqueous soluble menadione. 2,808,361, 10-1-57, Cl. 167-81.
- Bax, Frans R., to General Electric Co. Horizontal die casting machine. 2,795,021, 6-11-57, Cl. 22-68.
- Bax, Henry W. Cloth laying machine. 2,795,416, 6-11-57, Cl. 270-31.
- Baxendale, Ralph W., A. A. Rasch, and J. I. Crabtree, to Eastman Kodak Co. Stabilizing agents for single powder photographic developers. 2,816,026, 12-10-57, Cl. 96-66.
- Baxter-Carr, Edgar D. S., to Glaxo Laboratories Ltd. Apparatus for capping vials and the like. 2,811,000, 10-29-57, Cl. 53-297.
- Baxter, Don, Inc.: See—
Hainsworth, John G. 2,798,855.
Hainsworth, John G. 2,798,856.
Hamilton, Donald A. 2,798,687.
Martinez, Frank E. 2,784,733.
- Baxter, Donald L., and G. C. Motsinger, to Reliable Electric Co. Air gap arrester unit. 2,792,471, 5-14-57, Cl. 200-118.
- Baxter, Frederic L., Jr., to Hartford Steel Ball Co., Inc. Centrifugal governing apparatus. 2,805,738, 9-10-57, Cl. 188-187.
- Baxter, Gene F.: See—
Redfern, Donald V., and Baxter. 2,813,082.
- Baxter, J. H., & Co.: See—
Pence, Harry A. 2,781,802.
- Baxter Laboratories, Inc.: See—
Anthony, Paul Z., Borgen, and Ginger. 2,803,654.
Baumann, Karl E. 2,784,997.
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Broman, Cyrus R. 2,784,716.
Morris, William E. 2,808,053.
Thomas, James G., and Broman. 2,777,443.
- Baxter, Robert R.: See—
Schleyer, Victor, Henricks, and Baxter. 2,811,258.
- Baxter, William E., and L. E. Palmer, to Union Insulating Co., Inc. Machine screw holes molded in plastic articles. 2,775,916, 1-1-57, Cl. 85-32.
- Bay, Alfred P. 1/2 to P. E. Feldman. Fishing lures. 2,787,859, 4-9-57, Cl. 43-42,28.
- Bayard, Robert T.: See—
Baer, William, Bayard, and Swift. 2,809,313.
- Bayer, Frank C., to Thompson Products, Inc. Flow distributor. 2,786,482, 3-26-57, Cl. 137-118.
- Bayer, Matthew F., to Simmons Co. Lounge chair. 2,804,910, 9-3-57, Cl. 155-106.
- Bayer, Otto: See—
Becker, Wilhelm, Schmidt, and Bayer. 2,816,397.
Dorlars, Alfons, Bayer, and Enders. 2,804,455.
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Wagner, Kuno, Müller, Bayer, and Grab. 2,790,808.
- Bayerköhler, Irvin L. Pneumatic bellows type jacks. 2,804,118, 8-27-57, Cl. 153-32.
- Bayes, Franklin J. 1/2 to G. Y. Paget. Fishing appliance. 2,783,574, 3-5-57, Cl. 43-16.
- Bayes, Ross, O. W. Langhans, and L. Greenspan, to The American Platinum Works. Anode. 2,802,782, 8-13-57, Cl. 204-292.
- Bayhi, Joseph F., to Esso Research and Engineering Co. Continuous reelable geophone. 2,807,793, 9-24-57, Cl. 340-17.
- Bayhi, Joseph F., to Esso Research and Engineering Co. Seismic prospecting. 2,813,592, 11-19-57, Cl. 181-5.
- Baylerian, Marguerite S.: See—
Wilson, Glenn R., and Baylerian. 2,809,206.
- Bayley, Frederick J., to Pembroke Carton and Printing Co. Ltd. Automatic machine for assembling cartons from blanks. 2,801,578, 8-6-57, Cl. 93-39.
- Bayley, George R.: See—
Muller, Lloyd E., and Bayley. 2,800,285.
- Bayliss, Alan J., to The General Electric Co. Ltd. Electric pulse generators. 2,787,708, 4-2-57, Cl. 250-27.
- Baymiller, John W., to Armstrong Corp. Co. Air curing of water-laid hardboard containing butadiene-styrene copolymer. 2,812,252, 11-5-57, Cl. 92-3.
- Baymiller, John W., and D. A. Feigley, Jr., to Armstrong Cork Co. Surface covering. 2,802,765, 8-13-57, Cl. 154-49.
- Bayne, Thomas W. Safety razors. 2,787,829, 4-9-57, Cl. 30-43.
- Bayon, Patrice M. Closing device for belts. 2,807,067, 9-24-57, Cl. 24-170.
- Bay State Abrasive Products Co.: See—
Ball, Albert L. 2,778,169.
- Bayston, John R. Ice making machines. 2,803,950, 8-27-57, Cl. 62-107.
- Bazhaw, Willis O. Method of determining geological features. 2,805,727, 9-10-57, Cl. 181-5.
- Bazner, Eugene. Earring clamp. 2,788,559, 4-16-57, Cl. 24-248.
- Beach, Helene C. 1/2 to M. C. Shaps. Ladies' and children's wearing apparel. 2,803,014, 8-20-57, Cl. 2-105.
- Beach, Herman K., Jr., to The Bridgeport Metal Goods Mfg. Co. Cosmetic holder. 2,794,547, 6-4-57, Cl. 206-56.
- Beach, James B., to Lockheed Aircraft Corp. Aircraft rocket launcher. 2,802,398, 8-13-57, Cl. 89-17.
- Beach, Justice H., to The Hoover Co. Actuating mechanism for steam iron control valve. 2,786,288, 3-26-57, Cl. 38-77.
- Beach, Justice H., to The Hoover Co. Mounting structure for steam iron reservoir. 2,803,072, 8-20-57, Cl. 38-77.
- Beach, Lennox F., to Sperry Rand Corp. Evacuated gyroscopic assembly. 2,782,642, 2-26-57, Cl. 74-5.
- Beach, Milton B., to Flexible Steel Lacing Co. Template for belt fasteners. 2,795,788, 6-18-57, Cl. 1-49.8.
- Beach, Norman F.: See—
Carroll, Burt H., and Beach. 2,784,091.
- Beach, Robert W.: See—
Putnam, Austin C. 2,806,601.
- Beach, Ronald O. Firing mechanism for a depth charge. 2,780,992, 2-12-57, Cl. 102-7.
- Beach, Theodore L., Jr. Rear view mirror stabilizing arrangement. 2,807,985, 10-1-57, Cl. 88-98.
- Beach, William G., to Underwood Corp. Power movement control for business machine. 2,816,641, 12-17-57, Cl. 197-66.
- Beachee Products Corp.: See—
Frick, Harold L. 2,799,100.
- Beacon Production Equipment Corp.: See—
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Fenton, Frank W., and Bock. 2,792,950.
- Bead Chain Mfg. Co., The: See—
Bahr, Gustave F. 2,814,086.
- Beadle, Leonard A., to Rolock, Inc. Stackable free sledding processing carrier. 2,807,454, 9-24-57, Cl. 263-47.
- Beagle, Roland F., to H & H Mfg. Co., Inc. Centrifugal pump. 2,796,028, 6-18-57, Cl. 103-103.
- Beaham, Gordon T., III. Weighted coaster. 2,784,577, 3-12-57, Cl. 65-61.
- Beal, Dick H., R. C. Pomeroy, G. H. Robertson, and D. M. Zinn, to Bell Telephone Laboratories, Inc. System for testing pulse generators. 2,789,267, 4-16-57, Cl. 324-57.
- Beal, Fay, to J. Beal. Locking system for automotive vehicles. 2,799,154, 7-16-57, Cl. 70-264.
- Beal, Josephine: See—
Beal, Fay. 2,799,154.
- Beal, Philip F.: See—
Hogg, John A., Beal, and Lincoln. 2,813,111.
- Beal, Philip F., III: See—
Hogg, John A., Beal, Nathan, and Lincoln. 2,790,814.
- Beale, Dorr D. Plated saw blade. 2,791,248, 5-7-57, Cl. 143-133.
- Beale, Dorr D., W. E. Johnson, and R. L. Allen, to Shopmaster, Inc. Radial arm power tool. 2,811,182, 10-29-57, Cl. 143-6.
- Beale, Frederic S.: See—
Harris, Bernard, Beale, and Dobyns. 2,806,136.
- Beale, Richard D., D. H. Jubb, and B. C. J. Stevenson, to Rolls-Royce Ltd. Aircraft reaction propulsion units and installations with means to produce reverse thrust. 2,780,058, 2-5-57, Cl. 60-35.54.
- Bealer, Irving W. Pressure device for use in impregnating radiators. 2,784,731, 3-12-57, Cl. 137-235.
- Bealer, Irving W. Method for pressure sealing radiator leaks. 2,812,268, 11-5-57, Cl. 117-2.
- Beall, Richard W., Jr. Fluid dispensing devices. 2,779,517, 1-29-57, Cl. 222-484.
- Beall, Richard W., Jr. Vented fitment. 2,812,113, 11-5-57, Cl. 222-11.
- Beall, Richard W., Jr. Vented closure. 2,812,120, 11-5-57, Cl. 222-481.5.
- Beall, William R., 1/2 to R. Bannister. Apparatus for handling articles. 2,782,577, 2-26-57, Cl. 53-59.
- Beam, Albert S., and C. B. Stapleton, to Vinco Corp. Bevel gear checking master. 2,810,965, 10-29-57, Cl. 33-179.6.
- Beam, Earl B. Portable mixer. 2,811,338, 10-29-57, Cl. 259-85.
- Beamer, John D.: See—
Greig, James W., and Beamer. 2,784,445.
- Beamer, John D., to Woodall Industries, Inc. Door assemblies. 2,798,262, 7-9-57, Cl. 20-35.
- Bean, Claude T., Jr.: See—
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Robitschek, Paul, and Bean. 2,783,215.
Robitschek, Paul, Bean, and Newcomer. 2,779,769.
- Bean, Morris, and Co.: See—
Bean, Morris M., and McPhaden. 2,782,477.
- Bean, Morris M., and B. McPhaden, to Morris Bean and Co. Precision casting mold and method of making. 2,782,477, 2-26-57, Cl. 22-131.
- Beanum, Eddie. Method of breaking concrete wall ties. 2,777,479, 1-15-57, Cl. 140-149.
- Bear Mfg. Co.: See—
MacMillan, Charles W. 2,777,327.
Martin, Sidney W. 2,777,211.
- Beard, Edward S. Tubular fabric feeding and rolling machine. 2,812,568, 11-12-57, Cl. 26-55.

- Beard, Michael O., Jr. Track end connector puller. 2,797,470, 7-2-57, Cl. 29-256.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,787,903, 4-9-57, Cl. 73-23.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Constituent potential measuring apparatus. 2,787,904, 4-9-57, Cl. 73-27.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Constituent potential measuring apparatus. 2,811,037, 10-29-57, Cl. 73-23.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Sorbition gas analysis apparatus. 2,817,229, 12-24-57, Cl. 73-26.
- Beard, Wesley B. Laterally shiftable power driven orchard cultivator. 2,805,612, 9-10-57, Cl. 97-43.
- Bearden, Joseph M. Gutter screen clip. 2,810,173, 10-22-57, Cl. 24-81.
- Beardsell, Wallace A., W. M. Davis, and R. S. Hood, to Monsanto Chemical Co. Process and apparatus for treatment of fibers. 2,775,792, 1-1-57, Cl. 19-66.
- Beardslee, Howard J., Jr., to The Beller Corp. Spark plug. 2,798,980, 7-9-57, Cl. 313-136.
- Beardsley, Frank H., to Collins Radio Co. Mechanical resonant disc sorting system. 2,791,328, 5-7-57, Cl. 209-72.
- Beardsley, Gale R., to International Harvester Co. Internal combustion engine valve assembly. 2,806,460, 9-17-57, Cl. 123-90.
- Beare, Charles H., to General Motors Corp. Method of molding. 2,798,257, 7-9-57, Cl. 18-55.
- Beare, Leonard E., to Sinclair Refining Co. Method and composition for counteracting sulfurous odors in a phosphorus sulfide-hydrocarbon reaction product. 2,812,320, 11-5-57, Cl. 260-139.
- Bearer, Louis C.: See—
McIntire, Robert L., Begley, and Bearer. 2,813,699.
- Bearer, Louis C., to Phillips Petroleum Co. Adjustable pebble feeder for gas lift conduit. 2,805,899, 9-10-57, Cl. 302-53.
- Bearer, Louis C., and R. L. McIntire, to Phillips Petroleum Co. Pebble heat exchange chamber. 2,782,106, 2-19-57, Cl. 23-284.
- Bears, Earl T.: See—
Eatee, Ralph G., Bears, Berry, and Sheeran. 2,812,797.
- Beart, Robert W., to Illinois Tool Works. Helical split ring biting tooth washer adapted to be retained on a rotary fastener. 2,781,812, 2-19-57, Cl. 151-35.
- Beasley, George A., to The Univis Lens Co. Method of making ophthalmic lens. 2,796,000, 6-18-57, Cl. 88-54.
- Beati, Enrico, and F. Severini, to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Process for producing highly concentrated cumene hydroperoxide. 2,799,711, 7-16-57, Cl. 260-610.
- Beatrice Foods Co.: See—
Shadwick, George W. 2,776,754.
- Beattie, Allan L. Door edge lock clip. 2,792,247, 5-14-57, Cl. 292-141.
- Beattie, Clare L., and H. D. Parks, to General Electric Co. Electronic generator of a function of two variables. 2,797,865, 7-2-57, Cl. 235-61.
- Beattie, Jet Products Inc.: See—
Beattie, Robert W. 2,804,899.
- Beattie, John S.: See—
Rochester, Roy M., and Beattie. 2,779,726.
- Beattie Mfg. Co.: See—
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- Beattie, Robert W., to Beattie Jet Products Inc. Lined tobacco pouches. 2,804,899, 9-3-57, Cl. 150-28.
- Beattie, Wilford E.: See—
Boone, Ronald E., and Aldrich. 2,786,553.
- Beatty, Chester. Means for removing meat from bones. 2,784,446, 3-12-57, Cl. 17-1.
- Beatty, Donald C. Sound amplifying apparatus for telephone circuits. 2,786,099, 3-19-57, Cl. 179-1.
- Beatty, Guy M. Pipe coupling. 2,814,514, 11-26-57, Cl. 286-16.5.
- Beatty, Harold A., and T. P. Whaley, to Ethyl Corp. Preparation of refractory metals. 2,818,330, 12-31-57, Cl. 75-84.
- Beatty, Harold J. Fluid sampler. 2,811,041, 10-29-57, Cl. 73-422.
- Beatty, John W., to General Electric Co. Operating mechanism for a fluid-blast circuit breaker. 2,783,338, 2-26-57, Cl. 200-148.
- Beatty, John W., and R. M. Anderson, to General Electric Co. Fluid blast circuit interrupter. 2,783,337, 2-26-57, Cl. 200-148.
- Beatty, William E.: See—
Schroeder, Oscar W. 2,815,607.
- Beaty, Edna: See—
Hodges, Hiram M. 2,777,769.
- Beauchamp, Robert O., Jr., to Tennessee Corp. Methods for stabilization of the manganous salt of dimethyl dithiocarbamic acid and the products thereof. 2,806,870, 9-17-57, Cl. 260-429.
- Beaudet, Armand: See—
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- Beaudoin, Jack. Oil burning camp stove. 2,780,216, 2-5-57, Cl. 126-93.
- Beaufour, Albert: See—
Beaufour, Henri and A. Beaufour, Buzas, and Dufour. 2,794,045.
- Beaufour, Henri, A. Beaufour, A. Buzas, and C. Dufour. Monobetaine citrate. 2,794,045, 5-28-57, Cl. 260-501.
- Beaufoy, Raymond, to British Telecommunications Research Ltd. Electrical signalling systems. 2,797,320, 6-25-57, Cl. 250-27.
- Beaufoy, Raymond, to British Telecommunications Research Ltd. Apparatus for converting varying uni-directional voltage. 2,801,283, 7-30-57, Cl. 178-70.
- Beaulac, Albert J. Garment hanger. 2,805,012, 9-3-57, Cl. 223-91.
- Beaulieu, Delton C., to Kimberly-Clark Corp. Method for handling sheets in the formation of a stack of uniform size sheets. 2,795,274, 6-11-57, Cl. 164-17.
- Beaumont Birch Co.: See—
Pynor, Thomas E. 2,804,170.
Pynor, Thomas E. 2,804,349.
Pynor, Thomas E. 2,805,895.
Taylor, Reginald W. 2,805,836.
- Beaumont, Gerald M. Roller-type lawn mower. 2,777,274, 1-15-57, Cl. 56-249.
- Beaumont, Henry F., to C. M. L. B. De Carbon. Shock absorber reservoir valves. 2,818,142, 12-31-57, Cl. 188-100.
- Beaumont, James O.: See—
MacKnight, Merritt L., and Beaumont. 2,787,418.
- Beaumont, James O., to Hughes Aircraft Co. Devices employing the precession resonance of paramagnetic media. 2,793,360, 5-21-57, Cl. 340-347.
- Beaumont, John C., and M. E. Sapko. Hydraulic brake. 2,807,335, 9-24-57, Cl. 188-90.
- Beaumont, Joseph V., to The Hoover Co. Machine for drying fabrics and the like. 2,784,500, 3-12-57, Cl. 34-58.
- Beauregard, Horace A. Combination lock for wall safes and the like. 2,816,432, 12-17-57, Cl. 70-156.
- Beautee-Fit Co.: See—
Hazard, Vivian E. 2,800,659.
- Beautiful Bryans, Inc.: See—
Cobert, Arthur J. 2,787,146.
- Beauty Products, Ltd.: See—
Propst, Robert L. 2,804,129.
- Beaven, Leslie W. Rotary valving for internal combustion engines. 2,795,216, 6-11-57, Cl. 123-47.
- Beavens, Elmer A.: See—
Rocklan, Louis B., Beavens, and Underwood. 2,816,835.
- Beaver-Advance Corp.: See—
Weisz, Daniel I. 2,808,165.
Weisz, Daniel I. 2,808,297.
Weisz, Daniel I. 2,810,612.
- Beaver, Basil A. Grease gun. 2,797,029, 6-25-57, Cl. 222-260.
- Beaver, Bud K. Ratchet type movable jaw wrench. 2,797,600, 7-2-57, Cl. 81-179.
- Beaver, Charles E., to Research-Cottrell, Inc. Combination electrostatic precipitator and heat conserving device. 2,800,193, 7-23-57, Cl. 183-7.
- Beaver, Charles E., to Research Corp. Method of electrical precipitation. 2,814,360, 11-26-57, Cl. 183-119.
- Beaver, David J.: See—
Stoffel, Paul J., and Beaver. 2,803,655.
- Beaver, David J., R. S. Shumard, and P. J. Stoffel, to Monsanto Chemical Co. Antiseptic soap composition. 2,798,046, 7-2-57, Cl. 252-107.
- Beaver, David J., P. M. Downey, and J. O. Harris, to Monsanto Chemical Co. Rubber compositions stabilized with 6-diethylamino substituted 1,2-dihydroquinolines. 2,805,212, 9-3-57, Cl. 260-45.8.
- Beaver, David J., and R. O. Zerbe, to Monsanto Chemical Co. Preserving rubber with alkylated dihydroxy diaryl methanes. 2,816,945, 12-17-57, Cl. 260-800.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. N(3-methyl-5-pyrazolone)-halo-carboxanilides. 2,817,666, 12-24-57, Cl. 260-310.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Antiseptic soap composition. 2,818,390, 12-31-57, Cl. 252-107.
- Beaver, John F. Bright copper plating. 2,805,193, 9-3-57, Cl. 204-52.
- Beaver, John F., and C. N. Abbott, to The Dayton Bright Copper Co. Bright copper plating. 2,805,194, 9-3-57, Cl. 204-52.
- Beaver Precision Products, Inc.: See—
Morris, Walter H. 2,795,149.
- Sears, Richard E. 2,793,538.
- Beaver Tool and Engineering Corp.: See—
Jackson, Robert O. 2,780,467.
- Beaver, Wallace W., to the United States of America as represented by the United States Atomic Energy Commission. Selective chlorination of beryl. 2,789,880, 4-23-57, Cl. 23-16.
- Beaver, William L., to Varian Associates. Electron beam discharge device. 2,800,604, 7-23-57, Cl. 315-3.5.
- Beavers, Ellington M., and T. E. Bockstahler, to Rohm & Haas Co. Copolymers of triallyl trimetate and unsaturated linear polyesters. 2,806,014, 9-10-57, Cl. 260-45.4.
- Beavers, Ellington M., and E. F. Riener, to Rohm & Haas Co. Preparation of cyanohydrins. 2,812,338, 11-5-57, Cl. 260-404.
- Beazley, Thomas A., to British Tyre & Rubber Co. Ltd. Fitting for plural layer wire reinforced hoses. 2,797,111, 6-25-57, Cl. 285-149.
- Beber, Adolph J., to The General Tire & Rubber Co. Process of shortstopping compounds using alkali metal trithiocarbonate. 2,793,011, 5-28-57, Cl. 260-45.7.
- Bebinger, Charles N., to Joy Mfg. Co. Swivel coupling. 2,789,681, 4-23-57, Cl. 198-95.

- Bebry Bedding Corp.: See—
 Bebry, Peter P. 2,783,478.
 Bebry, Peter P. 2,785,416.
 Bebry, Peter P. 2,790,977.
 Bebry, Peter P. 2,814,050.
 Bebry, Peter P., and Laemmle. 2,758,231.
 Laemmle, David C. 2,812,523.
- Bebry, Peter P., to Bebry Bedding Corp. Sofa bed construction. 2,783,478, 3-5-57, Cl. 5-13.
- Bebry, Peter P., to Bebry Bedding Corp. Ottoman bed. 2,785,416, 3-19-57, Cl. 5-36.
- Bebry, Peter P., to Bebry Bedding Corp. Love seat bed. 2,790,977, 5-7-57, Cl. 5-13.
- Bebry, Peter P., to Bebry Bedding Corp. Sofa bed construction. 2,814,050, 11-26-57, Cl. 5-13.
- Bebry, Peter P., and D. C. Laemmle, to Bebry Bedding Corp. Chair bed with expandable sides. 2,798,231, 7-9-57, Cl. 5-52.
- Becher, Harold, and M. Pepper, to Dellenbarger Machine Co., Inc. Missile firing trainer device. 2,809,624, 10-15-57, Cl. 124-11.
- Becher, Paul: See—
 Lawrence, Edward A., and Becher. 2,801,257.
- Bechik, Michael, to Bechik Products, Inc. Handles for mattresses and the like. Re. 2,4386, 11-5-57, Cl. 5-345.
- Bechik, Michael, to Bechik Products, Inc. Handle for mattresses and the like. 2,786,215, 3-26-57, Cl. 5-345.
- Bechik, Michael, to Bechik Products, Inc. Handle for mattresses and the like. 2,786,216, 3-26-57, Cl. 5-345.
- Bechik Products, Inc.: See—
 Bechik, Michael. Re. 2,4386.
 Bechik, Michael. 2,786,215.
 Bechik, Michael. 2,786,216.
 Strandberg, Joel G. 2,787,466.
- Bechler, André. Bar guiding and feeding device for automatic lathes. 2,809,420, 10-15-57, Cl. 29-93.
- Bechman, William O., H. A. Land, D. B. Baker, and W. W. Henning, to International Harvester Co. Brake mechanism. 2,780,319, 2-5-57, Cl. 188-72.
- Bechman, William O., and N. J. Palkovic, to International Harvester Co. Change speed transmission for vehicles. 2,800,803, 7-30-57, Cl. 74-411.
- Bechtel, Charles B., and W. P. Taylor, to Baltimore Gas and Electric Co. Method and apparatus for identifying electric conductors. 2,789,268, 4-16-57, Cl. 324-66.
- Bechtler, Hans C., to Pneumafil Corp. Control systems for spinning and roving frames. 2,780,908, 2-12-57, Cl. 57-80.
- Bechtler, Walter A. Venetian roller blind with swivel mounted slats. 2,812,021, 11-5-57, Cl. 160-133.
- Bechtold, Edwin W., M. Kapilow, and A. J. Weinstein, to The Ednalite Optical Co., Inc. Combination wide angle and telephoto lens attachment. 2,800,052, 7-23-57, Cl. 88-15.
- Bechtold, Max F., to E. I. du Pont de Nemours and Co. Polymeric dispersions and method of use thereof. 2,791,000, 5-7-57, Cl. 18-57.
- Bechtold, Max F., and J. H. Wernitz, to E. I. du Pont de Nemours & Co. Process for preparing shaped articles of cellulose. 2,810,162, 10-22-57, Cl. 18-55.
- Bechtold, Max F., and M. I. Bro, to E. I. du Pont de Nemours & Co. Polyvinyl fluoride dispersions. 2,810,702, 10-22-57, Cl. 260-29.
- Beck, Alden E. Fishhook. 2,791,861, 5-14-57, Cl. 43-44.6.
- Beck, Alfred C., to Bell Telephone Laboratories, Inc. Directive dielectric antennas. 2,801,413, 7-30-57, Cl. 343-785.
- Beck, Arnold H. W., to International Standard Electric Corp. Electron discharge apparatus. 2,810,853, 10-22-57, Cl. 315-35.
- Beck, Arnold H. W., and A. D. Brisbane, to International Standard Electric Corp. Electron discharge tubes. 2,797,356, 6-25-57, Cl. 315-21.
- Beck, Arnold H. W., and A. B. Cutting, to International Standard Electric Corp. Ionisation manometers. 2,817,030, 12-17-57, Cl. 313-7.
- Beck, Carl P., and J. E. Roesbery. Mechanical fruit picker. 2,778,184, 1-22-57, Cl. 56-328.
- Beck, Charles E., to General Electric Co. Electric lamp base filling nozzle. 2,798,455, 7-9-57, Cl. 118-3.
- Beck, Charles E., to Motorola, Inc. Automatic record changer. 2,799,508, 7-16-57, Cl. 274-10.
- Beck, Doris M. Bound buttonhole layout guide. 2,810,205, 10-22-57, Cl. 33-190.
- Beck, Gasper P., R. W. Johnson, Jr., V. I. Korsgaard, and R. R. Nydeger, to Personal Products Corp. Disposable cleaning swab and holder therefor. 2,816,311, 12-17-57, Cl. 15-210.
- Beck, Gasper P., R. W. Johnson, Jr., and V. I. Korsgaard, to Personal Products Corp. Disposable cleaning swab and holder therefor. 2,816,312, 12-17-57, Cl. 15-210.
- Beck, Gasper P., R. W. Johnson, Jr., V. I. Korsgaard, and R. R. Nydeger, to Personal Products Corp. Disposable cleaning swab and holder therefor. 2,816,313, 12-17-57, Cl. 15-210.
- Beck, George, to Thomas J. Lipton Co., Inc. Machine for attaching tags to tea bags and the like. 2,777,408, 1-15-57, Cl. 112-2.
- Beck, George W., and H. F. Rentz, said Beck assor. to General Motors Corp., and said Rentz assor. to Briggs Mfg. Co. Joining of metals. 2,782,495, 2-26-57, Cl. 29-450.
- Beck, Hans: See—
 Jacobi, Hans-Rudolf, and Beck. 2,788,196.
- Beck, Harold P., to Burroughs Corp. Sheet feeding and counting apparatus. 2,796,258, 6-18-57, Cl. 271-29.
- Beck, Harold P., to Burroughs Corp. Sheet feeding device. 2,817,519, 12-24-57, Cl. 271-29.
- Beck, Howard C., Jr. Fuel atomizer. 2,786,744, 3-26-57, Cl. 43-180.
- Beck, Howard G., to The General Tire and Rubber Co. Method of and apparatus for homogenizing plastic or plasticizable materials. 2,813,302, 11-19-57, Cl. 18-12.
- Beck, Henry E., to J. I. Case Co. Fertilizer spreader. 2,801,030, 7-30-57, Cl. 222-177.
- Beck, James M., Jr., G. R. Wheeler, and W. C. Whitman, to West Point Mfg. Co. Loom take-up assembly. 2,792,713, 5-21-57, Cl. 74-325.
- Beck, John W., to North American Aviation, Inc. Push-pull transistor amplifier. 2,782,267, 2-19-57, Cl. 179-171.
- Beck, Julius S., to J. E. Hill. Directional window cutter for whipstocks. 2,807,440, 9-24-57, Cl. 255-1.6.
- Beck, Karl M., and A. W. Weston, to Abbott Laboratories. N-(3-methylcyclopentyl)-sulfamic acid and salts thereof. 2,785,195, 3-12-57, Cl. 260-500.
- Beck, Louis. Paint preheaters. 2,802,089, 8-6-57, Cl. 219-39.
- Beck, Manuel H., $\frac{1}{2}$ to M. H. Beck, and $\frac{1}{2}$ to D. L. Davis. Armrest with improved attaching and retaining means. 2,787,494, 4-2-57, Cl. 296-49.2.
- Beck, Merrill G., to Lord Mfg. Co. Fifth wheel coupler mounting. 2,809,851, 10-15-57, Cl. 280-438.
- Beck, Milo H.: See—
 Beck, Manuel H. 2,787,494.
- Beck, Otto, and B. W. Hackstaff, to The F. & M. Schaefer Brewing Co. Float operated switch. 2,816,973, 12-17-57, Cl. 200-84.
- Beck, Paul W., and K. E. Matteson, to North American Philips Co., Inc. Square loop ferromagnetic material. 2,818,387, 12-31-57, Cl. 252-62.5.
- Beck, Raymond I., to Food Machinery and Chemical Corp. Automatic self-filling conveyor. 2,787,364, 4-2-57, Cl. 198-34.
- Beck, Robert H., to E. I. du Pont de Nemours and Co. Processes for coating and drying photographic layers. 2,815,307, 12-3-57, Cl. 154-102.
- Beck, Ronald D., to Minneapolis-Honeywell Regulator Co. Thermoelectric generator. 2,817,696, 12-24-57, Cl. 136-4.
- Beck, Rudolf, and J. F. Engelberger, to Manning, Maxwell & Moore, Inc. Pressure operated switch. 2,808,484, 10-1-57, Cl. 200-83.
- Beck, Samuel J., to Safety Skate Co. Skate for railroad cars. 2,782,728, 2-26-57, Cl. 104-260.
- Beck, Virgil R., and W. S. Patrick, to Zenith Radio Corp. Transistor receiver with constant impedance manual-gain control between I. F. amplifier and detector. 2,802,100, 8-6-57, Cl. 250-20.
- Beck, Warren R.: See—
 Purvis, Robert J., and Beck. 2,789,063.
 Stradley, Norman H., and Beck. 2,790,723.
- Beck, William A.: See—
 Kollman, Jack, and Beck. 2,779,497.
 Russell, John J., and Beck. 2,801,604.
- Beck, William R., and L. D. Hagenbook, to Goodman Mfg. Co. Combination disc brake and exhaust fan for electric control case ventilation. 2,792,091, 5-14-57, Cl. 192-2.
- Beckadolph, Richard, and W. Niclas, to Firma Continental Gummi-Werke, A. G. Apparatus and method for placing bead cores on tire building drums. 2,790,481, 4-30-57, Cl. 154-9.
- Becke, Friedrich, and H. Sperber, to Badische & Soda-Fabrik Aktiengesellschaft. Process for the production of hexachlorbenzene. 2,792,454, 5-14-57, Cl. 260-650.
- Beckenbach, Karl. Kiln charging apparatus. 2,784,025, 3-5-57, Cl. 294-69.
- Beckenbauer, Roland W. Crown duster for low growing, leafy plants. 2,811,806, 11-5-57, Cl. 43-145.
- Becker, Abram I., to International Harvester Co. Raising of cooperative butt cutters in response to the torque load on butt cutters. 2,788,629, 4-16-57, Cl. 56-157.
- Becker, Abram I., to International Harvester Co. Yieldable flight extensions for vertical stalk feeding augers. 2,795,314, 6-11-57, Cl. 198-104.
- Becker, Aloysius, to P. Benninghofen and F. B. Diesbach, trustees. Feeding and aligning mechanism for autographic registers. 2,793,955, 5-28-57, Cl. 271-2.4.
- Becker, Aloysius, to P. Benninghofen and F. B. Diesbach, trustees. Grip roller construction for autographic registers. 2,809,830, 10-15-57, Cl. 271-2.4.
- Becker, Alvin L., to Aeroquip Corp. Cushioned streamlined check valve. 2,809,660, 10-15-57, Cl. 137-514.3.
- Becker, Anton, to Maschinenfabrik Buckau E. Wolk Aktien-gesellschaft. Apparatus for walking heavy structures. 2,785,761, 3-19-57, Cl. 180-8.
- Becker, Balthasar: See—
 Stoll, Arthur, Jucker, and Becker. 2,800,484.
- Becker, Carl H., to Ampex Electric Corp. Stereophonic sound system and method. 2,783,677, 3-5-57, Cl. 88-162.
- Becker, Carl H., to Ampex Electric Corp. Stereophonic sound system and method. 2,807,674, 9-24-57, Cl. 179-100.1.
- Becker, Carl H., to Ampex Electric Corp. Stereophonic sound method and apparatus. 2,807,675, 9-24-57, Cl. 179-100.1.
- Becker, Charles H. Unit for a heating floor. 2,799,481, 7-16-57, Cl. 257-124.
- Becker, Charles L. Hose reel. 2,795,385, 6-11-57, Cl. 242-86.

- Becker, Clark G.: *See*—
Becker, Paul G. and C. G. 2,781,236.
- Becker, Earl M., to Mine Safety Appliances Co. Shock absorber for safety line. 2,796,953, 6-25-57, Cl. 188-1.
- Becker, Earl M., and R. E. Brochetti, to Mine Safety Appliances Co. Dust collector. 2,792,199, 5-14-57, Cl. 255-50.
- Becker, Ernst: *See*—
Gumz, Wilhelm, and Becker. 2,799,576.
- Becker, Ernst, and E. Löbbecke. Combined steel producing and heat generating apparatus. 2,794,631, 6-4-57, Cl. 266-13.
- Becker, Ernst, and B. Kahl. Temperature regulating means for furnaces. 2,805,851, 9-10-57, Cl. 266-32.
- Becker, Floyd J. Hitch means of the automatic coupling type. 2,815,965, 12-10-57, Cl. 280-510.
- Becker, Francis N.: *See*—
Miller, Carroll D., and Becker. 2,798,825.
Miller, Carroll D., and Becker. 2,812,251.
- Becker, Fred, to Underwood Corp. Paper feed means for typewriters. 2,779,451, 1-29-57, Cl. 197-138.
- Becker, George A., to Research Corp. Electrode structure. 2,796,548, 6-18-57, Cl. 313-285.
- Becker, Gottfried, and P. Steinberg, to Deutsche Edelstahlwerke Aktiengesellschaft. Chromium-coating steel surfaces by the diffusion process. 2,791,517, 5-7-57, Cl. 117-107.
- Becker, Hans, and T. Noppen; said Noppen assor. to said Becker. Device for cutting lengths from elongated, in particular tubular, material. 2,804,142, 8-27-57, Cl. 164-60.
- Becker, Heinrich. Containers. 2,776,071, 1-1-57, Cl. 220-97.
- Becker, Heinrich, to Firma B. Raimann G. m. b. H. Projected light means for positioning a work-piece on a machine tool. 2,806,492, 9-17-57, Cl. 143-168.
- Becker, Henry. Metering dispenser. 2,797,848, 7-2-57, Cl. 222-248.
- Becker, Howard I., to General Electric Co. Low voltage electrolytic capacitor. 2,800,616, 7-23-57, Cl. 317-230.
- Becker, Howard I., Jr., to General Electric Co. Apparatus for testing magnets. 2,781,127, 2-12-57, Cl. 209-115.
- Becker, Jack E.: *See*—
McKenzie, Albert G. 2,785,876.
- Becker, James E. Muffled vibrator. 2,787,251, 4-2-57, Cl. 121-17.
- Becker, Johannes: *See*—
Blaise, Berndt S., Bulthuis, and Becker. 2,785,604.
Bouwers, Albert, and Becker. 2,793,564.
- Becker, John L. Helical parking ramp. 2,788,140, 4-9-57, Cl. 214-16.1.
- Becker, Joseph, to Koppers Co., Inc. Method of preparing iron ore fine bearing materials for metallurgical purposes. 2,801,913, 8-6-57, Cl. 75-4.
- Becker, Joseph, to Koppers Co., Inc. Process of treating iron ores with tar. 2,812,248, 11-5-57, Cl. 75-4.
- Becker, Joseph H.: *See*—
Heckmann, Wolfgang G., and Becker. 2,781,130.
- Becker, Lester J. Oil pan for engine. 2,799,139, 7-16-57, Cl. 60-52.
- Becker, Maximilian C. Methods and apparatus for magnetizing permanently magnetizable material. 2,792,532, 5-14-57, Cl. 317-123.
- Becker, Mitchell: *See*—
Egbert, Robert B., and Becker. 2,777,860.
- Becker, Morris, to Federal Auto Products Co., Inc. Lawn sprinkler heads. 2,796,293, 6-18-57, Cl. 299-61.
- Becker, Otto J. Cutting device for shingles. 2,779,409, 1-29-57, Cl. 164-44.
- Becker, Paul G. and C. G. Folding scaffolds. 2,781,236, 2-12-57, Cl. 304-29.
- Becker, Philip D., to United-Carr Fastener Corp. Pair of flexibly interconnected sheet metal nuts. 2,783,674, 3-5-57, Cl. 85-36.
- Becker, Richard B. Automatic counterbalance for well pumping apparatus. 2,808,735, 10-8-57, Cl. 74-589.
- Becker, Rodger F. Separable suspension device for an extension lamp. 2,792,492, 5-14-57, Cl. 240-54.
- Becker, Rudolf: *See*—
Wucherer, Johannes, and Becker. 2,784,572.
- Becker, Rudolf, to Gesellschaft Fur Linde's Eismaschinen Aktiengesellschaft. Process for the production of liquid oxygen by separation from air. 2,785,548, 3-19-57, Cl. 62-175.5.
- Becker, Stephen P., to Fargo Mfg. Co., Inc. Line clamp. 2,811,703, 10-29-57, Cl. 339-264.
- Becker, Wilhelm: *See*—
Nogradi, Josef, and Becker. 2,816,873.
Schnell, Hermann, and Becker. 2,807,602.
- Becker, Wilhelm, F. Schmidt, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Method of conditioning soil. 2,816,397, 12-17-57, Cl. 47-58.
- Becker, William F. Combination level and rule for plumbers and pipe fitters. 2,816,369, 12-17-57, Cl. 33-211.
- Becker, Vernon E.: *See*—
Stanley, Peter P., and Becker. 2,785,834.
- Beckett, John C., to Wesix Electric Heater Co. Electric circuit controller. 2,809,260, 10-8-57, Cl. 200-153.
- Beckett, John C., and W. W. Hicks, to Wesix Electric Heater Co. Absorption system for heating or cooling a space. 2,817,958, 12-31-57, Cl. 62-119.
- Beckett, John S., and W. J. Marenus, to Aseptic Thermo Indicator Co. Deterioration telltale. 2,782,749, 2-26-57, Cl. 116-114.
- Beckett, Reginald W. Fluid fuel burner for free standing and plate mounting installations. 2,777,509, 1-15-57, Cl. 158-4.
- Beckett, Reginald W. Close coupled electrical motor adapted for flange mounting. 2,808,525, 10-1-57, Cl. 310-91.
- Beckett, Reginald W. Air control gate for oil burner and the like. 2,814,430, 11-26-57, Cl. 230-114.
- Beckham, Joe W., to Texas Foundries, Inc. Shingle cutter. 2,779,325, 1-29-57, Cl. 125-23.
- Becking, Augustus G. T., and P. Boxman, to North American Phillips Co., Inc. Feed-back stabilized transistor-amplifier. 2,801,297, 7-30-57, Cl. 179-171.
- Beckius, Ivar, and H. Lindstrom, to Allmänna Svenska Elektriska Aktiebolaget. Electric furnace for the production of silicon and other materials having similar conditions of reaction. 2,793,242, 5-21-57, Cl. 13-27.
- Beckler, Seymour: *See*—
Goldfinger, Walter B., and Beckler. 2,808,263.
- Beckley, Arthur H., to Moore Dry Kiln Co. Continuous veneer feeder. 2,799,381, 7-16-57, Cl. 198-20.
- Beckley Electric Co., Inc.: *See*—
Auslander, William, and Margold. 2,804,523.
- Beckman, Arnold O., Inc.: *See*—
Thayer, Louis C., Robinson, Crane, and Lewis. 2,807,755.
Wilson, Ray L. 2,807,159.
- Beckman, George: *See*—
Robert, John, and Beckman. 2,803,040.
- Beckman, George, and J. Robert, to A. Coburn. Method and apparatus for flanging metallic and asphaltic sheet materials. 2,781,818, 2-19-57, Cl. 154-1.8.
- Beckman Instruments, Inc.: *See*—
Bishop, John F., and Fritz. 2,802,189.
FitzGerald, Alan S. 2,796,537.
Hare, George H., and Molloy. 2,799,005.
Hawes, Roland C. 2,779,921.
Pearson, Frank A. 2,817,264.
Rasmussen, Svein B. 2,798,137.
Semple, Robert E. 2,783,361.
Stickney, Michael E. 2,813,451.
Stickney, Michael E., Madsen, and Pugh. 2,777,354.
- Beckman, John H.: *See*—
Bliss, Lyman A., Riede, and Beckman. 2,777,295.
- Beckmann, Paul. Apparatus for the lubrication of machines and similar equipment. 2,797,772, 7-2-57, Cl. 184-39.
- Beckner, Marshall H., to Tri-State Engineering Co. Combined crate and pallet. 2,806,623, 9-17-57, Cl. 220-6.
- Beckner, Marshall H., to Tri-State Engineering Co. Combined pallet and crate. 2,806,624, 9-17-57, Cl. 220-6.
- Beckner, Marshall H., and J. M. Leahy; said Beckner assor. to Tri-State Engineering Co. Collapsible container. 2,780,382, 2-5-57, Cl. 220-6.
- Beckwith, Lawrence, Sr.: *See*—
Pickett, Harold D., and Beckwith. 2,777,703.
- Beckwith, Robert W., to General Electric Co. Communication system having keyed carrier to frequency shift conversion. 2,802,936, 8-13-57, Cl. 250-8.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Tanks for storing cold boiling liquids. 2,800,249, 7-23-57, Cl. 220-65.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Method of making insulated linings for tanks. 2,806,810, 9-17-57, Cl. 154-82.
- Beckwith, Sterling, to Allis-Chalmers Mfg. Co. Gas cooled dynamoelectric machine with double volute fan discharge directly to coolers. 2,807,733, 9-24-57, Cl. 310-57.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Means for storing and transporting cold low boiling liquids. 2,810,265, 10-22-57, Cl. 62-1.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Method for stopping leaks in tanks. 2,817,218, 12-24-57, Cl. 62-170.
- Beclawat (Canada) Ltd.: *See*—
Weber, Charles W. 2,802,231.
- Becton Dickinson and Co.: *See*—
Dunnican, Ward G. 2,811,155.
Ferguson, Garwood W. 2,798,487.
Ferguson, Garwood W. 2,812,763.
Figge, Frank H. J. 2,814,294.
Lawshie, Errol R., and Krug. 2,805,662.
Magash, Julius V., and Messineo. 2,792,833.
Molinari, Henry G. Re. 24,322.
Molinari, Henry G. 2,776,661.
Smoot, John H. 2,800,903.
- Becton, Henry P. Record assembly. 2,802,670, 8-13-57, Cl. 274-42.
- Bedard, Joseph A. Hearing aid. 2,804,932, 9-3-57, Cl. 181-23.
- Bedard, Lionel. Fuel agitator for stoker hoppers. 2,807,394, 9-24-57, Cl. 222-243.
- Beddoes, John H., and J. J. Suchocki, to Owens-Illinois Glass Co. Burners for reheating stemware. 2,776,526, 1-8-57, Cl. 49-58.
- Bede, James A. Spray nozzle. 2,812,213, 11-5-57, Cl. 299-140.
- Bedell, Rodney: *See*—
Spaeth, Irvin J., and Bedell. 2,788,869.
- Bedford, Alda V., to Radio Corp. of America. Indicator and/or control system for pulse-echo apparatus. 2,776,427, 1-1-57, Cl. 343-13.
- Bedford, Gorman L. Kite. 2,788,945, 4-16-57, Cl. 244-153.
- Bedford, Gorman L. Paint applying device. 2,799,884, 7-23-57, Cl. 15-230.

- Bedford, John S. Plug gauges. 2,789,358, 4-23-57, Cl. 33-178.
- Bedford, Robert H.: *See—*
Dulsenberg, Charles E., and Bedford. 2,791,555.
- Bedford, Robert H. Hydrolysis of fish materials. 2,806,790, 9-17-57, Cl. 99-7.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Fastening device. 2,780,329, 2-5-57, Cl. 189-88.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Fastening device. 2,784,471, 3-12-57, Cl. 24-73.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Fastening devices for molding and the like. 2,796,647, 6-25-57, Cl. 24-73.
- Bedles, Michael A., to Pawling Rubber Corp. Sealing gasket and method of making it. 2,794,221, 6-4-57, Cl. 20-69.
- Bedker, Leo W. Machine tool slide. 2,790,325, 4-30-57, Cl. 74-110.
- Bednarz, Felix L., to McCulloch Motors Corp. Optical system attachment of variable focus for camera and projector objectives. 2,784,644, 3-12-57, Cl. 83-57.
- Bednarz, Felix L., to the United States of America as represented by the Secretary of the Navy. Wide angle lens system. 2,791,153, 5-7-57, Cl. 88-57.
- Beebe, Herbert R., to American Character Doll Co. Toy figure with articulated leg members. 2,780,030, 2-5-57, Cl. 46-161.
- Beebe, Herbert R., to American Character Doll Co. Doll head mounting. 2,807,119, 9-24-57, Cl. 46-149.
- Beebe, Milford H. Orthopedic appliance. 2,813,526, 11-19-57, Cl. 128-78.
- Beeber, Allan R. A., and C. R. Sellen. Measuring tapes. 2,809,142, 10-8-57, Cl. 154-53.6.
- Beeber, Kenneth H.: *See—*
McKenna, Alexander G., and Beeber. 2,791,740.
- Beech Aircraft Corp.: *See—*
Di Stio, Anthony J., Massey, and Slingsby. 2,801,378.
Scott, Orin W. 2,807,327.
Spieth, Charles W., Wright, and Clark. 2,781,935.
Woods, Warren G. 2,793,779.
- Beech, Austin S., to Foundry Equipment Ltd. Machine for knocking out foundry moulding boxes. 2,795,828, 6-18-57, Cl. 22-95.7.
- Beech, Austin S., to Foundry Equipment Ltd. Foundry moulding machines. 2,817,127, 12-24-57, Cl. 22-26.
- Beecham Research Laboratories Ltd.: *See—*
Holland, David O. 2,785,178.
- Beecher, Algernon W., and J. Nieto, to National Metal & Steel Corp. Apparatus for baling scrap metal. 2,794,386, 6-4-57, Cl. 100-218.
- Beercoft, Julian B. Power control system. 2,782,603, 2-26-57, Cl. 60-97.
- Beede, Arnold H.: *See—*
Stevens, Henry W., Lofgren, Brown, and Beede. 2,804,166.
- Beede, Arnold H., and A. P. Cawl, to Electrolux Corp. Automatic vacuum cleaners. 2,814,358, 11-26-57, Cl. 183-37.
- Beegle, Lindley C.: *See—*
Hook, Edwin O., Beegle, and Wystrach. 2,786,866.
- Beegle, Lindley C., to American Cyanamid Co. Preparation of 4-cyclohexenemethylamine. 2,818,431, 12-31-57, Cl. 260-563.
- Beek, Joseph A., Jr.: *See—*
Thrall, Lewis L., and Beek. 2,816,705.
- Beekman, Stewart M., to Rehels Co., Inc. Aluminum and magnesium hydroxy carbonate. 2,797,978, 7-2-57, Cl. 23-50.
- Beekman, Stewart M., to Rehels Co., Inc. Basic aluminum carbonate and glycine composition and method of making same. 2,802,773, 8-13-57, Cl. 167-55.
- Beeler, Edward M.: *See—*
Sabaroff, Samuel. 2,801,295.
- Beeman, Lyle. Pressure switches. 2,791,658, 5-7-57, Cl. 200-83.
- Beemer, Paul K.: *See—*
Gardner, Robert I., Anderson, Beemer, and Fuchs. 2,799,900.
- Been, Walfrid, to United States Steel Corp. Belt conveyor. 2,787,367, 4-2-57, Cl. 198-230.
- Beer, Hans: *See—*
Weber, Alexander. 2,786,522.
- Beer, Palle-Finn, to Svenska Aktiebolaget Gasaccumulator. Contact microphone. 2,790,032, 4-23-57, Cl. 179-116.
- Beerbower, Alan: *See—*
Morway, Arnold J., and Beerbower. 2,790,769.
- Beerbower, Alan, and J. B. Henderson, to Esso Research and Engineering Co. Open gear lubricants. 2,814,595, 11-26-57, Cl. 252-64.
- Beeren, Francis H. J. Apparatus for attaching endless bands to garments. 2,809,599, 10-15-57, Cl. 112-2.
- Beerend, Ray F. Apparatus for packaging sausage patties. 2,814,921, 12-3-57, Cl. 53-122.
- Beerli, Karl, to Spindel, Motoren- und Maschinenfabrik A. G. Method of assembling bearings for spinning or twisting spindles. 2,777,739, 1-15-57, Cl. 308-149.
- Beesley, Edward M., to General Electric Co. Light projection device. 2,791,714, 5-7-57, Cl. 313-115.
- Beesley, John H., to The General Electric Co. Ltd. Electrical gas discharge tube circuits. 2,799,806, 7-16-57, Cl. 315-166.
- Beesley, John H., to The General Electric Co. Ltd. Electrical pulse counting circuits. 2,817,481, 12-24-57, Cl. 235-92.
- Beesley, Stanley, J. A. John, and J. G. N. Drewitt, to British Celanese Ltd. Beta-sulphonyl ketones. 2,810,728, 10-22-57, Cl. 260-332.1.
- Beeson, Eric J. G.: *See—*
Wells, Robert S., and Beeson. 2,777,743.
- Beeson, Eric J. G., to General Electric Co. Electric discharge lamps. 2,795,724, 6-11-57, Cl. 313-198.
- Beeson, Martin L., to W. D. Sellers. Drilling attachments. 2,794,621, 6-4-57, Cl. 255-41.
- Beet, Frederick L.: *See—*
Edge, Stanley H., and Beet. 2,800,770.
- Beffa, Fabio: *See—*
Schetty, Guido, and Beffa. 2,817,655.
- Beffa, Fabio, to J. R. Geigy A.-G. Complex heavy metal compounds of monoazo dyestuffs. 2,804,454, 8-27-57, Cl. 260-145.
- Begalka, Walter E. Outdoor grill. 2,800,071, 7-23-57, Cl. 99-339.
- Begent, George H., to Teleflex Inc. Conveyors. 2,788,885, 4-16-57, Cl. 198-221.
- Beger, Richard E., to The Lionel Corp. Combined truck and coupler mechanism for toy cars. 2,778,508, 1-22-57, Cl. 213-211.
- Beggs, Donald: *See—*
De Vaney, Fred D., and Beggs. 2,792,132.
Huebler, Jack, and Beggs. 2,786,741.
Huebler, Jack, and Beggs. 2,793,109.
- Beggs, Donald, and T. F. Loughry, to Surface Combustion Corp. Thermolytic and pyrolytic gas generation. 2,784,068, 3-5-57, Cl. 48-74.
- Beggs, James E., to General Electric Co. Method of making electric discharge device. 2,792,271, 5-14-57, Cl. 316-19.
- Beggs, James E., to General Electric Co. Metallic bond. 2,792,272, 5-14-57, Cl. 316-19.
- Beggs, James E., to General Electric Co. Oxide coated nickel cathode and method of activation. 2,792,273, 5-14-57, Cl. 316-20.
- Begin, Gregory. Pedal extension. 2,804,783, 9-3-57, Cl. 74-562.
- Begley, John W.: *See—*
Goins, Robert R., and Begley. 2,792,437.
McIntire, Robert L., Begley, and Bearer. 2,813,699.
- Begley, John W., to Phillips Petroleum Co. Regenerative furnace and production of unsaturated hydrocarbons therein. 2,785,212, 3-12-57, Cl. 260-679.
- Begun, Semi J., A. P. Dank, and E. R. Sarratt, to Clivette Corp. Recording assembly. 2,789,776, 4-23-57, Cl. 242-55.
- Begun, Semi J., E. R. Sarratt, J. F. Blaha, and D. R. Christian, to Clivette Corp. Recording apparatus. 2,803,515, 8-20-57, Cl. 346-74.
- Beham, Frank P. Disposable safety razor having a clip on head. 2,799,927, 7-23-57, Cl. 30-66.
- Behrendt, Otto: *See—*
Kuchler, Karl, and Behrendt. 2,814,240.
- Behling, Otto A., Jr. Mirror mountings. 2,778,274, 1-22-57, Cl. 88-93.
- Behning, Paul D., E. D. Glass, and M. J. Rzasa, to Pan American Petroleum Corp. Oil recovery by underground combustion. 2,803,305, 8-20-57, Cl. 166-4.
- Behnke, Max W. Lock for mailbag rope. 2,783,634, 3-5-57, Cl. 70-64.
- Behnke, Max W. Lock for mailbag rope. 2,798,370, 7-9-57, Cl. 70-64.
- Behr, Herbert R. Speed-control systems for wound rotor motors. 2,798,193, 7-2-57, Cl. 318-229.
- Behr, Henry, to Nordberg Mfg. Co. Adjustable crusher shaft support. 2,799,456, 7-16-57, Cl. 241-211.
- Behrens, Heinz: *See—*
Cremer, Gottfried, and Behrens. 2,775,823.
- Behrens, Robert W., to Atlas Powder Co. Emulsifier compositions and insecticidal emulsions. 2,786,013, 3-19-57, Cl. 167-43.
- Behrens, Robert W., and W. C. Griffin, to Atlas Powder Co. Alkyl aryl sulfonic acid amine salt emulsifying agents. 2,778,814, 1-22-57, Cl. 260-98.
- Behrens, William: *See—*
Swider, John P., and Behrens. 2,784,028.
- Behringwerke Aktiengesellschaft: *See—*
Schultze, Hermann E., Schonenberger, and Matheka. 2,793,203.
- Behrman, Abraham S. Process for the production of iodides and amphoteric metal hydroxides. 2,800,390, 7-23-57, Cl. 23-89.
- Beierle, Gottfried H. Self-adjusting trousers hanger. 2,812,890, 11-12-57, Cl. 223-95.
- Bell, Forrest F., to Curtis Companies Inc. Window lock. 2,795,445, 6-11-57, Cl. 292-140.
- Bell, Gerhard. Liquid atomizer. 2,805,888, 9-10-57, Cl. 299-63.
- Bellhartz, Kenneth R., deceased; M. M. Bellhartz, administratrix. Sectional ladders. 2,804,250, 8-27-57, Cl. 228-2.
- Bellhartz, Mary M.: *See—*
Bellhartz, Kenneth R. 2,804,250.
- Beilharz, William E. Fishhook vise. 2,800,736, 7-30-57, Cl. 43-1.
- Beindorff, Arthur B.: *See—*
Ham, George E., and Beindorff. 2,811,548.
- Beindorff, Arthur B., to The Chemstrand Corp. Polyamide solutions. 2,784,168, 3-5-57, Cl. 260-33.2.
- Beindorff, Arthur B., to The Chemstrand Corp. Solution of polyacrylonitrile color stabilized with tris (chloroethyl) phosphite. 2,806,831, 9-17-57, Cl. 260-32.6.

- Beindorff, Arthur B., to The Chemstrand Corp. Polyamide composition and process for preparing the same. 2,816,875, 12-17-57, Cl. 260—30.4.
- Beisinger, Clarence L., and A. P. Jurnak, to Western Electric Co., Inc. Compound punch and die. 2,790,499, 4-30-57, Cl. 164—118.
- Beiswanger, John P. G., and R. L. Mayhew, to General Aniline & Film Corp. Corrosion inhibition. 2,814,593, 11-26-57, Cl. 252—8.55.
- Beiswanger, Gustav A., to Esso Research and Engineering Co. Conversion of hydrocarbons with finely divided particles in a fluidized bed. 2,791,547, 5-7-57, Cl. 196—55.
- Bejeuhr, Walter G., to Mohasco Industries, Inc. Heddle control mechanism. 2,815,772, 12-10-57, Cl. 139—55.
- Bekey, Andrew, and H. M. Robinson. Dynamo-electric machine. 2,796,542, 6-18-57, Cl. 310—162.
- Belamin, Michael: *See—*
- Rolf, Erich, and Belamin. 2,777,982.
- Belamin, Michael, to Siemens-Schuckertwerke Aktiengesellschaft. Series-transducer apparatus. 2,800,623, 7-23-57, Cl. 321—48.
- Belanger, Joseph L. Swivel knife. 2,803,877, 8-27-57, Cl. 30—317.
- Belanger, Paul J., to Foster Grant Co., Inc. Receptacle having a detachable rotary closure. 2,796,191, 6-18-57, Cl. 220—33.
- Belar, Herbert: *See—*
- Olson, Harry F., and Belar. 2,808,466.
- Belar, Herbert, to Radio Corp. of America. Volume control. 2,782,266, 2-19-57, Cl. 179—171.
- Belaschck, Alfred O.: *See—*
- Schoen, Kurt, and Belaschck. 2,790,198.
- Belasco, Irvin J., M. F. Gribbins, D. W. Kolterman, and F. B. Vaughan, to E. I. du Pont de Nemours and Co. Method for increasing nutritive value of foliage. 2,802,307, 8-13-57, Cl. 47—58.
- Belaskas, Anthony J., to The Cincinnati Butchers' Supply Co. Apparatus for treating impure liquids containing suspended solids. 2,799,896, 7-16-57, Cl. 210—221.
- Belbes, George J., E. R. Hunt, and J. L. Kilpatrick, to Comco Corp. Mounting for electric lighting fixtures. 2,800,574, 7-23-57, Cl. 240—3.
- Belcher, Clarence F.: *See—*
- Bauer, Albert W., and Belcher. 2,795,582.
- Belcher, Donald J., T. R. Cuykendall, and H. S. Sack, to Cornell University. Methods and apparatus for determination of characteristics of matter in a surface layer. 2,781,453, 2-12-57, Cl. 250—83.6.
- Belcher, Harold H., to Rodney Hunt Machine Co. Method and apparatus for fluid treatment of textiles. 2,811,351, 10-29-57, Cl. 271—2.3.
- Belcher, Wallace E., Jr., to Minneapolis-Honeywell Regulator Co. Measuring and controlling apparatus. 2,793,813, 5-28-57, Cl. 236—15.
- Belcher, William A. Landing gear for semi-trailers. 2,817,493, 12-24-57, Cl. 254—86.
- Belden, Donald H., to Universal Oil Products Co. Process for treating catalyst particles. 2,787,599, 4-2-57, Cl. 252—448.
- Belden, Donald H., to Universal Oil Products Co. Process for isomerization of 1-olefins and use of isomerized product in alkylation. 2,804,490, 8-27-57, Cl. 260—683.4.
- Belden Mfg. Co.: *See—*
- Ebel, Lawrence C., and D'Ascoli. 2,782,251.
- Haworth, Howard H. 2,809,791.
- Maddox, Richard D. 2,814,666.
- Schelke, Robert K., and Alexander. 2,788,502.
- Winkleman, Charles M. 2,778,991.
- Belden, William P., to Johnson & Johnson. Machine and process for cutting and conveying small patches. 2,789,640, 4-23-57, Cl. 164—18.
- Belek, Emil, and C. A. Riederer, to Bell Telephone Laboratories, Inc. Combination wire stripping, cutting, and wrapping tool. 2,807,810, 10-1-57, Cl. 7—14.1.
- Belew, Leland W. Filing cabinet construction. 2,804,364, 8-27-57, Cl. 312—217.
- Belfry, William A., to General Motors Corp. Cowl ventilator. 2,800,067, 7-23-57, Cl. 98—2.
- Belgard, Austin B. Plastic hinge insert for spectacle frame. 2,811,897, 11-5-57, Cl. 88—53.
- Belfi, Anthony B.: *See—*
- Mauck, Victor, Duke, and Belfi. 2,788,840.
- Belfor, Myer D. Venetian blind structure. 2,786,520, 3-26-57, Cl. 160—168.
- Belgard, Austin B. Ornamentation of plaques. 2,778,136, 1-22-57, Cl. 41—34.
- Belgard, Austin B. Metal trim plastic spectacle frame. 2,789,381, 4-23-57, Cl. 41—34.
- Beliot Iron Works: *See—*
- Hornbostel, Lloyd, and Neese. 2,779,254.
- Belisle, Adelard, to The Berkline Corp. Locking mechanism for rocking chairs. 2,776,702, 1-8-57, Cl. 155—72.
- Belisle, Adelard, to The Berkline Corp. Platform rocking chair convertible to non rocking. 2,776,703, 1-8-57, Cl. 155—72.
- Belisle, Adelard, to The Berkline Corp. Locking mechanism for rocking chairs. 2,804,124, 8-27-57, Cl. 155—72.
- Belk, Kenneth A. Operator protecting frame for tractors. 2,783,056, 2-26-57, Cl. 280—150.
- Belk, Wilber C., and E. F. Frost, Jr., to Food Machinery and Chemical Corp. Method of and apparatus for processing whole fruit. 2,780,988, 2-12-57, Cl. 100—37.
- Bell Aircraft Corp.: *See—*
- Mueller, Heinz E. 2,816,419.
- Stock, Herbert C. 2,784,371.
- Turner, Eugene L., and O'Dwyer. 2,814,451.
- Varriall, Ralph W. 2,807,988.
- Bell, Alan: *See—*
- Tholstrup, Clarence E., and Bell. 2,801,179.
- Bell, Alan, to Eastman Kodak Co. Heat stabilized compositions containing alkoxyphenylglycidyl ethers. 2,805,170, 9-3-57, Cl. 106—176.
- Bell, Alan, and G. R. Lappin, to Eastman Kodak Co. Compositions stabilized with hydroxyindole. 2,787,551, 4-2-57, Cl. 99—163.
- Bell, Alan, C. J. Kibler, and T. H. Strickland, to Eastman Kodak Co. Process of manufacturing linalyl acetate. 2,794,826, 6-4-57, Cl. 260—489.
- Bell, Allan, and G. R. Lappin, to Eastman Kodak Co. Synthetic ester lubricants. 2,798,083, 7-2-57, Cl. 260—410.6.
- Bell, Alan, and G. R. Lappin, to Eastman Kodak Co. Stabilized hydrocarbon fuel oil compositions and stabilizers therefor. 2,805,135, 9-3-57, Cl. 44—66.
- Bell, Alan, and G. R. Lappin, to Eastman Kodak Co. Hydrazides of benzoic acid and derivatives thereof as antioxidants for fats and oils. 2,808,416, 10-1-57, Cl. 260—398.5.
- Bell, Carroll L., and S. J. Ingram, to Texas Metal and Mfg. Co., Inc. Discharge nozzle. 2,785,925, 3-19-57, Cl. 299—121.
- Bell, Carroll N.: *See—*
- Black, Grover M., and Bell. 2,793,893.
- Bell, Charles C., to Universal Winding Co. Textile spindle. 2,798,775, 7-9-57, Cl. 308—228.
- Bell Corp.: *See—*
- Bell, Leo A. 2,783,968.
- Bell, D. A.: *See—*
- Stoecker, Barney. 2,803,981.
- Bell, De Witt: *See—*
- Kuzmick, Joseph N., and Bell. 2,780,534.
- Bell, Dixon T., deceased (M. B. Smith, administratrix), and K. T. Moser. Sheet separating means for collating machine. 2,817,513, 12-24-57, Cl. 270—54.
- Bell, Edward R.: *See—*
- Vaughan, William E., Rust, and Bell. 2,818,441.
- Bell, George C. Absorbent jacket for pail and pail having absorbent jacket. 2,775,872, 1-1-57, Cl. 62—91.
- Bell & Gossett Co.: *See—*
- Blrkemeier, Henry P. 2,806,455.
- Carlson, Gilbert F. 2,810,398.
- Hofmeister, Maurice H. 2,802,629.
- Sykes, Robert E. 2,806,751.
- Tidd, Edwin B. 2,808,994.
- Bell, Harry G.: *See—*
- Heizer, Raymond, Jr., Gay, and Bell. 2,782,711.
- Bell & Howell Co.: *See—*
- Bennett, Frank P. 2,781,736.
- Henriksen, Elmer C. 2,807,979.
- Karkow, Waldemar B., Jr. 2,802,416.
- Karkow, Waldemar B., Jr. 2,802,914.
- Koerber, Henry J., Jr. 2,807,999.
- Richartz, Paul. 2,779,238.
- Bell Industries, Inc.: *See—*
- Bell, Richard G. 2,787,057.
- Bell, John, to Muirhead & Co. Ltd. Apparatus for the stabilization of ships. 2,809,603, 10-15-57, Cl. 114—122.
- Bell, John B., Jr., to Jefferson Chemical Co., Inc. Metal phenolates and process of producing same. 2,805,233, 9-3-57, Cl. 260—429.
- Bell, John B., Jr., to Jefferson Chemical Co., Inc. Catalytic dehydrogenation of dialkylene glycols. 2,807,629, 9-24-57, Cl. 260—340.2.
- Bell, John B., Jr., and W. J. Peppel, to Jefferson Chemical Co., Inc. Process of producing ether-esters. 2,803,646, 8-20-57, Cl. 260—484.
- Bell, Keith L., to J. Atkins, as trustee. Electrical illuminating devices. 2,790,936, 4-30-57, Cl. 315—246.
- Bell, Keith L., $\frac{1}{2}$ to G. Miller. Subminiature portable crystal radio receiver. 2,805,332, 9-3-57, Cl. 250—20.
- Bell, Keith L., $\frac{1}{2}$ to B. J. Chromy and 15% to H. J. A. and H. N. Bunsdorf. Vacuum tube and electric signalling apparatus. 2,817,785, 12-24-57, Cl. 315—10.
- Bell, Kenneth: *See—*
- Kraft, George H., Grossen, and Bell. 2,790,287.
- Bell, Leo A., to Bell Corp. Automatic drilling feed control. 2,783,968, 3-5-57, Cl. 254—173.
- Bell, Leo R., to American Machine & Foundry Co. Chain shortening device. 2,780,108, 2-5-57, Cl. 74—242.8.
- Bell, Leo R., and G. Panuline, to American Machine & Foundry Co. Wrapping machine article conveying mechanism. 2,817,933, 12-31-57, Cl. 53—52.
- Bell, Millard J. Means for tempering foundry sand. 2,778,076, 1-22-57, Cl. 22—89.
- Bell, Norton W., to Consolidated Electrodynamics Corp. Vibration indicator. 2,799,015, 7-9-57, Cl. 340—261.
- Bell, Pearl B. Chair having an extensible seat cushion. 2,781,827, 2-19-57, Cl. 155—165.
- Bell, Richard A.: *See—*
- Welch, Douglas F., Bell, and Randall. 2,775,865.
- Bell, Richard G., to Bell Industries, Inc. Lawn edger. 2,787,057, 4-2-57, Cl. 30—294.
- Bell, Richmond T., to The Pure Oil Co. Fractional condensation method of methanethiol recovery from reaction mixtures thereof. 2,808,441, 10-1-57, Cl. 260—609.

- Bell, Russell N., and L. E. Netherton, to Victor Chemical Works. Anhydrous monocalcium phosphate. 2,791,488, 5-7-57, Cl. 23-109.
- Bell, Samuel A.: *See*—
Marshall, William E., and Bell. 2,776,883.
- Bell Telephone Co. of Canada: *See*—
Meanley, William J. 2,806,995.
- Bell Telephone Laboratories, Inc.: *See*—
Aaron, Marvin R. 2,776,344.
Abbott, Henry H. 2,818,558.
Abbott, Henry H., and Welch. 2,794,859.
Abraham, Leonard G. 2,788,396.
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Aibersheim, Walter J. 2,805,398.
Anderson, Alva E. 2,812,445.
Andersson, John R. 2,776,411.
Andrews, Ernest G., Cesario, and Murphy. 2,797,862.
Andrews, Frederick T., Jr. 2,776,380.
Augustadt, Herbert W., and Kannenbergh. 2,793,252.
Badders, William C. 2,802,188.
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Beal, Dick H., Pomeroy, Robertson, and Zinn. 2,789,267.
Beck, Alfred C. 2,801,413.
Belek, Emil, and Riederer. 2,807,810.
Bemski, George. 2,808,315.
Bennett, William K. 2,797,340.
Berger, Uriah S., and Laing. 2,803,744.
Biskeborn, Merle C. 2,804,592.
Bjornson, Bjorn G. 2,794,121.
Black, Donald M., and Hoffman. 2,794,865.
Black, Harold S. 2,779,925.
Blair, Royer R. 2,815,482.
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- Benjamin, Milton L. and S. S., to Erickson Tool Co. Floating tool holder. 2,778,647, 1-22-57, Cl. 279-16.
- Benjamin, Milton L. and S. S., to Erickson Tool Co. Compensating driver for tap chucks and the like. 2,778,648, 1-22-57, Cl. 279-18.
- Benjamin, Milton L. and S. S., to Erickson Tool Co. Collet chuck. 2,778,650, 1-22-57, Cl. 279-46.
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- Bennett, Anthony, to Porto Knurling Tools, Inc. Knurling tools. 2,798,391, 7-9-57, Cl. 80-5.1.
- Bennett, Arthur J., to Thomas J. Lipton, Inc. Tea bag. 2,793,120, 5-21-57, Cl. 99-77.1.
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- Bennett, Bailey, to the United States of America as represented by the Secretary of the Army. Polymerization of butadiene hydrocarbons in the presence of an arylalkyl selenol. 2,787,609, 4-2-57, Cl. 260-82.3.
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- Bennett, Clarence, and L. W. Buechler, to Vickers, Inc. Power transmission. 2,790,135, 4-23-57, Cl. 323-89.
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- Bennett, Clarence H., to Radio Corp. of America. Branch line connector. 2,798,204, 7-2-57, Cl. 333-6.
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- Bennett, Francis. Selective control mechanism for tractors. 2,800,847, 7-30-57, Cl. 97-46.39.
- Bennett, Frank K., to Victory Engineering Corp. High speed clinical thermometers. 2,818,482, 12-31-57, Cl. 201-63.
- Bennett, Frank P., to Bell & Howell Co. Indicating means. 2,781,736, 2-19-57, Cl. 116-124.1.
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- Bennett, Gordon C. Lawn sprinkler with tiltable support. 2,794,680, 6-4-57, Cl. 299-72.
- Bennett, Harold R., to Root Mfg. Co., Inc. Cutter member for rotating sickle type mowers. 2,807,126, 9-24-57, Cl. 56-25.4.
- Bennett, Harrison A. Can crushing machines. 2,789,618, 4-23-57, Cl. 153-10.5.
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- Bennett, James C., to Anderson Die Casting & Engineering Co. Cord lock for Venetian blinds. 2,786,551, 3-26-57, Cl. 188-64.
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- Bennett, Rufus B., R. F. Pfennig, and R. A. Speed, to Esso Research and Engineering Co. Durene recovery process. 2,776,328, 1-1-57, Cl. 260-674.
- Bennett, Rufus B., R. L. Dockendorff, J. M. Powers, and R. A. Speed, to Esso Research and Engineering Co. Process for production and recovery of paraxylene. 2,810,772, 10-22-57, Cl. 260-674.
- Bennett, Rutherford A. Magnetic tape for lifting boxes or bags and other objects. 2,797,370, 6-25-57, Cl. 317-158.
- Bennett, Verna R. Toe shield. 2,781,044, 2-12-57, Cl. 128-153.
- Bennett, Vivian R. Respiratory ventilation meter. 2,787,999, 4-9-57, Cl. 128-30.
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- Bennett, Walter, to Utility Trailer Mfg. Co. Spring mounting for vehicles. 2,785,888, 3-19-57, Cl. 267-56.
- Bennett, Walter, to Utility Trailer Mfg. Co. Multiple type wheel brake. 2,790,517, 4-30-57, Cl. 188-79.
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- Bennett, Wilfred P., to Radio Corp. of America. High power electron tube. 2,817,031, 12-17-57, Cl. 313-32.
- Bennett, Wilfred P., and H. F. Kazanowski, to Radio Corp. of America. Electron discharge device. 2,806,166, 9-10-57, Cl. 313-174.
- Bennett, William R., to Bell Telephone Laboratories, Inc. Multiple quantized feedback in a regenerative repeater. 2,797,340, 6-25-57, Cl. 307-106.
- Bennettson, Raymond G. Means for closing the window receiving slot in an automobile door sill. 2,785,000, 3-12-57, Cl. 296-44.
- Benoit, Charles H. Cover positioning apparatus. 2,817,274, 12-24-57, Cl. 94-35.
- Benning, Richard F., and M. A. Baum, to Marathon Corp. Process for treating spent sulfite liquor. 2,801,900, 8-6-57, Cl. 23-131.
- Benning, Samuel, and L. E. Bacon. Method of forming bundles of tobacco leaves. 2,780,227, 2-5-57, Cl. 131-149.
- Benning, Samuel, and L. E. Bacon. Apparatus for forming bundles of tobacco leaves. 2,809,641, 10-15-57, Cl. 131-149.
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- Benninghoff, William L., and N. T. Sawdey, to The Pipe Machinery Co. Floating chuck. 2,798,234, 7-9-57, Cl. 10-107.
- Bennoth, George D. Egg carton. 2,776,082, 1-1-57, Cl. 229-28.
- Benny, Henry C. Plumber's tool. 2,779,042, 1-29-57, Cl. 15-104.09.
- Benoit, George J., Jr., to California Research Corp. Process for preparing high molecular weight polyglycols. 2,813,129, 11-12-57, Cl. 260-615.
- Benoit, George J., Jr., and A. D. Abbott, to California Research Corp. Lubricant composition. 2,805,997, 9-10-57, Cl. 252-42.7.
- Benoit, Jean. Checking device for electrical ignition circuits in internal combustion engines or the like. 2,787,726, 4-2-57, Cl. 315-22.
- Benquet, Fernand. Arrangement for controlling direction indicators for vehicles. 2,788,405, 4-9-57, Cl. 200-61.27.

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Haerri, Hans. 2,785,529.
Lancaster, Ralph, and Slater. 2,780,400.
- Bensen, Richard E. Compression type dispensing device. 2,777,612, 1-15-57, Cl. 222-209.
- Bensin, Basil M., 50% to W. G. Atkinson. System for improving growing conditions for plants and farm animals in unfavorable climates by solar energy. 2,777,253, 1-15-57, Cl. 47-1.
- Bensing, Donald L., deceased; I McK. Bensing adminis-
tratrix of said D. L. Bensing, assor. to herself. Method
and apparatus for earth grading and allied arts. 2,796,685,
6-25-57, Cl. 37-143.
- Bensing, Isabell McK.: *See*—
Bensing, Donald L. 2,796,685.
- Bensing, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft.
Device for fuel-metering, in particular, fuel-injection for
internal combustion engines. 2,778,539, 1-22-57, Cl.
222-250.
- Bensing, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft.
Cylinder for a four-cycle internal combustion engine.
2,803,230, 8-20-57, Cl. 123-32.
- Bensing, Wolf-Dieter, and D. Kurz, to Daimler-Benz
Aktiengesellschaft. Cam for internal combustion engines.
2,804,863, 9-3-57, Cl. 123-90.
- Benson, Allan L. Dolly for handling small boats or the like.
2,815,875, 12-10-57, Cl. 214-84.
- Benson, Arne, D. Kellerman, and J. Kwallier, to JFD Mfg.
Co., Inc. Antenna rotator system and control unit there-
for. 2,815,501, 12-3-57, Cl. 340-226.
- Benson, Arthur E., to United States Rubber Co. Reinforced
rubber article. 2,792,868, 5-21-57, Cl. 152-357.
- Benson, Charles J., E. F. Potter, C. Rose, and E. P. Schollen-
berger. Flush release device for external stores. 2,796,284,
6-18-57, Cl. 294-83.
- Benson, Ernest H. Beverage flask for filling drinking glasses.
2,786,495, 3-26-57, Cl. 141-370.
- Benson, Ernest H. Container for beverages. 2,786,597,
3-26-57, Cl. 220-71.
- Benson, George O., and A. Meiklejohn, to Chisholm-Ryder
Co., Inc. Method and apparatus for applying cylindrical
sheet metal fittings to tapered rods. 2,797,475, 7-2-57,
Cl. 29-525.
- Benson, Howard H. J., Jr.: *See*—
Dement, James F., Imbriaco, Benson, and Ackerman.
2,809,446.
- Benson, Ikel C.: *See*—
Melander, Leonard W. 2,815,260.
- Benson, Irving N., and J. P. Vogel, to Streamer Pen Co., Inc.
Gravity actuated writing instrument. 2,793,618, 5-28-57,
Cl. 120-42,03.
- Benson, James E.: *See*—
Rudd, Walter W., and Benson. 2,811,215.
- Benson, Walter L., to Process Engineering Inc. Metal bel-
lows. 2,811,173, 10-29-57, Cl. 137-796.
- Benson, Walter L., and O. L. Larkin, to Process Engineering
Inc. Apparatus for filling a fire extinguisher. 2,780,899,
2-12-57, Cl. 53-268.
- Benson, William C., to Spencer-Safford Loaderaft, Inc. Ve-
hicle transportation and storage capsule. 2,808,288,
10-1-57, Cl. 296-35.
- Bent, Leo V. Metal window frame and sash assembly.
2,775,798, 1-15-57, Cl. 20-55.
- Bent, William H.: *See*—
Haines, David R., and Bent. 2,791,340.
- Bente, Paul F., Jr., to E. I. du Pont de Nemours and Co. Safe
recovery of tetrahydrofuran vapors. 2,790,813, 4-30-57,
Cl. 260-346.1.
- Bente, Paul F., Jr., to E. I. du Pont de Nemours and Co.
Compound and process for drying tetrahydrofuran.
2,795,591, 6-11-57, Cl. 260-346.1.
- Bentley, Edward P., to Protocorp, Inc. Gas-floated gyro-
scopes. 2,785,573, 3-19-57, Cl. 74-5.
- Bentley Engineering Co. Ltd., The: *See*—
Deans, Frederick E., and Wainwright. 2,812,649.
Wainwright, Carlyle H., and Kent. 2,787,147.
- Bentley, James S., to Teleflex Inc. Means for the opening
and closing of windows, vents or the like. 2,814,483,
11-26-57, Cl. 268-21.
- Bentley, John G.: *See*—
Emmons, Arthur N., and Bentley. 2,793,485.
- Bentley, Robert H., to The Arrow-Hart & Hegeman Electric
Co. Mounting for electric wiring devices. 2,778,869,
1-22-57, Cl. 174-53.
- Benton, Frank W. Fish holding devices. 2,800,356, 7-23-57,
Cl. 294-106.
- Benton, James C.: *See*—
Gauthier, William H., and Benton. 2,780,491.
- Benton, James M., to Westinghouse Electric Corp. Trans-
former switches. 2,798,969, 7-9-57, Cl. 307-64.
- Bentz, Alan P.: *See*—
Dorf, Fred B., Bentz, and Gordon. 2,788,348.
- Bentzen, La Verne F., to Allis-Chalmers Mfg. Co. Welding
machine. 2,803,739, 8-20-57, Cl. 219-130.
- Benua, Louis P.: *See*—
Fischer, Harry C., and Benua. 2,778,202.
- Benvenuti, Ottavio. Carburetor. 2,783,983, 3-5-57, Cl.
261-51.
- Benway, Robert E., to Radio Corp. of America. Triple gun
for color television. 2,806,163, 9-10-57, Cl. 313-70.
- Benway, Robert E., and R. H. Hughes, to Radio Corp. of
America. Shortened triple gun for color television.
2,782,333, 2-19-57, Cl. 313-70.
- Benyak, John B., to The Osborn Manufacturing Co. Brush
strip. 2,797,425, 7-2-57, Cl. 15-182.
- Benz, August. Appliance for filling granular bulk material
into sacks. 2,789,591, 4-23-57, Cl. 141-233.
- Benz, Ernst. Case for a field glass. 2,813,564, 11-19-57,
Cl. 150-52.
- Benz, George R., to Phillips Petroleum Co. Underground
storage system. 2,787,125, 4-2-57, Cl. 61-5.
- Benz, George R., to Phillips Petroleum Co. L. P. G. safety
device. 2,787,127, 4-2-57, Cl. 62-1.
- Benz, George R., to Phillips Petroleum Co. Underground
storage systems and improved method of operating.
2,788,637, 4-16-57, Cl. 62-1.
- Benz, George R., to Phillips Petroleum Co. Combined process
for manufacturing enriched water-gas and aromatic hydro-
carbons. 2,791,548, 5-7-57, Cl. 196-55.
- Benz, George W.: *See*—
Calva, Jose B. 2,780,071.
- Benzel, Howard A., to Scott Aviation Corp. Demand fluid
regulator. 2,790,454, 4-30-57, Cl. 137-64.
- Benzin, Alexis M. Power transmitting and speed changing
mechanism. 2,802,370, 8-13-57, Cl. 74-336.5.
- Benzol Products Co.: *See*—
Harper, Stanley H. 2,815,362.
- Benzon-Petersen, Boye, to Aktiebolaget Akerlund & Rausing.
Cartons. 2,795,364, 6-11-57, Cl. 229-37.
- Beran, Rudolph F. Cotton stripper with moving comb.
2,808,694, 10-8-57, Cl. 56-35.
- Beran, Rudolph F., Jr. Readily portable cement mixer.
2,808,241, 10-1-57, Cl. 259-177.
- Béranger, Raymond H. E. M., to Compagnie des Machines Bull
(Societe Anonyme). Apparatus for subtracting numbers
represented by coded pulses. 2,795,378, 6-11-57, Cl.
235-61.
- Béranger, Raymond H. E. M., to Compagnie des Machines
Bull (Societe Anonyme). Apparatus for calculating check
elements of recorded data. 2,797,868, 7-2-57, Cl. 235-
61.7.
- Béranger, Raymond H. E. M., to Compagnie des Machines
Bull (Societe Anonyme). Error-checking device for ac-
counting machines. 2,814,459, 11-26-57, Cl. 235-61.6.
- Berard, Maria P. P. Suppository container. 2,797,805,
7-2-57, Cl. 206-63.2.
- Berardinelli, Frank: *See*—
Paist, Walter D., and Berardinelli. 2,782,128.
- Berardinelli, Nicola O. Buttonhole positioner. 2,814,126,
11-26-57, Cl. 33-190.
- Berberian, Karnig A.: *See*—
Freedman, George, and Berberian. 2,814,574.
- Berberich, Helmut. Fly spinner attachment. 2,814,926,
12-3-57, Cl. 57-115.
- Berch, William H., to General Dynamics Corp. Cord cir-
cuits. 2,780,676, 2-5-57, Cl. 179-51.
- Berch, William H., to General Dynamics Corp. Telephone
party line signaling system. 2,790,851, 4-30-57, Cl.
179-17.
- Berch, William H., to General Dynamics Corp. Pulse gen-
erator. 2,810,841, 10-22-57, Cl. 307-132.
- Berch, William H., to General Dynamics Corp. Termination
for two-way trunk circuit. 2,813,930, 11-19-57, Cl.
179-27.
- Berch, William H., to General Dynamics Corp. Alarm signal-
ing system for telephone exchanges. 2,815,405, 12-3-57,
Cl. 179-27.
- Berchin, Walter and W. Multi-carburetor synchronizer.
2,778,007, 1-15-57, Cl. 340-236.
- Berchin, William: *See*—
Berchin, Walter and W. 2,778,007.
- Berck, William F., to Ralph N. Brodie Co. Balanced shut-off
valve. 2,781,997, 2-19-57, Cl. 251-51.
- Bercovitz, Bernard: *See*—
Meredew, George C., Berris, and Smedley. 2,782,001.
- Berdan, David, to Buck Engineering Co., Inc. Metal punch-
ing apparatus. 2,798,553, 7-9-57, Cl. 164-86.
- Berendt, Carl: *See*—
Demarest, Daniel D., Perkins, Karius, and Berendt.
2,775,784.
- Demarest, Daniel D., Perkins, Karius, and Berendt.
2,791,797.
- Demarest, Daniel D., Perkins, Karius, and Berendt.
2,799,892.
- Beresford, George. Method and apparatus for condensing
moisture. 2,805,560, 9-10-57, Cl. 62-140.
- Beresford, James & Son Ltd.: *See*—
Penlington, Thomas E. 2,777,961.
Penlington, Thomas E., and Cooksley. 2,798,173.
Timms, Arthur W. J. 2,781,464.
- Bereslavsky, Euphime V., to Sinclair Refining Co. Fuel for
spark ignition internal combustion engines. 2,797,153,
6-25-57, Cl. 44-69.
- Bereff, George D. Book holder and reading case. 2,808,680,
10-8-57, Cl. 45-86.
- Beretvas, Helen S., to Standard Oil Co. Naphthenohydrox-
amic acid manufacturing process. 2,818,429, 12-31-57, Cl.
260-500.
- Berg, Claes, to Aktiebolaget Overums Bruk. Method of form-
ing malleable iron castings. 2,796,373, 6-18-57, Cl.
148-21.7.

- Berg, Clyde H. O., to Union Oil Co. of California. Solids level indication and control system. 2,783,096, 2-26-57, Cl. 302-53.
- Berg, Clyde H. O., to Union Oil Co. of California. Selective adsorption process and apparatus. 2,796,947, 6-25-57, Cl. 183-42.
- Berg, Clyde H. O., R. P. Vaell, and J. H. Ballard, to Union Oil Co. of California. Catalytic conversion process and apparatus with improved temperature control of the reaction. 2,809,922, 10-15-57, Cl. 196-50.
- Berg, David R., and R. B. Farnon, to General Electric Co. Door racks for refrigerating apparatus. 2,813,767, 11-19-57, Cl. 312-214.
- Berg, Egon G.: *See—*
- Barber, Harry A., and Berg. 2,796,811.
- Berg, Elaine. Ear muffs. 2,776,436, 1-8-57, Cl. 2-209.
- Berg Equipment Co.: *See—*
- Berg, Vernon R., Bohl, and Mueller. 2,796,046.
- Berg, Herbert, and J. Fischer, to Siemens & Halske Aktiengesellschaft. Pivotal mounting of electromagnetically operated armature elements or the like. 2,807,760, 9-24-57, Cl. 317-198.
- Berg, Howard O., to Motorola, Inc. Cathode follower radio frequency amplifier for radio receiver. 2,794,909, 6-4-57, Cl. 250-20.
- Berg, Joseph A. Self-aligning seat construction. 2,799,323, 7-16-57, Cl. 155-77.
- Berg, Lloyd, J. A. Davidson, R. L. Nickelson, and W. F. Nye, to the United States of America as represented by the Secretary of the Army. Method of making manganese dioxide depolarizer. 2,782,098, 2-19-57, Cl. 23-145.
- Berg, Martin. Pocket knife locking mechanism. 2,806,282, 9-17-57, Cl. 30-143.
- Berg, Quentin, to Aircraft-Marine Products Inc. Strip of taper pin connectors. 2,778,097, 1-22-57, Cl. 29-193.5.
- Berg, Victor. Process for the production of a hard metal of increased toughness. 2,782,136, 2-19-57, Cl. 148-13.
- Berg, Vernon R., V. H. Rohl, and C. S. Mueller, to Berg Equipment Co. Non-siphoning drinking bowl for cattle. 2,796,046, 6-18-57, Cl. 119-75.
- Bergan, Martin D., to The Thomas & Betts Co. Dead end connectors. 2,777,895, 1-15-57, Cl. 174-94.
- Bergan, Martin D., to The Thomas & Betts Co. Pigtail connector. 2,792,444, 5-14-57, Cl. 174-87.
- Bergdal, Ed. Jointed strap tie for concrete forms. 2,784,476, 3-12-57, Cl. 25-131.
- Berge, Arthur: *See—*
- Jacobaeus, Anton C., and Berge. 2,777,015.
- Svala, Carl G., and Berge. 2,779,823.
- Berge, Godshalk, to The Yale & Towne Mfg. Co. Powdered metal magnet with low residual characteristics. 2,816,053, 12-10-57, Cl. 148-100.
- Berze, Robert E., to The James Knights Co. Method and apparatus for making evacuated envelopes. 2,795,905, 6-18-57, Cl. 53-9.
- Berge, Robert E., to The James Knights Co. Sealed crystal assembly. 2,816,239, 12-10-57, Cl. 310-8.1.
- Bergen, Edward C., and E. M. Raabe, to Rheem Mfg Co. Paper reinforced thin-walled metal container and method of making same. 2,810,492, 10-22-57, Cl. 220-11.
- Bergen, James T., to Armstrong Cork Co. Loom picker. 2,800,148, 7-23-57, Cl. 189-159.
- Berger, Alfred, to Ciba Ltd. Flame-proofing of textiles. 2,781,281, 2-12-57, Cl. 117-136.
- Berger-Amour: *See—*
- Berger, Sol J., and Rivenburgh. 2,791,049.
- Berger, Andrew H., and H. W. Abrams, to Berger Furnace Corp. Baseboard air distributing duct. 2,814,243, 11-26-57, Cl. 98-40.
- Berger, Arnad P.: *See—*
- Hill, John, and Berger. 2,803,041.
- Berger, Carl, to The Commonwealth Engineering Co. of Ohio. Removal of water from non-aqueous liquids. 2,778,205, 1-22-57, Cl. 62-170.
- Berger, Carl, to The Commonwealth Engineering Co. of Ohio. Low temperature liquid concentration. 2,800,000, 7-23-57, Cl. 62-124.
- Berger, Carl, to The Commonwealth Engineering Co. of Ohio. Process for concentration of solutions by sublimation. 2,813,350, 11-19-57, Cl. 34-5.
- Berger, Carl, and W. S. Hogue, to The Commonwealth Engineering Co. of Ohio. Wood stain filler composition. 2,792,386, 5-14-57, Cl. 260-210.
- Berger, Carl, and W. S. Hogue, to The Commonwealth Engineering Co. of Ohio. Wood stain filler compositions. 2,792,387, 5-14-57, Cl. 260-210.
- Berger, Christian D., to Polytechnic Research & Development Co., Inc. Multi-turn dials. 2,794,413, 6-4-57, Cl. 116-129.
- Berger, Donald E., and J. R. Parsons, to Phillips Petroleum Co. Infrared analyzer. 2,806,144, 9-10-57, Cl. 250-43.5.
- Berger, France B., to General Precision Laboratory Inc. Optical cross-correlator. 2,787,188, 4-2-57, Cl. 88-14.
- Berger, Frank M., and S. L. Plechner, to Carter Products. Zirconium containing anti-perspirant compositions. 2,790,747, 4-30-57, Cl. 167-90.
- Berger Furnace Corp.: *See—*
- Berger, Andrew H., and Abrams. 2,814,243.
- Berger, George C. Machine for fabricating pieces of lumber. 2,789,598, 4-23-57, Cl. 144-35.
- Berger, George C., and A. O. Myrold. Straw and stalk comminuter and scatterer attachment. 2,792,229, 5-14-57, Cl. 275-3.
- Berger, Hans: *See—*
- Gund, Konrad, Berger, Scheer, and Schittenhelm. 2,814,727.
- Berger, Harold: *See—*
- Jacobs, John E., and Berger. 2,809,323.
- Berger, Helmut. Electro-therapeutic apparatus. 2,778,948, 1-22-57, Cl. 250-79.
- Berger, Jack. Vertical flame oil burner. 2,777,510, 1-15-57, Cl. 158-28.
- Berger, Jacques, to Welding Research, Inc. Counting system including step-by-step devices providing predetermined operation. 2,803,407, 8-20-57, Cl. 235-132.
- Berger, Johannes, and G. Lange, to C. Zeiss. Photographic objective comprising two dispersive meniscus components enclosed by two collective components. 2,777,362, 1-15-57, Cl. 88-57.
- Berger, John L. Speed regulator. 2,800,326, 7-23-57, Cl. 271-2.2.
- Berger, Joseph J. Building structure interlocking mechanism. 2,791,003, 5-7-57, Cl. 20-2.
- Berger, Leonard: *See—*
- Weber, Israel, and Berger. 2,777,322.
- Berger, Melvin L., to Chas. Pfizer & Co., Inc. Pharmaceutical formulation. 2,798,023, 7-2-57, Cl. 167-81.
- Berger, Netardus N., and A. D. Plamondon, to Hughes Aircraft Co. Magnetic memory drum. 2,794,180, 5-28-57, Cl. 340-174.
- Berger-Rivenburgh: *See—*
- Berger, Sol J., and Rivenburgh. 2,798,324.
- Berger, Sol J., and J. G. Rivenburgh, to Berger-Amour. Display device. 2,791,049, 5-7-57, Cl. 40-125.
- Berger, Sol J., and J. G. Rivenburgh, to Berger-Rivenburgh. Display device. 2,798,324, 7-9-57, Cl. 40-139.
- Berger, Uriah S., and J. F. Laidig, to Bell Telephone Laboratories, Inc. Radiant energy signaling system. 2,803,744, 8-20-57, Cl. 250-6.
- Bergevin, Charles R., to The Torrington Mfg. Co. Spring coiling machine. Re. 24,345, 8-20-57, Cl. 153-65.
- Berggren, Alf M. Reading apparatus for the blind. 2,808,661, 10-8-57, Cl. 35-35.
- Berggren, Bjorn: *See—*
- Löfvist, Bengt E. R., and Berggren. 2,790,624.
- Bergh Bros. Co., Inc.: *See—*
- Bergh, George G. and R. G. 2,804,229.
- Bergh, George G. and R. G. 2,804,255.
- Bergh, George G. and R. G., to Bergh Bros. Co., Inc. Hinge and box combination. 2,804,229, 8-27-57, Cl. 220-31.
- Bergh, George G. and R. G., to Bergh Bros. Co., Inc. Shipment and display box. 2,804,255, 8-27-57, Cl. 229-35.
- Bergh, Robert G.: *See—*
- Bergh, George G. and R. G. 2,804,229.
- Bergh, George G. and R. G. 2,804,255.
- Berghaus, Bernhard, and H. Bueck, said Bueck assor. to said Berghaus. Glow discharge apparatus. 2,787,730, 4-2-57, Cl. 315-111.
- Bergheim, Herbert. Necktie. 2,800,661, 7-30-57, Cl. 2-146.
- Berghehl, Robin C. Tabulating card reproducing punch. 2,808,107, 10-1-57, Cl. 164-114.
- Berghoff, Mathew W.: *See—*
- Cräson, William K., and Berghoff. 2,785,699.
- Bergholt, Alice A. Elbow treatment device. 2,806,469, 9-17-57, Cl. 128-57.
- Bergles, Eduard, to K. J. Kollmann. Change-speed gearing, particularly for bicycles or the like. 2,787,173, 4-2-57, Cl. 74-750.
- Bergling, Charles G. B. and K. A. L., to Durox International Societe Anonyme. Dismountable mould, particularly for the manufacture of building stones from porous concrete. 2,799,073, 7-16-57, Cl. 25-121.
- Bergling, Karl A. L.: *See—*
- Bergling, Charles G. B. and K. A. L. 2,799,073.
- Berglund, Arthur G., and W. H. Olson, to Sperry Rand Corp. Single sheet feed mechanism. 2,813,612, 11-19-57, Cl. 197-130.
- Berglund, Björn E. A., K. G. Gorling, N. B. Lindvall, and S. J. Wallden, to Bolidens Gruvaktiebolag. Method of agglomerating and sintering granular lead sulphide. 2,803,582, 8-20-57, Cl. 75-5.
- Berglund, Enoch S. Rake cleaning and adjusting means. 2,811,823, 11-5-57, Cl. 56-400.2.
- Berglund, Orion W., to Chadeloid Corp. Method of staining and filling wood. 2,806,759, 9-17-57, Cl. 8-6.5.
- Berglund, Ralph M. Crown caps for containers. 2,780,380, 2-5-57, Cl. 215-46.
- Bergman, Carl: *See—*
- Wobermin, Theodore H. 2,793,487.
- Bergman, Carl R. Oar lock and protector. 2,778,036, 1-22-57, Cl. 9-26.
- Bergman, Ed., to Art Steel Co., Inc. Rotatably mounted book holder. 2,784,522, 3-12-57, Cl. 45-58.
- Bergman, Ed., to Art Steel Co., Inc. Book storage and display devices. 2,794,697, 6-4-57, Cl. 312-233.
- Bergman, Edward, to Art Steel Co., Inc. Composite table structure and connecting clamp therefor. 2,801,141, 7-30-57, Cl. 311-4.
- Bergman, Ed., to Art Steel Co., Inc. Knock-down office equipment. 2,812,991, 11-12-57, Cl. 312-257.
- Bergman, Frank E.: *See—*
- Holman, Keith M., Cooper, and Bergman. 2,796,508.

- Bergman, Gustav R., to Telefonaktiebolaget L M Ericsson. Circuit control system for supervising the operation of a plurality of devices. 2,782,404, 2-19-57, Cl. 340-253.
- Bergman, Gustav R., to Telefonaktiebolaget L M Ericsson. Fault localizing device in composed systems. 2,786,988, 3-26-57, Cl. 340-213.
- Bergman, Herbert L., to Surface Combustion Corp. Furnace door construction. 2,804,855, 9-3-57, Cl. 122-498.
- Bergman, Lars E.: *See—*
Krantz, Karl G. E., Bergman, Elvingson, and Karlsson. 2,815,860.
- Bergman, Louis. Educational appliance. 2,800,728, 7-30-57, Cl. 35-75.
- Bergman, Walter J.: *See—*
Blashfield, William H., Blackhall, Oxaal, and Bergman. 2,782,257.
- Bergman, William E., to Phillips Petroleum Co. Hydraulic natural cements having an extended thickening time. 2,790,724, 4-30-57, Cl. 106-90.
- Bergman, William E., to Phillips Petroleum Co. Improved drilling mud and method of use. 2,805,990, 9-10-57, Cl. 252-85.
- Bergmann, Donald E., F. A. Wilcox, A. P. Van der Kloot, and R. I. Tenney. Alcoholic beverage and method of preparing same. 2,803,546, 8-20-57, Cl. 99-31.
- Bergmann, Ernst R., to Goodman Mfg. Co. Cascade conveyor. 2,798,587, 7-9-57, Cl. 198-82.
- Bergmann, Ernst R., to Goodman Mfg. Co. Crawler shaker conveyor. 2,805,751, 9-10-57, Cl. 198-14.
- Bergmann, Ernst R., and J. R. Madela, to Goodman Mfg. Co. Extensible belt conveyors. 2,808,145, 10-1-57, Cl. 198-139.
- Bergmann, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Magnetic sound recording head. 2,809,237, 10-8-57, Cl. 179-100.2.
- Bergmann, Paul F., to Johnson Products Inc. Self-contained hydraulic tappet. 2,804,060, 8-27-57, Cl. 123-90.
- Bergne, Arne, to Svenska Aktiebolaget Gasaccumulator. Arrangement for sound recording and reproduction from a magnetizable disk. 2,810,581, 10-22-57, Cl. 274-4.
- Bergonzo, Giovanni, to Societe d'Etudes et de Brevets, S. A. Locking device for vehicle wheels. 2,796,298, 6-18-57, Cl. 301-9.
- Bergquist, Carl H., to General Electric Co. Metallized-galvanized electrical conduit and method of making same. 2,798,509, 7-9-57, Cl. 138-68.
- Bergquist, Ernest C., and J. A. Buvelot, to American Steel Foundries. Torsion spring suspension. 2,782,027, 2-19-57, Cl. 267-58.
- Bergseth, Johan: *See—*
Brosenius, Karl H., and Bergseth. 2,807,154.
- Bergseth, Frederick R., to Research Corp. Phase-comparison distance relay. 2,804,578, 8-27-57, Cl. 317-36.
- Bergson, Gustav. Indexing and homing mechanism. 2,793,094, 5-21-57, Cl. 346-62.
- Bergstedt, Karl A. Combined reversing and speed reduction gear. 2,804,779, 9-3-57, Cl. 74-355.
- Bergstedt, Milton A.: *See—*
McGarry, James A., Weidner, and Bergstedt. 2,790,732.
- Bergstedt, Milton A., to Permacele Le Page's Inc. Adhesive sheet. 2,818,169, 12-31-57, Cl. 206-59.
- Bergstedt, Milton A., and B. W. Keys, Jr., to Permacele Le Page's Inc. Adhesive sheet product and method of making. 2,818,349, 12-31-57, Cl. 117-14.
- Bergstein, Frank D., to The Bergstein Packaging Trust. Method of making tight cartons. 2,796,007, 6-18-57, Cl. 93-36.
- Bergstein, Frank D., A. B. Kleingers, Jr., and R. W. Nerenberg, to Bergstein Packaging Trust. Dispensing containers having strong end closures. 2,791,364, 5-7-57, Cl. 229-17.
- Bergstein Packaging Trust, The: *See—*
Bergstein, Frank D. 2,796,007.
- Bergstein, Frank D., Kleingers, and Nerenberg. 2,791,364.
- Bergstein, Robert M. 2,781,150.
- Bergstein, Robert M., to The Bergstein Packaging Trust. Bottle carrier with reinforced handle and method of making it. 2,781,150, 2-12-57, Cl. 220-113.
- Bergsteinsson, Ingolfur, to Union Oil Co. of California. Purification of xylene-ethylbenzene mixtures. 2,798,104, 7-2-57, Cl. 260-674.
- Bergstrom, Arthur G. Portable tap sharpening fixture. 2,809,481, 10-15-57, Cl. 51-234.
- Bergstrom, Carl J., and C. Tolsdorf, to Dellenbarger Machine Co., Inc. Stack feeder machine. 2,788,131, 4-9-57, Cl. 271-88.
- Bergstrom, Carl P., to Crompton & Knowles Loom Works. Convertible lay for loom. 2,817,369, 12-24-57, Cl. 139-188.
- Bergstrom, Carl P., and W. C. Howe, to Crompton & Knowles Loom Works. Reed control for loom. 2,799,297, 7-16-57, Cl. 139-191.
- Bergstrom, Clarence G.: *See—*
Ralls, Jack W., and Bergstrom. 2,793,207.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Gas solid separation in a pneumatic lift. 2,783,099, 2-26-57, Cl. 302-59.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Hydrocarbon conversion process. 2,808,367, 10-1-57, Cl. 196-52.
- Bergstrom, Eric V., and H. W. Shea, to Socony Mobil Oil Co., Inc. Liquid-granular solids contacting. 2,783,189, 2-26-57, Cl. 196-147.
- Bergstrom, Eric V., and E. R. J. Sori, to Socony Mobil Oil Co., Inc. Fluid reactant feed manifold. 2,789,889, 4-23-57, Cl. 23-288.
- Bergvall, Knut L., and E. E. Dahlberg. Prefabricated wooden building. 2,782,463, 2-26-57, Cl. 20-2.
- Berhenke, Luther F., to The Dow Chemical Co. Halogenated phenyl-salicylic acids. 2,779,785, 1-29-57, Cl. 260-520.
- Berigan, Michael G.: *See—*
Rives, Frank M., Berigan, Godwin, Siegel, and Zebley. 2,815,869.
- Berill, Carroll H., to Carbonless Copytype Corp. Multiple ribbon copy attachment for typewriters. 2,803,331, 8-20-57, Cl. 197-153.
- Berk, Milton. Beef tongue molds. 2,790,993, 5-7-57, Cl. 17-14.3.
- Berk, William E., Jr.: *See—*
Miller, Walter W., and Berk. 2,795,659.
Spicer, John J., and Berk. 2,802,075.
- Berke, Aaron. Divisible receptacle. 2,778,522, 1-22-57, Cl. 217-33.
- Berkeley Industries: *See—*
Leebow, Albert A. 2,791,335.
- Berkeley, Laurence J., to Superior Steel Corp. Making bi-metallic billet. 2,777,936, 1-15-57, Cl. 219-73.
- Berkeley Pump Co.: *See—*
Rhoda, Ralph A. 2,806,434.
- Berker, Ralph C. Sliver coiler. 2,780,841, 2-12-57, Cl. 19-159.
- Berkley, Carl, to Allen B. Du Mont Laboratories, Inc. Continuously variable pulse delay system. 2,811,696, 10-29-57, Cl. 333-30.
- Berkune Corp., The: *See—*
Belisle, Adelard. 2,776,702.
Belisle, Adelard. 2,776,703.
Belisle, Adelard. 2,804,124.
- Berkman, Boris. Ear protecting devices. 2,785,675, 3-19-57, Cl. 128-152.
- Berkman, Boris. Ear protecting device. 2,785,676, 3-19-57, Cl. 128-152.
- Berkman, Sophia, to Transonic Corp. Compositions for improving combustion in an internal combustion engine. 2,780,602, 2-5-57, Cl. 252-432.
- Berko Electric Mfg. Corp.: *See—*
Knoll, David. 2,795,682.
- Berkoben, Charles W., to Westinghouse Air Brake Co. Air-plane brake control apparatus. 2,777,654, 1-15-57, Cl. 244-111.
- Berkowitz, Archie: *See—*
Crossot, Eugene A. 2,777,697.
- Berkowitz, Bernard, to Sperry Rand Corp. Microwave antenna system. 2,805,415, 9-3-57, Cl. 343-777.
- Berkson Products, Inc.: *See—*
Pinkerson, Albert S. 2,817,791.
- Berle, Alf K.: *See—*
Kaye, Joseph, and Reswick. 2,809,774.
- Berlepsch, Charles A.: *See—*
Cook, Richard H., and Berlepsch. 2,810,971.
- Berliant, George, to Stone Container Corp. Apparatus for assembling built up pads with corrugated paperboard. 2,812,006, 11-5-57, Cl. 546-178.
- Berlien, Paul B., to General Electric Co. Resilient mounting. 2,803,416, 8-20-57, Cl. 248-26.
- Berlin, Aaron S., S. Q. Kline, N. J. Levenson, and F. B. Shaw, Jr., to the United States of America as represented by the Secretary of the Army. Aerial bomb. 2,796,021, 6-18-57, Cl. 102-7.2.
- Berlin Chapman Co.: *See—*
Glascoff, Walter G. 2,817,442.
Walworth, Robert S. 2,817,122.
- Berlin, Ernst. Transparent clingable dress patterns. 2,795,047, 6-11-57, Cl. 33-12.
- Berlin, Jack, S. A. Cohen, J. Fisch, and M. Zimet, to the United States of America as represented by the Secretary of the Navy. Electronic tube testing apparatus. 2,787,761, 4-2-57, Cl. 324-23.
- Berline, Raoul. Pressure filters. 2,799,397, 7-16-57, Cl. 210-331.
- Berliner, Henry A. Reciprocating pump. 2,791,969, 5-14-57, Cl. 103-148.
- Berling, William E. Hammer mill construction. 2,785,865, 3-19-57, Cl. 241-186.
- Berlman, Isadore B., and L. D. Marinelli, to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for counting fast neutrons in the presence of gamma rays. 2,795,703, 6-11-57, Cl. 250-71.5.
- Berlyn, Martin J., to American Bosch Arma Corp. Ball pump. 2,813,492, 11-19-57, Cl. 103-161.
- Berman, Joseph B.: *See—*
Reizman, Bina F., and Berman. 2,778,210.
- Berman, Samuel G. Artificial breast for amputees. 2,814,808, 12-3-57, Cl. 3-1.
- Berman, Sterling M. Liquid spraying device. 2,818,028, 12-31-57, Cl. 103-153.
- Bermingham, Peter D., 10% to J. W. Freeman and 5% to R. V. Maher. Face to face seal. 2,784,017, 3-5-57, Cl. 288-3.
- Bernaerts, Henricus F. J. Motor trucks carrying a foldable crane. 2,782,939, 2-26-57, Cl. 212-8.
- Bernard, Arthur A., to National Cylinder Gas Co. Arc welding method and means. 2,777,928, 1-15-57, Cl. 219-8.

- Bernard, Arthur A., to National Cylinder Gas Co. Composite welding electrode. 2,785,285, 3-12-57, Cl. 219-146.
- Bernard, Arthur A. and R. A. Adjustable welding clamps. 2,803,208, 8-20-57, Cl. 113-99.
- Bernard, Arthur A. and R. A. Welding machine. 2,818,494, 12-31-57, Cl. 219-130.
- Bernard, Fred A., to Aeroquip Corp. Band clamp of the axially operable type. 2,778,085, 1-22-57, Cl. 24-268.
- Bernard, George G.: *See—*
- Bond, Donald C., and Bernard. 2,809,698.
- Bernard, Herbert J., and J. A. Morgan. Trailer and tow-car hitch. 2,797,107, 6-25-57, Cl. 280-501.
- Bernard, John A., and R. Verdin. Process of producing candy. 2,803,549, 8-20-57, Cl. 99-134.
- Bernard, Pierre D. Generator of electrostatic charges. 2,798,971, 7-9-57, Cl. 310-7.
- Bernard, Raymond C., and L. Edelson, to L-M Mfg. Co., Inc. Saw chain. 2,788,811, 4-16-57, Cl. 143-135.
- Bernard, Richard A.: *See—*
- Bernard, Arthur A. and R. A. 2,803,208.
- Bernard, Arthur A. and R. A. 2,818,494.
- Bernardine Bottle Cap Co., Inc.: *See—*
- McGee, John M. 2,809,568.
- Bernasconi, Felix, to Aktiengesellschaft Brown, Boveri & Cie. Nozzle box assembly. 2,794,616, 6-4-57, Cl. 253-78.
- Bernatt, Joseph: *See—*
- Brown, Walter, and Bernatt. 2,780,684.
- Berndt, Walter, to Telefunken G. m. b. H. Tuned dipole type antenna. 2,802,210, 8-6-57, Cl. 343-792.
- Berne, William E. Parallel bar exercising apparatus. 2,788,971, 4-16-57, Cl. 272-63.
- Berne, William E. Adjustable height treatment table. 2,799,545, 7-16-57, Cl. 311-39.
- Berneis, Kurt H., to Imperial Chemical Industries Ltd. Oxidation of aromatic hydrocarbons. 2,796,439, 6-18-57, Cl. 260-610.
- Berner, Robert L., Co.: *See—*
- Farrell, John P. 2,801,742.
- Berner, William F.: *See—*
- Hilligoss, Willard C. 2,790,423.
- Berness, Daniel R.: *See—*
- Schramm, Ella. 2,776,522.
- Schramm, Ella, and Berness. 2,779,484.
- Bernhard, Benjamin S., to The American Hardware Corp. Door check and closer. 2,806,244, 9-17-57, Cl. 16-65.
- Bernhard, Edgar. Cigarette structure. 2,815,028, 12-3-57, Cl. 131-8.
- Bernhard, Joseph, and B. L. Polkasnik, to Consolidated Trimming Corp. Supporting and pleating device for draperies. 2,796,928, 6-25-57, Cl. 160-348.
- Bernhard, Robert: *See—*
- Schonhoff, Carl J., and Bernhard. 2,795,088.
- Bernhard, Robert P. Safety toy chest. 2,808,170, 10-1-57, Cl. 217-57.
- Bernhardt, Ernest C., to E. I. du Pont de Nemours and Co. Extruder equipped with a mulling head. 2,780,834, 2-12-57, Cl. 18-12.
- Bernhardt, Howard E., and K. W. Davey, to A. O. Smith Corp. Method of welding. 2,780,717, 2-5-57, Cl. 219-100.
- Bernhardt, Eugen, to C. Zeiss. Micro hardness tester. 2,803,130, 8-20-57, Cl. 73-81.
- Bernhardt, Eugen, to C. Zeiss. Microscope objective with low magnification for epi-microscopes. 2,809,554, 10-15-57, Cl. 88-39.
- Bernhart, Finn W.: *See—*
- Tomarelli, Rudolph M., Eckhardt, and Bernhart. 2,792,389.
- Bernhardt, Harvey A.: *See—*
- Bernstein, Seymour, and Bernhardt. 2,795,479.
- Bernhardt, Robert. Devices for dispensing measured amounts. 2,799,436, 7-16-57, Cl. 222-429.
- Bernhart, Walter J., to Sperry Rand Corp. Aircraft clearance control system. 2,809,340, 10-8-57, Cl. 318-489.
- Bernbauer, Konrad, and W. Friedrich, to Aschaffenburger Zellstoffwerke Aktiengesellschaft. Process for purifying and separating B₁₂-group vitamins by partition chromatography on cellulose columns. 2,809,148, 10-8-57, Cl. 167-81.
- Bernl, Oreste. Venetian blinds in order to decrease the penetration of light when closed. 2,785,744, 3-19-57, Cl. 160-173.
- Berning, Rudolf: *See—*
- Spendel, Kurt, and Berning. 2,814,220.
- Berninger, Albert: *See—*
- Schulz, Hans K. F., and Berninger. 2,788,616.
- Berninger, Kenneth L.: *See—*
- Treseder, Robert C., Berninger, Weis, Dinsmore, and Taylor. 2,804,154.
- Berninger, Kenneth L., and C. C. Covert, to General Motors Corp. Valve assembly. 2,781,053, 3-12-57, Cl. 137-492.5.
- Berninger, Kenneth L., W. S. Neef, Jr., and W. A. Weis, to General Motors Corp. Valve assembly. 2,791,237, 5-7-57, Cl. 137-623.
- Bernitz Furnace Appliance Co.: *See—*
- Nygaard, Oscar. 2,788,753.
- Nygaard, Oscar. 2,791,977.
- Nygaard, Oscar. 2,818,035.
- Bernotsky, George A.: *See—*
- Levy, Joseph, and Bernotsky. 2,776,293.
- Bernreuter, Herbert A., to American Gage & Machine Co. Electric meter assemblies. 2,792,549, 5-14-57, Cl. 324-156.
- Bernstein, Axel W.: *See—*
- Angel, Trygve, and Bernstein. 2,795,519.
- Bernstein, Bertram L. Combined rake and pickup means. 2,790,296, 4-30-57, Cl. 56-400.4.
- Bernstein, Fred: *See—*
- Clark, Edward G., and Bernstein. 2,803,701.
- Bernstein, Irving S., to Amplex Corp. Color slide adapter. 2,785,291, 3-12-57, Cl. 240-46.57.
- Bernstein, Jack, to Olin Mathieson Chemical Corp. Pyridoxal derivatives of isonicotinic acid hydrazide. 2,810,725, 10-22-57, Cl. 260-295.
- Bernstein, Jack, and K. A. Losee, to Olin Mathieson Chemical Corp. Heavy-metal derivatives of 1-hydroxy-2-pyridinethiones and method of preparing same. 2,809,971, 10-15-57, Cl. 260-270.
- Bernstein, Louis. Belt buckle. 2,783,517, 3-5-57, Cl. 24-191.
- Bernstein, Robert, to Fruehauf Trailer Co. Material handling system for tank-type vehicles. 2,796,185, 6-18-57, Cl. 214-519.
- Bernstein, Russell W., to Merit Products, Inc. Abrasive pad. 2,815,617, 12-10-57, Cl. 51-194.
- Bernstein, Russell W., and A. Block. Coated abrasive wheel for polishing concave surfaces. 2,804,731, 9-3-57, Cl. 51-194.
- Bernstein, Samuel M. Ventilating range hood. 2,807,994, 10-1-57, Cl. 98-115.
- Bernstein, Seymour, and W. S. Allen, to American Cyanamid Co. 16-oxycortisone, 16-oxhydrocortisone and process. 2,777,864, 1-15-57, Cl. 260-397.45.
- Bernstein, Seymour, and H. A. Bernhardt, to the United States of America as represented by the United States Atomic Energy Commission. Method for converting uranium ammonium phosphate to uranyl fluoride. 2,795,479, 6-11-57, Cl. 23-14.5.
- Bernstein, Seymour, R. H. Lenhard, and W. S. Allen, to American Cyanamid Co. 16-alpha oxy-A^{1,4}-pregnadienes. 2,789,118, 4-16-57, Cl. 260-397.45.
- Bernstein, Seymour, and W. S. Allen, to American Cyanamid Co. 16-alpha oxy-A^{1,4}-pregnadienes. 2,806,043, 9-10-57, Cl. 260-397.45.
- Bernstein, Seymour, and R. Littell, to American Cyanamid Co. 4-pregnenes and method of preparing the same. 2,813,884, 11-19-57, Cl. 260-397.45.
- Bernstein, Stanley: *See—*
- Clapp, Charles W., and Bernstein. 2,810,838.
- Bernstorff, Hans: *See—*
- Anderson, Harald, Asendorf, and Bernstorff. 2,789,126.
- Bernuth Lembcke Co. Inc.: *See—*
- Jack, Arthur C. 2,818,218.
- Bernz, Otto, Co., Inc.: *See—*
- Webster, Milo E. 2,793,504.
- Berow, Reginald C. Siding joint clamp. 2,807,063, 9-24-57, Cl. 20-92.
- Berquier, Andre: *See—*
- Thibaut, Moise, and Berquier. 2,792,027.
- Berriman, Lester P., and C. M. Himel, to Richfield Oil Corp. Purification of toluic acids. 2,786,020, 3-19-57, Cl. 202-57.
- Berris, Kenneth V. W.: *See—*
- Merewood, George C., Berris, and Smedley. 2,782,001.
- Berry, Albert L.: *See—*
- Berry, Theodore M. 2,783,540.
- Berry, Cleveland R. Temperature activated electrical circuit closing device. 2,797,282, 6-25-57, Cl. 200-138.
- Berry, Clifford E.: *See—*
- Washburn, Harold W., and Berry. 2,784,318.
- Berry, Cordell. Water dog fishing plug. 2,785,497, 3-19-57, Cl. 43-42.26.
- Berry, David W., to Westinghouse Electric Corp. Aircraft propulsion apparatus. 2,814,349, 11-26-57, Cl. 170-135.4.
- Berry, Edward J.: *See—*
- Estee, Ralph C., Bears, Berry, and Sheeran. 2,812,797.
- Berry, Ernest V. Electroplating anode structure. 2,782,159, 2-19-57, Cl. 204-212.
- Berry, Frederick F. Can opener key. 2,788,152, 4-9-57, Cl. 220-52.
- Berry, G. William, J. C. Schmitt, and J. F. Schulz, to The Patent and Licensing Corp. Asphalt roofing. 2,804,833, 9-3-57, Cl. 108-7.
- Berry, Harry C. Trot-line rod. 2,778,142, 1-22-57, Cl. 43-27.4.
- Berry, Harry W. Pipe stem. 2,790,445, 4-30-57, Cl. 131-186.
- Berry, Henriette M. Rolling hobby horse with counter-weighted crank arms. 2,799,513, 7-16-57, Cl. 280-11.92.
- Berry, Jean E. Time zone timepiece. 2,777,281, 1-15-57, Cl. 53-80.
- Berry, Jean-Luc. Fractionating distilling apparatus. 2,805,845, 9-10-57, Cl. 261-109.
- Berry, John E., to General Networks. Sensory aid for the blind. 2,791,762, 5-7-57, Cl. 340-258.
- Berry, John G., and E. V. Mort. Sheet material slitting machine. 2,804,134, 8-27-57, Cl. 164-60.
- Berry, Morris J., and L. Wells. Bag. 2,795,258, 6-11-57, Cl. 150-28.
- Berry, Norton E., to Arkla Air Conditioning Corp. Air conditioning. 2,814,468, 11-26-57, Cl. 257-9.
- Berry, Norton E., to Arkla Air Conditioning Corp. Heating and cooling system. 2,818,234, 12-31-57, Cl. 257-9.
- Berry, Otto C. Casting machine. 2,780,849, 2-12-57, Cl. 22-93.

- Berry, Samuel C. Apparatus for handling fluent materials. 2,802,601, 8-13-57, Cl. 222-131.
- Berry, Theodore M., deceased; A. L. Berry, administrator, to General Electric Co. Rolling contact measuring apparatus utilizing a magnetic counting device. 2,783,540, 3-5-57, Cl. 33-134.
- Berryhill, George M., Jr. Magnetic game apparatus. 2,809,835, 10-15-57, Cl. 273-1.
- Berseth, Norman S. Tents. 2,796,877, 6-25-57, Cl. 135-1.
- Bersin, Theodor, and A. Mueller, to Hausmann Laboratories Ltd. Glycosidal material having activity of the heart and vascular vessels and its preparation from plant sources. 2,799,618, 7-16-57, Cl. 167-65.
- Bersworth, Frederick C.: See—
Rubin, Martin, and Bersworth. 2,781,291.
- Bersworth, Frederick C., to The Dow Chemical Co. Method and composition for application of protective chelate-containing coating to surfaces and article formed thereby. 2,776,918, 1-8-57, Cl. 148-6,14.
- Bersworth, Frederick C., to The Dow Chemical Co. Germicidally active phenolic copper chelate compounds. 2,794,817, 6-4-57, Cl. 260-438.
- Bersworth, Frederick C., to The Dow Chemical Co. Germicidally active phenolic copper chelate compounds. 2,794,818, 6-4-57, Cl. 260-438.
- Bersworth, Frederick C., to The Dow Chemical Co. Metal ion chelating agents. 2,810,753, 10-22-57, Cl. 260-534.
- Bersworth, Frederick C. and A. E. Frost, to The Dow Chemical Co. Polyvalent metal ion chelating agent. 2,806,060, 9-10-57, Cl. 260-534.
- Berta, Joseph, to Casco Products Corp. Extendable antenna. 2,781,668, 2-19-57, Cl. 74-208.
- Bertaud, Louis M. Direction indicator switch. 2,777,025, 1-8-57, Cl. 200-61,27.
- Berteroitiere, René, and G. Convert, to Compagnie Generale de Telegraphie Sans Fil. Devices of focusing of electronic beams. 2,807,739, 9-24-57, Cl. 313-82.
- Berthelsen, V., Engineering Works, Inc.: See—
Berthelsen, Viggo. 2,784,754.
- Berthelsen, Viggo, to V. Berthelsen Engineering Works, Inc. Hydraulic systems. 2,784,754, 3-12-57, Cl. 144-281.
- Berthelson, Louis E.: See—
Sullwold, Richard H., and Berthelson. 2,809,596.
- Berthier, Emile A. Manually operable trip-free circuit breaker. 2,808,486, 10-1-57, Cl. 200-116.
- Berthiez, Charles W. Turning device. 2,791,144, 5-7-57, Cl. 82-2.
- Berthiez, Charles W., to Societe Anonyme Dite: Societe Nouvelle de Construction de Machines-Outils et d'Outillage Procédés C. W. B. Device for taking up the play of a machine member movable in slideways and subject to variable stresses. 2,793,570, 5-28-57, Cl. 90-14.
- Berthiez, Gilbert, to Société Anonyme des Anciens Etablissements Charles Berthiez. Driving of spindles of machine tools. 2,802,377, 8-13-57, Cl. 74-801.
- Berthold, Wolfgang, to International Standard Electric Corp. Gun system for cathode ray tubes. 2,802,139, 8-6-57, Cl. 315-13.
- Berticevich, George C. Electrical connector. 2,816,185, 12-10-57, Cl. 200-51.
- Bertin, Jean: See—
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,493.
Kadosch, Marcel, Paris, Bertin and Marchal. 2,793,494.
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Le Pail, Jean, and Bertin. 2,812,635.
Marchal, Raymond H., Maunoury, Turinetti, Kadosch, and Bertin. 2,797,548.
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Meulien, Henri L. P., Bertin, and Kadosch. 2,807,137.
- Bertin, Jean H.: See—
Kadosch, Marcel, and Bertin. 2,801,515.
- Bertinot, Francis. Sizing apparatus. 2,782,922, 2-26-57, Cl. 209-102.
- Bertley, Robert G. Baseball game apparatus. 2,802,667, 8-13-57, Cl. 273-89.
- Bertneskie, William J. Jacket. 2,790,178, 4-30-57, Cl. 2-93.
- Bertoia, Harry, to Knoll Associates, Inc. Article of repose for supporting the body of a person. 2,804,915, 9-3-57, Cl. 155-194.
- Bertorelli, Orlando L.: See—
Cuthbertson, Charles R., and Bertorelli. 2,806,771.
- Bertorello, Jack, and B. Cavaliere. Machine for applying sealing compound to can or container tops. 2,795,818, 6-18-57, Cl. 18-1.
- Bertozi, Eugene R., to Thiokol Chemical Corp. Process of making alkaline sulfides and sulfates. 2,796,325, 6-18-57, Cl. 23-129.
- Bertrams, Kurt. Flash lamps. 2,780,720, 2-5-57, Cl. 240-13.
- Bertrams Ltd.: See—
Cruickshanks, John. 2,777,331.
- Bertsch, Joseph F., to General Motors Corp. Power steering control valve. 2,786,454, 3-26-57, Cl. 121-46,5.
- Bertuch, Hans. Machine mounting device. 2,779,559, 1-29-57, Cl. 248-24.
- Berube, Arthur L., and J. F. Burt. Teletypewriter code selector. 2,806,898, 9-17-57, Cl. 178-1.
- Berwaerts, Victor. Method and apparatus for automatically regulating quantities of material added to a mixture. 2,780,456, 2-5-57, Cl. 265-29.
- Beryllium Corp., The: See—
Donachie, Matthew J. 2,789,899.
Morana, Simon J., and Simons. 2,804,372.
- Besel, Wilhelm, to Reimers-Getriebe K. G. Infinitely variable power transmission. 2,805,583, 9-10-57, Cl. 74-230,17.
- Beseler, Charles, Co.: See—
Field, Philip M. 2,817,268.
Kuscher, Jack J. 2,800,833.
- Beseler, Herman F. Lifting, transporting and placing device. 2,782,940, 2-26-57, Cl. 212-59.
- Beskid, John. Oil drip catcher for automotive vehicles. 2,783,848, 3-5-57, Cl. 180-69,1.
- Beskow, Stig, to Aktiebolaget Separator. Apparatus for separation and vacuum-treatment of foam-producing liquids. 2,790,598, 4-30-57, Cl. 233-21.
- Besly-Wells Corp.: See—
Brausam, George H. 2,803,099.
Napp, Sidney M. 2,805,525.
Welles, Donald P., Jr. 2,807,813.
- Beson, Everett E.: See—
Buzicky, Edmund J., and Beson. 2,812,875.
- Bessant, Kenneth H. C., A. G. Goodchild, C. E. Hollis, H. M. Hutchinson, and S. G. Kemp, to The Distillers Co. Ltd. Production of paste-forming polyvinyl chloride. 2,784,177, 3-5-57, Cl. 260-92,8.
- Besser, Charles S., to Besser Metal Products Corp. Horizontal warm air furnace. 2,804,869, 9-3-57, Cl. 126-110.
- Besser, Eli D.: See—
Cohen, Joseph, and Besser. 2,779,288.
- Besser Metal Products Corp.: See—
Besser, Charles S. 2,804,869.
- Besserer, Carl W., Jr., to the United States of America as represented by the Secretary of the Navy. Variable-area constrictor for ramjet diffuser. 2,790,304, 4-30-57, Cl. 60-35,6.
- Besserer, Carl W., Jr., to the United States of America as represented by the Secretary of the Navy. Variable-area inlet constrictor for ramjet engine responsive to velocity and atmospheric density. 2,817,209, 12-24-57, Cl. 60-35,6.
- Besserman, Max. Push button electrically controlled steering adapter. 2,805,585, 9-10-57, Cl. 74-625.
- Bessey, Carlton E., to the United States of America as represented by the Secretary of the Army. Transistor amplifier. 2,791,645, 5-7-57, Cl. 179-171.
- Bessiere, Pierre E., to Telma. Speed limiting devices for revolving shafts subjected to the action of a variable driving torque. 2,784,329, 3-5-57, Cl. 310-93.
- Bessiere, Pierre E., to Compagnie Telma. Foucault current apparatus and in particular in braking devices of this type. 2,796,541, 6-18-57, Cl. 310-93.
- Bessiere, Pierre E., to Society "Silto." Electric brakes. 2,818,516, 12-31-57, Cl. 310-93.
- Bessing, Frank P.: See—
Hersh, Herman I., and Bessing. 2,782,790.
- Bessinger, Brady L. Linemen's climber. 2,808,974, 10-8-57, Cl. 227-27.
- Best, Clarence A. Fishing tackle. 2,787,858, 4-9-57, Cl. 43-43,15.
- Best, Coe M., Jr. Hull form and construction for metal vessels. 2,791,980, 5-14-57, Cl. 114-56.
- Best Foods, Inc., The: See—
Gooding, Chester M. 2,814,633.
Morrill, Elliott, and Landwerlen. 2,776,268.
Morrill, Elliott, and Newburn. 2,782,171.
- Best, Frank E. Multiple shear line lock with breech lock assembly means. 2,807,158, 9-24-57, Cl. 70-370.
- Best, Frank E. Lock core. 2,814,941, 12-3-57, Cl. 70-340.
- Best, Harold E. Animated drinking tubes. 2,797,962, 7-2-57, Cl. 299-17.
- Best, Morton P., and H. B. Morganstern. Thermometer case with built-in light unit. 2,797,308, 6-25-57, Cl. 240-6,4.
- Best, Philip F.: See—
McBride, Charles B., and Best. 2,792,075.
- Best, Stanley G.: See—
Pearl, David R., and Best. 2,796,733.
- Best, Stanley G., to United Aircraft Corp. Reversing servo for fuel control. 2,782,767, 2-26-57, Cl. 121-41.
- Best, Stanley G., to United Aircraft Corp. Hydraulic servo system for fuel control. 2,782,769, 2-26-57, Cl. 121-42.
- Best, Walter E. Key in the knob lock. 2,801,536, 8-6-57, Cl. 70-146.
- Beste, Harold E., to Allen B. Du Mont Laboratories, Inc. Video amplifier bridge circuit for minimizing supply voltage variations. 2,800,528, 7-23-57, Cl. 178-7,5.
- Beste, Harold E., to Allen B. Du Mont Laboratories, Inc. Television system. 2,814,757, 11-26-57, Cl. 315-21.
- Bestehorn, Henry H. Mechanical paste dryers. 2,805,493, 9-10-57, Cl. 34-130.
- Bestian, Herbert, G. Schäfer, and F. Quint, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning. Xanthinon compounds and a process of preparing them. 2,794,023, 5-28-57, Cl. 260-315.
- Bestoso, Napoleon S., to Brown & Haley. Apparatus for wrapping cylindrical objects. 2,795,907, 6-18-57, Cl. 53-57.
- Bestpak Inc.: See—
Herrick, John H. 2,800,840.
Thompson, Paul. 2,782,977.
- Betcher, Richard L.: See—
Marsh, Byron E., Schubert, Betcher, and DuBrow. 2,798,798.

- Bete Fog Nozzle, Inc. : *See*—
Bete, John U. 2,804,341.
- Bete, John U., to Bete Fog Nozzle, Inc. Spray nozzles. 2,804,341, 8-27-57, Cl. 299-114.
- Bethe, Eugene J., to United States Rubber Co. Manufacture of sponge rubber from foamed rubber latex. 2,801,274, 7-30-57, Cl. 260-723.
- Bethea, Charles F., L. W. Pollock, and J. Q. Wood, to Phillips Petroleum Co. Carbon black furnace and process. 2,785,054, 3-12-57, Cl. 23-209.4.
- Bethea Co., Inc. : *See*—
Nolan, Vincent B. 2,778,870.
- Bethge, Walther : *See*—
Egle, Arthur, and Bethge. 2,813,960.
- Bethke, John R., to Burroughs Corp. Beam tube switching circuits. 2,794,147, 5-28-57, Cl. 315-21.
- Bethlehem Steel Co. : *See*—
Crowley, James B. 2,793,144.
Dougherty, Robert S. A. Re. 2,743,369.
Eberhardt, John E. 2,777,755.
Field, Joseph. 2,809,109.
Franck, John M., and Stark. 2,799,605.
Groover, Robert W. 2,780,354.
Mancke, Edgar B. 2,776,207.
Mancke, Edgar B. 2,793,112.
Mancke, Edgar B., and Fox. 2,809,105.
Murphy, Donald W. 2,801,161.
Murphy, Donald W. 2,807,537.
Riedel, John Y. 2,780,570.
White, William E. 2,787,198.
- Wick, Richard M., and Schneidewind. 2,780,592.
- Bethune, Harry R., to The Thomas & Betts Co. Cable cutter. 2,794,250, 6-4-57, Cl. 30-254.
- Bethune, James N. Pressure responsive automatic dispensing device. 2,812,119, 11-5-57, Cl. 222-394.
- Bettencourt, Theodore R., to John I. Pauling, Inc. Flush switch and casing therefor. 2,807,683, 9-24-57, Cl. 200-67.
- Bettendorf Bakery Equipment Co. : *See*—
Boitscha, Herbert E. 2,809,681.
Tammen, Fred B. 2,787,159.
- Better, Bernard R., and J. W. Lehde, Jr., to Scully-Jones and Co. Safe torque driver. 2,791,304, 5-7-57, Cl. 192-56.
- Better Built Machinery Co. : *See*—
Hofer, Peter. 2,786,480.
- Betteridge, Walter, and H. Lewis, to The International Nickel Co., Inc. Nickel chromium alloy and electrical resistance heating elements made thereof. 2,815,283, 12-3-57, Cl. 75-171.
- Better Packages Inc. : *See*—
Krueger, Theodore H. 2,788,944.
Sharpe, Everett E. 2,780,286.
Sharpe, Everett E. 2,788,852.
- Bettini, Bruno H. Attractor. 2,791,058, 5-7-57, Cl. 43-42.06.
- Bettis, Edward S. : *See*—
Stone, Joseph J., Jr., Mann, and Bettis. 2,808,986.
- Bettoli, Phillip S., G. L. Brown, C. R. Eckert, and B. B. Kine. Preparation of coated asbestos-cement products. 2,778,283, 1-22-57, Cl. 92-40.
- Betts & Betts Corp. : *See*—
Yarrow, Joseph S. 2,817,916.
- Betts, Gilbert A. : *See*—
Polidor, Edward C., de Boer, and Betts. 2,789,354.
- Betts, Joseph L., Jr. : *See*—
Ernst, John L., and Betts. 2,799,662.
- Betty, Robert M. : *See*—
Foster, Henry W., Betty, and Whitehill. 2,795,175.
- Betz Corp. : *See*—
Boyle, John R. 2,787,138.
- Betz, Lawrence A. Measuring siphon. 2,796,880, 6-25-57, Cl. 137-150.
- Betz, W. H. & L. D. : *See*—
Kahler, Harry L., and George. 2,793,932.
- Beuckman, Frank O., and W. M. Tucker, to Eastman Kodak Co. Method of electroplating on titanium. 2,801,213, 7-30-57, Cl. 204-32.
- Baugler, Samuel B. Mixing machine. 2,797,902, 7-2-57, Cl. 259-72.
- Beurié, André E. J. M. Boning system of girdles, corsets, and the like. 2,785,408, 3-19-57, Cl. 2-36.
- Beusch, Andrew. Tool maker's vise. 2,803,999, 8-27-57, Cl. 90-60.
- Beutel, George A. : *See*—
Rittner, Edmund S., Grace, Fine, and Beutel. 2,803,779.
- Beuther, Harold, and W. C. Offutt, to Gulf Research & Development Co. Stabilization of cracked gasolines. 2,786,018, 3-19-57, Cl. 196-40.
- Beuther, Harold, W. C. Offutt, and P. Shecke, to Gulf Research & Development Co. Preparation of petroleum pitch. 2,796,388, 6-18-57, Cl. 196-76.
- Bevan, Glen P. Snow plow. 2,802,287, 8-13-57, Cl. 37-43.
- Beverage Control Sales Co. of Philadelphia, Inc. : *See*—
Di Grado, Salvatore, and McIntyre. 2,808,178.
Di Grado, Salvatore, and McIntyre. 2,808,179.
- Beveridge, Harold N., to Raytheon Mfg. Co. Relaxation oscillators. 2,817,762, 12-24-57, Cl. 250-36.
- Beveridge, Harold N., N. Freedman, and K. T. Larkin, to the United States of America as represented by the Secretary of the Navy. Pulse width discriminator. 2,776,370, 1-1-57, Cl. 250-27.
- Beveridge, Harold N., and R. M. Dunham, to Raytheon Mfg. Co. Sweep circuits. 2,814,760, 11-26-57, Cl. 315-27.
- Beverino, Naomi C. Hand operated thread dispensing device. 2,798,681, 7-9-57, Cl. 242-137.1.
- Beverly, Jarvis B., to Standard Oil Co. Improved trough grease and method of preparing the same. 2,784,098, 3-5-57, Cl. 99-118.
- Bevilacqua, Edward M., to United States Rubber Co. Polymerization of styrene in Hevea latex. 2,780,605, 2-5-57, Cl. 260-25.
- Bevilacqua, Ernest M. : *See*—
Bennett, John G., and Bevilacqua. 2,776,826.
- Bevilacqua, Ernest M. Combined hinge and latch mechanism. 2,811,740, 11-5-57, Cl. 16-142.
- Bevins, James E. : *See*—
Roberts, George I., and Bevins. 2,778,311.
- Bevins, James E., to Bendix Aviation Corp. Electric switching apparatus. 2,786,103, 3-19-57, Cl. 200-5.
- Bevoort, Cornelis, and R. E. M. Baudet, to Staatsbedrijf der posterijen, Telegrafie en Telefonie. Automatic volume control device. 2,791,743, 5-7-57, Cl. 323-66.
- Bevoort, Cornelis, and R. E. M. Baudet, to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Syllabic frequency discriminator. 2,817,014, 12-17-57, Cl. 250-27.
- Bewley, William L., and R. L. Switzer, to Union Oil Co. of California. Controlled liquid dispensing system. 2,803,379, 8-20-57, Cl. 222-20.
- Beyer, Arthur, to Firma Olympia Werke West G. m. b. H., now by change of name to Olympia Werke Aktiengesellschaft. Key arrangement for office machines and the like. 2,799,380, 7-16-57, Cl. 197-102.
- Beyer, Carl R. Door stop and holder. 2,809,061, 10-8-57, Cl. 292-75.
- Beyer, Carlton E., to The Dow Chemical Co. Automatic control in the injection molding cycle. 2,786,234, 3-26-57, Cl. 18-30.
- Beyer Engineering Co. : *See*—
Troyer, Marc D. 2,802,639.
- Beyer, Frederick A., to Houdaille Industries, Inc. Adjustable valve for dampers. 2,800,203, 7-23-57, Cl. 188-93.
- Beyer, Frederick A., and B. Fuente, to Houdaille Industries, Inc. Flutter damper structure. 2,797,776, 7-2-57, Cl. 188-93.
- Beyer, George L., Jr. : *See*—
Shepard, Ward, Jr., Serrell, Beyer, and Robertson. 2,793,321.
- Beyer, Harold G., and W. J. Stinson, to the United States of America as represented by the United States Atomic Energy Commission. Radiation detecting and measuring system. 2,790,086, 4-23-57, Cl. 250-83.6.
- Beyer, John H., to United States Pipe and Foundry Co. Mold coating apparatus. 2,814,083, 11-26-57, Cl. 22-94.
- Beyer, Karl H., Jr. : *See*—
Wilcox, Paul W., Beyer, and Ziegler. 2,789,938.
- Beyer, Lawrence A., to The Haynes Mfg. Co. Container handle. 2,792,958, 5-21-57, Cl. 215-100.
- Beyer, Millard L. : *See*—
Persson, Ernest, and Beyer. 2,804,302.
- Beyer, Millard L. Remote variable control of vehicle speed. 2,780,300, 2-5-57, Cl. 180-82.1.
- Beyer, Walter O. Flange coupling with sealing means responsive to internal or external pressure. 2,777,715, 1-15-57, Cl. 285-112.
- Beyers, George W. : *See*—
Ayars, Edward M., Jr., Beyers, Heffelfinger, and Truitt. 2,814,088.
- Beyersbergen, Jacobus P. : *See*—
Moleman, Pieter F., and Beyersbergen. 2,784,315.
- Beyerstedt, Fred J. : *See*—
Davidson, James R., and Beyerstedt. 2,808,377.
- Beyerstedt, John M., and H. E. Erickson, to Nordberg Mfg. Co. Hard surfaced adzer bits. 2,796,898, 6-25-57, Cl. 144-133.
- Beyerstedt, Ralph L., to The Frank G. Hough Co. Bucket arrangements for power loaders. 2,783,903, 3-5-57, Cl. 214-140.
- Beyerstedt, Ralph L., to The Frank G. Hough Co. Tractor shovel. 2,790,256, 4-30-57, Cl. 37-117.5.
- Beyerstedt, Ralph L., and E. R. Cunningham, Jr., to The Frank G. Hough Co. Power loader. 2,806,617, 9-17-57, Cl. 214-510.
- Beyette, Sanford R. Christmas tree baler. 2,792,775, 5-21-57, Cl. 100-13.
- Beyland, Robert W. Liquid separator. 2,790,560, 4-30-57, Cl. 210-296.
- Beyler, Roger E., to Merck & Co., Inc. 11-oxygenated-4,17(20)-pregnadien-21-al-20-ol-3-one and its derivatives. 2,795,594, 6-11-57, Cl. 260-397.45.
- Beyner, André, to Ebauches S. A. Electric watch. 2,817,207, 12-24-57, Cl. 58-28.
- Beyrodt, Kurt T. Parachute ball toy. 2,796,697, 6-25-57, Cl. 46-86.
- Beyvl, Joseph M., to The Foundry Equipment Co. Mold drying system. 2,804,696, 9-3-57, Cl. 34-104.
- Bezaury, Kenneth C. : *See*—
Sigler, Charles R., and Bezaury. 2,789,671.
- Bezdel, Wincenty : *See*—
Baker, George T., and Bezdel. 2,805,363.
- Bialostok, Daniel : *See*—
Bialostok, Max. 2,782,619.
- Bialostok, Max. Knitted glove. 2,779,178, 1-29-57, Cl. 66-174.

- Bialostok, Max, to D. Bialostok. Sweater construction and method of making same. 2,782,619, 2-26-57, Cl. 66-176.
- Bianca, Edoardo G., to Sicomat A. G. Shunting arrangements for moving vehicles or the like. 2,817,447, 12-24-57, Cl. 214-95.
- Bianca, Edoardo G., and K. Diebold. Process of joining or uniting metallic sheets. 2,815,568, 12-10-57, Cl. 29-505.
- Bianco, Henry J., to The Burch Co. Window frame provided with caulking groove. 2,776,737, 1-8-57, Cl. 189-75.
- Bianco, Henry J., to The Burch Co. Metal window and weather strip construction. 2,782,885, 2-26-57, Cl. 189-72.
- Bianco, Henry J., to The Burch Co. Window frame construction. 2,788,098, 4-9-57, Cl. 189-75.
- Bianculi, Anthony J., to Radio Corp. of America. Traveling wave tube. 2,806,170, 9-10-57, Cl. 315-3.5.
- Biarnais, Paul: *See*—
Bourguignon, Pierre, and Biarnais. 2,805,246.
- Biba, Edward A., Jr., and J. F. Cullerton, Jr., to Mandex Mfg. Co. Electrical terminal connector. 2,802,193, 8-6-57, Cl. 339-219.
- Bibber, George W.: *See*—
Lyman, George W., and Bibber. 2,781,677.
- Bibby, Ralph D., to The Lane Co., Inc. Flying saw cutting apparatus for work moving at variable speed. 2,812,787, 11-12-57, Cl. 143-47.
- Biber, Albert, to Gulf Research & Development Co. Nozzle for applying cutting fluid in a flat stream. 2,810,608, 10-22-57, Cl. 299-154.
- Bible, Milbert D. Plant setter. 2,776,633, 1-8-57, Cl. 111-2.
- Bible, Roy H., Jr., and W. M. Hoehn, to G. D. Searle & Co. 6-hydroxy and 7-hydroxy derivatives of 1,4a-dimethylperhydrophenanthrene-1-carboxylic acid. 2,796,431, 6-18-57, Cl. 260-514.
- Biblin, Daniel L., to The Yale & Towne Mfg. Co. Lock housing with knob mounting construction. 2,800,352, 7-23-57, Cl. 292-352.
- Biblin, Daniel L., to The Eagle Lock Co. Cylinder lock with stop means. 2,804,765, 9-3-57, Cl. 70-362.
- Biby, Edward E. Twine and tape-feeding attachment for a mattress button-tufting machine. 2,796,842, 6-25-57, Cl. 112-3.
- Bickel, Edward J., to Universal Oil Products Co. Treatment of petroleum distillates. 2,781,143, 2-19-57, Cl. 196-23.
- Bickel, Edward J., to Universal Oil Products Co. Method of manufacturing a supported catalyst. 2,798,051, 7-2-57, Cl. 252-466.
- Bichsel, Harry J., to Westinghouse Electric Corp. Arc welding apparatus. 2,786,160, 3-19-57, Cl. 315-141.
- Bichsel, Harry J., to Westinghouse Electric Corp. Arc welding. 2,813,193, 11-12-57, Cl. 219-130.
- Bickel, David K., and S. J. Mittl, to The Glidden Co. Process for preparing polyester-faced bodies. 2,817,619, 12-24-57, Cl. 154-110.
- Bickford, Hugh C., to Maryland Laboratories, Inc. Means for ozone treatment of liquids. 2,812,861, 11-12-57, Cl. 210-120.
- Bickford, Lawrence R., Jr., to International Business Machines Corp. Magnetostrictive relay. 2,782,280, 2-19-57, Cl. 200-87.
- Bicking, John B.: *See*—
Skinner, Glenn S., and Bicking. 2,786,838.
- Bickley, Everett H. Ball sorter. 2,778,497, 1-22-57, Cl. 209-72.
- Bickley, Everett H. Electromagnetic air puffer valve unit. 2,783,021, 2-26-57, Cl. 251-140.
- Bickman, Felix H.: *See*—
Fasching, Leander F., and Bickman. 2,792,183.
- Bicknell, John A., to S. D. Warren Co. Process from drum-finishing coated paper. 2,810,966, 10-29-57, Cl. 34-41.
- Bicknell, Robert, to The Garrett Corp. Inflatable life raft and sea anchor assembly. 2,784,425, 3-12-57, Cl. 9-11.
- Biddison, John M., to H. W. Moore. Machine for inserting strip material into slots. 2,808,640, 10-8-57, Cl. 29-205.
- Biddison, John M., to H. W. Moore. Apparatus for and method of applying insulating material to coils. 2,809,141, 10-8-57, Cl. 154-2.25.
- Bidin, Peter. Hydraulically operated hand tools. 2,791,028, 5-7-57, Cl. 30-180.
- Bidwell, Joseph B., to General Motors Corp. Surface gage extension probe. 2,789,429, 4-23-57, Cl. 73-105.
- Biebel, Lawrence B., to The Hobart Mfg. Co. Computing scale. 2,803,448, 8-20-57, Cl. 265-29.
- Bleber, Theodore I. Method of preparing sulfamic acids from organic isocyanates. 2,785,196, 3-12-57, Cl. 260-500.
- Biederman, Joseph B.: *See*—
Hall, Mitchell A., and Kopp. 2,808,966.
- Biederman, Joseph B. Weigh scale for mail parcels such as letters and the like. 2,783,989, 3-5-57, Cl. 265-63.
- Biederman, Joseph B. Dropper cap for a bottle. 2,789,734, 4-23-57, Cl. 222-207.
- Biederman, Joseph B. Plastic container having an elongatable spout. 2,805,001, 9-3-57, Cl. 222-211.
- Biedermann, Hildegard: *See*—
List, Hildegard. 2,795,611.
- Biedermann, William C.: *See*—
Sunko, John, and Biedermann. 2,782,389.
- Biedess, Anthony R., to Goodman Mfg. Co. Drive for belt conveyors. 2,792,104, 5-14-57, Cl. 198-203.
- Biefang, Peter: *See*—
Wittmoser, Adalbert, Biefang, and Dutting. 2,800,691.
- Biefeld, Lawrence P., and H. W. Duffee, to Owens-Corning Fiberglas Corp. Method of forming yarns from staple glass fibers. 2,780,909, 2-12-57, Cl. 57-164.
- Biefeld, Lawrence P., and T. E. Philipps, to Owens-Corning Fiberglas Corp. Process of forming coated twisted yarns and woven fabrics and resultant article. 2,799,598, 7-16-57, Cl. 117-126.
- Biefeld, Lawrence P., and R. F. Shannon, to Owens-Corning Fiberglas Corp. Fibrous glass reinforced resinous molding compound. 2,804,438, 8-27-57, Cl. 260-22.
- Bieger, Jacob J., and R. H. Wadsworth, to Daco Machine & Tool Co. Desiccating apparatus. 2,783,547, 3-5-57, Cl. 34-53.
- Biehn, Gerald L.: *See*—
Skeats, Alfred E., and Biehn. 2,818,535.
- Biehn, Gerald L., to Westinghouse Electric Corp. Heat pumps. 2,785,540, 3-19-57, Cl. 62-115.
- Biehn, Gerald L., to Westinghouse Electric Corp. Heat pumps. 2,806,674, 9-17-57, Cl. 257-3.
- Biel, John H., to Lakeside Laboratories, Inc. Mercapto derivatives of mercurated 1-alkyl-theobromine. 2,782,194, 2-19-57, Cl. 260-242.
- Biel, John H., to Lakeside Laboratories, Inc. Method of reducing 3-hydroxypyridine and its derivatives. 2,802,007, 8-6-57, Cl. 260-293.2.
- Bielema, Frank H.: *See*—
Sikkema, Arthur L., and Bielema. 2,807,062.
- Bielicki, Harry W.: *See*—
Dolza, John, Bielicki, and Pierce. 2,789,545.
- Bielstein, Walter J., to Esso Research and Engineering Co. Retrivable tubing plug. 2,776,015, 1-1-57, Cl. 166-188.
- Bielstein, Walter J., to Esso Research and Engineering Co. Device for drilling wells. 2,780,438, 2-5-57, Cl. 255-3.
- Bielstein, Walter J., to Esso Research and Engineering Co. Permanent well completion apparatus. 2,781,098, 2-12-57, Cl. 166-55.
- Bielstein, Walter J., to Esso Research and Engineering Co. Apparatus for preventing blowouts. 2,799,476, 7-16-57, Cl. 255-19.
- Bielstein, Walter J., to Esso Research and Engineering Co. Oil well pump. 2,807,216, 9-24-57, Cl. 103-46.
- Biemiller, Philip E.: *See*—
Van Horn, John A., Biemiller, and Reese. 2,806,908.
- Bien, Hans-Samuel: *See*—
Baumann, Fritz, and Bien. 2,805,224.
- Bien, Howard L. Method of making cutting dies. 2,787,922, 4-9-57, Cl. 76-107.
- Bien, Howard L. Method of making cutting dies. 2,791,134, 5-7-57, Cl. 76-107.
- Bienert, Berthold: *See*—
Baumann, Fritz, Bienert, and Rösche. 2,778,819.
- Bieniosek, Chester E., H. C. Barnes, Jr., and G. P. Dahm, to Union Carbide Corp. Method of injecting fluidized powders for metallurgical treatment. 2,803,533, 8-20-57, Cl. 75-53.
- Bieniosek, Chester E., and E. F. Kurzinski, to Union Carbide Corp. Powder dispenser. 2,807,508, 9-24-57, Cl. 302-57.
- Bierl, Richard, to Matthias Hohner, Aktiengesellschaft. Oscillating circuit for audio frequency generators. 2,786,941, 3-26-57, Cl. 250-36.
- Bierly, George M.: *See*—
Miley, Walter M., Thomas, and Bierly. 2,797,212.
- Biermann, William A., to Controls Co. of America. Valve. 2,793,654, 5-28-57, Cl. 137-434.
- Biermann, William A., and H. E. Rowland, to Controls Co. of America. Ignition and fuel flow control. 2,813,579, 11-19-57, Cl. 158-28.
- Biffi, Giovanni: *See*—
Marforio, Nerino, Biffi, and Burlone. 2,799,236.
- Bigelow, Edward J., to North American Aviation, Inc. Surge-free valve. 2,815,921, 12-10-57, Cl. 251-38.
- Bigelow-Garvey Lumber Co.: *See*—
Johnson, Johan S. 2,808,956.
- Bigelow, John F., to Raytheon Mfg. Co. High voltage control in television receivers. 2,790,108, 4-23-57, Cl. 315-27.
- Bigelow-Liptak Corp.: *See*—
Banck, Robert A. 2,780,205.
- Bigelow-Sanford Carpet Co., Inc.: *See*—
Jackson, Robert J. 2,777,468.
- Bigelow, William, and E. C. Kleemeier. Sand auger. 2,810,553, 10-22-57, Cl. 255-69.
- Biggle, Laurence C., to General Controls Co. Thermoelectric generator. 2,792,440, 5-14-57, Cl. 136-4.
- Biggs, Edgar G., to H. D. Justi & Son, Inc. Apparatus and method for effecting intra-oral selection of artificial tooth molds. 2,789,353, 4-23-57, Cl. 32-71.
- Biginelli, Oreste. Die shaping device. 2,812,059, 11-5-57, Cl. 207-6.
- Bigos, Aloise A. Opening and pouring device for cans. 2,796,199, 6-18-57, Cl. 222-81.
- Bihaly, Lajos, to Trubenised Co. (Registered Trust). Sewing machines. 2,796,034, 6-18-57, Cl. 112-204.
- Bihaly, Lajos, to Laminex Co. Method of making a multi-plied one-piece collar. 2,811,121, 10-29-57, Cl. 112-2.
- Bikales, Norbert M., to American Cyanamid Co. Preparation of monomeric acrylamide. 2,798,887, 7-9-57, Cl. 260-561.
- Bikerman, Jacob J., to Yardney International Corp. Electrode for electric batteries. 2,810,008, 10-15-57, Cl. 136-125.
- Bilane, Roland B., to Johnson & Johnson. Strip feeding device. 2,804,300, 8-27-57, Cl. 271-2.3.

- Bilde, Tord E. D.: *See*—
Hultberg, Rolf B. J., and Bilde. 2,794,513.
- Bilder, Arthur K. Flying toy. 2,810,985, 10-29-57, Cl. 46—76.
- Bilderback, Laverne W., to ACF Industries, Inc. Fitting closure. 2,785,829, 3-19-57, Cl. 220—40.
- Bilecki, John. Shin guard. 2,817,841, 12-31-57, Cl. 2—22.
- Bilgri, Emanuel. Air conditioning window mounting device. 2,810,336, 10-22-57, Cl. 98—94.
- Bilgri, Emanuel, and A. U. Zimmermann. Air conditioning unit. 2,810,273, 10-22-57, Cl. 62—129.
- Bill, Hugo, $\frac{1}{2}$ to E. Benninger. Apparatus for impregnating a liquid with a gas. 2,778,618, 1-22-57, Cl. 261—19.
- Bill, John C., to United States Rubber Co. N,n-bis-(hydroxydialkyl-benzyl)-alkylamines as rubber antioxidants. 2,802,810, 8-13-57, Cl. 260—45.9.
- Billante, Charles A., and W. K. Reed, to Square D Co. Direct current motor and brake control system. 2,804,585, 8-27-57, Cl. 318—371.
- Billarant, Jean: *See*—
Ferry, Roger. 2,804,517.
- Billeb, Clyde K., to Milprint, Inc. Art of producing lip-type bags. 2,785,609, 3-19-57, Cl. 93—18.
- Billen, Peter, to Schloemann Aktiengesellschaft. Semiconducting operating electrode presses. 2,783,499, 3-5-57, Cl. 18—12.
- Billen, Peter, to Schloemann Aktiengesellschaft. Extrusion press closure. 2,805,445, 9-10-57, Cl. 18—12.
- Billen, Peter, and W. Dicks, to Schloemann Aktiengesellschaft. Tube testing presses. 2,805,569, 9-10-57, Cl. 73—49.5.
- Billeter, Henry K., to Amcco Tools, Inc. Cylinder surfacing tool. 2,812,624, 11-12-57, Cl. 51—184.2.
- Billeter, Henry K., and W. P. Kushmuk, to Amcco Tools, Inc. Rotatable hone. 2,777,259, 1-15-57, Cl. 51—184.3.
- Billet, Harry B., to General Electric Co. Cosine correcting cover for photoelectric cell. 2,813,982, 11-19-57, Cl. 250—220.
- Billey, Leino H., to Donaldson Co., Inc. Silencer. 2,809,709, 10-15-57, Cl. 181—54.
- Billhimer, Emil A.: *See*—
Comer, Curtis G., and Billhimer. 2,817,022.
- Billi, Giorgio. Circular machinery for manufacture of smooth mesh and net mesh stockings. 2,810,277, 10-22-57, Cl. 66—50.
- Billing, Joseph, and C. Bostock, to British Celanese Ltd. Preparation of highly polymeric material in a form suitable for transport. 2,779,974, 2-5-57, Cl. 18—47.5.
- Billing, Wylly M., to Hercules Powder Co. Esterification of aromatic carboxylic acids. 2,813,891, 11-19-57, Cl. 260—47.5.
- Billings, Clayton H.: *See*—
Johns, Glover, and Billings. 2,805,923.
- Billingsley, George A., Jr.: *See*—
Barry, John F., Squier, and Billingsley. 2,789,741.
- Billingsley, Lowell E. Mud and sand separator for well drilling. 2,793,758, 5-28-57, Cl. 210—512.
- Billingsley, Lowell E. 12 $\frac{1}{2}$ % to W. L. Moy and 12 $\frac{1}{2}$ % to M. Moy. Fifth wheel control for semi-trailers. 2,804,314, 8-27-57, Cl. 280—432.
- Billington, Douglas S.: *See*—
Stauss, Henry E., Martin, and Billington. 2,782,633.
- Billington, Evans R.: *See*—
Poethig, Robert E., and Billington. 2,813,402.
- Billman, Louis S., to the United States of America as represented by the Secretary of the Navy. Fuel injection system for ramjet aircraft. 2,812,978, 11-12-57, Cl. 299—107.1.
- Billmeyer, Allen K., to the United States of America as represented by the Secretary of the Navy. Device for indicating the position of non-buoyant objects. 2,775,951, 1-1-57, Cl. 116—124.
- Billner, Karl P., to Vacuum Concrete, Inc. Handling apparatus. 2,783,078, 2-26-57, Cl. 294—65.
- Billon, Jeanne C. A. P.: *See*—
Billon, Marcel. 2,790,387.
- Billon, Marcel, deceased; M. J. C. Billon, minor, sole heir, J. C. A. P. Billon, guardian, to Compagnie Generale pour l'Equipeement Aeronautique. Vehicle operated hydraulic device. 2,790,387, 4-30-57, Cl. 102—8.
- Billon, Michel J. C.: *See*—
Billon, Marcel. 2,790,387.
- Bills, Anita W., and D. S. Clark. Doll for selectively exhibiting symptoms of sickness. 2,781,611, 2-19-57, Cl. 46—135.
- Bills, John L., to Union Oil Co. of California. Production of acetylene. 2,816,942, 12-17-57, Cl. 260—679.
- Bills, John L., and W. L. Stanley, to Union Oil Co. of California. Xylene oxidation process. 2,788,367, 4-9-57, Cl. 260—524.
- Billson, John A.: *See*—
Reynolds, Kenneth W., Billson, and Rausch. 2,788,157.
- Billstrom, Victor J., to Fletcher Aviation Corp. Clamping device. 2,776,853, 1-8-57, Cl. 292—256.
- Billstrom, Victor J., to Fletcher Aviation Corp. Automatic clamping device. 2,776,854, 1-8-57, Cl. 292—256.
- Billups, W. L.: *See*—
Carruth, Walter T. 2,810,920.
- Bilous, Zacharias: *See*—
Mongiello, Angelo A., and Bilous. 2,803,878.
- Bilster, Halsey R.: *See*—
Georgen, Wendell L., Bilster, and Yrigoyen. 2,782,470.
- Bilster, Halsey R., to International Harvester Co. Shell mold. 2,806,268, 9-17-57, Cl. 22—130.
- Bily, Peter J., to Chiksan Co. Sealed swivel joint. 2,789,843, 4-23-57, Cl. 285—276.
- Bily, Peter J., to Chiksan Co. Fluid handling swivel for calender rolls, or the like and seals therefor. 2,794,659, 6-4-57, Cl. 285—134.
- Binder, Adolf, and H.-R. Hirsbrunner, to J. R. Geigy A.-G. Process for dyeing wool with complex heavy metal monoazo and azo methine dyestuffs. 2,817,575, 12-24-57, Cl. 8—43.
- Binder, George G., Jr.: *See*—
West, Robert C., Binder, and Freeman. 2,812,160.
- Binder, George G., Jr., and L. H. Jenks, to Esso Research and Engineering Co. Secondary recovery process. 2,798,556, 7-9-57, Cl. 166—9.
- Binder, Regis C., to Armco Steel Corp. Apparatus for aligning rigid strip material. 2,788,969, 4-16-57, Cl. 271—2.6.
- Binder, Richard, to Firma Fichtel & Sachs A. G. Automatic centrifugal clutch. 2,799,376, 7-16-57, Cl. 192—105.
- Binder, Richard, to Fichtel & Sachs A. G. Automatic clutch control system. 2,800,208, 7-23-57, Cl. 192—3.5.
- Binder, Richard L., to Fichtel & Sachs A. G. Friction disk clutch connection. 2,801,723, 8-6-57, Cl. 192—99.
- Binder, Richard, to Firma Fichtel & Sachs A. G. Sealing arrangement for telescopic shock absorbers. 2,808,277, 10-1-57, Cl. 286—26.
- Binder, Richard, to Firma Fichtel & Sachs A. G. Switch for actuating an electrically operable clutch of a vehicle or the like. 2,813,942, 11-19-57, Cl. 200—61.54.
- Binder, Richard, to Firma Fichtel & Sachs A. G. Clutch arrangement. 2,815,839, 12-10-57, Cl. 192—99.
- Binder, William O., to Union Carbide and Carbon Corp. Corrosion resistant alloys. 2,777,766, 1-15-57, Cl. 75—134.
- Binder, William O., and C. R. Bishop, to Union Carbide and Carbon Corp. Nickel-base alloys. 2,794,734, 6-4-57, Cl. 75—170.
- Binding, Kenneth W., to Market Forge Co. Article carrier attachment. 2,782,972, 2-26-57, Cl. 224—42.1.
- Binding, Kenneth W., and H. N. Shaw, to Market Forge Co. Time controlled apparatus with electro-mechanical relay. 2,810,811, 10-22-57, Cl. 219—20.
- Bindler, Jakob: *See*—
Schläpfer, Hans, and Bindler. 2,802,868.
- Bindler, Jakob, to J. R. Geigy A. G. Basic polyglycol ethers. 2,790,003, 4-23-57, Cl. 260—584.
- Binette, Thomas J., to F. H. Wiessner Inc. Can closing machine. 2,811,125, 10-29-57, Cl. 113—18.
- Binford, Benjamin L. Flow responsive device. 2,776,567, 1-8-57, Cl. 73—208.
- Binford, Benjamin L., to Magnetrol, Inc. Tank control. 2,777,045, 1-8-57, Cl. 219—38.
- Binford, Benjamin L., to Magnetrol, Inc. Float operated device. 2,784,273, 3-5-57, Cl. 200—84.
- Binford, Robert S.: *See*—
Jacobson, John W., and Binford. 2,796,879.
- Binford, Robert S., and J. W. Jacobson, to General Electric Co. Liquid flow control valve system. 2,781,049, 2-12-57, Cl. 137—108.
- Bing, Herbert A., and J. E. Hunter, Jr., to Polaroid Corp. Photoflash unit. 2,812,420, 11-5-57, Cl. 240—1.3.
- Bingenheimer, Charles: *See*—
Deaton, Forrest E., and Bingenheimer. 2,790,314.
- Bingenheimer, Melvin, and E. J. Walker, to Westinghouse Electric Corp. Circuit breaker. 2,813,167, 11-12-57, Cl. 200—88.
- Bingham, Chester A., and T. Aksamit. Floor drain cover. 2,803,348, 8-20-57, Cl. 210—498.
- Bingham-Herbrand Corp. The: *See*—
Buchanan, Hugh. 2,811,866.
Hinsey, Robert S. 2,805,584.
Hinsey, Robert S. 2,811,869.
- Bingham, Sidney H. Emergency exit window structure. 2,793,722, 5-28-57, Cl. 189—64.
- Binkley, George W., to Esso Research and Engineering Co. Apparatus for preventing lost circulation in well drilling operations. 2,796,134, 6-18-57, Cl. 166—207.
- Binkley, George W., to Esso Research and Engineering Co. Method for cementing wells. 2,806,530, 9-17-57, Cl. 166—29.
- Binkley, Mark E., to Johns-Manville Corp. Thermal insulating shape and method of manufacture. 2,793,131, 5-21-57, Cl. 106—121.
- Binkley, Raymond G., to Permaplate Corp. Protective coating composition containing vinyl resin and metal and method of making the composition. 2,792,376, 5-14-57, Cl. 260—32.8.
- Binks Mfg. Co.: *See*—
Utterback, Martin. 2,802,446.
- Binns, Douglas W. Oven construction for gas or electric ranges. 2,796,060, 6-18-57, Cl. 126—273.
- Binon, Fernand A. G.: *See*—
Dechamps, Georges J. L., and Binon. 2,812,351.
- Bintz, Carl and E. S. Hand loom. 2,797,710, 7-2-57, Cl. 139—33.
- Bintz, Elizabeth S.: *See*—
Bintz, Carl and E. S. 2,797,710.
- Biondi, Manfred A., to Westinghouse Electric Corp. Radar transmit receive switch. 2,799,804, 7-16-57, Cl. 315—41.
- Biondillo, Anthony S., and E. Jacobs. Duplex garment hangers. 2,804,245, 8-27-57, Cl. 223—90.
- Birbiglia, James A., G. O. Chase, and J. Galender, to Hoffmann-La Roche Inc. Tertiary carbonyl esters and their preparation. 2,797,234, 6-25-57, Cl. 260—488.

- Birbiglia, James A., G. O. Chase, and J. Galender, to Hoffmann-La Roche Inc. Tertiary esters and preparation thereof. 2,797,235, 6-25-57, Cl. 260-488.
- Birbiglia, James A., G. O. Chase, and J. Galender, to Hoffmann-La Roche Inc. Lower alkanolate esters of 3-methyl-6-cyclohexylidene-1-hexen-3-ol and the corresponding 1-hexyn analog. 2,797,236, 6-25-57, Cl. 260-488.
- Birbiglia, James A., G. O. Chase, and J. Galender, to Hoffmann-La Roche Inc. Lower alkanolic acid esters of 3,7,9-trimethyl-6-decen-1-yn-3-ol. 2,797,237, 6-25-57, Cl. 260-488.
- Birch, Beaumont, Co.: See—
- Pursell, Harold R., and Owens. 2,818,305.
- Birch, Charles K., to Lehigh Valley Coal Sales Co. Ash removal apparatus. 2,780,187, 2-5-57, Cl. 110-165.
- Birch, Herbert M., and D. H. Gattone. Means for administering medication orally into the respiratory organs. 2,788,784, 4-16-57, Cl. 128-201.
- Birch, Milo P. Disc harrow transport. 2,815,141, 12-3-57, Cl. 214-375.
- Birch, Raymond E.: See—
- McCreight, Donald O., and Birch. 2,805,167.
- Birch, Robert A. Gum massage device. 2,818,061, 12-31-57, Cl. 128-62.
- Birchall, Thomas D., to G. W. Hume Co. Method and apparatus for sorting cans and the like. 2,817,438, 12-24-57, Cl. 209-111.
- Birchill, Joseph, and J. Selna, to Northrop Aircraft, Inc. Wing leading edge device. 2,802,630, 8-13-57, Cl. 244-91.
- Birchler, Robert O., to Western Electric Co., Inc. Device for selectively feeding tapes. 2,802,665, 8-13-57, Cl. 271-2.5.
- Birchler, Robert O., to Western Electric Co., Inc. Apparatus for selectively forming and welding contacts onto relay parts. 2,809,271, 10-8-57, Cl. 219-79.
- Birchler, Robert O., and A. J. Fedor, to Western Electric Co., Inc. Device for feeding articles. 2,776,781, 1-8-57, Cl. 221-173.
- Birchler, Robert O., and E. W. Larsen, to Western Electric Co., Inc. Apparatus for profiling articles. 2,790,359, 4-30-57, Cl. 90-13.
- Birchler, Robert O., A. L. Quinlan, and R. F. Schalk, to Western Electric Co., Inc. Welding apparatus. 2,801,327, 7-30-57, Cl. 219-78.
- Birchler, Robert O., and A. L. Quinlan, to Western Electric Co., Inc. Apparatus for percussively welding contacts onto an article. 2,807,707, 9-24-57, Cl. 219-95.
- Birchler, Robert O., and R. F. Schalk, to Western Electric Co., Inc. Apparatus for selectively forming and welding contacts onto wire spring relay parts. 2,809,272, 10-8-57, Cl. 219-79.
- Birchler, Robert O., and O. M. Nielsen, to Western Electric Co., Inc. Apparatus for winding coils on spools. 2,815,905, 12-10-57, Cl. 242-46.2.
- Birck, William F. Detachable carrying handle. 2,802,253, 8-13-57, Cl. 27-27.
- Bird, Benjamin M. Animal trap. 2,793,464, 5-28-57, Cl. 43-61.
- Bird Electronic Corp.: See—
- Bird, James R. 2,793,352.
- Bird, James R., and Boles. 2,814,776.
- Bird, George M. Chair slat assembly. 2,798,537, 7-9-57, Cl. 155-178.
- Bird, Harold L., Jr., W. M. Stark, and F. R. Van Abele, to Eli Lilly and Co. Erythromycin B and process for production thereof. 2,806,024, 9-10-57, Cl. 260-210.
- Bird, James R., to Bird Electronic Corp. Connector for electrical transmission lines. 2,793,352, 5-21-57, Cl. 339-177.
- Bird, James R., and L. H. Boles, to Bird Electronic Corp. Absorption milliwattmeter with voltage divider. 2,814,776, 11-26-57, Cl. 324-95.
- Bird, John C., to American Cyanamid Co. Sprayable amorphous antibiotic composition, pressurized container with same, and method of preparing. 2,782,975, 2-26-57, Cl. 226-100.
- Bird, John C., and F. S. Markham, to American Cyanamid Co. Inhalable live virus veterinary vaccine. 2,798,836, 7-9-57, Cl. 167-78.
- Bird, John R., to the United States of America as represented by the Secretary of the Army. Feeding mechanism for a firearm. 2,790,353, 4-30-57, Cl. 89-1.7.
- Bird, Lester F., to Hanovia Chemical & Mfg. Co. Gauge for glass tubing. 2,792,635, 5-21-57, Cl. 33-178.
- Bird & Son, Inc.: See—
- Crawford, Earl A. 2,809,582.
- Bird, Walter W.: See—
- Dye, Edward R., and Bird. 2,817,423.
- Birds, Jack P., to General Foods Corp. Method of citrus oil production. 2,776,278, 1-1-57, Cl. 260-236.6.
- Birdsall, Charles K.: See—
- Brewer, George R., Johnson, and Birdsall. 2,811,663.
- Haefl, Andrew V., and Birdsall. 2,793,315.
- Birdsall, Charles K., to Hughes Aircraft Co. Microwave tube. 2,811,641, 10-29-57, Cl. 250-36.
- Birdsall, Charles K., to Hughes Aircraft Co. Brillouin flow electron gun. 2,817,035, 12-17-57, Cl. 313-85.
- Birdsboro Steel Foundry and Machine Co.: See—
- Peterson, Edward T. 2,777,343.
- Peterson, Edward C. 2,808,104.
- Biribauer, Frank A.: See—
- Arundale, Erving, Serniuk, and Biribauer. 2,786,878.
- Birk, Paul M., to the United States of America as represented by the Secretary of the Army. Axis converter. 2,817,147, 12-24-57, Cl. 33-46.
- Birkemeier, Henry P., to Bell & Gossett Co. Apparatus for preventing overheating of a hot water boiler. 2,806,455, 9-17-57, Cl. 122-504.
- Birkenes, Bernhard, to Motorola, Inc. Frequency selective transistor amplifier. 2,790,856, 4-30-57, Cl. 179-171.
- Birkenmeyer, Robert D., to The Upjohn Co. 1-phenyl- and 1-(p-chlorophenyl)-1-(2-pyridyl)-3-dimethylaminopropane N-oxides. 2,785,171, 3-12-57, Cl. 260-296.
- Birkigt, Louis, to "Hispano Suiza (Suisse)," S. A. Spindle centering device. 2,788,633, 4-16-57, Cl. 57-102.
- Birkigt, Marc, to "Brevets Aero-Mecaniques," S. A. Automatic loading firearms having a breech block temporarily held in locked position by a sliding system. 2,788,715, 4-16-57, Cl. 89-190.
- Birkner, Hugo E., Jr., to Sta-Warm Electric Co. Treating tank for thermoplastic materials and the like. 2,778,922, 1-22-57, Cl. 219-44.
- Birkness, Harold A.: See—
- Crowley, Michael S., Birkness, and Wygant. 2,792,152.
- Tisinal, George F., Birkness, and Krebs. 2,816,751.
- Birle & Co. K. G.: See—
- Volk, Fritz. 2,812,209.
- Birman, Antoine: See—
- Hulot, Georges, and Birman. 2,782,093.
- Birmann, Rudolph. Turbines. 2,783,965, 3-5-57, Cl. 253-39.15.
- Birmingham, Henry P., to the United States of America as represented by the Secretary of the Navy. Radar tracking demonstrating and training instrument. 2,777,214, 1-15-57, Cl. 35-10.4.
- Birmingham, Henry P., to the United States of America as represented by the Secretary of the Navy. Differential amplifier in a radar tracking demonstrating and training instrument. 2,791,643, 5-7-57, Cl. 179-171.
- Birmingham Paper Co.: See—
- Osteen, Belmont D. 2,777,629.
- Osteen, Belmont D. 2,788,168.
- Birmingham Small Arms Co. Ltd., The: See—
- Perry, Claude A., and Wackrow. 2,775,837.
- Birmingham Sound Reproducers Ltd.: See—
- Guest, Lawrence V. 2,794,647.
- Biro, Geza. Hold down clamp. 2,796,899, 6-25-57, Cl. 144-290.
- Biro, Ladislao J. Clinical thermographs. 2,776,569, 1-8-57, Cl. 73-343.
- Biro, Ladislao J. Production of thermosetting resin complex. 2,813,071, 11-12-57, Cl. 204-158.
- Biro, Ladislao J. Process for preparing thermo-setting resins. 2,813,072, 11-12-57, Cl. 204-158.
- Biro, Louis: See—
- Donnelly, John H., and Biro. 2,799,954.
- Biro Mfg. Co., The: See—
- Biro, Vincent G. 2,779,369.
- Biro, René. Apparatus for extinguishing fires. 2,781,855, 2-19-57, Cl. 169-25.
- Biro, Vincent G., to The Biro Mfg. Co. Food grinder guard. 2,779,369, 1-29-57, Cl. 146-182.
- Birrell, Kirk E., and C. B. Keane, to the United States of America as represented by the Secretary of the Army. Thread lead checking attachment for optical comparators. 2,794,262, 6-4-57, Cl. 33-199.
- Birse, John W., to Owens Brush Co. Indicia bearing brush handle. 2,814,818, 12-3-57, Cl. 15-143.
- Birsten, Oscar G.: See—
- Hardy, William B., and Birsten. 2,799,682.
- Birther Corp., The: See—
- August, William. 2,808,833.
- Birtman Electric Co.: See—
- Hall, Emery L., and Pratt. 2,794,163.
- Horne, Kenneth K. 2,794,139.
- Kuhagen, Fred W., and Miller. 2,798,696.
- More, Philip J. 2,779,964.
- Birum, Gail H., to Monsanto Chemical Co. N-ethylene trichloromethyl sulfenamide. 2,809,912, 10-15-57, Cl. 167-33.
- Birum, Gail H., to Monsanto Chemical Co. Hexaalkyl (ethyl-eneimino thiomethylidene) triphosphonate. 2,813,819, 11-19-57, Cl. 167-33.
- Birum, Gail H., to Monsanto Chemical Co. Alkyl phosphite esters of perchloromethyl mercaptan and insecticidal compositions comprising the same. 2,818,364, 12-31-57, Cl. 167-22.
- Birum, Gail H., to Monsanto Chemical Co. Method of controlling nematodes employing haloalkyl phosphonic dihalides. 2,818,366, 12-31-57, Cl. 167-22.
- Birum, Herbert L., Jr.: See—
- Hammit, Andrew B., and Birum. 2,808,136.
- Bischoff, Alfred F., to General Electric Co. Recording device. 2,794,954, 6-4-57, Cl. 324-79.
- Bischoff & Klein: See—
- Lührmann, Fritz, and Klein. 2,799,443.
- Bischoff, Waldemar O., to American Bosch Arma Corp. Fuel injection pump. 2,813,523, 11-19-57, Cl. 123-139.
- Biser, Jesse L., to The Roto Ink Corp. Process for producing printing inks. 2,776,895, 1-8-57, Cl. 106-30.
- Bish, Harvey E. Corn picker and sheller conversion unit for combine. 2,787,106, 4-2-57, Cl. 56-18.

- Bish, Ronald E.: *See*—
Ernst, Wentworth A., Karnavas, and Bish. 2,808,630.
- Bishaf, Morris, to Stein Bros. Mfg. Co. Rescue ax. 2,798,292, 7-9-57, Cl. 30—318.
- Bishaf, Morris, to Stein Bros. Mfg. Co. Buckle structure. 2,803,864, 8-27-57, Cl. 24—75.
- Bishaf, Morris, to Stein Bros. Mfg. Co. Rescue knife. 2,805,476, 9-10-57, Cl. 30—317.
- Bishman Mfg. Co.: *See*—
Bishman, Walter A. 2,794,666.
- Bishman, Walter A., to Bishman Mfg. Co. Battery carrier. 2,794,666, 6-4-57, Cl. 294—16.
- Bishofberger, Carl J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,801,825, 8-6-57, Cl. 257—3.
- Bishoff, August C. Combined pipe rack and ash receiver. 2,786,475, 3-26-57, Cl. 131—240.
- Bishop, Alfred E.: *See*—
Novak, Leo J., and Bishop. 2,808,405.
- Bishop, Alfred E., to The Commonwealth Engineering Co. of Ohio. Plasticized benzyl dextran and filament formed therefrom. 2,789,915, 4-23-57, Cl. 106—162.
- Bishop & Babcock Mfg. Co., The: *See*—
Mayo, Edward L. 2,786,633.
- Bishop David Freeman Co.: *See*—
Miller, James E. 2,799,101.
- Bishop, Claude R.: *See*—
Binder, William O., and Bishop. 2,794,734.
- Bishop, Francis H. Rolling toy. 2,811,812, 11-5-57, Cl. 46—220.
- Bishop, Homer L., 65.4% to said H. L. Bishop and E. E. Stansell, jointly; 32.6% to C. Patton, and 2% to R. H. Daugherty. Apparatus for casting electrotypes. 2,782,474, 2-26-57, Cl. 22—58.
- Bishop, Homer L., to Patton Mfg. Co., Inc. Apparatus for and method of producing curved electrotypes. 2,814,089, 11-26-57, Cl. 29—21.
- Bishop, Homer S., to Kasle Steel Corp. Flangeway bar guard block. 2,789,771, 4-23-57, Cl. 238—9.
- Bishop, Ivan R. Panel sheet turner. 2,798,619, 7-9-57, Cl. 214—1.
- Bishop, Jerome H., Jr., to Western Lithograph Co. Card of individually removable markers. 2,797,801, 7-2-57, Cl. 206—56.
- Bishop, John E., to E. I. du Pont de Nemours and Co. Lead chromate pigment compositions. 2,813,039, 11-12-57, Cl. 106—298.
- Bishop, John F., and W. O. Fritz, to Beckman Instruments, Inc. Electrical panel structure. 2,802,189, 8-6-57, Cl. 339—18.
- Bishop, John W., to Tidewater Oil Co. Addition products of propenoic acid amides and acidic, phosphorus- and sulfur-containing products. 2,806,846, 9-17-57, Cl. 260—125.
- Bishop, Leonard J., to Mechanical Handling Systems, Inc. Apparatus for producing molded products. 2,806,252, 9-17-57, Cl. 18—26.
- Bishop, Lewis L. Chicken feed hopper. 2,789,535, 4-23-57, Cl. 119—52.
- Bishop, Percy P. Convertible table-easel assembly. 2,795,891, 6-18-57, Cl. 45—131.
- Bishop, Ray H., and R. F. Hoopes, Sr. Trays. 2,801,766, 8-6-57, Cl. 220—84.
- Bishop, Robert I.: *See*—
Bosomworth, George P., and Bishop. 2,779,848.
- Bishop, Robert P., G. Bruck, P. Painter, Jr., and G. S. Shaw, to Radiation, Inc. Recorders. 2,796,314, 6-18-57, Cl. 346—33.
- Bishon, Ronald L., and R. W. Mahland, to American Bosch Arms Corp. Gyroscopic instruments. 2,810,291, 10-22-57, Cl. 74—5.4.
- Bishop, Thomas D., to Deritend Engineering Co. Ltd. Mechanism for feeding cardboard or the like from a pile or stack. 2,806,696, 9-17-57, Cl. 271—32.
- Bishop, Vernon L. Fence post installing tool. 2,811,333, 10-29-57, Cl. 254—1.
- Bishop, William H.: *See*—
Perks, Joseph, and Bishop. 2,810,334.
- Biskeborn, Merle C., to Bell Telephone Laboratories, Inc. Methods of and apparatus for measuring the capacitance of an insulated wire. 2,804,592, 8-27-57, Cl. 324—61.
- Bissell Carpet Sweeper Co.: *See*—
Williams, Donald E., Hertzler, and Lathrop. 2,793,378.
- Bissell, Don W., to Allied Chemical & Dye Corp. Process of coppering disazo dyestuffs. 2,817,656, 12-24-57, Cl. 260—148.
- Bissinger, William E., to Columbia-Southern Chemical Corp. Chlorophenoxyalkyl esters of N-phenylcarbamic acids. 2,789,129, 4-16-57, Cl. 260—471.
- Bissitt, Forrest J. Paper picker. 2,794,667, 6-4-57, Cl. 294—50.7.
- Bissonette, Alfred J., to The Baldwin Piano Co. Tone generator system. Re. 24,379, 10-22-57, Cl. 250—36.
- Bissonette, Alfred J., and D. W. Elbrecht, to The Baldwin Piano Co. Tone color assembly for electric organs. 2,785,238, 3-12-57, Cl. 200—5.
- Bisterfeld, Karl A.: *See*—
Bitter, Franz H., and Bisterfeld. 2,805,352.
- Bisterfeld & Stotling: *See*—
Osenberg, Werner. 2,812,626.
- Bistline, Raymond G., Jr.: *See*—
Weil, James K., Bistline, and Stirton. 2,806,044.
- Biswell, Charles B., to E. I. du Pont de Nemours and Co. Fuel oil compositions. 2,805,925, 9-10-57, Cl. 44—62.
- Bittle, Arthur A. Warning device for brake systems. 2,786,110, 3-19-57, Cl. 200—84.
- Bitney, Dewey H., to Union Steel Products Co. Materials handling pallet. 2,781,936, 2-19-57, Cl. 220—6.
- Bitter, Franz H., and K. A. Bisterfeld, to North American Philips Co., Inc. Cathode-ray tube for tuning indication. 2,805,352, 9-3-57, Cl. 313—107.5.
- Bitter, Hermann. Artificial tooth with metal anchorage. 2,778,111, 1-22-57, Cl. 32—10.
- Bittinger, Raymond E., and C. C. Nelson, to Esso Research and Engineering Co. Combination crude distillation and oil refining process. 2,777,801, 1-15-57, Cl. 196—49.
- Bituminous Coal Research, Inc.: *See*—
Kaiser, Elmer R., and Garvey. 2,781,039.
- Von Stroh, Gerald F. H., and Thomas. 2,805,760.
- Von Stroh, Gerald F. H., and Thomas. 2,805,761.
- Yellott, John I. 2,805,896.
- Yellott, John I. 2,805,897.
- Yellott, John I., and Broadley. 2,804,171.
- Yellott, John I., and Broadley. 2,812,828.
- Bitz, John O., and S. G. Seltz. Antenna mast installation tool. 2,776,162, 1-1-57, Cl. 294—23.
- Bitzer, Gottlob, to Textile Machine Works. Sinkers-head structure for knitting machines. 2,815,652, 12-10-57, Cl. 66—98.
- Bitzer, Martin: *See*—
Oishei, John R., Bitzer, and Seinta. 2,802,232.
- Oishei, John R., and Bitzer. 2,811,735.
- Bitzer, Martin, to Trico Products Corp. Windshield washer system. 2,784,031, 3-5-57, Cl. 299—58.
- Bitzer, Martin, to Trico Products Corp. Windshield wiper motor valve. 2,803,225, 8-20-57, Cl. 121—97.
- Bitzer, Martin, to Trico Products Corp. Windshield wiper arrangement. 2,811,952, 11-5-57, Cl. 121—97.
- Bivans, Ira. Paper stack gauge. 2,799,939, 7-23-57, Cl. 33—143.
- Bivens, Maurice E., to General Electric Co. Sequence and timing control system. 2,793,329, 5-21-57, Cl. 317—142.
- Bixby, Leo A., to Rockwell Spring and Axle Co. Combine drive. 2,791,912, 5-14-57, Cl. 74—344.
- Bixby, Leo A., to Rockwell Spring and Axle Co. Joint. 2,807,486, 9-24-57, Cl. 287—90.
- Bixby, Leo A., to Rockwell Spring and Axle Co. Synchronizer. 2,814,373, 11-26-57, Cl. 192—53.
- Bixby, Richard H. Foldable barricade and sign. 2,793,453, 5-28-57, Cl. 40—125.
- Bixby, Walter, to Shawmut Engineering Co. Tufting yarn spool bearing and assembly. 2,781,986, 2-19-57, Cl. 242—123.
- Bixler, George, and E. V. Hannie. Pivotal type vehicle cab door. 2,793,069, 5-21-57, Cl. 296—44.
- Bixler, Harley H., to General Electric Co. Two-temperature refrigerator with single evaporator. 2,801,525, 8-6-57, Cl. 62—4.
- Bize, René, to "Le Pesage Automatique." Automatic weighing systems. 2,790,549, 4-30-57, Cl. 209—121.
- Bjong, Leo V., and C. F. Schafer, to Bendix Aviation Corp. Test apparatus. 2,804,594, 8-27-57, Cl. 324—158.
- Björck, Erik: *See*—
Sjörkvist, Eric, and Björck. 2,798,175.
- Bjork, Albin A. Safety bicycle light. 2,811,633, 10-29-57, Cl. 240—7.5.
- Björk, Bengt A., to Haldex Aktiebolag. Magnet coupling. 2,804,184, 8-27-57, Cl. 192—45.
- Björkman, Simon J., to Siemens & Halske Aktiengesellschaft. Pulse-code modulation. 2,787,764, 4-2-57, Cl. 332—11.
- Bjorksten, Johan. Solar still. 2,788,316, 4-9-57, Cl. 202—234.
- Bjorksten, Johan. Pelagic solar still and method for supporting plant growth. 2,807,912, 10-1-57, Cl. 47—58.
- Bjorksten, Johan. Solar still. 2,813,063, 11-12-57, Cl. 202—234.
- Bjorksten, Johan. Pipelaying method. 2,816,322, 12-17-57, Cl. 18—47.5.
- Bjorksten, Johan, S. O. Fiedler, and L. L. Yaeger, to American Motors Corp. Acrylic resins bonded to polystyrene. 2,801,936, 8-6-57, Cl. 117—138.8.
- Bjorksten, Johan A. Apparatus for making fiber articles. 2,789,199, 4-16-57, Cl. 219—29.
- Bjorksten Research Laboratories, Inc.: *See*—
Eisen, John B. 2,805,274.
- Henning, James E. 2,778,758.
- Henning, James E. 2,816,357.
- Koblitz, Francis F. 2,787,568.
- Lappala, Risto P. 2,816,415.
- Rohowetz, Stanley. 2,793,478.
- Sayre, Kenneth L. 2,785,085.
- Thomas, Frederick L., and Koblitz. 2,778,793.
- Yaeger, Luther L. 2,789,932.
- Bjornson, Bjorn G., to Bell Telephone Laboratories, Inc. Lockout circuit. 2,794,121, 5-28-57, Cl. 250—27.
- Blachly, Clark. Apparatus for handling and lowering burial caskets. 2,781,571, 2-19-57, Cl. 27—32.
- Blachut, Theodore J., and C. J. van der Hoeven, to National Research Council. Manually operable apparatus for steering an object. 2,797,579, 7-2-57, Cl. 74—1.
- Black, Bruce H. Chuck for threading nipples. 2,788,980, 4-16-57, Cl. 279—7.
- Black, Charles A. Bottle holder. 2,791,392, 5-7-57, Cl. 248—293.

- Black-Clawson Co., The: See—
 Marcinesin, John A. 2,787,427.
 Phelps, Richard W. 2,776,802.
 Wisner, Isle R., Corbin, and Walden. 2,799,209.
- Black, Cloyd H. Bearing bushing presses. 2,807,081, 9-24-57, Cl. 29—252.
- Black & Decker Mfg. Co., The: See—
 Brucker, William S. 2,792,732.
 Brucker, William S. 2,800,751.
 Clagett, Royal L. 2,790,101.
 Short, Harold O. 2,800,752.
 Wilhide, Charles W. 2,790,468.
- Black, Donald M., and H. H. Hoffman, to Bell Telephone Laboratories, Inc. Amplifiers having mismatched inter-stage networks. 2,794,865, 6-4-57, Cl. 179—171.
- Black, Don S. Stock feeder. 2,814,271, 11-26-57, Cl. 119—55.
- Black, Grover M., and C. N. Bell. Locking device for gates. 2,793,893, 5-28-57, Cl. 292—76.
- Black, Harold S., to Bell Telephone Laboratories, Inc. Magnetically loaded composite conductors. 2,777,896, 1-15-57, Cl. 178—45.
- Black, Harold S., to Bell Telephone Laboratories, Inc. Composite coaxial resonator. 2,779,925, 1-29-57, Cl. 333—82.
- Black, Herbert H., to General Motors Corp. Anti-surge spring means. 2,789,550, 4-23-57, Cl. 123—39.
- Black, Herbert H., to General Motors Corp. Valve lifter. 2,797,673, 7-2-57, Cl. 123—90.
- Black, James A. Apparatus for drying coated sheet stock. 2,795,861, 6-18-57, Cl. 34—150.
- Black, James F.: See—
 Tutwiler, Thomas S., Hollyday, Black, and Ertelt. 2,803,599.
- Black, James F., and W. C. Hollyday, Jr., to Esso Research and Engineering Co. Gamma ray polymerization of unsaturated esters. 2,803,598, 8-20-57, Cl. 204—158.
- Black, James F., and A. R. Liboff, to Sylvania Electric Products Inc. Electrical converter, 2,805,380, 9-3-57, Cl. 321—45.
- Black, James G., Jr.: See—
 Rayburn, Charles C., and Black. 2,807,350.
- Black, James J., to Trailmobile, Inc. Hub construction. 2,781,231, 2-12-57, Cl. 301—105.
- Black, John T., to The Babcock & Wilcox Co. Vapor generating and superheating unit with pendent superheater platens. 2,809,616, 10-15-57, Cl. 122—478.
- Black, John W., Jr., to Pemco Wheel Co. Wheel and bearing assembly. 2,803,500, 8-20-57, Cl. 301—63.
- Black, John W., Jr., to Pemco Wheel Co. Wheel and bearing assembly. 2,818,302, 12-31-57, Cl. 301—63.
- Black, Lloyd V., to Pittsburgh Plate Glass Co. Method for bending and tempering glass. 2,805,520, 9-10-57, Cl. 49—84.
- Black, Robert B. Split cycle internal combustion engine with rotary sleeve valve. 2,799,258, 7-16-57, Cl. 123—41.
- Black, Robert H. Thread gauge. 2,782,522, 2-26-57, Cl. 33—199.
- Black, Robert H., J. G. Ross, G. H. Snodderly, S. G. Juran, and F. C. Drahman, 63% to said Black, 21% to said Ross, 8% to said Snodderly, 4% to said Juran, and 4% to said Drahman. Bowling ball return. 2,817,530, 12-24-57, Cl. 273—49.
- Black, Sivalls & Bryson, Inc.: See—
 Hayes, Charles W., and Teal. 2,786,543.
 Laurence, Lawton L. 2,801,207.
 Meynig, Robert E. 2,789,510.
 Pew, James E., and Hayes. 2,780,304.
 Worley, Marvin S., Johnson, and Keel. 2,812,827.
- Black, Theodore R., to The Concentro-Drive Co., Inc. Self-contained mechanical power transmission unit. 2,779,205, 1-29-57, Cl. 74—421.
- Black, Walter L., to The Glenn L. Martin Co. Aircraft gun turret. 2,803,170, 8-20-57, Cl. 89—37.5.
- Black, William A., to General Time Corp. Secondary clock setting mechanism. 2,796,729, 6-25-57, Cl. 58—34.
- Black, William A., and E. J. West, to General Time Corp. Speed responsive brake. 2,788,863, 4-16-57, Cl. 188—134.
- Black, William A., and E. J. West, to General Time Corp. Step positioning device. 2,804,555, 8-27-57, Cl. 310—49.
- Black, William J., to Curtiss-Wright Corp. Auto insect deflector. 2,781,227, 2-12-57, Cl. 296—91.
- Black, William T.: See—
 Kiffer, Alfred D., and Black. 2,805,235.
 Kiffer, Alfred D., and Black. 2,805,236.
 Kiffer, Alfred D., and Black. 2,805,237.
- Black, William T., and R. L. Pruett, to Union Carbide Corp. 2,4-di(hydroxymethyl)cyclopentyltriorganosilanes and process for their preparation. 2,805,238, 9-3-57, Cl. 260—448.2.
- Blackburn, Andrew R., O. M. Tucker and R. E. Steele, to Ram Inc. Plant receptacle with provision for ventilating openings. 2,810,234, 10-22-57, Cl. 47—34.
- Blackburn, Charles A., to The King Powder Co., Inc. Explosive charge handling device. 2,811,354, 10-29-57, Cl. 254—152.
- Blackburn, Charles W., to Phillips Petroleum Co. Storm fin for signs. 2,800,734, 7-30-57, Cl. 40—125.
- Blackburn, Jasper, Products Corp.: See—
 Toedtman, John A. 2,795,770.
- Blackburn, Mack O., S. E. Garber, and C. B. Wright, to General Motors Corp. Aircraft propeller blade. 2,786,538, 3-26-57, Cl. 170—159.
- Blackford, Benjamin B., to Johnson & Johnson. Method of calendaring a plastic mass. 2,795,521, 6-11-57, Cl. 154—102.
- Blackhall, James M.: See—
 Blashfield, William H., Blackhall, Oxaal, and Bergman. 2,782,257.
- Blackhawk Mfg. Co.: See—
 Southerwick, Harold I. 2,814,540.
 Stovern, Ingram V., and Kollmeyer. 2,799,993.
 Traupmann, Raymond J., and Southerwick. 2,800,376.
- Blackington, Robert C., to Lemaire Tool & Mfg. Co. Hydraulically controlled, gear operated wrench. 2,786,379, 3-26-57, Cl. 81—54.
- Blacklock, Alfred: See—
 Long, Andrew, Taylor, and Blacklock. 2,786,779.
- Blackman, Calvin C., to L. Wilson. Method of and apparatus for controlling circulation of furnace atmosphere. 2,789,808, 4-23-57, Cl. 263—40.
- Blackman, Calvin C., to L. Wilson. Furnace charge support and diffuser. 2,815,197, 12-3-57, Cl. 263—47.
- Blackman, Charles. Sweeping composition. 2,789,953, 4-23-57, Cl. 252—88.
- Blackmer, David E., to Raytheon Mfg. Co. Percussive welder control devices. 2,816,209, 12-10-57, Cl. 219—95.
- Blackman, Fred T., to Veeder-Root Inc. Counter. 2,799,740, 7-16-57, Cl. 200—14.
- Blackman, Glenn R. Seal for gate valve. 2,776,813, 1-8-57, Cl. 251—197.
- Blackman, Henry F. Grenade carrier. 2,797,034, 6-25-57, Cl. 224—26.
- Blackman, John W., and D. C. Smith. Method of marking instruments and resultant article. 2,811,040, 10-29-57, Cl. 73—371.
- Blackman, Keith, Ltd.: See—
 Tavenor, Ernest E. 2,800,915.
- Blackman, Reed J. Electric insect trap. 2,806,321, 9-17-57, Cl. 43—139.
- Blackman, Seymour N., to Omega Precision Medical Instrument Co., Inc. Hypodermic syringe. 2,813,528, 11-19-57, Cl. 128—218.
- Blackmer, David E., to Raytheon Mfg. Co. Percussive welding arc starting devices. 2,814,715, 11-26-57, Cl. 219—95.
- Blackmer Pump Co.: See—
 Brunson, Virgil A., Verburg, and Vanden Hoek. 2,804,239.
- Blackstock, Gibbs, deceased; M. E. M. Blackstock, and The Canada Permanent Trust Co., executors. Automotive transmissions. 2,790,326, 4-30-57, Cl. 74—333.
- Blackstock, Marvin L. Cotton thinning machine. 2,775,926, 1-1-57, Cl. 97—15.
- Blackstock, Mildred E. M.: See—
 Blackstock, Gibbs. 2,790,326.
- Blackstone and Co. Ltd.: See—
 Hallewell, George. 2,783,628.
- Blackstone Corp.: See—
 Oberg, Gunnard A. 2,779,182.
- Blackstone, James B. Steering means for row crop cultivators and the like. 2,811,089, 10-29-57, Cl. 97—47.02.
- Blackwell, Basil D.: See—
 Quinn, Neville R. L., Blackwell, and Scott. 2,814,512.
- Blackwood, Robert K., and N. Kornblum, to Purdue Research Foundation. Production of α -nitroesters. 2,791,604, 5-7-57, Cl. 260—471.
- Blackwood, Waves. Resilient car wheel axle assemblies. 2,784,993, 3-12-57, Cl. 295—43.
- Bladergroen, Willem F., and K. J. Perk, to Hartford National Bank and Trust Co., as trustee. Method of forming small apertures in thin metal plate-shaped articles. 2,781,849, 2-19-57, Cl. 164—125.
- Blades, James. Cover for motor vehicle pedals. 2,776,582, 1-8-57, Cl. 74—563.
- Blagden, Victor, & Co. Ltd.: See—
 Walde, Stephen S. 2,785,694.
- Blagg, Leon: See—
 Crookston, Robert R., and Blagg. 2,778,315.
- Blagg, Leon, and L. H. Robinson, Jr., to Esso Research and Engineering Co. Filtration and electrical resistivity measuring device. 2,786,977, 3-26-57, Cl. 324—30.
- Blaha, Emil. Automatic transmission. 2,787,920, 4-9-57, Cl. 74—751.
- Blaha, Emil, to Selas Corp. of America. Furnace wall gas burner. 2,806,521, 9-17-57, Cl. 158—116.
- Blaha, John F.: See—
 Begun, Semi J., Sarratt, Blaha, and Christian. 2,803,515.
- Blain, Willard E. Toilet flush valve. 2,788,526, 4-16-57, Cl. 4—57.
- Blair, Charles M.: See—
 Samuelson, Gilbert J., Stromberg, and Blair. 2,810,337.
- Blair, Donald W.: See—
 Powell, Paul B., and Blair. 2,804,689.
- Blair, Elbert L.: See—
 Stein, Frederick W., and Blair. 2,808,582.
- Blair, Frank P., $\frac{1}{2}$ to E. W. Osann, Jr., and $\frac{1}{2}$ to J. E. Dominik. Sprinkler head. 2,814,526, 11-26-57, Cl. 299—18.
- Blair, Gerhard, to Blair Thermostat Products Inc. Automatic stove. 2,785,268, 3-12-57, Cl. 219—37.
- Blair, John M.: See—
 Blair, Oda S. 2,775,972.
- Blair, Oda S., deceased; J. M. Blair, executor, to John H. Breck, Inc. Composition and process for dyeing hair. 2,775,972, 1-1-57, Cl. 132—7.

- Blair, Raymond H. J. L. Pertsch, and K. R. Scribner; said Scribner assor. to the United States of America as represented by the Secretary of the Navy. Tail fuze for ordnance missile. 2,805,623, 9-10-57, Cl. 102-81.2.
- Blair, Royer R., to Bell Telephone Laboratories, Inc. Apparatus for testing resistors. 2,815,482, 12-3-57, Cl. 324-62.
- Blair Thermostat Products Inc.: *See*—
Blair, Gerhardt. 2,785,268.
- Blair, Walter. Rotary pump and motor hydraulic transmission. 2,783,614, 3-5-57, Cl. 60-53.
- Blair, William B.: *See*—
Rosenberg, David M., and Blair. 2,801,315.
- Blair, William R. Object locating system. 2,803,819, 8-20-57, Cl. 343-11.
- Blaissie, Berndt S., to N. V. Optische Industrie "De Oude Delft." Interference-microscope. 2,777,360, 1-15-57, Cl. 88-39.
- Blaissie, Berndt S., H. W. Bulthuis, and J. Becker, to N. V. Optische Industrie "de Oude Delft." Microscope objective with two spherical reflecting surfaces. 2,785,604, 3-19-57, Cl. 88-57.
- Blake, Charles L. Cementitious material containing slate flour. 2,785,987, 3-19-57, Cl. 106-99.
- Blake, Edward S.: *See*—
Bainbridge, John P., Jr., and Blake. 2,778,749.
- Blake, Francis E.: *See*—
Elliott, George, and Blake. 2,802,902.
- Blake, Francis G., to California Research Corp. Amplifier circuit having linear and non-linear amplification ranges. 2,817,715, 12-24-57, Cl. 179-171.
- Blake, Francis G., G. A. Schurman, and P. M. Aagaard, to California Research Corp. Pressure cable construction. 2,791,757, 5-7-57, Cl. 340-7.
- Blake, Harold H., Jr. Adjustable gauge having flared jaws. 2,794,257, 6-4-57, Cl. 33-143.
- Blake, James C., E. F. Deady, and J. R. Haske, to the United States of America as represented by the Secretary of the Army. Container support for container cleaning machine. 2,811,976, 11-5-57, Cl. 134-145.
- Blake, John L. Indicator device. 2,814,124, 11-26-57, Cl. 33-172.
- Blake, Leslie R., to The British Thomson-Houston Co. Ltd. Means for electro-erosion. 2,796,509, 6-18-57, Cl. 219-69.
- Blake, Norman B. Safety bumper. 2,805,881, 9-10-57, Cl. 293-86.
- Blake, Richard F., to the United States of America as represented by the Secretary of the Navy. Pulse position decoder. 2,800,584, 7-23-57, Cl. 250-27.
- Blake, Walter E. Walking frame. 2,817,387, 12-24-57, Cl. 155-22.
- Blake, Webster: *See*—
Klemperer, Wolfgang B., and Blake. 2,796,800.
- Blakely, Jim B., and J. W. Morris. Pump plunger with elastic material wear take-up surface. 2,806,753, 9-17-57, Cl. 309-23.
- Blakely, Robert T., to International Business Machines Corp. Sorter for tape recorded data. 2,818,322, 12-31-57, Cl. 346-44.
- Blakeney, Francis M.: *See*—
Ring, Ernest A. 2,797,617.
- Blaker, Robert H., to E. I. du Pont de Nemours and Co. Otto cycle engine fuels and lubricants containing halo-hydrocarbon. 2,784,160, 3-5-57, Cl. 252-58.
- Blamey, William F., Jr., and D. N. Mullany. Game ball. 2,776,139, 1-1-57, Cl. 273-60.
- Blanc, Luis A.: *See*—
Guatelli, Pedro H., and Blanc. 2,788,819.
- Blanch, Eric A., to Kork-N-Seal Ltd. Bottle capsules. 2,806,620, 9-17-57, Cl. 215-46.
- Blanchard, Allen W.: *See*—
Karp, Harry R., and Blanchard. 2,787,696.
- Blanchard, Allen W., and D. Sabalos, to Bendix Aviation Corp. Aircraft steering control system. 2,814,452, 11-26-57, Cl. 244-50.
- Blanchard, Andre, to Borg-Warner Corp. Shaped explosive-charge perforating apparatus. 2,785,631, 3-19-57, Cl. 102-20.
- Blanchard, Andre, to Schlumberger Well Surveying Corp. Well logging method and apparatus. 2,816,009, 12-10-57, Cl. 23-230.
- Blanchard, Bernard E., and A. H. Brolin, to Northwest Engineering Corp. Gantry crane. 2,795,338, 6-11-57, Cl. 212-59.
- Blanchard, Donn C., to Stanley Building Specialties Co. Spacer for awning type window vents. 2,779,068, 1-29-57, Cl. 20-42.
- Blanchard, Donn C., to Stanley Building Specialties Co. Weatherstripping for closure devices. 2,792,088, 5-14-57, Cl. 189-65.
- Blanchard, Earle P.: *See*—
Bock, Charles D., and Blanchard. 2,785,606.
- Blanchard, Harold L.: *See*—
Robb, Walter Y., and Blanchard. 2,809,600.
- Blanchard, Kenneth O.: *See*—
Lewis, John R., and Blanchard. 2,806,009.
- Blanchard, Loring W., Jr.: *See*—
Hiatt, Gordon D., Blanchard, and Tanghe. 2,801,239.
- Malm, Carl J., and Blanchard. 2,801,238.
- Malm, Carl J., and Blanchard. 2,801,999.
- Malm, Carl J., and Blanchard. 2,816,104.
- Malm, Carl J., and Blanchard. 2,816,107.
- Malm, Carl J., Tanghe, and Blanchard. 2,790,794.
- Malm, Carl J., Tanghe, and Blanchard. 2,816,105.
- Blanchard, Werner J., J. F. Haines, T. B. Martin, and C. S. J. MacNeil (deceased), by E. M. MacNeil, administratrix, to General Motors Corp. Propeller mechanism. 2,804,155, 8-27-57, Cl. 170-160.33.
- Bland, Julius, to Standard Oil Co. Welding aluminum clad steel. 2,815,436, 12-3-57, Cl. 219-74.
- Bland, Reginald B. Control means for an indicator. 2,788,399, 4-9-57, Cl. 200-6.
- Blandhoel, Bjarne E., and K. M. Iversen, to A/S Cliche. Apparatus for deep-etching, preferably of printing plates. 2,789,491, 4-23-57, Cl. 95-73.
- Blaney, Dorothy L., to Radio Corp. of America. Magnetic volume control system. 2,797,264, 6-25-57, Cl. 179-100.2.
- Blaney, Dorothy L., to Radio Corp. of America. Magnetic compression system. 2,816,174, 12-10-57, Cl. 179-100.2.
- Blaney, Dorothy L., to Radio Corp. of America. Magnetic compression method. 2,816,175, 12-10-57, Cl. 179-100.2.
- Blank, Howard A., D. P. Moon, and A. M. Hall, to The Battelle Development Corp. High-temperature alloy. 2,780,545, 2-5-57, Cl. 75-176.
- Blank, Samuel, and F. O. Zillissen. Treatment of tobacco smoke. 2,800,908, 7-30-57, Cl. 131-208.
- Blankmeyer, Cornelius H. Adjustable harrow. 2,794,306, 6-4-57, Cl. 55-23.
- Blankenbuehler, John H.: *See*—
Hobart, Edward A., Blankenbuehler, and Schober. 2,802,981.
- Blankenship, Derwin O.: *See*—
Norquist, Victor C. 2,809,679.
- Blankenship, Doyal A.: *See*—
Miller, William B., and Blankenship. 2,789,316.
- Blankenship, Guy, Jr. Collapsible beach tent. 2,781,767, 2-19-57, Cl. 135-7.1.
- Blankenship, Marian V.: *See*—
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- Blankenship, Stanley L. Razor blade sharpener. 2,787,921, 4-9-57, Cl. 76-89.2.
- Blanks, Henry S., to Radio Corp. of America. Compact color television projecting apparatus. 2,780,134, 2-5-57, Cl. 88-24.
- Blanks, Richard H., Jr. Spring loaded feeler gauge. 2,789,356, 4-23-57, Cl. 33-168.
- Blaszczyk, Leon. Device for applying soluble fertilizer. 2,814,528, 11-26-57, Cl. 299-83.
- Blasdel, Howard C. Slidable jaw pieces for open-end wrench. 2,795,160, 6-11-57, Cl. 81-179.
- Blaser, Bruno, and G. Tischbirek, to Henkel & Cie. G. m. b. H. Preparation of sulfonated fatty-acid nitriles. 2,785,193, 3-12-57, Cl. 260-465.1.
- Blaser, Bruno, H. Haas, and J. H. Helberger, to Bohme Fettchemie G. m. b. H. Process for the production of oxyalkane sulfonic acids and their salts. 2,793,229, 5-21-57, Cl. 260-513.
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- Blaser, Robert U., to The Babcock & Wilcox Co. Vapor generator and liquid flow means therefor. 2,782,772, 2-26-57, Cl. 122-406.
- Blashfield, William H., J. M. Blackhall, A. Oxaal, and W. J. Bergman, to North Electric Co. Automatic telephone system. 2,782,257, 2-19-57, Cl. 179-7.1.
- Blashfield, William H., and B. A. Harris, to North Electric Co. Automatic telephone system. 2,800,532, 7-23-57, Cl. 179-18.
- Blashill, Arthur E. Gear box for wire fabric making machine. 2,815,674, 12-10-57, Cl. 74-368.
- Blaski, John F. Sheet metal penetrating expandible rivet. 2,797,607, 7-2-57, Cl. 85-38.
- Blaskowski, Henry J., to Combustion Engineering, Inc. Heat exchange apparatus. 2,818,236, 12-31-57, Cl. 257-220.
- Blaskowski, Henry J., A. T. Hunter, and J. H. Cruise, to Combustion Engineering, Inc. Method of heating. 2,818,049, 12-31-57, Cl. 122-476.
- Blass, Judd, to Raytheon Mfg. Co. Microwave ovens. 2,814,708, 11-26-57, Cl. 219-10.55.
- Blasterete Equipment Co., Inc.: *See*—
Ridley, Ian M. 2,801,133.
- Blatchford, George. Level indicating device. 2,814,127, 11-26-57, Cl. 33-209.
- Blatherwick, Delbert T., to Robertson Photo-Mechanix, Inc. Copyholder. 2,799,204, 7-16-57, Cl. 88-24.
- Blatt, David H., to Owens-Illinois Glass Co. Shipping container. 2,801,784, 8-6-57, Cl. 229-23.
- Blatt, Leland F., and A. E. Sherman. Toggle actuated hand clamp with release trigger. 2,783,797, 3-5-57, Cl. 144-302.
- Blatt, Paula. Maternity belt. 2,814,804, 12-3-57, Cl. 2-41.
- Blatt, Paula. Maternity girdle. 2,814,805, 12-3-57, Cl. 2-41.
- Blatt, Paula. Maternity girdle. 2,816,291, 12-17-57, Cl. 2-41.
- Blatt, Ralph E. Process for improving the palatability of soya beans. 2,789,055, 4-16-57, Cl. 99-98.

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 Blattner, Emil H., to The Symington-Gould Corp. Cushioning mechanism. 2,776,057, 1-1-57, Cl. 213-46.
 Blattner, Emil H., to The Symington-Gould Corp. Combined center filler and draft lug unit. 2,781,919, 2-19-57, Cl. 213-57.
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 Blattner, Emil H., to The Symington-Gould Corp. Package spring group. 2,793,853, 5-28-57, Cl. 267-9.
 Blattner, Emil H., to The Symington-Gould Corp. Yieldable guard arm coupler. 2,797,821, 7-2-57, Cl. 213-154.
 Blattner, Emil H., to The Symington-Gould Corp. Draft key retainer having both deformable and spring retaining means. 2,801,564, 8-6-57, Cl. 85-8.1.
 Blattner, Emil H., to The Symington-Gould Corp. Draft rigging. 2,812,072, 11-5-57, Cl. 213-12.
 Blattner, Emil H., to The Symington-Gould Corp. Adjustable coupler carrier. 2,812,074, 11-5-57, Cl. 213-61.
 Blatz, Albert V., and H. H. Needham, to A. O. Smith Corp. Container. 2,815,880, 12-10-57, Cl. 220-4.
 Blatz, Philip S., to E. I. du Pont de Nemours and Co. Coated polymeric thermoplastic dielectric film and method for producing same. 2,808,347, 10-1-57, Cl. 117-138.8.
 Blau, James B., to M. Czibere. Anti-clogging device for roof drains. 2,807,368, 9-24-57, Cl. 210-463.
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 Coats, Hal B. 2,789,893.
 Eckstrom, Albert W. 2,777,514.
 Ellis, Stanley P. J. 2,793,085.
 Fussman, Frederick. 2,781,862.
 Hibner, Delos E., Jr., and Vanyo. 2,811,954.
 Johnson, James W. 2,779,258.
 Karnofsky, George B. 2,790,708.
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 McCullough, Ray A. 2,793,657.
 Mittelstadt, Clarence R., Peters, and Baldy. 2,793,013.
 Montgomery, Duncan B. 2,811,200.
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 Blazek, William J., R. C. Evans, and R. C. Barkley, to Lempro Products, Inc. Apparatus for automatically forming and finishing grooves in workpieces. 2,812,621, 11-12-57, Cl. 51-92.
 Blazey, Lawrence E. Play pen. 2,810,554, 10-22-57, Cl. 256-25.
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 Parker, Charles S., and Melville. 2,808,635.
 Bleakney, William M., to Hughes Aircraft Co. Aircraft guidance roll compensator. 2,816,723, 12-17-57, Cl. 244-77.
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 Bledsoe, Woodrow W. Gear-operated toggle-controlled crimping tool. 2,808,748, 10-8-57, Cl. 81-15.
 Bleeker, John G. Animal pen gate assembly. 2,800,103, 7-23-57, Cl. 119-20.
 Bleeze, Thomas M., to Perkins Machine Co. Machine control devices. 2,792,460, 5-14-57, Cl. 200-24.
 Blegen, James R., and T. G. Custer, to General Electric Co. Molding compositions containing mineral fillers and products produced therefrom. 2,809,946, 10-15-57, Cl. 260-22.
 Bleher, William C., to American Biltrite Rubber Co., Inc. Method and apparatus for relieving vulcanized belting of internal stresses. 2,812,542, 11-12-57, Cl. 18-6.
 Blendermann, Louis C.: *See*—
 Ianuzzi, Anthony P. 2,782,700.
 Blessener, Anthony J. Crawler tractor adapted for wide end-less treads. 2,797,763, 7-2-57, Cl. 180-6.7.
 Blesi, Walter F., to The Sheffield Corp. Machine tool. 2,805,527, 9-10-57, Cl. 51-166.
 Bletcher, Ralph E., and I. A. Ward. Self closing valve. 2,789,013, 4-16-57, Cl. 299-144.
 Bletcher, Ralph E., and I. A. Ward, to Modern Faucet Mfg. Co. Graduating unit. 2,791,231, 5-7-57, Cl. 137-119.
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 Bletz, Howard W., to Stevens Mfg. Co., Inc. High conductivity thermostat. 2,811,610, 10-29-57, Cl. 200-138.
 Bleuze, Jacques, and P. Dussaussoy, to Compagnie Generale de Telegraphie Sans Fil. Glass to metal seal for high-frequency electronic tubes. 2,808,448, 10-1-57, Cl. 174-50.61.
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 Blevins, Elmer C. Vented awning. 2,788,549, 4-16-57, Cl. 20-57.5.
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 Blicke, Frederick F., to Regents of The University of Michigan. Substituted paraxanthines. 2,797,220, 6-25-57, Cl. 260-254.
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 Blish, Morris J., and A. J. Schlaeger, to International Minerals & Chemical Corp. Recovery of amino acids. 2,809,212, 10-8-57, Cl. 260-527.
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 Bliss, Harvey N., to Veeder-Root, Inc. Stabilized counter. 2,798,671, 7-9-57, Cl. 235-92.
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 Bliss, Marshall S.: *See*—
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 Bliss, Warren H., to Radio Corp. of America. Current control circuit. 2,791,719, 5-7-57, Cl. 315-27.
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 Bliss, William E., to International Harvester Co. Clutch lever structure. 2,806,568, 9-17-57, Cl. 192-99.
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 Blitz, Daniel, to the United States of America as represented by the Secretary of the Navy. Radio bomb release with range warning. 2,790,969, 4-30-57, Cl. 343-7.
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 Blitzler, Sidney M., O. M. Brown, and W. B. Grandjean, to Ethyl Corp. Recovery of tetraalkyl-lead compounds. 2,777,866, 1-15-57, Cl. 260-437.
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 Bloch, Herman S., to Universal Oil Products Co. Solvent extraction process applied to feed stocks of high boiling points. 2,786,085, 3-19-57, Cl. 260-674.
 Bloch, Herman S., to Universal Oil Products Co. Printing ink vehicle containing a conjunct copolymer drying oil. 2,794,747, 6-4-57, Cl. 106-28.
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 Bernstein, Russell W., and Block. 2,804,731.
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 Block, Aleck. Abrasive wheel. 2,798,343, 7-9-57, Cl. 51-193.5.

- Block, Aleck, to Merit Products, Inc. Multiple abrasive grinding wheel assembly. 2,802,315, 8-13-57, Cl. 51—193.5.
- Block, Aleck. Abrasive assembly for polishing flat surfaces. 2,802,316, 8-13-57, Cl. 51—197.
- Block, Aleck, to Merit Products, Inc. Replaceable flexible abrasive unit for polishing sheets and panels. 2,804,730, 9-3-57, Cl. 51—193.5.
- Block & Anderson Ltd.: See—
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- Block, Arnold H., to Hughes Aircraft Co. High speed paper advance system. 2,800,073, 7-23-57, Cl. 101—93.
- Block, Harold A. Speed reducer. 2,784,610, 3-12-57, Cl. 74—374.
- Block, Harry W., J. L. Common, and J. F. Dreher, to General Foods Corp. Pudding composition. 2,784,099, 3-5-57, Cl. 99—139.
- Block, Herman H. Musical game. 2,793,558, 5-28-57, Cl. 84—470.
- Block, Lawrence M. Corner light. 2,800,577, 7-23-57, Cl. 240—73.
- Block, Leo: See—
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- Block, Lester W.: See—
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- Block, Meyer L.: See—
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- Block, Richard J. Radiation dosimeter. 2,789,232, 4-16-57, Cl. 250—83.
- Block, Robert S. Stirring appliances. 2,805,843, 9-10-57, Cl. 259—135.
- Block, Rudolph M., and F. Yaron. Bromine production. 2,784,063, 3-5-57, Cl. 23—218.
- Block, Sydney J. and L. W. Brassiere. 2,817,842, 12-31-57, Cl. 2—42.
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- Block, Zenas: See—
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- Blockert, Ernest B., and A. Marino. Fountain pen of the pump type. 2,777,423, 1-15-57, Cl. 120—50.
- Blodgett, Edwin O., to Commercial Controls Corp. Carriage return mechanism for typewriters. 2,797,788, 7-2-57, Cl. 197—66.
- Blodgett, Edwin O., to Commercial Controls Corp. Case shift mechanism for typewriters. 2,797,790, 7-2-57, Cl. 197—74.
- Blodgett, Norman S.: See—
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- Blodgett, Norman S., and O. J. Munz. Smoking apparatus. 2,816,554, 12-17-57, Cl. 131—175.
- Blödnor, Hans-Karl, to E. Merck Aktiengesellschaft. Fungicides and bactericides and process of applying. 2,799,613, 7-16-57, Cl. 167—30.
- Bloom, Aldert T.: See—
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- Bloom, Jan, to North American Philips Co., Inc. Method of coating a support with a lead sulphide layer. 2,809,132, 10-8-57, Cl. 171—200.
- Bloemendaal, Gerald. Egg basket. 2,818,295, 12-31-57, Cl. 294—26.5.
- Bloom, Douglas C., and M. D. Ford, to The Commonwealth Engineering Co. of Ohio. Method of forming an elastomeric substitute for chamois leather. 2,785,441, 3-19-57, Cl. 18—53.
- Blok, Lourens, to North American Philips Co., Inc. Coil system for high frequency heating generators. 2,809,337, 10-8-57, Cl. 336—58.
- Blomgren, Clarence A. Shearing and bending machine. 2,776,694, 1-8-57, Cl. 153—16.
- Blomgren, Erik, and H. Jenner, to Aktiebolaget Pharmacia. Improved chemical reagent for the quantitative determination of water. 2,780,601, 2-5-57, Cl. 252—408.
- Blomgren, Roland A., and N. J. G. Bohlin, to the United States of America as represented by the United States Atomic Energy Commission. Arrangement for replacing filters. 2,804,165, 8-27-57, Cl. 183—46.
- Blomquist, Alfred T., and J. Wolinsky. Preparation of civetone and its homologs. 2,790,005, 4-23-57, Cl. 260—586.
- Blomquist, Robert E.: See—
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- Blomquist, Robert E., to Sundstrand Machine Tool Co. Work handling mechanism for machine tools. 2,808,746, 10-8-57, Cl. 77—64.
- Blomquist, Uno O. Air preheater with heating and tempering means. 2,809,811, 10-15-57, Cl. 257—3.
- Blond, Joseph E. M., and J. R. L. Nascia, to Societe de l'Electronique Francaise. Process for the welding of a plastic material. 2,799,759, 7-16-57, Cl. 219—10.53.
- Blondé, Robert G.: See—
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- Blonder, Isaac S. Tunable electric circuit elements. 2,778,943, 1-22-57, Cl. 250—40.
- Blondet, Maurice L., and J. G. Barrière, to General Electric Co. Tap changing system. 2,805,378, 9-3-57, Cl. 318—414.
- Blondin, Donald F. Drafting instrument. 2,784,497, 3-12-57, Cl. 33—174.
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- Blood, Harold L., and S. I. Rice, to The Heald Machine Co. Electro-magnetic chuck. 2,787,874, 4-9-57, Cl. 51—236.
- Blood, Harold L., and W. W. Ware, to Heald Machine Co. Grinding machine. 2,801,502, 8-6-57, Cl. 51—165.
- Bloom, Albert, and D. E. Graham, to General Aniline & Film Corp. Purification of 2-butyne-1,4-diol by fractional crystallization. 2,789,147, 4-16-57, Cl. 260—637.
- Bloom, Albert, and D. E. Graham, to General Aniline & Film Corp. Recovery of 3-chloronitrobenzene. 2,795,620, 6-11-57, Cl. 260—646.
- Bloom, Albert, and D. E. Graham, to General Aniline & Film Corp. Recovery of chloronitrobenzenes. 2,795,621, 6-11-57, Cl. 260—646.
- Bloom, Albert, and E. V. Welch, to General Aniline & Film Corp. Process for preparation of α -bromo-4-nitroacetophenone-hexamethylenetetramine addition compound. 2,798,871, 7-9-57, Cl. 260—248.5.
- Bloom, Barry M., to Chas. Pfizer & Co., Inc. Naphthylamino oxazolines. 2,811,529, 10-29-57, Cl. 260—307.
- Bloom, David S., and N. J. Grant, to Research Corp. Method for heat treating chromium base alloy. 2,809,139, 10-8-57, Cl. 148—13.
- Bloom, Fredrick K., to Armco Steel Corp. Weld-electrode and product. 2,802,755, 8-13-57, Cl. 117—207.
- Bloom, Fredrick K., to Armco Steel Corp. Weld-electrode and product. 2,802,756, 8-13-57, Cl. 117—207.
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- Bloom, John C., and H. E. Cornish, to Douglas Aircraft Co., Inc. Pressure controlled device. 2,803,718, 8-20-57, Cl. 200—82.
- Bloom, Melvin S.: See—
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- Bloom, Merle W., and D. H. Phillips, to Sears, Roebuck and Co. Elevating and depth gauging means for tractor implements. 2,815,704, 12-10-57, Cl. 97—47.43.
- Bloom, Quentin M., to Selas Corp. of America. Work conveying mechanism. 2,781,891, 2-19-57, Cl. 198—127.
- Bloom, Samuel C. Self-cleaning spray nozzle. 2,776,862, 1-8-57, Cl. 299—59.
- Bloom, Wilbur W., and D. L. Remy. Spray gun. 2,789,867, 4-23-57, Cl. 299—140.
- Blome, Joseph. Medicinal tweezer. 2,803,252, 8-20-57, Cl. 128—303.
- Bloomberg, Daniel J., and J. E. Pond, to Republic Productions, Inc. Photographic camera lens system adjusting mechanism. 2,797,618, 7-2-57, Cl. 88—57.
- Bloomberg, David J., to General Electric Co. Control system for dual rotor pump drives. 2,816,417, 12-17-57, Cl. 60—35.6.
- Bloomer Bros. Co.: See—
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- Bloomfield, George V.: See—
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- Bloomquist, Charles W.: See—
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- Bloser, Dwight W., to Bendix Aviation Corp. Electronic timer. 2,803,814, 8-20-57, Cl. 340—234.
- Bloudoff, Peter S., to U. S. Industries, Inc. 2-zone pump. 2,797,642, 7-2-57, Cl. 103—4.
- Bloudoff, Peter S., to Axelson Mfg. Co. Well pump. 2,817,298, 12-24-57, Cl. 103—187.
- Blough, Ronald S. Method and apparatus for shaping cylindrical articles of varying diameters. 2,811,622, 10-29-57, Cl. 219—7.5.
- Blount, Alvie E., and T. Flatow, to Esso Research and Engineering Co. Double action drifter drill. 2,812,922, 11-12-57, Cl. 255—42.
- Blow, Angus W., to General Dynamics Corp. Telephone inter-communication system. 2,813,152, 11-12-57, Cl. 179—1.
- Blower, Warren A., and R. L. Ziegler, to Joy Mfg. Co. Walking roof support. 2,795,936, 6-18-57, Cl. 61—63.
- Bloxham, Ralph H. Pneumatic nut harvester. 2,789,408, 4-23-57, Cl. 56—328.
- Bloxsom, Allan P. Nebulization apparatus. 2,807,504, 9-24-57, Cl. 299—88.5.
- Bloxsom, Allan P., to G. W. Waldron and R. H. Perlitz, as trustees. Method of and means for resuscitation of the asphyxiated newborn. 2,810,384, 10-22-57, Cl. 128—28.
- Bloxsom, Allan P., and D. E. Combination safety switch and flow meter. 2,791,657, 5-7-57, Cl. 200—81.9.
- Bloxsom, Dan E.: See—
Bloxsom, Allan P., and D. E. 2,791,657.
- Blubaugh, Bernard L. Drive-on-lift trailer. 2,797,928, 7-2-57, Cl. 280—44.
- Blucher, John W., K. E. Rubright, and J. E. Peeling, to The Glenn L. Martin Co. Method and apparatus for removing dents from contoured object by use of reduced pressure above dent combined with tapping forces. 2,799,318, 7-16-57, Cl. 153—32.
- Bludworth, Joseph E., to Delhi-Taylor Oil Corp. Method for producing acetylene. 2,785,213, 3-12-57, Cl. 260—679.
- Blue, Ernst M. Method of splicing heavy duty cable. 2,789,931, 4-23-57, Cl. 154—2.22.

- Blue, John, Co., Inc.: *See*—
 Horton, Donelson B., and Johnston. 2,811,108.
 Johnston, Douglas. 2,804,086.
 Johnston, Douglas. 2,808,786.
- Blue M Electric Co.: *See*—
 Lawler, Joseph A. 2,813,189.
- Blue, Margaret S. Stair-walking aid. 2,782,796, 2-26-57, Cl. 135-47.
- Blue, Robert E. Combination interferometer-schlieren apparatus for density determination in non-homogeneous transparent fields. 2,776,593, 1-8-57, Cl. 88-14.
- Bluemink, Gary G., to The Dumore Co. Drill grinder. 2,797,533, 7-2-57, Cl. 51-96.
- Blue Ridge Glass Corp.: *See*—
 Glynn, Theodore W. 2,784,287.
 Glynn, Theodore W., and Storm. 2,780,708.
- Bluestein, Ben A., to General Electric Co. Filled silicone rubber having low shrinkage characteristics. 2,793,198, 5-21-57, Cl. 260-37.
- Bluestone, Henry, to Velsicol Chemical Corp. N-substituted imides of hexachloro bicyclo [2.2.1]heptene dicarboxylic acids. 2,795,589, 6-11-57, Cl. 260-326.
- Bluestone, Henry, S. B. Soloway, J. Hyman, and R. E. Lidov, to Shell Development Co. Nortricyclol ethers. 2,782,238, 2-19-57, Cl. 260-612.
- Bluestone, Henry, Y. A. Tajima, and R. E. Lidov, to Shell Development Co. Process for chlorinating 4,5,6,7,8,8-hexachloro-3a, 4,7,7a-tetrahydro-4,7-methanoindene to form the corresponding 1,2 octachloro-methanoindane. 2,813,445, 12-31-57, Cl. 260-648.
- Bluford, Guion S., and C. W. Musser, to the United States of America as represented by the Secretary of War. Light-weight recoilless artillery weapon. 2,789,471, 4-23-57, Cl. 89-1.7.
- Blum, Edmund D.: *See*—
 Hutchings, Le Roi E., and Blum. 2,790,759.
- Blum, Harold T., to The Briar Hill Stone Co. Gang saw machine with auxiliary reciprocal movement of saw frame. 2,797,679, 7-2-57, Cl. 125-16.
- Blum, Harold T., to The Briar Hill Stone Co. Saw blade for stone cutting machine. 2,798,473, 7-9-57, Cl. 125-17.
- Blum, Hosmer L.: *See*—
 Tocci-Guilbert, Berne, and Blum. 2,789,402.
- Blum, Jerome J., to Arvey Corp. Protective packing device for automobile fenders. 2,807,356, 9-24-57, Cl. 206-46.
- Blum, Juliette N.: *See*—
 Sureau, Robert F. M., and Blum. 2,795,575.
- Blum, Louis, to Blumcraft of Pittsburgh. Anchors for ornamental rails. 2,807,834, 10-1-57, Cl. 20-10.
- Blum, Robert D., to Borg-Warner Corp. Induction unit for air conditioning. 2,783,979, 3-5-57, Cl. 257-137.
- Blumberg, Armond. Binocular carrier. 2,780,263, 2-5-57, Cl. 150-52.
- Blumberg, Richard: *See*—
 Connor, Thomas J., and Blumberg. 2,791,553.
- Blumcraft of Pittsburgh: *See*—
 Blum, Louis. 2,807,834.
- Blume, LeRoy O., to Continental Can Co., Inc. Method and apparatus for preheating can body side seams. 2,818,483, 12-31-57, Cl. 219-10.41.
- Blumenfeld, Charles M. Control device. 2,788,068, 4-9-57, Cl. 161-1.
- Blumenkrantz, Max. Apparatus for attaching slide fasteners to fabrics and the like. 2,776,635, 1-8-57, Cl. 112-2.
- Blumensadt, Svend G.: *See*—
 Lincoln, John C., and Blumensadt. 2,783,782.
- Blumenschein, John C. Surgical retractor. 2,812,758, 11-12-57, Cl. 128-20.
- Blumenthal, Sidney, & Co., Inc.: *See*—
 Hill, Robert A., Hertz, and Niebling. 2,811,248.
- Blumenthal, Warren B., to National Lead Co. Basic zirconyl soaps and method for preparing the same. 2,802,847, 8-13-57, Cl. 260-414.
- Blumentritt, Werner, to Micafil A-G. Variable speed transmission gearing. 2,804,784, 9-3-57, Cl. 74-681.
- Blumer, Manuel: *See*—
 Salzmann, Leo, Blumer, and Kessler. 2,802,866.
- Blumer, Manuel, to L. Sonneborn Sons, Inc. Petroleum mahogany sulfonates with high alkaline earth metal content. 2,794,828, 6-4-57, Cl. 260-504.
- Blumer, Max: *See*—
 Hagenboecker, Alfred, and Blumer. 2,776,961.
- Blumstein, Abraham. Watch mounting. 2,804,746, 9-3-57, Cl. 58-88.
- Blundean, James H. Extension ladder jack. 2,779,561, 1-29-57, Cl. 248-238.
- Bly, Hermann H., to the United States of America as represented by the Secretary of the Army. Flexible battery. 2,798,896, 7-9-57, Cl. 136-181.
- Bly, Isaiah and S. Jr. Dentifrice-containing capsules. 2,778,045, 1-22-57, Cl. 15-131.
- Bly, Simon, Jr.: *See*—
 Bly, Isaiah and S. 2,778,045.
- Blythe, Allen W. Coil spring booster. 2,801,841, 8-6-57, Cl. 267-33.
- Blythe, James H. Pivoted lever cap lifter with container-engaging means. 2,797,597, 7-2-57, Cl. 81-336.
- Boadway, John D., and H. Freeman, to Nichols Engineering and Research Corp. Apparatus for treating liquid mixtures for separation of solid particles and gases. 2,816,490, 12-17-57, Cl. 92-28.
- Boam, Willard M., and H. H. Hanink, to Curtiss-Wright Corp. Method of copper brazing. 2,779,999, 2-5-57, Cl. 29-498.
- Board, Ralph, to Sun Electric Corp. Electrical apparatus. Re. 24,342, 8-6-57, Cl. 315-219.
- Boardman, Gilman C.: *See*—
 McGinley, Raymond P., and Boardman. 2,791,947.
- Boardman, Raymond H., to The Hart Mfg. Co. Cover plate assembly. 2,782,960, 2-26-57, Cl. 220-60.
- Boast, James M.: *See*—
 McQuarv, Milton F. 2,783,536.
- Boatright, Leslie G.: *See*—
 Mackay, Johnstone S., and Boatright. 2,783,131.
- Boatright, Leslie G., and J. S. Mackay, to American Cyanamid Co. Preparation of guanidine salts and substituted guanidine salts. 2,783,276, 2-26-57, Cl. 260-564.
- Bobard, Emile. Pneumatic tire and wheel constructions. 2,785,727, 3-19-57, Cl. 152-330.
- Bobard, Emile. Front wheel drive connection responsive to fastest of the differentially driven rear wheels. 2,789,646, 4-23-57, Cl. 180-6.26.
- Bobb, Lloyd J., to The International Electronics Co. Magnetic recording and reproducing circuits. 2,780,678, 2-5-57, Cl. 179-100.1.
- Bobb, Lloyd J., to The International Electronics Co. Magnetic recording and reproducing circuits. 2,786,896, 3-26-57, Cl. 179-100.2.
- Bobb, Sidney: *See*—
 Rachman, Isadore B., and Bobb. 2,803,033.
- Bobbitt, T. C.: *See*—
 Humason, Granville A. 2,814,992.
- Bobchert Industries, Inc.: *See*—
 Grondzik, Chester A. 2,785,919.
- Böbersen, Harri. Mining equipment of the planer type having a pivotally mounted planing head. 2,795,407, 6-11-57, Cl. 262-8.
- Bobis, Stephen, to Bell Telephone Laboratories, Inc. Attenuation equalizer. 2,792,552, 5-14-57, Cl. 333-28.
- Bobkiewicz, Emilian. Traction operated rotary dry shaver. 2,806,281, 9-17-57, Cl. 30-43.
- Boblingen, Bezirk: *See*—
 Faulhaber, Fritz, and Boblingen. 2,791,164.
- Bobo, Frank B., Jr.: *See*—
 Bolles, James C., Matthews, and Bobo. 2,806,367.
 Leath, William J., and Bobo. 2,778,187.
- Bobo, Roy A., to Phillips Petroleum Co. Junk basket with positive fluid circulation. 2,797,755, 7-2-57, Cl. 166-99.
- Bobo, Walton E., and F. H. Hudson, to Ray-O-Lite Corp. of America. End wing jig for awnings. 2,803,276, 8-20-57, Cl. 144-288.
- Bobrich Products Corp.: *See*—
 Goldmuntz, Lawrence, and Schroeder. 2,801,317.
 Goldmuntz, Lawrence A. 2,800,562.
- Hart, Herbert F., Lindberg, and Hopp. 2,803,187.
- Bobrowsky, Alfred, to Ford Motor Co. Coupling means. 2,811,148, 10-29-57, Cl. 123-46.
- Bocciarelli, Carlo V., to Philco Corp. Precision voltage regulating element. 2,796,505, 6-18-57, Cl. 201-66.
- Bocchio, Theodore R. R., to the United States of America as represented by the Secretary of the Navy. Combustion initiator. 2,806,356, 9-17-57, Cl. 60-39.82.
- Bocckino, Harry G.: *See*—
 Roy, Tuhin K., and Bocckino. 2,778,728.
- Bocek, Leonard, to American Steel Foundries. Brake adjuster. 2,807,334, 9-24-57, Cl. 188-59.
- Bochan, John, to General Electric Co. Rinsing agent dispenser for clothes washing machines. 2,792,701, 5-21-57, Cl. 68-17.
- Bochan, John, and J. W. Toma, to General Electric Co. Adjustable vibration sensing means for laundry machines. 2,807,952, 10-1-57, Cl. 68-24.
- Bochert, William E. Circumferentially distributed thrust type tire removing device. 2,815,803, 12-10-57, Cl. 157-1.2.
- Böckmann, Klaus, and K. Taube, to Farbenfabriken Bayer Aktiengesellschaft. Grey trisazo dyestuffs. 2,777,839, 1-15-57, Cl. 260-169.
- Bochumer Verein Fuer Gusstahlfabrikation Aktiengesellschaft: *See*—
 Jansen, Johannes. 2,806,267.
- Bock, Ashley P., to Westinghouse Electric Corp. Heat treatment apparatus. 2,813,186, 11-12-57, Cl. 219-10.61.
- Bock, Charles D., and E. P. Blanchard, to American Bosch Arma Corp. Pneumatic gun mount. 2,785,606, 3-19-57, Cl. 89-43.
- Bock, Ernest H., to Wheeling Steel Corp. Bottle crate and cell unit therefor. 2,778,524, 1-22-57, Cl. 220-21.
- Bock, George E., and J. H. Graas, to Pullman-Standard Car Mfg. Co. Convertible pump mount and lubrication arrangement. 2,787,065, 4-2-57, Cl. 37-144.
- Bock, George E., and J. E. Gutridge, to Pullman-Standard Car Mfg. Co. Axle steering mechanism. 2,812,726, 11-12-57, Cl. 105-4.
- Bock, Harold L.: *See*—
 Fenton, Frank W., and Bock. 2,792,950.
- Bock, Herbert, to SKB Schuechtermann & Kremer-Baum Aktiengesellschaft fuer Aufbereitung. Shaking screens. 2,776,751, 1-8-57, Cl. 209-365.
- Bock, Michael, II: *See*—
 Pietsch, Erich C., and Bock. 2,791,816.
- Bock, Sidney W. Pipe smoking accessory. 2,790,448, 4-30-57, Cl. 131-243.

- Bock, Walter E., to Magnaflex Corp. Feeding mechanism control system. 2,811,267, 10-29-57, Cl. 214-151.
- Bock, Wilhelm: *See—*
- Hiesinger, Leopold, and Bock. 2,818,209.
- Bockelmann, John B., and F. B. Strandskov, to The F. & M. Schaefer Brewing Co. Inhibiting micro-biological growth in beer. 2,798,811, 7-9-57, Cl. 99-48.
- Bockius, Louis V.: *See—*
- Schlabach, Raymond M., and Mockius. 2,780,395.
- Bockneulen, Johannes H.: *See—*
- Groenhof, Jacobus, and Bockneulen. 2,777,325.
- Bockrath, Paul U., and R. C. Dill, to E. I. du Pont de Nemours & Co. Web slitting apparatus. 2,781,839, 2-19-57, Cl. 164-36.
- Bockstahler, Theodore E.: *See—*
- Beavers, Ellington M., and Bockstahler. 2,806,014.
- McLaughlin, Paul J., Toy, and Bockstahler. 2,790,736.
- Bodamer, George W., and C. J. Prizer, to Rohm & Haas Co. Multiple ion exchange membrane electro dialysis cell. 2,784,158, 3-5-57, Cl. 204-301.
- Bodamer, George W., and C. Horner, to Rohm & Haas Co. Electrolytic treatment of waste sulfate pickle liquor. 2,810,686, 10-22-57, Cl. 204-130.
- Boddy, Leonard, to King-Seely Corp. Plural condition responsive signal system with initial testing. 2,782,401, 2-19-57, Cl. 340-213.
- Bode, August R. Collapsible chair. 2,813,575, 11-19-57, Cl. 155-139.
- Bode, Harald, to Estey Organ Corp. (Del.). Frequency divider circuit for musical instruments. 2,783,381, 2-26-57, Cl. 250-36.
- Bode, Harald, to Estey Organ Corp. (Del.). Frequency divider circuit for musical instruments. 2,783,382, 2-26-57, Cl. 250-36.
- Bode, Paul. Chair. 2,778,410, 1-22-57, Cl. 155-164.
- Bodem, Roy C., to General Motors Corp. Actuator locking means. 2,782,766, 2-26-57, Cl. 121-40.
- Bodem, Roy C., and J. W. Light, to General Motors Corp. Actuator and locking means therefor. 2,811,951, 11-5-57, Cl. 121-40.
- Boden, Ernest G., to The Timken Roller Bearing Co. Differential construction. 2,808,740, 10-8-57, Cl. 74-713.
- Boden, Ernest G., and R. F. Hofer, to The Timken Roller Bearing Co. Hydraulic assembly for removing interference-fitted rings. 2,817,142, 12-24-57, Cl. 29-234.
- Bodez, Henry. Electric lamp. 2,798,149, 7-2-57, Cl. 240-11.4.
- Bodge, Philip K., to General Electric Co. Mass flow meter. 2,814,949, 12-3-57, Cl. 73-194.
- Bodine, Albert G., Jr. Acoustical boundary layer control for aerodynamic bodies. 2,783,008, 2-26-57, Cl. 244-130.
- Bodine, Albert G., Jr. Pump for fluid and semi-fluid materials. 2,794,400, 6-4-57, Cl. 103-149.
- Bodine, Albert G., Jr. Method and apparatus for sonic polishing and grinding. 2,796,702, 6-25-57, Cl. 51-7.
- Bodine, Albert G., Jr. Sonic burner heat engine with acoustic reflector for augmentation of the second harmonic. 2,796,734, 6-25-57, Cl. 60-39.77.
- Bodine, Albert G., Jr. Acoustic jet engine with flow deflection fluid pumping characteristics. 2,796,735, 6-25-57, Cl. 60-39.77.
- Bodine, Albert G., Jr. Control of combustion instability in jet engines. 2,807,931, 10-1-57, Cl. 60-35.6.
- Bodine, Albert G., Jr. Gas turbine with acoustic surge control. 2,807,932, 10-1-57, Cl. 60-39.09.
- Bodine, Albert G., Jr. Sonic method for powdered metal molding. 2,815,535, 12-10-57, Cl. 18-59.2.
- Bodine, Albert G., Jr. Deep well drill with elastic bit coupler. 2,815,928, 12-10-57, Cl. 255-4.4.
- Bodlaender, Hans W., to Kennedy-Van Saun Mfg. & Eng. Corp. Apparatus for producing carbonaceous materials for electrodes. 2,815,176, 12-3-57, Cl. 241-54.
- Bodle, Chester A., and G. Sneddon, Jr., to United States Steel Corp. Device for measuring the length of elongated articles. 2,798,297, 7-9-57, Cl. 33-125.
- Bodle, David W., and J. B. Hays, Jr., to Bell Telephone Laboratories, Inc. Lightning protection circuits. 2,789,254, 4-16-57, Cl. 317-61.
- Bodmer, Eugene. Electric tool and stand. 2,810,308, 10-22-57, Cl. 77-19.
- Bodnar, Alex: *See—*
- McDermott, John J., and Bodnar. 2,797,704.
- Bodoni, George F., Jr., to 4 Bros. Refrigeration Mfg. Co., Inc. Ice crushing device capable of producing two sizes of crushed ice, dependent upon the direction of rotation. 2,803,410, 8-20-57, Cl. 241-190.
- Boe, Ole-Jacob: *See—*
- Norman, John M., Boe, and Meidell. 2,800,893.
- Boeddinghaus, Hugo, to American Felt Co. Impregnated wool felt and method of making same. 2,817,574, 12-24-57, Cl. 8-18.
- Boeddinghaus, Hugo, and A. C. Wrotnowski, to American Felt Co. Fused edge filter unit. 2,788,901, 4-16-57, Cl. 210-486.
- Boedecker, Friedrich, to Riedel-De Haën Aktiengesellschaft. Process for obtaining pure chestnut-saponin. 2,790,793, 4-30-57, Cl. 260-210.5.
- Boedeker, Edward R., to Houdry Process Corp. Disproportionation of alkylaromatic hydrocarbons. 2,795,629, 6-11-57, Cl. 260-668.
- Boeger, Howard: *See—*
- Laber, William J., H. E., W., and K., and H. and M. Boeger. 2,776,770.
- Boeger, Mildred: *See—*
- Laber, William J., H. E., W., and K., and H. and M. Boeger. 2,776,770.
- Boehm, Donald. Underground receptacles. 2,791,347, 5-7-57, Cl. 220-18.
- Boehm, Eric G., and C. F. Lautz, to Houdaille Industries, Inc. Telescopic shock absorbers. 2,781,869, 2-19-57, Cl. 188-88.
- Boehm, Eric G., and C. F. Lautz, to Houdaille Industries, Inc. Shock absorbers with compressible cushions. 2,815,829, 12-10-57, Cl. 188-88.
- Boehm, Frederick, to Schutte and Koerting Co. Steam jet vacuum pump system. 2,808,195, 10-1-57, Cl. 230-95.
- Boehm, John H., to Heckler-Boehm, Inc. Electrical system and load limit control means therefor. 2,789,197, 4-16-57, Cl. 219-20.
- Boehm, Joseph J., and E. F. Stealey, to The Boehm Pressed Steel Co. Cartridge case base. 2,818,021, 12-31-57, Cl. 102-44.
- Boehm Pressed Steel Co., The: *See—*
- Boehm, Joseph J., and Stealey. 2,818,021.
- Boehm, Robert M., to Masonite Corp. Hard board manufacture. 2,802,403, 8-13-57, Cl. 92-39.
- Boehm, Robert M., and G. G. Simpson, to Masonite Corp. Process for making consolidated lignocellulose hardboard containing re-added fines. 2,805,946, 9-10-57, Cl. 92-1.
- Boehme, Richard F.: *See—*
- Ralston, William P., and Boehme. 2,783,003.
- Boehme, Robert M., and R. B. Lawrance, to National Research Corp. Apparatus for measuring gas in molten metals. 2,795,132, 6-11-57, Cl. 73-19.
- Boehner, Ludwig G. Motor vehicle fuel tank. 2,812,030, 11-5-57, Cl. 180-1.
- Boehnke, William J. Devices for removing vehicle wheels. 2,807,380, 9-24-57, Cl. 214-332.
- Boehringer, C. H., Sohn: *See—*
- Karl, Zeile, Konz, and Sehring. 2,818,424.
- Boehringer, Robert W. Fuel supply pump for diesel engine fuel injection equipment. 2,791,965, 5-14-57, Cl. 103-4.
- Boeing Airplane Co.: *See—*
- Anderson, Roy H., and Youngs. 2,814,482.
- Bremer, Harris B., Lane, Scott, and Peterson. 2,813,692.
- Brenden, Kermit E., and Tobin. 2,788,182.
- Brock, Robert L., Maynard, McCarthy, and Ross. 2,787,744.
- Brown, Boyd E., and Slaughter. 2,806,666.
- Bystrom, Albin, Jr., and Kelly. 2,817,086.
- Cheney, Gordon H. 2,788,408.
- Cheney, Gordon H. 2,791,905.
- Cheney, Gordon H., Russell, and Whitener. 2,813,421.
- Crosetto, John B., and Newell. 2,778,343.
- Dannevig, Tord. 2,778,371.
- Dannevig, Tord, and Culor. 2,796,081.
- Findlay, James A. 2,808,581.
- Hamer, James I. 2,793,649.
- Hanks, Thrift G. 2,802,214.
- Hargrove, Sanford L., and Sharp. 2,782,489.
- Hart, Victor B. 2,804,501.
- Johanson, Norman L. 2,780,725.
- Knapp, Russell H., and Marsh. 2,809,667.
- Koenig, Philip C. 2,795,989.
- Maynard, John E., and Brock. 2,808,513.
- Maynard, John E., and Ritchey. 2,808,474.
- Maynard, John E., Thomasson, and Hamilton. 2,796,566.
- Midgley, John M., and Straight. 2,803,360.
- Muzzey, Benjamin C. 2,795,957.
- Muzzey, Benjamin C., Recker, and Sims. 2,817,974.
- Norton, David A., and White. 2,813,689.
- Nyerges, Gilbert A., and Muzzey. 2,778,586.
- Perkins, Leroy C., and Reynolds. 2,795,773.
- Rea, Stanley E., and Williamson. 2,787,185.
- Reynolds, Francis D. 2,794,178.
- Rohtert, Robert E. 2,798,828.
- Seeger, Bernard I. 2,813,691.
- Sessler, Kenneth E. 2,783,072.
- Shepherd, Ray A. 2,809,686.
- Snyder, Howard E. 2,807,875.
- Stavert, Harry. 2,780,057.
- Swank, Douglas H. 2,787,889.
- Swanson, Wallace R. 2,816,725.
- White, Roland J. 2,787,429.
- Whitener, Philip C. 2,795,137.
- Wilson, Theodore R. 2,788,186.
- Yerance, Robert A. 2,778,443.
- Boekee, Teunis. Washing machine and a combination of a washing machine and a centrifugal machine. 2,801,533, 8-6-57, Cl. 68-26.
- Boekhorst, Antonius: *See—*
- Van Der Knaap, Pieter D., and Boekhorst. 2,794,914.
- Boekhorst, Antonius, to North American Philips Co., Inc. Self-oscillating mixer using tunable long lines. 2,812,432, 11-5-57, Cl. 250-20.
- Boelens, Willem W., and D. W. van der Syde, to Hartford National Bank and Trust Co., as trustee. Two band converter stage with signal grid bias stabilizing means. 2,784,308, 3-5-57, Cl. 250-20.

- Boelens, Willem W., and J. W. Tap, to North American Philips Co., Inc. Constant band-width input stage with high Q antenna. 2,787,704, 4-2-57, Cl. 250-20.
- Boelke, Elli: *See*—
- Erdmann, Albert, and Boelke. 2,793,147.
- Boer, George, W. M. O'Reilly and M. E. True, to Esso Research and Engineering Co. Wire line releasing tool and well plug. 2,781,854, 2-19-57, Cl. 166-218.
- Boer, George, W. M. O'Reilly, and M. E. True, to Esso Research and Engineering Co. Wire line setting tool and well plug. 2,784,790, 3-12-57, Cl. 166-181.
- Boer, George, and M. E. True, to Esso Research and Engineering Co. Subsurface blowout preventer. 2,786,535, 3-26-57, Cl. 166-187.
- Boer, Louie, to Kwikset Locks, Inc. Adapter kit for mortise lock openings. 2,815,655, 12-10-57, Cl. 70-451.
- Boerdijk, Arie H., to North American Philips Co., Inc. Electric motor. 2,814,746, 11-26-57, Cl. 310-164.
- Boerlin, Harold L. Manually operated field line insulator. 2,817,699, 12-24-57, Cl. 174-154.
- Boerlin, Harold L. Quick action under-arm insulator for field lines. 2,817,700, 12-24-57, Cl. 174-154.
- Boerner, Lewis W., E. C. Holmes, and H. B. Murray, to National Foam System, Inc. Apparatus for proportioning fire extinguishing foam solutions. 2,799,352, 7-16-57, Cl. 169-14.
- Boersma, Barney, and C. R. Walbert, to Sackner Products, Inc. Collapsible hamper. 2,797,011, 6-25-57, Cl. 217-124.
- Boersma, Richard F.: *See*—
- Madeira, Lo Presti, and Boersma. 2,805,758.
- Boesch Mfg. Co., Inc.: *See*—
- Clarke, William W. 2,793,817.
- Clarke, William W., and Walendzik. 2,793,818.
- Boese, William G., to Pullman-Standard Car Mfg. Co. Welded bolster construction. 2,804,024, 8-27-57, Cl. 105-228.
- Boester, Carl F. Waste disposal system. 2,798,227, 7-9-57, Cl. 4-10.
- Boester, Carl F. Waste disposal system. 2,798,228, 7-9-57, Cl. 4-10.
- Boettcher, Alfred: *See*—
- Schneider, Günther, and Boettcher. 2,802,894.
- Von Seelen, Carola, Ehringer, and Boettcher. 2,802,925.
- Boettcher, Stephen A., and H. W. Gould, to Crane Packing Co. Lapping machine. 2,779,139, 1-29-57, Cl. 51-181.
- Boettner, Fred E., to Rohm & Haas Co. Method for preparing N-sorbitylcarbamates. 2,808,402, 10-1-57, Cl. 260-211.
- Boettner, Fred E., to Rohm & Haas Co. Esterified etherified N-alkylglucamines. 2,817,652, 12-24-57, Cl. 260-97.
- Boeye, Paul F. Outboard motor package. 2,791,322, 5-7-57, Cl. 206-46.
- Boeye, Paul F. Boxes. 2,791,363, 5-7-57, Cl. 229-16.
- Boefinger, Karl: *See*—
- Heinle, Carl W., Nordquist, and Bofinger. 2,785,281.
- Bogardy, Alexander. Curl setting device. 2,788,007, 4-9-57, Cl. 132-38.
- Bogart, Frances E., and G. Grams. Ear protector. 2,812,517, 11-12-57, Cl. 2-174.
- Bogart, George A. Abrading machine. 2,814,171, 11-26-57, Cl. 51-273.
- Bogart, Harold N.: *See*—
- Vennerholm, Gosta, and Bogart. 2,779,675.
- Bogart, Harold N., to Ford Motor Co. Nodular iron manufacture. 2,816,829, 12-17-57, Cl. 75-130.
- Bogart, Marcel J. P., to The Lummus Co. Production of olefins. 2,796,951, 6-25-57, Cl. 183-115.
- Bogart, Marcel J. P., V. Mekler, and H. R. Davis, to The Lummus Co. Acetylene production. 2,789,149, 4-16-57, Cl. 260-679.
- Bogaty, Stanislaus, to Proctor & Schwartz, Inc. Apparatus and method for conditioning cut tobacco. 2,777,446, 1-15-57, Cl. 131-136.
- Bogaty, Stanislaus, to Proctor & Schwartz, Inc. Method of treating tobacco. 2,799,278, 7-16-57, Cl. 131-144.
- Bogaty, Stanislaus, to Proctor & Schwartz, Inc. Mobile feeder unit for tobacco and like material. 2,810,467, 10-22-57, Cl. 198-57.
- Bogaty, Stanislaus, to Proctor & Schwartz, Inc. Feeding mechanism and process for fibrous materials. 2,811,241, 10-29-57, Cl. 198-229.
- Bogdan, David A., to Westinghouse Electric Corp. High temperature furnace. 2,787,457, 4-2-57, Cl. 263-41.
- Bogdanowski, John, to Consolidated Edison Co. of New York, Inc. Methods and means for moving heavy cable reels and the like. 2,804,223, 8-27-57, Cl. 214-330.
- Bogden, Joseph J., to Ford Motor Co. Window regulator. 2,809,827, 10-15-57, Cl. 268-126.
- Bogdonoff, Harold, to The Haloid Co. Electrophotographic camera. 2,817,277, 12-24-57, Cl. 95-17.
- Bogen, David, & Co., Inc.: *See*—
- Sullivan, Herbert W. 2,797,766.
- Boger, Vernon G.: *See*—
- Semegen, Stephen T., and Boger. 2,816,055.
- Boger, Vernon G., to The B. F. Goodrich Co. Method of bonding a base material to a rubber layer using rubbery adhesives and articles made thereby. 2,812,278, 11-5-57, Cl. 154-130.
- Boggero, Louis: *See*—
- Feinstein, Louis N., and Boggero. 2,785,555.
- Bogert, Virgil V., and I. A. Solomons III, to Chas. Pfizer & Co., Inc. Mixed acid salts of dihydrostreptomycin and process of preparing same. 2,800,469, 7-23-57, Cl. 260-210.
- Bogert, Virgil V., and C. J. Walsh, to Chas. Pfizer & Co., Inc. Process for separating tetracycline and chlortetracycline. 2,804,476, 8-27-57, Cl. 260-559.
- Boggess, Hurley V., and J. H. Schmid, to J. A. Zurn Mfg. Co. Water closet bowl support and drain assembly. 2,795,798, 6-18-57, Cl. 4-211.
- Boggess, Marvel D. Combination floor and spring jack. 2,808,155, 10-1-57, Cl. 214-1.
- Boggess, Alben C., to Edwin L. Wiegand Co. Electric heaters. 2,816,207, 12-10-57, Cl. 219-41.
- Boggess, Alben C., and T. M. Fox, to Edwin L. Wiegand Co. Electric heating devices. 2,807,696, 9-24-57, Cl. 201-67.
- Boggs, H. D., Co., Ltd.: *See*—
- Boggs, Herbert D. 2,776,450.
- Boggs, Herbert D. 2,785,442.
- Kurtz, Ralph W. 2,790,997.
- Boggs, Herbert D., to H. D. Boggs Co., Ltd. Centrifugal casting apparatus. 2,776,450, 1-8-57, Cl. 18-4.
- Boggs, Herbert D., to H. D. Boggs Co., Ltd. Method of making a reinforced hollow cylindrical article. 2,785,442, 3-19-57, Cl. 18-58.3.
- Boggs, Jesse K., F. P. Ford, and J. H. McAteer, to Esso Research and Engineering Co. Oil extended synthetic rubber compositions. 2,778,807, 1-22-57, Cl. 260-33.6.
- Boggs, Robert H. Fish bait return. 2,788,606, 4-16-57, Cl. 43-44.97.
- Boggs, Royce E., to Rohr Aircraft Corp. Pump for lifting hot liquid. 2,798,441, 7-9-57, Cl. 103-178.
- Boggs, Walter W.: *See*—
- Russell, John K., and Boggs. 2,801,764.
- Bognar, Charles J.: *See*—
- Chadowski, Joseph P., and Bognar. 2,786,884.
- Bogoslawsky, Boris, deceased; E. Bogoslawsky, executrix. Lipstick brush applicator. 2,783,489, 3-5-57, Cl. 15-140.4.
- Bogoslawsky, Elisabeth: *See*—
- Bogoslawsky, Boris. 2,783,489.
- Bogue Electric Mfg. Co.: *See*—
- Herbst, John A. 2,782,347.
- Bohac, Edward G.: *See*—
- Drapeau, Harold B., and Bohac. 2,815,173.
- Bohdal, Viktor, to Arthur Salm Inc. Pyrophoric lighter. 2,800,785, 7-30-57, Cl. 67-7.1.
- Bohenek, Steven. Wheel lifter. 2,805,882, 9-10-57, Cl. 294-15.
- Bohl, Elfriede: *See*—
- Bohl, Hermann F. 2,808,905.
- Bohl, Hermann F., deceased; E. Bohl, executrix. Speed governor. 2,808,905, 10-8-57, Cl. 188-184.
- Bohl, Victor H.: *See*—
- Berg, Vernon R., Bohl, and Mueller. 2,796,046.
- Bohlbro, Hans and K. Rishede, to Esso Research and Engineering Co. Polymerization of olefins. 2,801,273, 7-30-57, Cl. 260-283.15.
- Bohli, Hans and J. Permanent magnet chucks. 2,795,740, 6-11-57, Cl. 317-159.
- Bohli, Jakob: *See*—
- Bohli, Hans and J. 2,795,740.
- Bohlin, Nils J. G.: *See*—
- Blomgren, Roland A., and Bohlin. 2,804,165.
- Bohlman, Walter S., and J. D. Hayes, Jr., to Hercules Powder Co. Vibratory packing machine. 2,775,987, 1-1-57, Cl. 141-12.
- Bohlman, Walter S., and J. D. Hayes, Jr., to Hercules Powder Co. Vibratory packing machine. 2,795,990, 6-18-57, Cl. 86-20.
- Bohlman, Walter S., and J. D. Hayes, Jr., to Hercules Powder Co. Vibratory packing machine. 2,807,975, 10-1-57, Cl. 86-20.
- Bohlmann, Edward G.: *See*—
- Calkins, George D., and Bohlmann. 2,815,264.
- Bohlmann, Ferdinand: *See*—
- Inhoffen, Hans H., and Bohlmann. 2,809,217.
- Bohm & Co.: *See*—
- Jauss, Albert. 2,814,346.
- Böhm, Hellmuth: *See*—
- Krahl, Gottfried, and Böhm. 2,798,123.
- Böhm, Hellmuth, to Licentia Patent-Verwaltungs-G. m. b. H. Electric current pulsating means. 2,795,662, 6-11-57, Cl. 200-32.
- Bohm, Toivo J.: *See*—
- Holloway, Robert L., Bohm, Zuercher, and Strauss. 2,781,195.
- Böhmte Fettechemie G. m. b. H.: *See*—
- Blaser, Bruno, and Haas. 2,806,876.
- Blaser, Bruno, Haas, and Helberger. 2,793,229.
- Lange, Hermann, and Henkel. 2,790,764.
- Bohmer, Charles S. Threaded sheetmetal expansion sleeve and expander bolt therefor. 2,784,636, 3-12-57, Cl. 85-2.4.
- Bohn, Donald I., to Aluminum Co. of America. Rotary inverter power conversion system. 2,785,363, 3-12-57, Cl. 318-148.
- Bohn, Donald I. Magnetically lockable universal vise support. 2,796,788, 6-25-57, Cl. 81-41.
- Bohn, Glen W. Collapsible picnic table and bench assembly. 2,805,708, 9-10-57, Cl. 155-124.

- Bohnhoff, Arthur F.: *See*—
Wyson, Paul V., Jr., and Bohnhoff. 2,797,764.
- Bohnhoff, Arthur F., and D. Toschkoff, to General Motors Corp. Hydraulic rotary transmission device. 2,791,185, 5-7-57, Cl. 103—136.
- Bohnhoff, Arthur F., and P. V. Wyson, Jr., to General Motors Corp. Coupling. 2,802,354, 8-13-57, Cl. 64—29.
- Boho, Lawrence M. Support for can openers and the like. 2,778,594, 1-22-57, Cl. 248—205.
- Boice-Crane Co.: *See*—
Boice, William B., and Stump. 2,810,408.
- Boice, William B., and L. S. Stump, to Boice-Crane Co. Adjustable mounting and drive mechanism for table saws. 2,810,408, 10-22-57, Cl. 143—36.
- Boicey, James H., to Libbey-Owens-Ford Glass Co. Method of laminating plastic materials. 2,783,176, 2-26-57, Cl. 154—139.
- Boicey, James H., and R. F. Leck, to Libbey-Owens-Ford Glass Co. Apparatus for laminating glass sheets. 2,810,668, 10-22-57, Cl. 154—27.
- Boies, David B.: *See*—
Green, Jerome, and Boies. 2,815,328.
- Boinot, Firmin, to Les Usines de Melle (Societe Anonyme). Process for producing acetone and butyl alcohol. 2,778,775, 1-22-57, Cl. 195—44.
- Boisture, Worth W., to Esso Research and Engineering Co. Apparatus for separating and quenching oil products. 2,776,727, 1-8-57, Cl. 183—82.
- Boisture, Worth W., and J. F. Ross, to Esso Research and Engineering Co. Automatic control of standpipe and U-bend aeration. 2,781,234, 2-12-56, Cl. 302—66.
- Boitel, Arwed C., to Atlas-Boxmakers, Inc. Blank for packaging of books and the like. 2,778,559, 1-22-57, Cl. 229—40.
- Boitscha, Herbert E., to Bettendorf Bakery Equipment Co. Blade guiding means for band blade slicing machines. 2,809,681, 10-15-57, Cl. 143—164.
- Boiu, Max R. Sliding door hanger. 2,775,782, 1-1-57, Cl. 16—105.
- Bojner, Gustav. Rotary heat exchangers. 2,798,693, 7-9-57, Cl. 257—92.
- Bok, Edward: *See*—
Bok, Hendrik F. and E. 2,790,063.
Bok, Hendrik F. and E. 2,812,885.
- Bok, Hendrik F. and E. Vapor sprayers. 2,790,063, 4-23-57, Cl. 219—39.
- Bok, Hendrik F. and E. Pressure lubricator. 2,812,885, 11-12-57, Cl. 222—394.
- Bokorney, Fred R. Cradle support for balancing apparatus. 2,785,972, 3-19-57, Cl. 73—466.
- Bokorney, Fred R. Vertical spindle balancing machine. 2,817,972, 12-31-57, Cl. 73—471.
- Bol, Arie: *See*—
Van Oosterhout, Gerard W., and Bol. 2,776,915.
- Boland, Thomas M.: *See*—
Merrill, Roger L., Boland, and Hecox. 2,777,661.
- Bolding, Hubert V., to The Bradley & Gilbert Co. Automatic double wall carton. 2,781,160, 2-12-57, Cl. 229—41.
- Bolding, Hubert V., to The Bradley & Gilbert Co. Production of protective cartons. 2,783,692, 3-5-57, Cl. 93—49.
- Bolding, Hubert V., to Carton Associates Inc. Methods and apparatus for loading cartons. 2,796,709, 6-25-57, Cl. 53—35.
- Bolding, Richard O.: *See*—
Click, Billy J., and Bolding. 2,811,724.
- Boldebeck, Edith M.: *See*—
Hurd, Dallas T., and Boldebeck. 2,802,897.
- Bole, Robert K.: *See*—
Baller, Maurice H., Bole, and Stone. 2,794,079.
- Bolech, Enrico. Electric motor having its rotor braked when arrested. 2,793,306, 5-21-57, Cl. 310—77.
- Boles, Laurence H.: *See*—
Bird, James R., and Boles. 2,814,776.
- Boley, George L. Tool block holder. 2,812,678, 11-12-57, Cl. 82—36.
- Bolick, Henry W., Sr. Folding reed hook. 2,779,991, 2-5-57, Cl. 28—45.
- Bolidens Gruvaktiebolag: *See*—
Henriksson, Sten T. 2,786,784.
- Bolie, Victor W., to Collins Radio Co. Distributing delay line using non-linear parameters. 2,800,596, 7-23-57, Cl. 307—88.
- Bolin, Stuart R., Jr. Tracing table attachment. 2,799,088, 7-16-57, Cl. 33—20.
- Bolling, Cecil, to Dunham-Bush, Inc. Condenser for refrigeration system. 2,787,134, 4-2-57, Cl. 62—115.
- Boling, Walter H., to Dixie Sports, Inc. Neck suspended trammel for dogs. 2,790,418, 4-30-57, Cl. 119—107.
- Bolkcom, Wilbur T., and W. E. Knapp, to American Metallurgical Products Co. Master alloys containing rare earth metals. 2,810,640, 10-22-57, Cl. 75—134.
- Bolle, Earl L. Reed organ and stand. 2,796,796, 6-25-57, Cl. 84—355.
- Boller, John A.: *See*—
Jones, Alvin J., and Boller. 2,814,919.
- Boller, Oswald: *See*—
Motzet, Hans, and Böller. 2,817,258.
- Bolles, James C., R. M. Matthews, and F. E. Bobo, Jr., to Chadbourn Gotham, Inc. Ladies' full-fashioned hose having a non-bulky seam. 2,806,367, 9-17-57, Cl. 66—178.
- Bolleter, Albert: *See*—
Moser, Eduard, Bolleter, and Wittwer. 2,781,337.
Moser, Eduard, Bolleter, and Wittwer. 2,781,338.
- Bolliger, Hans, to Ciba Limited. New monoazo-dyestuffs. 2,799,673, 7-16-57, Cl. 260—163.
- Bolliger, Hans R., to Ciba Limited. New azo dyestuffs. 2,799,672, 7-16-57, Cl. 260—162.
- Bollin, Herman R. Three dimensional pictures. 2,777,231, 1-15-57, Cl. 40—126.
- Bolling, Thomas J., Jr., to Esso Research and Engineering Co. Valve with pressure sealing device. 2,778,598, 1-22-57, Cl. 251—63.
- Bollinger, Loren C.: *See*—
Woods, Harold A., and Bollinger. 2,813,828.
Woods, Harold A., and Bollinger. 2,813,829.
- Bollinger, Waldon P.: *See*—
Korman, Nathaniel I., and Bollinger. 2,797,410.
- Bollmeier, Emil W., to Minnesota Mining & Mfg. Co. Wire connector. 2,792,560, 5-14-57, Cl. 339—67.
- Bollmeier, Emil W., to Minnesota Mining & Mfg. Co. Tape dispensing and applying device. 2,805,764, 9-10-57, Cl. 164—47.
- Bolme, Ole M.: *See*—
Hickey, Merrill H., and Bolme. 2,780,368.
- Bolmeyer, James W., and J. A. Newnam, to E. I. du Pont de Nemours and Co. Fiber treatment. 2,805,464, 9-10-57, Cl. 28—76.
- Bologna, Ciro L., and W. Banta. Toy loom. 2,783,777, 3-5-57, Cl. 139—29.
- Bolsey, Jacques. Reflectors for photograph apparatus and the like. 2,806,135, 9-10-57, Cl. 240—103.
- Bolson, Harry B., to General Electric Co. Encapsulating and coating composition and products treated therewith. 2,809,952, 10-15-57, Cl. 260—40.
- Bolster, Richard D., to Atlas Plywood Corp. Attachment for stapling machines. 2,797,414, 7-2-57, Cl. 1—49.
- Bolster, Ronald H., and R. Lapsley, to Clark Equipment Co. 2,814,371, 11-26-57, Cl. 192—13.
- Bolt, Harry C. Collapsible habitable structure. 2,780,844, 2-12-57, Cl. 20—2.
- Bolt, Reggie M. Portable mortar and concrete mixer and elevator. 2,815,195, 12-3-57, Cl. 259—160.
- Bolt, Robert O.: *See*—
Abbott, Andrew D., and Bolt. 2,776,307.
- Bolte, Frank B.: *See*—
Bachman, Eugene, Bolte, and Hicks. 2,794,889.
- Bolton, James F. Aeration apparatus. 2,802,647, 8-13-57, Cl. 259—8.
- Bolton, John W., & Sons, Inc.: *See*—
Cowles, Edwin. 2,776,765.
Prevost, Bruno E. 2,778,663.
Prevost, Bruno E. 2,798,611.
Stuck, Harold D. 2,802,317.
- Bolton, Michael J., and A. F. Torrisi, to General Electric Co. Method of making capacitor electrodes. 2,785,116, 3-12-57, Cl. 204—37.
- Bolz, Karl: *See*—
Leb, Anton, Lidl, Gager, Muntean, Schauenstein, Keintzel, and Bolz. 2,801,203.
- Bolzmann, Hans, to Electroacustic Gesellschaft mit beschränkter Haftung. Echo sounding apparatus. 2,788,509, 4-9-57, Cl. 340—3.
- Bolzoni, Ernesto, to E. Ceretti. Rotatable disc telephone index. 2,786,290, 3-26-57, Cl. 40—104.
- Bomac Laboratories Inc.: *See*—
Alexander, Herbert C., and Burr. 2,789,272.
Booth, Harold C. 2,801,392.
Braden, Ray S. 2,777,993.
Braden, Ray S. 2,816,272.
Caithness, William. 2,798,186.
Carter, George E., Jr. 2,806,977.
Duffy, John M. 2,812,504.
Heins, Harold. 2,791,715.
Lesch, Ferdinand. 2,791,720.
McCarthy, Henry J. 2,783,414.
McCarthy, Henry J. 2,801,147.
- Bombrini, Parodi Delfino S. p. A.: *See*—
Migliaccio, Etereo. 2,780,995.
- Bomford & Evershed Ltd.: *See*—
Pilkington, Harold O. S., and Bloomfield. 2,794,273.
- Bon, Charles K., M. P. Neipert, and N. L. Piegols, to The Dow Chemical Co. Removing suspended solids from aqueous liquids. 2,780,360, 2-5-57, Cl. 210—51.
- Bonade, Daniel. Ligatures for clarinets or the like. 2,791,929, 5-14-57, Cl. 84—383.
- Bonafide Mills, Inc.: *See*—
Rowe, William. 2,775,994.
- Bonanni, Monena C. Bed patient's gown. 2,807,022, 9-24-57, Cl. 2—114.
- Bonanno, Joseph L., to The Lionel Corp. Coaling stations for toy railroads. 2,799,119, 7-16-57, Cl. 46—40.
- Bonari, Lawrence P., and A. Vick, 1/2 to C. J. Trabing. Educational game device. 2,805,069, 9-3-57, Cl. 273—135.
- Bonas Bros. Weavematic Looms (England) Ltd.: *See*—
Silberman, David, Dellaquila, and Ulrich. 2,800,927.
- Bonatz, Richard T., to Westinghouse Electric Corp. Electrostatic precipitators. 2,780,305, 2-5-57, Cl. 183—7.
- Bond, Donald C., to The Pure Oil Co. Increasing production rates of gas and oil wells. 2,796,935, 6-25-57, Cl. 166—39.

- Bond, Donald C., to The Pure Oil Co. Increasing effective permeability of rock around a well bore. 2,801,698, 8-6-57, Cl. 166-22.
- Bond, Donald C., and A. T. Sayre, Jr., to The Pure Oil Co. Treatment of siliceous geological formations with fluo-phosphoric acid. 2,785,752, 3-19-57, Cl. 166-42.
- Bond, Donald C., and G. G. Bernard, to The Pure Oil Co. Process for reducing scale deposition in gas-lift wells. 2,809,698, 10-15-57, Cl. 166-8.
- Bond, Donald H., to The Texas Pipe Line Co. Pipe spacing device. 2,782,804, 2-26-57, Cl. 138-65.
- Bond, George R., Jr., to Houdry Process Corp. Gas-liquid contacting system. 2,776,820, 1-8-57, Cl. 261-21.
- Bond, George R., Jr., to Houdry Process Corp. Preparation of carbon black. 2,800,395, 7-23-57, Cl. 23-209.5.
- Bond, Inc.: *See*—
- Bond, John J. and R. J. 2,788,845.
- Bond, John J. and R. J., to Bond, Inc. Chair bottoms. 2,788,845, 4-16-57, Cl. 155-179.
- Bond, Robert D., to Douglas Machine Products Co. Spreader for lawns and small gardens. 2,817,460, 12-24-57, Cl. 222-177.
- Bond, Robert J.: *See*—
- Bond, John J. and R. J. 2,788,845.
- Bonderer, Charles F. Golf ball holder. 2,780,508, 2-5-57, Cl. 312-49.
- Bondi, Arnold A.: *See*—
- Peterson, Walter H., and Bondi. 2,782,165.
- Bondi, Arnold A., U. N. Borsoff, and G. L. Perry, to Shell Development Co. Extreme pressure lubricant. 2,788,326, 4-9-57, Cl. 252-56.
- Bondi, Arnold A., and H. Diamond, to Shell Development Co. Lubricating compositions. 2,800,450, 7-23-57, Cl. 252-32.7.
- Bondi, Arnold A., and H. A. Newey, to Shell Development Co. Stabilized hydrocarbon compositions. 2,800,452, 7-23-57, Cl. 252-51.5.
- Bondi, Arnold A., and L. B. Scott, to Shell Development Co. Liquid hydrocarbon compositions. 2,800,453, 7-23-57, Cl. 252-51.5.
- Bondley, Ralph J., and W. H. Teare, to General Electric Co. Removable seal and mechanical joint. 2,792,241, 5-14-57, Cl. 285-286.
- Bondor, Frank S., and E. H. Lebeis, Jr., to Houdry Process Corp. Extractive distillation of aromatics. 2,776,936, 1-8-57, Cl. 202-39.5.
- Bondurant, Carlton W., and G. W. Gravenstone, to Standard-Thomson Corp. Ventilator assembly. 2,811,349, 10-29-57, Cl. 268-104.
- Bone, Herbert L., to Westinghouse Air Brake Co. Vehicle weight responsive means. 2,779,583, 1-29-57, Cl. 265-27.
- Bone, Herbert L., to Westinghouse Air Brake Co. Railway switch operating apparatus. 2,811,635, 10-29-57, Cl. 246-242.
- Bone, Herbert L., and G. V. Jefferson, to Westinghouse Air Brake Co. Driving bracket for point detector mechanisms. 2,786,939, 3-26-57, Cl. 246-253.
- Bone, James F.: *See*—
- Goerner, Joseph K., and Bone. 2,790,007.
- Bonebrake, Gay M., to Wm. Wrigley, Jr., Co. Apparatus for removing slabs from a stack and converting the slabs to smaller pieces. 2,807,390, 9-24-57, Cl. 221-236.
- Bonell, Frans T. B., to Aktiebolaget Chematour. Pulpink of nitrocellulose and the like. 2,787,940, 4-9-57, Cl. 92-20.
- Bonewitz, Paul W., G. S. Edwards, E. H. Fuits, and S. W. Hockett. Process of making particles of caustic soda and caustic potash impregnated with gluconic acid. 2,804,432, 8-27-57, Cl. 252-156.
- Boni, Frank, Jr., to The Griscum-Russell Co. Head closure construction for heat exchangers. 2,818,193, 12-31-57, Cl. 220-40.
- Boni, Frank, Jr., P. S. Otten, and C. J. Wilson, to The Griscum-Russell Co. Heat exchanger head thermal shield construction. 2,814,415, 11-26-57, Cl. 220-68.
- Boni, Frank, Jr., and K. A. Gardner, to The Griscum-Russell Co. Head closure construction for vertical heat exchangers. 2,818,197, 12-31-57, Cl. 220-67.
- Bonjokian, Joseph. Hat steaming and blocking machine. 2,817,466, 12-24-57, Cl. 223-14.
- Bonkowski, Teofil L. Demountable brake lining. 2,791,299, 5-7-57, Cl. 188-234.
- Bonkowski, Teofil L. Interlocking demountable brake lining. 2,791,300, 5-7-57, Cl. 188-234.
- Bonn, Mathias, and J. Hammerschlag, to Firma F. Soennecken. Letter filing mechanisms. 2,789,561, 4-23-57, Cl. 129-11.
- Bonn, Theodore H.: *See*—
- Eckert, John P., Jr., and Bonn. 2,801,345.
- Spencer, Richard W., and Bonn. 2,812,449.
- Bonn, Theodore H., to Sperry Rand Corp. Frequency controlled transistor oscillator. 2,783,380, 2-26-57, Cl. 250-36.
- Bonn, Theodore H., to Sperry Rand Corp. Electrical circuit with two stable states. 2,813,207, 11-12-57, Cl. 307-88.
- Bonn, Theodore H., to Sperry Rand Corp. Variable delay line. 2,814,793, 11-26-57, Cl. 340-174.
- Bonn, Theodore H., J. P. Eckert, Jr., and R. P. Talambiras, to Sperry Rand Corp. Magnetic amplifier and flip-flop circuit embodying the same. 2,798,168, 7-2-57, Cl. 307-88.
- Bonn, Robert P., to Westinghouse Electric Corp. Press control. 2,802,153, 8-6-57, Cl. 317-123.
- Bonn, Robert P., and R. W. Egglestone, to Westinghouse Electric Corp. Press control. 2,802,154, 8-6-57, Cl. 317-123.
- Bonnafé, Oliver W., to The Lapointe Machine Tool Co. Work carrier conveyor. 2,789,686, 4-23-57, Cl. 198-189.
- Bonnafé, Oliver W., to The Lapointe Machine Tool Co. Work-holding fixture for machine tool. 2,813,462, 11-19-57, Cl. 90-33.
- Bonnaïous, Maurice, to Socapex-Ponsot. Telephone ear-piece. 2,790,038, 4-23-57, Cl. 179-182.
- Bonnaïous, Paul. Method of forming edible dust-free particles. 2,786,760, 3-26-57, Cl. 99-2.
- Bonnar-Vawter, Inc.: *See*—
- Richards, Augustus J. 2,779,411.
- Richards, Augustus J. 2,799,498.
- Bonnaud, Henri, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Method for obtaining krypton and xenon. 2,793,511, 5-28-57, Cl. 62-175.5.
- Bonneau, Joseph C., and C. E. Malchiodi. Adjustable torque tool. 2,797,564, 7-2-57, Cl. 64-29.
- Bonnel, Henri A. Plow liftable for transport. 2,788,727, 4-16-57, Cl. 97-47.25.
- Bonnell, Charles R., to Cedar Engineering, Inc. Servomotor system. 2,805,373, 9-3-57, Cl. 318-28.
- Bonnell, Charles R., to Minneapolis-Honeywell Regulator Co. Vertical reference and acceleration apparatus. 2,811,043, 10-29-57, Cl. 74-5.34.
- Bonnell, James M., to Minute Maid Corp. Process for treating citrus pulp. 2,810,649, 10-22-57, Cl. 99-2.
- Bonner, Arthur L., to Bell Telephone Laboratories, Inc. Coaxial switching arrangement for two way amplifiers. 2,811,589, 10-29-57, Cl. 179-170.
- Bonner, Edwin K., Jr., to S. L. Allen & Co., Inc. Reel type mower hitch. 2,796,719, 6-25-57, Cl. 56-249.
- Bonner, Louis F., to Esso Research and Engineering Co. Apparatus for conditioning hot wire gas detectors. 2,801,905, 8-6-57, Cl. 23-255.
- Bonner, Lyman G., to Hercules Powder Co. Closure device. 2,776,623, 1-8-57, Cl. 102-49.
- Bonner, Vern G. Wrench with segmental work engaging portions. 2,801,561, 8-6-57, Cl. 81-90.
- Bonner, Williams A.: *See*—
- Skei, Thurston, and Bonner. 2,780,583.
- Bonnett, Mitchell E., to the United States of America as represented by the Secretary of the Army. Lightweight repeating rocket launcher. 2,801,572, 8-6-57, Cl. 89-1.7.
- Bonney, Elwyn F.: *See*—
- Yukon, Edward H., and Bonney. 2,814,829.
- Bonney, George W. Purifying and lint removing method and apparatus for cleaning solutions. 2,807,948, 10-1-57, Cl. 68-13.
- Bono, Luigi, to Vittorio Necchi Societa per Azioni. Thread filler for sewing machine. 2,784,917, 3-12-57, Cl. 242-22.
- Bono, Luigi, to Vittorio Necchi Societa per Azioni. Cloth pressing device for sewing machines. 2,811,124, 10-29-57, Cl. 112-235.
- Bono, Luigi, to Vittorio Necchi Societa per Azioni. Supporting device for the belt of sewing machines. 2,816,807, 12-17-57, Cl. 312-30.
- Bonquet, John W., to Diamond Machine Tool Co. Air clutch. 2,806,567, 9-17-57, Cl. 192-85.
- Bonser, Stanley W. Water sprinkler for lawns, gardens, truck farms and golf courses, and the like. 2,778,680, 1-22-57, Cl. 299-63.
- Bonsteel, Donald H., and C. C. Starbeck, to North American Aviation, Inc. Aircraft trim control. 2,801,060, 7-30-57, Cl. 244-83.
- Bonza, Louis F., and M. W. Mueller, to Lockheed Aircraft Corp. Protected aircraft enclosures. 2,784,926, 3-12-57, Cl. 244-129.
- Boode, Carl N., to Bourns Laboratories, Inc. Resistor calibrating servosystem. 2,796,567, 6-18-57, Cl. 318-29.
- Boodman, Norman S., and C. F. Fryling, to Koppers Co., Inc. Process for the preparation of hydroperoxides from diisopropylbenzenes. 2,805,258, 9-3-57, Cl. 260-610.
- Booe, James M., to P. R. Mallory & Co., Inc. Tantalum electrolytic capacitors with solid depolarizer. 2,778,979, 1-22-57, Cl. 317-230.
- Boogaard, Matthijs, to Dorr-Oliver Inc. Method and apparatus for the separation of solids from liquid-solid mixtures. 2,799,394, 7-16-57, Cl. 210-73.
- Book, Herbert W., to Westinghouse Electric Corp. Transformer overload indicators. 2,795,779, 6-11-57, Cl. 340-248.
- Booker, Wayne E. Cattle carrying attachment for trucks. 2,801,130, 7-30-57, Cl. 296-12.
- Bookidis, Charles E. Candy-making machine. 2,782,754, 2-26-57, Cl. 118-13.
- Boorman, Harry S., to Wall Wire Products Co. Apparatus for making heat exchangers. 2,796,037, 6-18-57, Cl. 113-99.
- Bookstein, Morris: *See*—
- Ortega, Hugh R. 2,777,100.
- Bookwalter, William H. 50% to M. von Radics. Reverse alarm. 2,807,229, 9-24-57, Cl. 116-35.
- Boom, Aaron. Loading chute for trucks. 2,779,489, 1-29-57, Cl. 214-85.
- Boone, Albert J. Battery cable clamp. 2,815,496, 12-3-57, Cl. 339-237.

- Boone, Harris D., M. O. Howell, and R. E. Barry, said Boone and said Barry assors. to the United States of America as represented by the Secretary of the Army. Filter and gas mask canister employing same. 2,787,333, 4-2-57, Cl. 183-4.3.
- Boone, Ronald E., and C. H. Aldrich, $\frac{1}{2}$ to W. E. Beattie, and $\frac{1}{2}$ to J. H. Vanvorthees. Fluid pressure controlled gear brakes. 2,786,553, 3-26-57, Cl. 188-92.
- Boonton Molding Co.: See—
Davidson, Frederick K. 2,807,850.
- Booth, Albert B.: See—
Bain, Joseph P., Booth, and Klein. 2,803,647.
Bain, Joseph P., Klein, Hunt, and Booth. 2,818,435.
- Booth, Albert B., and E. A. Klein, to The Glidden Co. Preparation of carvone. 2,796,428, 6-18-57, Cl. 260-489.
- Booth, Albert B., and E. A. Klein, to The Glidden Co. Treatment of α -pinene oxide. 2,803,659, 8-20-57, Cl. 260-587.
- Booth, Albert B., and E. A. Klein, to The Glidden Co. Conversion of 1,8-p-menthadene-3-ol to acyclic compounds. 2,815,383, 12-3-57, Cl. 260-601.
- Booth, Emery C., assor. of a joint interest to O. M. Booth. Trap box for vehicle change holder. 2,777,568, 1-15-57, Cl. 206-81.
- Booth, Galt B., to Textron Inc. Vibration pickup. 2,798,972, 7-9-57, Cl. 310-27.
- Booth, Galt B., W. G. Brown, and K. Unholtz, to Textron American, Inc. Electromagnetic vibration exciter. 2,781,461, 2-12-57, Cl. 310-27.
- Booth, George M., to Wallace & Tiernan Co., Inc. Variable driving mechanism. 2,804,778, 9-3-57, Cl. 74-125.5.
- Booth, Harold C., to Bomac Laboratories Inc. Microwave switching and attenuator device. 2,801,392, 7-30-57, Cl. 333-13.
- Booth, Harry T., to United Aircraft Products Inc. Sealing construction. Re. 24,329, 6-18-57, Cl. 220-46.
- Booth, Harry T., to United Aircraft Products, Inc. Fuel supply system and valve therefor. 2,817,396, 12-24-57, Cl. 158-36.3.
- Booth, James H., to Thompson Products, Inc. Stamped metal ball joint wheel suspension. 2,797,930, 7-2-57, Cl. 280-96.2.
- Booth, James H., to Thompson Products, Inc. Joint assembly. 2,809,855, 10-15-57, Cl. 287-90.
- Booth, John G., to Minneapolis-Honeywell Regulator Co. Indicating instrument. 2,784,601, 3-12-57, Cl. 74-96.
- Booth, John G., R. C. Du Bois, and C. E. West, to Minneapolis-Honeywell Regulator Co. Differential pressure measuring apparatus. 2,808,725, 10-8-57, Cl. 73-406.
- Booth, John G., W. F. Newbold, and R. C. Whitehead, Jr., to Minneapolis-Honeywell Regulator Co. Differential pressure operated measuring instrument. 2,814,312, 11-26-57, Cl. 137-790.
- Booth, Olga M.: See—
Booth, Emery C. 2,777,568.
- Booth, Peter H.: See—
Allan, Alexander J., and Booth. 2,812,418.
- Booth, Richard H.: See—
Spencer, Rolf E., and Booth. 2,781,967.
- Booth, Robert B., and J. M. Dodson, to American Cyanamid Co. Clarification of black foundry waste waters. 2,784,468, 3-12-57, Cl. 22-217.
- Booth, Robert B., and D. E. Ailman, to American Cyanamid Co. Alkyl esters of alkyl xanthates. 2,808,931, 10-8-57, Cl. 209-166.
- Booth, Russell N., to Minneapolis-Honeywell Regulator Co. Control device. 2,790,044, 4-23-57, Cl. 200-83.
- Booth, Sheldon M. Applicator for applying a diamond filled paste to a working surface. 2,775,851, 1-1-57, Cl. 51-1.
- Booth, William K., to Capitol Products Corp. Method of cooling and conditioning bread. 2,783,545, 3-5-57, Cl. 34-20.
- Booth, William M., to Gardner-Denver Co. Torque measuring means. 2,795,131, 6-11-57, Cl. 73-1.
- Boothby, Otis L., and D. H. Wenny, Jr., to Bell Telephone Laboratories, Inc. Preparation of MnBi bodies. 2,804,415, 8-27-57, Cl. 148-103.
- Boothe, Willis A., to General Electric Co. Fluid pressure amplifier. 2,787,253, 4-2-57, Cl. 121-41.
- Boots, Norman J.: See—
Brush, Abbott H. 2,785,726.
- Boots Pure Drug Co., Ltd.: See—
Leiper, John W. G., and Watkins. 2,814,583.
- Boots, William C., to Foster Metal Products Inc. Expandable bracelet with detachable slot and stud connection. 2,775,862, 1-1-57, Cl. 59-79.
- Boots, William C., to Foster Metal Products Inc. Cuff link or the like. 2,798,272, 7-9-57, Cl. 24-97.
- Boots, William C., to Foster Metal Products Inc. Billfold. 2,816,590, 12-17-57, Cl. 150-38.
- Booty, Philip C., Jr., to International Harvester Co. Label applying machine. 2,818,190, 12-31-57, Cl. 216-25.
- Booty, Philip C., Jr., T. R. Brink, and J. T. Longdon, to International Harvester Co. Greasing machine for bearings or the like. 2,818,044, 12-31-57, Cl. 118-426.
- Bopf, Edward C., to Deere Mfg. Co. Hitch control means for vehicles or implements. 2,809,573, 10-15-57, Cl. 97-46.27.
- Borah, John E. Container spout and gasket combination. 2,804,242, 8-27-57, Cl. 222-478.
- Boraks, Max G., to Mr. Boston Distiller Inc. Method of clarifying whiskey. 2,787,547, 4-2-57, Cl. 99-48.
- Borås Wärfveri Aktiebolag: See—
Christiansson, Stig E. O. 2,798,356.
- Borch, Niels S., to F. L. Smidth & Co. Rotary kiln with integral cooler. 2,785,115, 3-12-57, Cl. 202-95.
- Borchardt, Bert. Drilling fluid composition and method. 2,799,647, 7-16-57, Cl. 252-8.5.
- Borchardt, Walter O., to M. J. Johnson Aircraft Engineering Co. Safety locked control handle with override. 2,793,541, 5-28-57, Cl. 74-528.
- Borchers, Earl M., and A. W. Ahlgren, to Amerock Corp. Door latch. 2,782,061, 2-19-57, Cl. 292-169.
- Borchers, Heinz: See—
Clostermann, Klaus, and Borchers. 2,791,619.
- Borchers, William F. Roadway barrier. 2,793,003, 5-21-57, Cl. 256-64.
- Borbé, Erich, and J. Rosenberger; said Rosenberger assor. to said E. Borbé. Hoop iron tightening and clamping device. 2,813,441, 11-19-57, Cl. 81-9.1.
- Bordeaux, Robert D., to Globe Roofing Products Co., Inc. Multiple tab square butt shingle. 2,801,599, 8-6-57, Cl. 108-7.
- Bordeau, Lawrence J., to General Dynamics Corp. Propeller pitch reversing control switch. 2,786,916, 3-26-57, Cl. 200-87.
- Borden, Albert R., and I. J. Axelsen. Can attachment for removing filler plugs. 2,791,140, 5-7-57, Cl. 81-3.1.
- Borden, Charles L.: See—
Bach, Oscar B. 2,809,901.
- Borden Co., The: See—
Dean, Robert B. 2,810,655.
Erekson, Arthur B. 2,793,122.
Erekson, Arthur B. 2,805,950.
Erekson, Arthur B. 2,811,455.
Long, Donald R. 2,810,710.
Salzberg, Harold K. 2,813,940.
Wentzien, John H., Brickner, and Acanfora. 2,784,776.
Zweig, Samuel. 2,788,287.
- Borden, David M.: See—
Huebner, George J., Jr., Williams, and Borden. 2,795,928.
- Borden, Joseph H., to Houghton Elevator Co. Automatic elevator current operated bypass control. 2,779,439, 1-29-57, Cl. 187-29.
- Borden, Joseph H., to Houghton Elevator Co. Fly ball governor cable clamp. 2,811,228, 10-29-57, Cl. 188-189.
- Borden, Joseph H., to Houghton Elevator Co. Elevator call measuring apparatus. 2,814,027, 11-19-57, Cl. 340-19.
- Borden, Philip H., to Central Industrial Corp. Safety razor. 2,780,866, 2-12-56, Cl. 30-60.5.
- Borden, Ruth O. Non-clogging surgical aspirator. 2,804,075, 8-27-57, Cl. 128-277.
- Bordena, Carl, to Newport Industries, Inc. Method of converting aldehydes into acids. 2,784,221, 3-5-57, Cl. 260-514.
- Bordena, Carl, to Newport Industries, Inc. Method of producing dimethylnonanal. 2,790,006, 4-23-57, Cl. 260-604.
- Borders, Charles R.: See—
Havens, Byron L., and Borders. 2,782,305.
- Bordewieck, Robert W., and V. F. Sepavich, to Crompton & Knowles Loom Works. Electric protection for looms. 2,781,794, 2-19-57, Cl. 139-341.
- Bordonaro, Vincent. Grinding wheel dresser. 2,815,017, 12-3-57, Cl. 125-11.
- Borel, Edouard V., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain. Connecting device for heating body. 2,796,592, 6-18-57, Cl. 339-109.
- Borell, George L., to Economics Laboratory, Inc. Relay and control system. 2,817,806, 12-24-57, Cl. 323-2.
- Boren, William M., to Rolo Mfg. Co. Pipe line sampler. 2,794,344, 6-4-57, Cl. 73-422.
- Borer, Alfred, to T. C. Wheaton Co. Apparatus for making hollow articles of thermoplastic material. 2,789,312, 4-23-57, Cl. 18-5.
- Borer, William J.: See—
Lhotak, Lumir J., and Borer. 2,807,872.
- Bores, Kazmer J., and E. L. Chamberlain, to United States Steel Corp. Rolling mill repeater. 2,815,691, 12-10-57, Cl. 80-52.
- Boretti, Napoleon P., to General Motors Corp. Sediment discharge valve. 2,800,916, 7-30-57, Cl. 137-204.
- Boretti, Napoleon P., to General Motors Corp. Seat spring attachment. 2,810,431, 10-22-57, Cl. 155-179.
- Borey, Daniel S.: See—
Spitz, Peter H., and Borey. 2,776,799.
- Borey, Daniel S., to Esso Research and Engineering Co. Apparatus for preventing secondary reaction in solid contact processes. 2,799,354, 7-16-57, Cl. 183-32.
- Borg, Arthur C.: See—
Brunstrum, Lawrence C., and Borg. 2,782,630.
Brunstrum, Lawrence C., and Borg. 2,794,339.
- Borg, Edward M. Method for canning evaporated and fresh milk. 2,776,213, 1-1-57, Cl. 99-54.
- Borg, George W., Corp., The: See—
Bartovics, Albert, and Kinzinger. 2,815,558.
Van Allen, De Witt T. 2,813,182.
- Borg, Paul E.: See—
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- Borg-Warner Corp.: See—
 Albertson, Clarence E. 2,785,541.
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 Gerhardt, Andrew H., and Frey. 2,807,951.
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 Hatch, Albert M., and Wood. 2,800,296.
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- Borgardt, Henry: See—
 Rudnik, Raymond G., Miller, and Borgardt. 2,781,272.
- Borgen, Daniel R.: See—
 Anthony, Paul Z., Borgen, and Ginger. 2,803,654.
- Borger, James C., to Lockheed Aircraft Corp. Bearing retaining means. 2,814,539, 11-26-57, Cl. 308-178.
- Borges, Florentino. Apparatus for treating cereals. 2,799,299, 7-16-57, Cl. 141-69.
- Borges, Frank R., Jr., to Deering Milliken Research Corp. Two-for-one twisting apparatus. 2,795,924, 6-18-57, Cl. 57-58,86.
- Borges, Walter F. Snow fence. 2,803,437, 8-20-57, Cl. 256-12,5.
- Borgeson, Paul W.: See—
 Hinkley, Robert H., and Borgeson. 2,790,077.
- Borgfeldt, Robert R. Handle construction. 2,782,974, 2-26-57, Cl. 224-45.
- Borglin, Rudolph: See—
 Flint, Ralph D., and Borglin. 2,785,871.
- Borgman, Arthur C., and E. V. Holahan, to The Patent Scaffolding Co., Inc. Platform brackets for sectional scaffolds. 2,803,503, 8-20-57, Cl. 304-30.
- Borgström, Göte I., to Aktiebolaget Urfabriken. Fish bait. 2,776,517, 1-8-57, Cl. 43-42,22.
- Borie, Henry P., Jr. Measuring and dispensing device. 2,784,884, 3-12-57, Cl. 222-336.
- Borisof, Bernard, 1/2 to A. Friedman. Method and apparatus for photographic composing. 2,780,151, 2-5-57, Cl. 95-4,5.
- Borkan, Harold, and P. K. Weimer, to Radio Corp. of America. Color pick-up tube color strip cross-talk compensation. 2,789,157, 4-16-57, Cl. 178-5,4.
- Borkland, Gustave W. Means for making lamp shade. 2,797,439, 7-2-57, Cl. 18-35.
- Borkowski, Casimer J., and F. M. Porter, to the United States of America as represented by the United States Atomic Energy Commission. Electrostatic pulse analyzer system. 2,778,949, 1-22-57, Cl. 250-83,3.
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- Borland, William H.: See—
 Bryant, Louis D. 2,780,031.
- Borley, Oliver F. H.: See—
 Hodge, James, and Borley. 2,811,302.
- Borman Engineering, Inc.: See—
 Spiro, Irving J., and Marlow. 2,777,940.
- Borman, Philip K., to General Electric Co. Method of manufacturing composite sink tops. 2,779,997, 2-5-57, Cl. 29-45,8.
- Borman, Philip K., to General Electric Co. Waste disposal apparatus. 2,801,803, 8-6-57, Cl. 241-46.
- Born, Harold J., to Phillips Petroleum Co. Scraped surface chiller. 2,809,815, 10-15-57, Cl. 259-109.
- Born, William F.: See—
 Dyer, Lloyd W., and Born. 2,780,788.
- Bornemann, Paul R., and L. V. Klaybor, to Allegheny Ludlum Steel Corp. Graphitic high carbon-high vanadium steels. 2,781,284, 2-12-57, Cl. 148-31.
- Bornemann, William, to Eastman Kodak Co. Apparatus for severing strip material into discrete elements and sorting and stacking said elements. 2,797,753, 7-2-57, Cl. 164-49.
- Bornemann, William, to Eastman Kodak Co. Apparatus for broaching die apertures in a rotary film perforator. 2,797,754, 7-2-57, Cl. 164-99.
- Bornemann, William, to Eastman Kodak Co. Apparatus for inserting and withdrawing discrete elements into and from an open end receptacle. 2,811,352, 10-29-57, Cl. 271-5.
- Borner, Carl H., to The Nylok Corp. Apparatus for manufacturing locking devices. 2,779,039, 1-29-57, Cl. 10-72.
- Borner, Christian, to American Enka Corp. Slippage reducing pulley. 2,802,366, 8-13-57, Cl. 74-230,5.
- Borngesser, Otto J., to North American Aviation, Inc. Pressure interlocked-quick release valve. 2,793,620, 5-28-57, Cl. 121-38.
- Bornstein, Henry, to E. B. C. Ltd. Mattresses. 2,788,533, 4-16-57, Cl. 5-344.
- Bornstein, Leopold F. Thermosetting amine-aldehyde molding compositions. 2,810,700, 10-22-57, Cl. 260-17,3.
- Borntraeger, Jane. Surgical arm sling. 2,796,862, 6-25-57, Cl. 128-94.
- Bornzin, James H.: See—
 Kriegbaum, George M., Bornzin, and Bardwell. 2,796,825.
- Bornzin, James H., to International Harvester Co. Trip mechanism for hay balers insuring relative uniform length bales. 2,790,336, 4-30-57, Cl. 74-665.
- Bornzin, James H., U. G. Currier, J. M. Francis and G. O. Tufts, to International Harvester Co. Hay pushing attachment for balers. 2,787,949, 4-9-57, Cl. 100-142.
- Bornzin, James H., U. G. Currier, and W. A. Reibell, to International Harvester Co. Hold down member for a material feeding platform. 2,800,996, 7-30-57, Cl. 198-213.
- Borolite Corp.: See—
 Glaser, Frank W. 2,807,075.
 Glaser, Frank W. 2,807,076.
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- Boron, Eugene F., E. W. Yost, R. M. Scriver, and W. H. Gorga, to Mallory-Sharon Titanium Corp. Electrode holder construction. 2,789,151, 4-16-57, Cl. 13-15.
- Boron, Eugene F., and W. H. Gorga, to Mallory-Sharon Titanium Corp. Consumable electrode arc furnace construction and operation. 2,798,107, 7-2-57, Cl. 13-13.
- Boron, Eugene F., E. W. Yost, R. M. Scriver, and W. H. Gorga, to Mallory-Sharon Titanium Corp. Electrode holder construction. 2,805,270, 9-3-57, Cl. 13-15.
- Boronow, Paul, and W. C. Nothohm, to Valley Iron Works. Secondary headbox. 2,782,692, 2-26-57, Cl. 92-39.
- Borrell, George L., to Economics Laboratory, Inc. Compensated relay and control system. 2,784,394, 3-5-57, Cl. 340-213.
- Borrow, Charles J. Pan forming apparatus. 2,786,509, 3-26-57, Cl. 153-17.
- Borrow, Edgar W. Rotating cutting reel type forage harvester. 2,811,004, 10-29-57, Cl. 56-24.
- Borrowdale, Orville J. Means for vibrating and agitating material carried in cells of an elevator-conveyor. 2,788,118, 4-9-57, Cl. 198-211.
- Borrowdale, Orville J. Movable blade type elevator conveyor. 2,792,925, 5-21-57, Cl. 198-167.
- Borrowdale, Orville J. Elevator-conveyor mechanism having cam operated laterally movable blades. 2,792,926, 5-21-57, Cl. 198-167.
- Borrowdale, Orville J. Elevator-conveyor having radially movable baffling blades. 2,793,316, 6-11-57, Cl. 198-167.
- Borrowdale, Orville J. Elevator-conveyor having cam operated baffle blades. 2,795,317, 6-11-57, Cl. 198-167.
- Borrowdale, Orville J. Multiple elevator conveyor employing radially movable projections. 2,796,970, 6-25-57, Cl. 198-102.
- Borrowdale, Orville J. Multiple stage elevator-conveyor employing laterally movable projecting members. 2,796,971, 6-25-57, Cl. 198-102.
- Borrowdale, Orville J. Freely swinging rotating antibridging device for bulk material. 2,803,445, 8-20-57, Cl. 262-13.
- Borrowdale, Orville J. Device for facilitating the unloading of hoppers. 2,815,134, 12-3-57, Cl. 214-17.
- Borsoff, Victor N.: See—
 Bondi, Arnold A., Borsoff, and Perry. 2,788,326.
 Williams, Paul H., Scott, and Borsoff. 2,780,597.
- Borsos, Joseph. Magnetic toy globe. 2,801,496, 8-6-57, Cl. 46-240.
- Borst, Wilbur R., to American Cyanamid Co. Repository vegetable oil, ethyl cellulose, tetracycline-type antibiotic composition. 2,796,381, 6-18-57, Cl. 167-82.
- Bortfeldt, Jürgen, to K. Arnold & Co. Captive toy airplane. 2,795,895, 6-18-57, Cl. 46-77.

- Bortnick, Newman M., to Rohm & Haas Co. Dimethylhaloformylcyclopentanones. 2,787,641, 4-2-57, Cl. 260-544.
- Bortnick, Newman M., and G. E. Gantert, to Rohm & Haas Co. Method for the preparation of methyl β -cyanoisobutyrate. 2,810,742, 10-22-57, Cl. 260-465.4.
- Bortnick, Newman M., to Rohm & Haas Co. N,N'-disubstituted monoureas. 2,817,684, 12-24-57, Cl. 260-553.
- Borunsky, Jules, to Polymer Corp. Ltd. Chlorosulfonation of polyisobutylene. 2,814,609, 11-26-57, Cl. 260-79.3.
- Borushko, Michael J., to Harding Chemical Corp. Method for applying a protective coating to articles. 2,783,165, 2-26-57, Cl. 117-113.
- Borutze, Irvin W.: *See*—
- Runde, Byron A., Borutze, and Mathamel. 2,812,902.
- Bos, John R., and E. B. Shulters, to Gardner-Denver Co. Tool for setting tabs by twisting same. 2,803,286, 8-20-57, Cl. 153-78.
- Bosca, Mario E.: *See*—
- Bosca, Orsino H. and M. E. 2,784,757.
- Bosca, Orsino H. and M. E., to Coronet of Palm Beach, Inc. Closure for cases. 2,784,757, 3-12-57, Cl. 150-38.
- Boscarino, Joseph, Jr. Automatic self feed wax applier. 2,805,435, 9-10-57, Cl. 15-131.
- Bosch, Lawrence R. Push and pull exerciser. 2,783,045, 2-26-57, Cl. 272-81.
- Bosch, Robert, G. m. b. H.: *See*—
- Aldinger, Ulrich. 2,777,434.
- Aldinger, Ulrich. 2,810,376.
- Kerrmann, Otto, and Paule. 2,810,035.
- Korkowski, Eberhard, and Schmidt. 2,816,511.
- Meissner, Kurt. 2,817,325.
- Schlesswohl, Gottlob, Allgaier, and Voit. 2,778,449.
- Strab, Hermann. 2,795,725.
- Vielmo, Oskar. 2,777,741.
- Zeininger, Gustav, and Bacher. 2,798,242.
- Zeininger, Gustav, and Issler. 2,787,786.
- Bosch, Robert E., and K. K. Cooper. Rotary compressor valve. 2,812,128, 11-5-57, Cl. 230-138.
- Bosch, William F. X.: *See*—
- Nield, Cyril H., and Bosch. 2,782,200.
- Boschi, Antonio, to S. A. G. A. S. p. A. Pneumatic load-responsive spring suspension for vehicles. 2,790,650, 4-30-57, Cl. 280-124.
- Boschi, Antonio, to Società Applicazioni Gomma Antivibranti S. A. G. A. Società per Azioni. Resilient wheels. 2,800,357, 7-23-57, Cl. 295-11.
- Boschi, Antonio, to Società Applicazioni Gomma Antivibranti S. A. G. A. Società per Azioni. Shock absorbers. 2,818,249, 12-31-57, Cl. 267-33.
- Boschi, Antonio, and V. Mastropietro, to Pirelli Società per Azioni. Rubber spring for elastic mountings. 2,783,959, 3-5-57, Cl. 248-22.
- Bosco, Giuseppe, and E. Maggi, to Westinghouse Electric Corp. Circuit interrupter. 2,798,923, 7-9-57, Cl. 200-150.
- Bose, Edward R., to United Cork Companies. Apparatus for the continuous manufacture of compressed boards and sheets. 2,779,969, 2-5-57, Cl. 18-5.
- Bösel, Richard. Method of producing artificial sausage casings and product produced thereby. 2,802,745, 8-13-57, Cl. 99-176.
- Bosh, James E., to International Telephone and Telegraph Corp. Dial type of impulse sender. 2,781,666, 2-19-57, Cl. 74-152.
- Bosinoff, Irving, and A. C. Luther, Jr., to Radio Corp. of America. Voltage supply system. 2,786,150, 3-19-57, Cl. 307-106.
- Bosler, William J. W., and H. L. Harvey, to American Viscose Corp. Molded abrasive and method for producing it. 2,800,402, 7-22-57, Cl. 51-298.
- Bosman, Frank J. Cigarette humidifier. 2,780,489, 2-5-57, Cl. 299-24.
- Bosman, Gustave L., to Soprotec Societe de Promotion Technique Luxembourg. Apparatus used in the application of physiotherapeutic currents. 2,782,326, 2-19-57, Cl. 307-106.
- Bosna, Alexander A., to Jelfis Co. Centrifugal casting apparatus. 2,805,456, 9-10-57—Cl. 22-65.1.
- Bosomworth, George P., to The Firestone Tire & Rubber Co. Electronic vulcanization of rubber. 2,779,847, 1-29-57, Cl. 219-10.41.
- Bosomworth, George P., and R. I. Bishop, to The Firestone Tire & Rubber Co. Machine for electronic process of dielectric articles. 2,779,848, 1-29-57, Cl. 219-10.69.
- Bosomworth, George P., R. C. Sprague, and F. S. King, to The Firestone Tire & Rubber Co. Tire bead ledge construction. 2,802,239, 8-13-57, Cl. 18-17.
- Boss, Charles G.: *See*—
- Johnson, Herbert B., and Boss. 2,813,626.
- Boss, Frederick C.: *See*—
- Pierson, Earl H., Verbanac, Foerster, and Boss. 2,804,456.
- Boss, Ralph A. Heat exchange method and apparatus. 2,794,332, 6-4-57, Cl. 62-129.
- Boss, Raymond E., to United States Steel Corp. Air filter and oiler for pneumatic tools. 2,792,073, 5-14-57, Cl. 183-8.
- Bossard, Werner, to J. R. Geigy A. G. Tetrakisazo dyestuffs. 2,797,214, 6-25-57, Cl. 260-153.
- Bossard, Werner, and P. Dussy, to J. R. Geigy A. G. Tetrakisazo dyestuffs and processes for their production. 2,813,855, 11-19-57, Cl. 260-166.
- Bossard, Werner, and J. Ammann, to J. R. Geigy A. G. Metal-lisable trisazo dyestuffs. 2,817,658, 12-24-57, Cl. 260-157.
- Bossard, Werner, and M. Reding, to J. R. Geigy A. G. Polyazo dyestuffs. 2,817,659, 12-24-57, Cl. 260-157.
- Bosse, Robert W., to Groov-Pin Corp. Driver tool for threaded inserts. 2,817,987, 12-31-57, Cl. 81-53.
- Bosshard, Alex.: *See*—
- Schnell, August, and Bosshard. 2,805,567.
- Bosshard, Ernst, to G. Buhler. Sealing shields for roller mills. 2,808,215, 10-1-57, Cl. 241-226.
- Bosshard, Hans, to J. R. Geigy A. G. Process for the production of sulphur dyestuffs by the direct sulfurization of 4-hydroxydiphenylamine compounds. 2,787,611, 4-2-57, Cl. 260-134.
- Bosshard, Hans, to J. R. Geigy A. G. Sulfurization of two different p-hydroxyphenyl arylamino compounds. 2,787,612, 4-2-57, Cl. 260-134.
- Bostian, Logan C., to Allied Chemical & Dye Corp. Process for producing ammonium nitrite. 2,805,123, 9-3-57, Cl. 23-104.
- Bostian, Logan C., G. G. Joris, and K. T. Nilsson, to Allied Chemical & Dye Corp. Process for producing ammonium nitrite. 2,805,122, 9-3-57, Cl. 23-104.
- Bostitch, Inc.: *See*—
- Allen, Howard G. 2,798,218.
- Allen, Howard G. 2,899,861.
- Edmond, Russell B. 2,799,019.
- Harred, George H. 2,785,403.
- Harred, George H. 2,812,939.
- Jenny, Robert W. 2,801,415.
- Jenny, Robert W. 2,801,417.
- Jenny, Robert W. 2,801,418.
- Maynard, Arthur H. 2,775,764.
- Maynard, Arthur H. 2,798,219.
- Bostock, Cyril: *See*—
- Billing, Joseph, and Bostock. 2,779,974.
- Bostock, Howard, to United States Steel Corp. Rolling mill guide. 2,791,139, 5-7-57, Cl. 80-51.
- Boston, Edward D., to Esso Research and Engineering Co. Production of hydrocarbons from heavy hydrocarbonaceous residues by two stage process with the use of inert solids. 2,813,916, 11-19-57, Cl. 260-666.
- Boston Gear Works, Div. The Murray Co. of Texas, Inc.: *See*—
- Schumb, Martin T. 2,813,435.
- Boston, John A., to Capitol Products Corp. Cross grain dough molder. 2,804,026, Cl. 107-12.
- Boston & Lockport Block Co.: *See*—
- Anderson, Wilfred W. 2,783,518.
- Bostwick, Charles O., to E. I. du Pont de Nemours and Co. Alkyl ferrate coating process and coated solid surface. 2,789,923, 4-23-57, Cl. 117-124.
- Bostwick, Evan L. Duplex dispensing can. 2,788,919, 4-16-57, Cl. 222-129.
- Boswell, Arthur C., to The English Electric Co. Ltd. Fuel tank for aircraft. 2,777,463, 1-15-57, Cl. 137-341.
- Boswell, Thomas L.: *See*—
- Ensign, George G., and Boswell. 2,781,414.
- Boszormenyi, Andre G. T.: *See*—
- Jendrassik, George. 2,779,530.
- Jendrassik, George. 2,780,405.
- Jendrassik, George. 2,800,120.
- Boteler, Henry W., to Grinnell Corp. Double acting fluid pressure actuator. 2,783,746, 3-5-57, Cl. 121-48.
- Botha, Casper A. Subsoiler attachment. 2,796,012, 6-18-57, Cl. 97-78.
- Botkin, Carl: *See*—
- Ferzola, Anthony J., and Botkin. 2,780,547.
- Botner, Millard E. Micrometer depth gage. 2,814,884, 12-3-57, Cl. 33-170.
- Botnick, Irlin. Musical dish. 2,813,446, 11-19-57, Cl. 84-95.
- Botnick, Irlin. Combination aerating and hose coupling device for faucets. 2,816,746, 12-17-57, Cl. 261-64.
- Botz, Andrew. Drain extension. 2,816,574, 12-17-57, Cl. 137-593.
- Bott, William J., to The Parker Appliance Co. Pilot operated shutoff valve. 2,811,167, 10-29-57, Cl. 137-414.
- Bottomiller, Merton M., and A. L. Engelmann. Animal-simulating rider-actuated bouncing toy. 2,793,044, 5-21-57, Cl. 280-1.13.
- Bottenberg, Kenneth C., to Phillips Petroleum Co. Production of alcohols and related products with endothermic-exothermic controlled heat exchange. 2,779,803, 1-29-57, Cl. 260-639.
- Böttger, Hans: *See*—
- Süs, Oskar, Neugebauer, Böttger, Endermann, and Schäfer. 2,813,792.
- Bottini, Allericco. Device for stereophonically recording and transmitting sound waves. 2,792,449, 5-14-57, Cl. 179-1.
- Bottlander, Theodor, to F. E. Musgrove. Fertilizer spreader. 2,798,726, 7-9-57, Cl. 275-5.
- Bottleman, Ray, to Great American Plastics Co. Molds for plastic blowing machines. 2,810,160, 10-22-57, Cl. 18-42.
- Bottom, Theodore J., to Aluma Kraft Mfg. Co. Metal awnings. 2,776,460, 1-8-57, Cl. 20-57.5.
- Bottonari, Samuel A.: *See*—
- Frink, Russell E., and Bottonari. 2,777,036.

- Bottorff, Albert H. Adjustable jack head. 2,786,649, 3-26-57, Cl. 254-1.
 Bottorff, Albert H. Invertible lift member with slidable jack head. 2,786,650, 3-26-57, Cl. 254-134.
 Botts, Bernard C.: See—
 Prestipino, Vincent J., and Botts. 2,787,905.
 Botts, John C., and J. E. Northwood, to Westinghouse Electric Corp. Method for producing insulated coils and products thereof. 2,805,472, 9-10-57, Cl. 29-155.61.
 Bouchacourt, Jose M. Bath for the hygiene and medication of the nasal conduits. 2,793,641, 5-28-57, Cl. 128-250.
 Bouchard, Blanche E.: See—
 Du Grenier, Francis C., and Perri. 2,802,474.
 Bouchard, Gaston R. Expandable universal joints. 2,809,505, 10-15-57, Cl. 64-17.
 Bouchard, Irvine H. Antenna. 2,803,011, 8-13-57, Cl. 343-818.
 Bouchard, Ovide. Combustion gas recuperator and smell and smoke consumer. 2,811,937, 11-5-57, Cl. 110-8.
 Boucher, Cormack E. Portable X-ray unit. 2,786,948, 3-26-57, Cl. 250-87.
 Boucher, Cormack E. Controlled voltage system for X-ray units. 2,786,949, 3-26-57, Cl. 250-103.
 Boucher, Frank G., to the United States of America as represented by the Secretary of the Navy. Fuel flow control apparatus. 2,777,289, 1-15-57, Cl. 60-39.28.
 Boucher, Frank G., and F. H. Deily, to Essco Research and Engineering Co. Cable tool bit. 2,802,640, 8-13-57, Cl. 255-5.
 Boucher, Raymond M. G. Generator for sonic and ultrasonic vibrations. 2,800,100, 7-23-57, Cl. 116-137.
 Boucher, Raymond W., to Hedstrom Union Co. Back pedaling brakes. 2,793,727, 5-28-57, Cl. 192-5.
 Boucke, Heinz, to Radio Patents Co. Sphygmomanometric control system. 2,811,964, 11-5-57, Cl. 128-2.05.
 Boucke, Heinz, to Radio Patents Co. Pulse rate indicator. 2,815,748, 12-10-57, Cl. 128-2.05.
 Boudierique, Max: See—
 Comte, Georges, and Boudierique. 2,801,301.
 Boudreaux, Justus L. Suspensory. 2,798,484, 7-9-57, Cl. 128-153.
 Bouffart, Maurice. Arrangement for cooling combustion chambers and compressors of a stationary power plant with water or steam from a boiler. 2,787,121, 4-2-57, Cl. 60-39.07.
 Boughner, Lawrence G., to Rockwell Spring and Axle Co. Multi-speed drive axle. 2,791,130, 5-7-57, Cl. 74-695.
 Boughner, Lawrence G., to Rockwell Spring and Axle Co. Vehicle drive mechanism. 2,791,131, 5-7-57, Cl. 74-701.
 Boughner, Lawrence G., to Rockwell Spring and Axle Co. Tandem axle suspension spring seat mounting. 2,810,587, 10-22-57, Cl. 280-104.5.
 Boughton, Owen H., to Gould-National Batteries, Inc. Casting machine. 2,775,802, 1-1-57, Cl. 22-76.
 Boughton, Olin W., to Bausch & Lomb Optical Co. Micro-projector. 2,806,406, 9-17-57, Cl. 88-24.
 Boughton, Roger C. Gasket-carrying coupling nut. 2,816,472, 12-17-57, Cl. 85-32.1.
 Boughtwood, John E., to The Western Union Telegraph Co. Multichannel communication system. 2,794,854, 6-4-57, Cl. 178-66.
 Boulanger-Montegu, Jeanne C. L.: See—
 Bloch, Jeanne C. L. 2,780,549.
 Boulard, Georges: See—
 Drouard, Jacques, and Boulard. 2,778,128.
 Boulestreau, Henri, to Sorag. Gas density meters. 2,777,320, 1-15-57, Cl. 73-30.
 Boulitrop, Robert: See—
 Graft, Willy, and Boulitrop. 2,797,192.
 Boultinghouse, A. C., to Wen-Mac Corp. Toy aircraft engine starter. 2,800,744, 7-30-57, Cl. 46-78.
 Bouma, Duncan F. Pipe organ wind chest and valve action. 2,798,399, 7-9-47, Cl. 84-335.
 Bounadere, Albert. Musical ball. 2,784,526, 3-12-57, Cl. 46-175.
 Bounds, Ardrey M., to Superior Tube Co. Alloys for indirectly-heated cathodes. 2,809,890, 10-15-57, Cl. 75-170.
 Bounin, Claude. Method of decanting liquids containing material in suspension. 2,816,660, 12-17-57, Cl. 210-83.
 Bounin, Claude. Decanting liquids containing flocculated material. 2,816,661, 12-17-57, Cl. 210-83.
 Boura, Alan L. A.: See—
 Schild, Heinz O., Boura, and Mongar. 2,811,202.
 Boura, John: See—
 Dodd, George A., and Boura. 2,782,264.
 Bourassa, Wilbur O. Air conditioner for automotive vehicles. 2,783,622, 3-5-57, Cl. 62-119.
 Bourcier de Carbon, Christian M. L. L.: See—
 Heckethorn, John E. 2,808,131.
 Bourcier de Carbon, Christian M. L. L. Non-sticking shock absorber valve. 2,815,100, 12-3-57, Cl. 188-100.
 Bourdin, Serge J. C. Toy ruler with animated figures. 2,781,595, 2-19-57, Cl. 40-96.
 Bourdon, Geraldine. Cosmetic kit. 2,808,841, 10-8-57, Cl. 132-83.
 Bourdon, Pierre M., to Compagnie Generale des Etablissements Michelin (Robert Puiseux & Cie). Pneumatic tyres. 2,811,998, 11-5-57, Cl. 152-361.
 Bourdon, Russell G., to The Kaydon Engineering Corp. Demolition hammer. 2,778,355, 1-22-57, Cl. 125-33.
 Bourdunis, Constantine C. Hand tool. 2,809,476, 10-15-57, Cl. 51-187.
 Bourek, Rudolf, and P. L. Wachendorfer, Sr., to J. G. Murray, Jr. Furnace control system. 2,788,175, 4-9-57, Cl. 236-15.
 Bourek, Rudolf, H. Skozdopole, and P. L. Wachendorfer, Sr., to J. G. Murray, Jr. System for maintaining the correct supply of air for burning a gas of varying composition. 2,797,746, 7-2-57, Cl. 158-119.
 Bourgeois, Benjamin, to Pignons S. A. Bayonet securing means for objectives of cameras. 2,780,137, 2-5-57, Cl. 88-57.
 Bourgeois, Francis H., and P. F. Richardson, to International Harvester Co. Rotary seal with radially contacting sealing faces. 2,801,117, 7-30-57, Cl. 286-8.
 Bourgeois, Louis F. Knot forming and shaping devices. 2,796,612, 6-25-57, Cl. 2-153.
 Bourgeois, Moses C. Clip. 2,779,984, 2-5-57, Cl. 24-66.
 Bourgonjon, Louis R., and G. A. E. G. Westbeck, to North American Philips Co., Inc. Automatic frequency control. 2,794,918, 6-4-57, Cl. 250-36.
 Bourguet, Jean M., to Socony Mobil Oil Co., Inc. Lift pot. 2,813,756, 11-19-57, Cl. 302-52.
 Bourguignon, Pierre: See—
 Mention, Maurice, and Bourguignon. 2,776,984.
 Bourguignon, Pierre, and P. Biarnais, to Les Usines De Melle (Societe Anonyme). Stabilizing ester plasticizers. 2,805,246, 9-3-57, Cl. 260-475.
 Bourke, John D., to Robbins & Myers, Inc. Helical gear pump with adjustable stator compression. 2,796,029, 6-18-57, Cl. 103-117.
 Bourne, Joseph R.: See—
 Leonard, Louis H., Jr., and Bourne. 2,809,497.
 Bourner, Howard L., to Temco, Inc. Fuel burning radiant and air heater. 2,782,780, 2-26-57, Cl. 126-89.
 Bourns Laboratories, Inc.: See—
 Boode, Carl N. 2,796,567.
 Bourns, Marlan E., and Harrison. 2,805,307.
 Bourns, Marlan E., Harrison, and Whitehorn. 2,811,619.
 Bourns, Marlan E.: See—
 Goeppinger, Edward J., Whitehorn, Bourns, and Harrison. 2,780,776.
 Bourns, Marlan E. Variable resistor. 2,777,926, 1-15-57, Cl. 201-62.
 Bourns, Marlan E. Linear motion resistor. 2,780,702, 2-5-57, Cl. 201-62.
 Bourns, Marlan E. Dust shield for linear motion variable resistor. 2,785,262, 3-12-57, Cl. 201-62.
 Bourns, Marlan E., and W. T. Hardison; said Hardison assor. to said Bourns. Variable resistor. 2,799,757, 7-16-57, Cl. 201-62.
 Bourns, Marlan E., and M. E. Harrison; said Harrison assor. to said Bourns. Wire wound element. 2,804,529, 8-27-57, Cl. 201-56.
 Bourns, Marlan E., and M. E. Harrison, said Harrison to Bourns Laboratories, Inc. Variable resistor constructions. 2,805,307, 9-3-57, Cl. 201-48.
 Bourns, Marlan E., M. E. Harrison, and R. M. Whitehorn; said Harrison and said Whitehorn assors. to Bourns Laboratories, Inc. Pressure responsive resistor. 2,811,619, 10-29-57, Cl. 201-48.
 Bourque, Edmond A., and L. F. Gagnon. Hydraulic brake system. 2,792,083, 5-14-57, Cl. 188-106.
 Bourque, Valmore. Air relief means for doors. 2,798,422, 7-9-57, Cl. 98-87.
 Bourque, Valmore. Egg cutter. 2,798,521, 7-9-57, Cl. 146-2.
 Bourquin, Jean-Pierre: See—
 Rothlin, Ernst, and Bourquin. 2,807,567.
 Bourret, Georges: See—
 Fouron, Pierre, and Bourret. 2,808,628.
 Bousquet, Armand D. Adjustable bobbin holder or gripper spring device for loom shuttles. 2,788,024, 4-9-57, Cl. 139-207.
 Boutwell, Willis L., Sr. Portable grinder assembly. 2,808,684, 10-8-57, Cl. 51-109.
 Bouvet, René, to American Viscose Corp. Non-slash weaving. 2,797,709, 7-2-57, Cl. 139-1.
 Bouwers, Albert, to N. V. Optische Industrie "de Oude Delft." Cylindrically reflecting mirror-prism anamorphic optical system. 2,780,142, 2-5-57, Cl. 88-57.
 Bouwers, Albert, to N. V. Optische Industrie "De Oude Delft." Objective lens system provided with an aspherical correcting plate. 2,803,996, 8-27-57, Cl. 88-57.
 Bouwers, Albert, and J. Becker, to N. V. Optische Industrie "De Oude Delft." Optical image forming lens and mirror system comprising a spherical mirror and two meniscus corrector lenses. 2,793,564, 5-28-57, Cl. 88-57.
 Bouwman, Bert J., and J. S. Gellatly, to Western Electric Co., Inc. Fixture for aligning annular parts. 2,813,374, 11-19-57, Cl. 49-1.
 Bouwman, Haye, and H. Koppe, to North American Philips Co., Inc. Receiver for frequency-shift telegraphy. 2,805,281, 9-3-57, Cl. 178-66.
 Bouwman, Haye, I. Heeq, and J. Hogendijk, to North American Philips Co., Inc. Arrangement for developing oscillations frequency modulated according to modulation signals. 2,814,020, 11-19-57, Cl. 332-27.
 Bouyoucos, John V., and F. V. Hunt. Acoustic-vibration generator and method. 2,792,804, 5-21-57, Cl. 116-137.
 Bova, Ottavio. Comb for coloring hair. 2,785,693, 3-19-57, Cl. 132-163.

- Bovard, Charles M., to The Cooper-Bessemer Corp. Fuel injection devices for internal combustion engines. 2,793,077, 5-21-57, Cl. 299—107.2.
- Bovard, Robert M.: *See*—
Jackson, Carey B., and Bovard. 2,796,329.
Jackson, Carey B., Bovard, and Taylor. 2,796,328.
- Bowater Research and Development Co., The: *See*—
Kinna, Norman G. 2,810,505.
- Bowaters Development and Research Ltd.: *See*—
Roberts, George R., and Heathcote. 2,785,652.
Roberts, George R., and Lister. 2,779,547.
- Bowden, Hill. Door control. 2,814,067, 11-26-57, Cl. 16—66.
- Bowden, John W., to Lord & Burnham, Division of Burnham Corp. Ridge and sash structure. 2,801,600, 8-6-57 Cl. 108—16.
- Bowdill Co., The: *See*—
Morrow, Harry M. 2,786,663.
Morrow, Harry M. 2,786,664.
- Bowditch, Hoel L., to The Foxboro Co. Variable ratio apparatus. 2,800,136, 7-23-57, Cl. 137—85.
- Bowditch, Hoel L., to The Foxboro Co. Differential pressure responsive apparatus. 2,806,480, 9-17-57, Cl. 137—85.
- Bowditch, Robert P., and H. W. Schulz, to Union Carbide Corp. Synthesis of organic oxygen-containing compounds. 2,817,669, 12-24-57, Cl. 260—343.5.
- Bowen, Albert H., and J. R. Ash, to Monsanto Chemical Co. Dry process resinified consolidated product of phenol formaldehyde and cellulose. 2,805,209, 9-3-57, Cl. 260—17.2.
- Bowen, Albert M.: *See*—
Montooth, George A., and Bowen. 2,809,037.
- Bowen, Carroll T. Fishing line attachment. 2,797,521, 7-2-57, Cl. 43—43.13.
- Bowen & Co., Inc.: *See*—
Kern, George R. 2,799,934.
- Bowen, Earl M. Work holder. 2,810,326, 10-22-57, Cl. 90—59.
- Bowen, John D. Squeeze-to-use fluid dispensers. 2,811,283, 10-29-57, Cl. 222—109.
- Bowen, John T.: *See*—
Felbeck, George T., and Bowen. 2,812,169.
- Bowen, Merle W. Windshield wiper assembly. 2,795,004, 6-11-57, Cl. 15—255.
- Bowen, Milton L., and B. Parker, to Habana-Cabana, Inc. Collapsible cabanas. 2,804,876, 9-3-57, Cl. 135—5.
- Bowen, Richard L., Jr. Constant web tension unwinding mechanism. 2,781,178, 2-12-57, Cl. 242—75.
- Bowen, S. R., Co.: *See*—
Wilcox, James B. 2,799,347.
- Bowen, William M., III, to Oxy-Catalyst, Inc. Method and apparatus for heat recovery from drying oven effluents. 2,795,054, 6-11-57, Cl. 34—35.
- Bowen, William V. Fiber forming apparatus. 2,784,451, 3-12-57, Cl. 18—2.6.
- Bower, Byron F., to Pines Engineering Co., Inc. Tube bending machine with mechanism for control of wall thickness actuated by the rotatable bending die in accordance with its speed of rotation. 2,810,422, 10-22-57, Cl. 153—40.
- Bower, Edward R., to Esso Research and Engineering Co. Down-hole pump. 2,810,351, 10-22-57, Cl. 103—148.
- Bower, Frank W. Coin bank. 2,797,045, 6-25-57, Cl. 232—5.
- Bower, George G., to the United States of America as represented by the Secretary of the Army. Telephone transmission system. 2,781,417, 2-12-57, Cl. 179—15.5.
- Bower, Kendall O., to General Motors Corp. Automatic timed battery charger. 2,783,430, 2-26-57, Cl. 320—31.
- Bower, Minor A., to Chrysler Corp. Laminated upholstery article. 2,792,320, 5-14-57, Cl. 154—54.
- Bower, Warren R.: *See*—
Moore, Robert E., Bower, and Williams. 2,811,406.
- Bowerman, Hulie E. Pump pistons. 2,808,301, 10-1-57, Cl. 309—23.
- Bowerman, Hulie E. Piston sealing means. 2,808,302, 10-1-57, Cl. 309—23.
- Bowers, Charles E., Jr., to The Fibre Metal Products Co. Detachable connection for mounting a face protector on a head protector. 2,788,558, 4-16-57, Cl. 24—222.
- Bowers, Frederick A., to Phillips Petroleum Co. Reformer for ammonia synthesis gas. 2,788,265, 4-9-57, Cl. 23—288.
- Bowers, Frederick H. Disposable fuel container for lighters. 2,790,317, 4-30-57, Cl. 67—7.1.
- Bowers, Fredrick H., to Brown & Bigelow. Hinge mounting for lighter covers. 2,796,629, 6-25-57, Cl. 16—150.
- Bowers, Fritz K., to Bell Telephone Laboratories, Inc. Asymmetrical delta modulation system. 2,817,061, 12-17-57, Cl. 332—11.
- Bowers, George H., III, to E. I. du Pont de Nemours and Co. Curable dispersions of chlorosulfonated ethylene polymers and process of coating with same. 2,809,950, 10-15-57, Cl. 260—29.6.
- Bowers, Harold E., to The Commonwealth Engineering Co. of Ohio. Process for producing porous oil shale products. 2,776,210, 1-1-57, Cl. 106—40.
- Bowers, Robert M.: *See*—
Brown, Robert H. 2,789,330.
- Bowers, Roy L., to General Motors Corp. Filter having outwardly extending pleats. 2,801,009, 7-30-57, Cl. 210—493.
- Bowers, Roy L., to General Motors Corp. Windshield wiper actuating mechanism. 2,808,139, 10-1-57, Cl. 192—12.
- Bowers, Thomas G., to Great Lakes Carbon Corp. Method of melting ferrous metals. 2,808,326, 10-1-57, Cl. 75—43.
- Bowers, Thomas G., to Great Lakes Carbon Corp. Metallurgical coke. 2,808,370, 10-1-57, Cl. 202—33.
- Bowersox, Ralph B., and C. G. Hylkema, to California Institute Research Foundation. High speed recorder. 2,791,746, 5-7-57, Cl. 324—113.
- Bowes, Elmer B., to International Harvester Co. Safety device for internal combustion engines. 2,809,224, 10-8-57, Cl. 123—148.
- Bowes Seal Fast Corp.: *See*—
Covert, Robert J. 2,795,007.
- Bowie, Adrian S.: *See*—
Britten, Cecil A., and Bowie. 2,784,521.
- Bowie, Adrian St. J., to Food Machinery and Chemical Corp. Air vortex interceptor. 2,801,044, 7-30-57, Cl. 230—132.
- Bowie, Adrian St. J., to Food Machinery and Chemical Corp. Positive driving mechanism for a harvester pick-up reel. 2,806,341, 9-17-57, Cl. 56—364.
- Bowie, Adrian St. J., and J. L. Nelson, to Food Machinery and Chemical Corp. Nut pickup device. 2,780,904, 2-12-57, Cl. 56—328.
- Bowie, Horace L. Yarn cleaner. 2,814,176, 11-26-57, Cl. 57—58.
- Bowie, Moraine C. Calf fetal extractor. 2,791,219, 5-7-57, Cl. 128—352.
- Bowler, Raymond M., and M. Clamp, to United Shoe Machinery Corp. Lasting machines. 2,804,634, 9-3-57, Cl. 12—7.1.
- Bowles, Samuel V.: *See*—
Gentile, Phillip J. 2,808,161.
- Bowles, Samuel V., ½ to P. J. Gentile. Self-loading truck. 2,784,853, 8-12-57, Cl. 214—78.
- Bowles, Vernon O., and L. P. Evans, to Socoy Mobil Oil Co., Inc. Reactor chamber with internal collectors. 2,776,876, 1-8-57, Cl. 23—288.
- Bowles, Weston W.: *See*—
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- Bowling, Bury J. Combination multiple saw and cutting head. 2,818,094, 12-31-57, Cl. 144—236.
- Bowman, Anna H.: *See*—
Bowman, Samuel G. 2,788,695.
- Bowman, Brice M., to Bell Telephone Laboratories, Inc. Method of making electrical carbon-film resistors. 2,778,743, 1-22-57, Cl. 117—46.
- Bowman Dairy Co.: *See*—
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- Bowman, George L.: *See*—
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Mueller, Herman H. 2,809,843.
- Bowman, Glade B.: *See*—
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- Bowman, Gordon L., to Premier Co. Vacuum cleaner and air filter therefor. 2,814,357, 11-26-57, Cl. 183—37.
- Bowman, Herbert J.: *See*—
Smous, Leo F. 2,803,854.
- Bowman, James H.: *See*—
Shumaker, Emery D., and Bowman. 2,813,766.
- Bowman, John L.: *See*—
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- Bowman, Paul F., and O. L. Vines, to A. Cartons. Jig. 2,815,700, 12-10-57, Cl. 93—37.
- Bowman, Ralph E.: *See*—
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- Bowman, Ray L.: *See*—
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- Bowman, Ruby R. Sail for skater. 2,793,870, 5-28-57, Cl. 280—11.37.
- Bowman, Samuel. Cheese pump and filler. 2,776,626, 1-8-57, Cl. 103—159.
- Bowman, Samuel G., ½ each to A. H. Bowman and J. M. Guthrie. Pipe organ assembly. 2,788,695, 4-16-57, Cl. 84—342.
- Bowman, Spencer, to Westinghouse Air Brake Co. Cutter mounting for continuous mining machine. 2,787,456, 4-2-57, Cl. 262—26.
- Bown, Delos E., to Esso Research and Engineering Co. Recovery of durenene by forming a cocrystallized solid with symmetrical tetrachloroethane. 2,815,392, 12-3-57, Cl. 260—674.
- Bown, Delos E., and W. O. Milligan, to Esso Research and Engineering Co. Process for recovering polymethyl aromatic compounds containing paramethyl groupings by fractional crystallization in the presence of chloral. 2,801,272, 7-30-57, Cl. 260—674.
- Bowne, Lloyd F., Jr.: *See*—
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- Bowne, M. S.: *See*—
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- Bowns, Desmond E.: *See*—
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- Bowser, Inc.: *See*—
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Kamm, Edmund W. E. 2,786,602.
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- Bowser, Joseph T. X-ray film holders. 2,777,068, 1-8-57, Cl. 250-64.
- Bowser, Percy L., Jr.: *See*—
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- Bowsher, Wilson C.: *See*—
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- Boxell, Helen A. Culture medium for bacteria. 2,792,331, 5-14-57, Cl. 195-100.
- Boxman, Pieter: *See*—
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- Boyajan, John A., to Fairchild Camera and Instrument Corp. Video-signal tone-adjusting network. 2,777,058, 1-8-57, Cl. 250-27.
- Boyajian, Setrak K. Envelopes and the like with remoistenable adhesive comprising polyvinyl alcohol. 2,804,395, 8-27-57, Cl. 117-44.
- Boyan, Edwin A. Production analysis apparatus. 2,776,867, 1-8-57, Cl. 346-25.
- Boyce, Arnold L., to General Motors Corp. Method of infiltrating powder metal parts. 2,783,145, 2-26-57, Cl. 75-212.
- Boyce, John, and J. C. Olsen, to Food Machinery and Chemical Corp. Carton freezing apparatus. 2,780,927, 2-12-57, Cl. 62-114.
- Boyce, Leonard D., to ACF Industries, Inc. Carburetor deicing means. Re. 2,427,4, 2-12-57, Cl. 261-14.
- Boyce, Leonard D. Compositions and methods for removing deposits. 2,785,662, 3-19-57, Cl. 123-1.
- Boyd, Charles P.: *See*—
 Waslov, Alphonsus J. 2,803,412.
- Boyd, George E.: *See*—
 Russell, Edwin R., Adamson, Schubert, and Boyd. 2,811,416.
- Boyd, George H.: *See*—
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- Boyd, Gordon D. Picture frame. 2,806,310, 9-17-57, Cl. 40-154.
- Boyd, John R., to McCulloch Motors Corp. Diffuser. 2,814,434, 11-26-57, Cl. 230-127.
- Boyd, Ralph E.: *See*—
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- Boyd, Richard K., to General Dynamics Corp. Termination circuit for simulating telephone system conditions. 2,795,657, 6-11-57, Cl. 179-175.2.
- Boyd, Robert A., to Owens-Illinois Glass Co. Skylights. 2,812,690, 11-12-57, Cl. 88-59.
- Boyd, Robert A., to Owens-Illinois Glass Co. Skylights. 2,812,691, 11-12-57, Cl. 88-59.
- Boyd, Robert A., to Owens-Illinois Glass Co. Control of day lighting. 2,812,692, 11-12-57, Cl. 88-60.
- Boyd, Robert L., to American Can Co. Liquid carton and seal therefor. 2,802,613, 8-13-57, Cl. 229-7.
- Boyd, Thomas R., to Illinois Tool Works. Resilient sheet metal fastener having stud biting aperture therein. 2,781,686, 2-19-57, Cl. 85-36.
- Boyd, William H. A., to the United States of America as represented by the Secretary of the Army. Variable pitch windmill. 2,791,281, 5-7-57, Cl. 170-79.
- Boyden, Robert E., and J. L. Lindesmith, to Clary Corp. Recording device for electronic counters or the like. 2,783,939, 3-5-57, Cl. 235-58.
- Boye Needle Co., The: *See*—
 Carlson, Gustav A. 2,807,945.
- Boyer, Charles J., to Ray-O-Vac Co. Pneumatic suspension for safety hat. 2,816,290, 12-17-57, Cl. 2-3.
- Boyer, Frances H. Vehicle window armrest. 2,789,862, 4-23-57, Cl. 296-49.2.
- Boyer, Gérard R., and E. Estrems, to International Business Machines Corp. Self-complementing electronic counter. 2,813,676, 11-19-57, Cl. 235-92.
- Boyer, Guy M. Multipurpose fishing float. 2,784,518, 3-12-57, Cl. 43-44.91.
- Boyer, John L., and A. P. Colaiaco, to Westinghouse Electric Corp. Semiconductor rectifier device. 2,780,759, 2-5-57, Cl. 317-234.
- Boyer, John L., and W. S. Albert, to Westinghouse Electric Corp. Semiconductor rectifier device. 2,806,187, 9-10-57, Cl. 317-234.
- Boyer, Ralph K., to The Dill Mfg. Co. Valve for supersized tires. 2,778,374, 1-22-57, Cl. 137-223.
- Boyer, Ralph K., to The Dill Mfg. Co. Valve stem for tubeless tires. 2,818,101, 12-31-57, Cl. 152-427.
- Boyer, Raymond F.: *See*—
 Matheson, Lorne A., and Boyer. 2,809,955.
- Boyer, Raymond W., to R. E. McNett, as trustee for Royal Electric, Inc. Digital counter assembly. 2,798,670, 7-9-57, Cl. 235-92.
- Boyer, Robert Q.: *See*—
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- Boyer, Robert Q., to the United States of America as represented by the United States Atomic Energy Commission. Process of recovering uranium from calutron wash solutions. 2,796,393, 6-18-57, Cl. 204-15.
- Boyer, Robert Q., and S. B. Kilner, to the United States of America as represented by the United States Atomic Energy Commission. Process of recovering uranium from solutions. 2,781,303, 2-12-57, Cl. 204-15.
- Boyers, Henry. Swimming device. 2,792,577, 5-21-57, Cl. 9-21.
- Boykin, John R., to Westinghouse Electric Corp. Speed and temperature responsive control for jet engine nozzle and fuel supply. 2,805,542, 9-10-57, Cl. 60-35.6.
- Boyko, John, 49% to C. Miller. Die repair device. 2,807,969, 10-1-57, Cl. 76-4.
- Boylan, David R.: *See*—
 Bridger, Grover L., and Boylan. 2,782,113.
- Boylan, Henry W., to General Motors Corp. Ignition apparatus. 2,809,620, 10-15-57, Cl. 123-117.1.
- Boylan, James F. Tool shadow. 2,804,108, 8-27-57, Cl. 144-309.
- Boyle, Hugh M.: *See*—
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- Boyle, James F., and M. L. Taylor, to The Garrett Corp. Life-saving flotation device. 2,784,426, 3-12-57, Cl. 9-17.
- Boyle, John R., to Betz Corp. Fluid mixing device. 2,787,138, 4-2-57, Cl. 62-126.
- Boyle, John R. and J. R., Jr. Cooling tower. 2,780,306, 2-5-57, Cl. 183-14.
- Boyle, John R., Jr.: *See*—
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- Boyle-Midway Inc.: *See*—
 Steinbiller, Norman. 2,803,906.
- Boyle, Miles F. Implement rock digger attachment. 2,806,303, 9-17-57, Cl. 37-2.
- Boyle, Ralph C.: *See*—
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- Boyle, Willard S., to Bell Telephone Laboratories, Inc. Electrostatic relay. 2,802,918, 8-13-57, Cl. 200-87.
- Boyle, William P. Sink assembly. 2,814,809, 12-3-57, Cl. 4-187.
- Boyles, Fred W.: *See*—
 Rodenbaugh, Edwin M., and Boyles. 2,782,888.
- Boyles, Robert L.: *See*—
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- Boynton, Alexander, deceased, by Garrett Oil Tools Inc., assignee. Remotely controlled flow valve. Re. 2,430,4, 4-23-57, Cl. 103-233.
- Boynton, Harry G., H. G. Corneil, E. W. Lewis, and A. T. Watson, to Esso Research and Engineering Co. Process for preparing a heat-stable, oil-soluble, basic organic sulfonate. 2,807,640, 9-24-57, Cl. 260-504.
- Boynton, Wentworth D., and F. L. Mueller, to Western Electric Co., Inc. Aging apparatus for transistors. 2,810,951, 10-29-57, Cl. 29-25.3.
- Boynton, William W.: *See*—
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- Boys, Clyde H.: *See*—
 Naudain, Edward A., and Boys. 2,794,006.
- Boysen, Martin C., and K. E. Towers. Outrigger support for mobile crane or shovel. 2,777,586, 1-15-57, Cl. 212-145.
- Bozieh, George. Reminding device. 2,792,653, 5-21-57, Cl. 40-86.
- Bozzacco, Francis A., and R. W. Sheetsley, to Goodyear Aircraft Corp. Sandwich structures. 2,806,509, 9-17-57, Cl. 154-28.
- Braa, Lloyd W.: *See*—
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- Braaten, Earl E.: *See*—
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- Brabander, Herbert J.: *See*—
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- Kushner, Samuel, Bach, and Brabander. 2,794,804.
- Brabec, Joseph G. Air filter for lamps. 2,790,510, 4-30-57, Cl. 183-37.
- Brabender, Carl W.: *See*—
 Coyne, William R., Brabender, and Swanson. 2,782,012.
- Brabender, Carl W., to Pillsbury Mills, Inc. Method and apparatus for determining the solid content of materials. 2,780,095, 2-5-57, Cl. 73-76.
- Brabender, Carl W., to Pillsbury Mills, Inc. Moisture determiner with determination preserving apparatus. 2,808,720, 10-8-57, Cl. 73-76.
- Brabender, O. H.: *See*—
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- Brace, Edward C. Movable paper carriage and platen assembly for typewriters and like machines. 2,804,188, 8-27-57, Cl. 197-60.
- Brace, George A., to The Hoover Co. Nozzle height adjustment mechanism for suction cleaners. 2,776,446, 1-8-57, Cl. 15-35.9.
- Brace, George A., to The Hoover Co. Suction cleaner and filter therefor. 2,776,726, 1-8-57, Cl. 183-37.
- Brace, George A., to The Hoover Co. Suction cleaner with bag adapter. 2,780,828, 2-12-57, Cl. 15-35.1.
- Brace, George A., to The Hoover Co. Suction cleaners and converter facilities therefor. 2,784,439, 3-12-57, Cl. 15-337.
- Brace, George A., to The Hoover Co. Valve control structure for steam irons. 2,786,286, 3-26-57, Cl. 38-77.
- Brace, George A., to The Hoover Co. Pneumatic filter seal. 2,789,661, 4-23-57, Cl. 183-37.
- Brace, George A., to The Hoover Co. Folding food mixers. 2,789,798, 4-23-57, Cl. 259-108.
- Brace, George A., to The Hoover Co. Filter mounting means. 2,804,164, 8-27-57, Cl. 183-37.

- Brace, Jeanne B. Informational and display device. 2,779,107, 1-29-57, Cl. 35-53.
- Brace, Neal O., to E. I. du Pont de Nemours and Co. Aqueous dispersions comprising N, N'-oxydimethylene-bis-acrylamides and useful as water-repelling agents for textile fibers. 2,793,142, 5-21-57, Cl. 117-135.5.
- Bracey, Paul, to National Research Development Corp. Pesticidal coating compositions. 2,788,320, 4-9-57, Cl. 204-158.
- Brack, Arthur: *See*—
Stoll, Arthur, Brack, Hofmann, and Kobel. 2,809,920.
- Bracken, David R. Signal bond protecting device. 2,794,902, 6-4-57, Cl. 219-136.
- Brackett, John C., to Waldorf Paper Products Co. Can carrier. 2,812,857, 11-12-57, Cl. 206-65.
- Brackett, Robert W. Animal trap attachment. 2,810,983, 10-29-57, Cl. 43-90.
- Brackman, Henry A. and O. J. Egg breaker. 2,794,471, 6-4-57, Cl. 146-2.
- Brackman, Olive J.: *See*—
Brackman, Henry A. and O. J. 2,794,471.
- Braconier, Frederic F. A., and J. A. R. O. L. Godart, to Societe Belge de l'Azote et des Produits Chimiques du Marly. Process for the manufacture of vinyl chloride from 1,2-dichloroethane and acetylene. 2,779,804, 1-29-57, Cl. 260-656.
- Bracutt, Michael, to The W. L. Maxson Corp. Motor control systems. 2,783,427, 2-26-57, Cl. 318-338.
- Bradburd, Ervin M., to International Telephone and Telegraph Corp. Complex pulse communication system. 2,779,933, 1-29-57, Cl. 340-147.
- Bradburd, Ervin M., to International Telephone and Telegraph Corp. Transmission systems. 2,781,491, 2-12-57, Cl. 332-19.
- Bradburd, Ervin M., to International Telephone and Telegraph Corp. Tuned high frequency amplifier. 2,803,710, 8-20-57, Cl. 179-171.
- Bradbury, William E., to Armco Steel Corp. Preparation of rolls for use in rod rolling mills. 2,788,717, 4-16-57, Cl. 90-15.1.
- Braddon, Frederick D., to Sperry Rand Corp. Variable pitch propeller control system. 2,812,026, 11-5-57, Cl. 170-160.18.
- Braddon, Frederick D., and F. West, Jr., to Sperry Rand Corp. Maneuverable automatic pilot for ships. 2,796,576, 6-18-57, Cl. 318-489.
- Braddon, Frederick D., and V. Vacquier, to Sperry Rand Corp. Gyroscopic direction-indicating instruments. 2,811,785, 11-5-57, Cl. 33-204.
- Braden, Ray S., to Bomac Laboratories Inc. Microwave shutter device. 2,777,993, 1-15-57, Cl. 333-13.
- Braden, Ray S., to Bomac Laboratories Inc. Transmit-receive and shutter device electrode structure. 2,816,272, 12-10-57, Cl. 333-13.
- Brader, Stanley F., to the United States of America as represented by the Secretary of the Air Force. Landing gear snubber and booster. 2,801,817, 8-6-57, Cl. 244-102.
- Bradfield, Geoffrey, to Council For Scientific and Industrial Research. Apparatus for testing of elastic materials. 2,803,129, 8-20-57, Cl. 73-67.8.
- Bradfield, Geoffrey, to Council for Scientific and Industrial Research. Vibratory tools. 2,806,328, 9-17-57, Cl. 51-59.
- Bradfield, Kenneth R., to Richard Sizer Ltd. Cooling or drying of bulk material. 2,794,266, 6-4-57, Cl. 34-147.
- Bradford Dyers' Association Ltd., The: *See*—
Evans, John G., Leach, and Meals. 2,786,734.
Parker, Charles S., and Melville. 2,808,635.
- Bradford, Ernest S. Weeding tool. 2,809,427, 10-15-57, Cl. 30-356.
- Bradford, Fred, to The English Electric Co. Ltd. Sealing of fuel tanks or like containers. 2,816,686, 12-17-57, Cl. 220-81.
- Bradford, James H., $\frac{1}{2}$ to Combined Metals Reduction Co. Bag-filling apparatus. 2,781,799, 2-19-57, Cl. 141-68.
- Bradford, James H., $\frac{1}{2}$ to Combined Metals Reduction Co. Method of heat processing finely divided materials and furnace therefor. 2,782,018, 2-19-57, Cl. 263-21.
- Bradford, Marjorie P. Circular towel. 2,803,845, 8-27-57, Cl. 15-209.
- Bradford Novelty Co., Inc.: *See*—
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Burnbaum, Jack. 2,803,904.
- Bradford, Rex C., and H. R. Kelsof, to International Business Machines Corp. Electromagnetic transducer. 2,800,534, 7-23-57, Cl. 179-100.2.
- Bradley, Addison B., to Whirlpool Corp. Vacuum cleaner. 2,808,957, 10-8-57, Cl. 220-24.
- Bradley, Altus E. Swiveled jig saw. 2,792,033, 5-14-57, Cl. 143-74.
- Bradley, Arthur, to Lockheed Aircraft Corp. Flush drain valve. 2,796,882, 6-25-57, Cl. 137-329.4.
- Bradley Container Corp.: *See*—
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- Bradley, Earl A., to Joy Mfg. Co. Rotary disintegrating drum for continuous miner. 2,801,838, 8-6-57, Cl. 262-26.
- Bradley, Emmett H., to Melpar, Inc. Distributed triode amplifiers. 2,778,886, 1-22-57, Cl. 179-171.
- Bradley, Emmett H., to Melpar, Inc. Distributed amplifier transmission line terminations. 2,778,887, 1-22-57, Cl. 179-171.
- Bradley, Emmett H., to Melpar, Inc. Distributed amplifiers. 2,778,888, 1-22-57, Cl. 179-171.
- Bradley & Gilbert Co., The: *See*—
Ayers, Joseph W., and Bradley. 2,781,286.
Ayers, Joseph W., and Bradley. 2,781,327.
Ayers, Joseph W., and Bradley. 2,781,328.
Bolding, Hubert V. 2,781,160.
Bolding, Hubert V. 2,783,692.
- Bradley, John G., to the United States of America as represented by the United States Atomic Energy Commission. Redistributor for liquid-liquid extraction columns. 2,811,423, 10-29-57, Cl. 23-270.5.
- Bradley, John J., Jr., to Shell Development Co. Linoleum cement from tall oil ester, and linoleum obtainable therefrom. 2,786,773, 3-26-57, Cl. 106-123.
- Bradley, John J., Jr., to Agrashell, Inc. Chemically modified ligno-cellulosic materials. 2,805,168, 9-3-57, Cl. 106-163.
- Bradley, John M., to Godfrey L. Cabot, Inc. Recovery of pigments under pressure. 2,799,358, 7-16-57, Cl. 183-85.
- Bradley, John S., V., and J. J. Giammaria, to Socony Mobil Oil Co., Inc. Aqueous defoamants. 2,792,374, 5-14-57, Cl. 252-358.
- Bradley, Linn, and R. Q. Boyer, to Western Precipitation Corp. Treatment of sodium base sulfite residual liquor. 2,792,350, 5-14-57, Cl. 252-183.
- Bradley, Milton, Co.: *See*—
Zecher, Marjorie. 2,797,511.
- Bradley, Robert I. Window pane thermometer. 2,803,137, 8-20-57, Cl. 73-367.
- Bradley, Robert O.: *See*—
Robinson, Bruce E., and Bradley. 2,786,478.
- Bradley, Robert O., to Toledo Scale Co. Batching scale control circuit. 2,776,103, 1-1-57, Cl. 249-2.
- Bradley, Robert O., to Toledo Scale Co. Conveyor belt guide. 2,797,794, 7-2-57, Cl. 198-202.
- Bradley, Robert O., and B. E. Robinson, to Toledo Scale Co. Automatic washing machine. 2,782,793, 2-26-57, Cl. 134-53.
- Bradley, Robert W.: *See*—
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- Bradley, Stephen. Apparatus for grading and packing snow. 2,786,283, 3-26-57, Cl. 37-10.
- Bradley, Stephen D., to Detroit Macold Corp. Sewing welt. 2,811,756, 11-5-57, Cl. 20-74.
- Bradley, William E., to Philco Corp. Cathode ray beam indexing system. 2,777,010, 1-8-57, Cl. 178-5.4.
- Bradley, William E., to Philco Corp. Indexing strip structure for cathode ray tubes. 2,790,107, 4-23-57, Cl. 315-10.
- Bradley, William E., to Philco Corp. Modulator. 2,795,761, 6-11-57, Cl. 332-7.
- Bradley, William E., to Philco Corp. Gain control system for color television. 2,798,900, 7-9-57, Cl. 178-5.4.
- Bradmillar, Richard W., to Avco Mfg. Corp. Stable transistor oscillator. 2,810,073, 10-15-57, Cl. 250-36.
- Bradner, Hugh, and H. S. Gordon, to the United States of America as represented by the United States Atomic Energy Commission. Device for control of oxygen partial pressure. 2,817,350, 12-24-57, Cl. 137-87.
- Bradshaw, Clayton W.: *See*—
Jones, R. Clyde, and Bradshaw. 2,778,144.
- Bradshaw, Eddie L. Package size indicator for winding machines. 2,803,212, 8-20-57, Cl. 116-114.
- Bradshaw, Gerald R. Combination mop and wringer assembly. 2,796,617, 6-25-57, Cl. 15-1.
- Bradstock, Robert B.: *See*—
Powers, Wallace F., and Bradstock. 2,790,122.
- Bradstreet, Samuel W., and J. S. Griffith, to Armour Research Foundation of Illinois Institute of Technology. Printing plates and the production thereof. 2,814,988, 12-3-57, Cl. 101-149.2.
- Brady, James J., to Technical Oil Tool Corp. Ltd. Chart reading device. 2,781,581, 2-19-57, Cl. 33-1.
- Brady, John B.: *See*—
Impler, Donald T. 2,785,321.
- Brady, Samuel G., to The Gear Grinding Machine Co. Means facilitating the mounting of work on an arbor preparatory to the form grinding of the same. 2,798,347, 7-9-57, Cl. 51-277.
- Brady, Samuel G., to The Gear Grinding Machine Co. Trimming mechanism. 2,804,064, 8-27-57, Cl. 125-11.
- Brady, Samuel G., to The Gear Grinding Machine Co. Trimming mechanism. 2,807,255, 9-24-57, Cl. 125-11.
- Brady, Stanley P. Vacuum can opener. 2,783,914, 3-5-57, Cl. 220-52.
- Brady, W. H., Co.: *See*—
Tobey, Frederic S., and Muttera. 2,818,168.
- Brady, William J. Brush and brush-holder combination. 2,799,883, 7-23-57, Cl. 15-184.
- Brady, William J. Brush and brush-holder combination. 2,803,029, 8-20-57, Cl. 15-184.
- Braendel, Felix W., to Groov-Pin Corp. Self-tapping insert. 2,795,221, 6-11-57, Cl. 123-169.
- Braestrup, Carl B.: *See*—
Green, Donald T., and Braestrup. 2,781,454.
- Braeuninger, Karl F.: *See*—
Altwickler, Hubert J., and Braeuninger. 2,812,572.

- Braeuninger, Karl F., and C. J. Huffman, to The Dow Chemical Co. Method of heating magnesium alloy billets. 2,787,692, 4-2-57, Cl. 219—10-41.
- Brafman, Harold E., to Sprague Electric Co. High voltage capacitor. 2,777,976, 1-15-57, Cl. 317—261.
- Bragdon, Robert W., to Metal Hydrides Inc. Manufacture of methyl borate. 2,813,115, 11-12-57, Cl. 260—462.
- Bragg, Clarence C. Mechanical door operator. 2,794,634, 6-4-57, Cl. 268—59.
- Bragg, Lawrence D., Jr., to The General Tire & Rubber Co. Felt sheeting. 2,777,787, 1-15-57, Cl. 154—48.
- Bragg, Lawrence D., Jr., to The General Tire & Rubber Co. Composite sheet material. 2,777,788, 1-15-57, Cl. 154—48.
- Bragg, Patricia P. Douche or enema device. 2,811,156, 10-29-57, Cl. 128—248.
- Bragg, Perrie A. Hog and cattle guard for feed feeders. 2,791,985, 5-14-57, Cl. 119—52.
- Bragman, Clifford I., and A. J. Perle. Construction and installation of doors. 2,818,145, 12-31-57, Cl. 189—46.
- Brahm, Harry. Air conditioning cushion insole unit. 2,797,501, 7-2-57, Cl. 36—3.
- Brahmsiepe, Heinz, to Koppers Co., Inc. Slot bunker. 2,794,561, 6-4-57, Cl. 214—17.
- Braidwood, Clinton A., and R. W. Hamre, to Schenectady Vanish Co., Inc. Method of treating terpene resins. 2,814,610, 11-26-57, Cl. 260—93.3.
- Braislford, Harrison D. Sensitive pressure measuring servo-system. 2,798,191, 7-2-57, Cl. 318—32.
- Brain, Millard L.: See—
Hibbard, Oscar L., and Brain. 2,810,621.
- Brainard, Maurice W., $\frac{1}{2}$ to O'Keefe & Merritt Co. Rotor, and method of making the same. 2,806,160, 9-10-57, Cl. 310—156.
- Brainard, Maurice W., $\frac{1}{2}$ to O'Keefe & Merritt Co. Field construction for electric machines. 2,811,658, 10-29-57, Cl. 310—154.
- Brainerd, Arthur A. Electric discharge lamp luminaire. 2,793,285, 5-21-57, Cl. 240—25.
- Brainerd, Arthur E., Jr., and N. Poffenberger, to The Dow Chemical Co. Method of reducing the halogen content of halophenols. 2,803,669, 8-20-57, Cl. 260—621.
- Brainerd Bait Co.: See—
Wallis, Ralph C. 2,809,462.
- Brainerd, Harold W., Jr., H. W. Gray, Jr., and P. L. Menaul, to Pan American Petroleum Corp. Composition for hydraulically fracturing formations. 2,793,998, 5-28-57, Cl. 252—8.55.
- Braithwaite, Isaac, & Sons Engineers Ltd.: See—
Howlett, Edward J. 2,786,671.
- Howlett, Edward J., Purvis, and Clark. 2,803,124.
- Brakel, Arie, and N. Healey, to Shell Development Co. Drilling fluid compositions for porous formations. 2,788,323, 4-9-57, Cl. 252—8.5.
- Brakel, Lewis H.: See—
Lankford, Jonathan D., Tripp, Brakel, and Gould. 2,812,288.
- Braker, Benjamin V. B. Telescopic sight for direct fire gunnery. 2,811,894, 11-5-57, Cl. 88—32.
- Braley, Ernest H. Method and apparatus for snelling fish-hooks. 2,810,228, 10-22-57, Cl. 43—1.
- Braley, Orville A., to Dow Corning Corp. Method of molding plastic articles. 2,811,408, 10-29-57, Cl. 18—47.
- Bralove, Allan L., and C. F. Rogier, to The Electrofile Corp. Card selection apparatus. 2,795,226, 6-11-57, Cl. 129—16.1.
- Bram, Georges, to Compagnie de Pont-A-Mousson. Wrench with a flexible gripping band. 2,780,951, 2-12-57, Cl. 81—64.
- Bramble, Lloyd F., to Gulf States Asphalt Co., Inc. Asphaltic composite monolithic shield. 2,778,406, 1-22-57, Cl. 154—41.
- Bramblett, John J., to Ben Pearson Inc. Metering planter devices. 2,783,918, 3-5-57, Cl. 222—177.
- Brame, Allen J.: See—
Johnson, Richard N., and Brame. 2,791,141.
- Brame, Allen J., to T. P. Walker, as trustee. Predetermined torque release unit for wrenches and the like. 2,777,346, 1-15-57, Cl. 81—52.4.
- Brame, Sam S. Wire mesh fastener. 2,783,834, 3-5-57, Cl. 160—395.
- Bramlett, William P., Jr., and W. E. Houck, to Armstrong Cork Co. Electrode assembly. 2,802,041, 8-6-57, Cl. 13—17.
- Bramley, Benjamin E. and R. E. Adjustable door hasp. 2,790,664, 4-30-57, Cl. 292—285.
- Bramley, Lawrence. Milking machine with intermittent milk flow. 2,814,270, 11-26-57, Cl. 119—14.05.
- Bramley, Robert E.: See—
Bramley, Benjamin E. and R. E. 2,790,664.
- Brammar, Charles H., to Smith, Kline & French Laboratories. Apparatus for coating pills and tablets. 2,807,230, 9-24-57, Cl. 118—19.
- Bramming, Carl, to Aladdin Industries, Inc. Pump for pressure burner. 2,785,852, 3-19-57, Cl. 230—160.
- Bramming, Carl, to Aladdin Industries, Inc. Package unit for vacuum bottle components. 2,809,745, 10-15-57, Cl. 206—46.
- Bramming, Carl, to Aladdin Industries, Inc. Orifice cleaning mechanism for burners. 2,810,434, 10-22-57, Cl. 158—120.
- Bramming, Carl, to Aladdin Industries, Inc. Vacuum bottle. 2,817,452, 12-24-57, Cl. 215—13.
- Bramsen, Edward A. Apparatus and method for testing electronic vacuum tube amplifiers. 2,784,372, 3-5-57, Cl. 324—23.
- Bramwyche, Peter L.: See—
Turner, John H. W., Anthony, and Bramwyche. 2,809,178.
- Turner, John H. W., Anthony, and Bramwyche. 2,809,181.
- Branan, Wiley M., to E. I. du Pont de Nemours and Co. Process for the preparation of high gel carboxyalkylated cellulose ethers. 2,816,889, 12-17-57, Cl. 260—231.
- Brancato, Leo J., to Heli-Coil Corp. Thread coil secured in ductile material by deformation of the material. 2,780,265, 2-5-57, Cl. 151—41.73.
- Brancato, Leo J., to Heli-Coil Corp. Device for controlling the pitch of helically coiled wire. 2,780,270, 2-5-57, Cl. 153—64.
- Branch, Frank F., to Radiator Specialty Co. Flush control unit. 2,779,028, 1-29-57, Cl. 4—57.
- Branchu, Paul J., and A. E. Caudmont, 25% to P. Pinardel and 25% to J. P. de Willenich. Machine for making knots. 2,783,524, 3-5-57, Cl. 28—1.
- Brandau, William E., to Bendix Aviation Corp. Turbojet engine control system. 2,786,330, 3-26-57, Cl. 60—39.28.
- Brandau, William E., to Bendix Aviation Corp. Fuel control system responsive to engine temperature and speed conditions. 2,806,352, 9-17-57, Cl. 60—39.28.
- Brandell, Elmer: See—
Neal, Ernest C. 2,776,513.
- Neal, Ernest C. 2,777,234.
- Brandell, Nels O., to Art Metal Construction Co. Library compact storage system. 2,817,444, 12-24-57, Cl. 211—150.
- Brandenberger, Ernest, to American Machine & Foundry Co. Article transferring, loading and unloading. 2,781,121, 2-12-57, Cl. 198—31.
- Brandenberger, Heinrich. Mechanism for copy turning. 2,782,669, 2-26-57, Cl. 82—19.
- Brandenberger, Helmut, to Ebauches S. A. Electronic thermostat. 2,794,105, 5-28-57, Cl. 219—20.
- Brandenburg, Charlotte. Massage device. 2,795,224, 6-11-57, Cl. 128—24.1.
- Brandenburg, Edwin H. Magnetic chucks. 2,790,938, 4-30-57, Cl. 317—163.
- Brandenburg, Miltie F. Hosiery washer. 2,786,346, 3-26-57, Cl. 68—213.
- Brandenthaler, Anthony: See—
Gyllenberg, John L. 2,780,252.
- Gyllenberg, John L. 2,794,465.
- Brandes, Eric A., to Fulmer Research Institute Ltd. Ceramic moulding process. 2,810,182, 10-22-57, Cl. 25—156.
- Brandes, Eric A., and R. B. Waterhouse, to Fulmer Research Institute Ltd. Low emissivity coatings for metal surfaces. 2,781,636, 2-19-57, Cl. 60—39.69.
- Brandes, Herbert: See—
Schmalenbach, Adolf, Pummer, and Brandes. 2,794,515.
- Brandes, Oliver L., and C. B. Pattinson, Jr., to Gulf Research & Development Co. Gasoline fuel system conditioner. 2,789,891, 4-23-57, Cl. 44—53.
- Brandewie, Leo P. Fish and game holding device. 2,795,813, 6-18-57, Cl. 17—8.
- Brandhorst, Alma E. Memorial flower holder markers. 2,777,233, 1-15-57, Cl. 41—10.
- Brandl, Hermann, and J. Willems, to Huttenwerke Phoenix Aktiengesellschaft. Heating furnace plant to be heated with lean gas. 2,791,416, 5-7-57, Cl. 263—15.
- Brandinger, Jay: See—
Hansell, Grant E., and Brandinger. 2,794,120.
- Brandjeng, William B.: See—
Graitis, Albert P., Brandjean, and Neher. 2,777,867.
- Brandner, John D., to Atlas Powder Co. Humectant product of condensation of sorbitol with a 1-2-alkylene oxide. 2,788,372, 4-9-57, Cl. 260—615.
- Brandner, John D., to Atlas Powder Co. Plasticized cellulose derivatives. 2,809,899, 10-15-57, Cl. 106—179.
- Brandon, Clarence W., $\frac{1}{4}$ to O. B. Brandon, $\frac{1}{2}$ to N. A. Hardin, C. H. Newton, and H. H. Wright, and $\frac{1}{2}$ to H. B. Jacobson. Oil recovery process. 2,796,129, 6-18-57, Cl. 166—9.
- Brandon, Joseph J., to Coach & Car Equipment Corp. Adjustable head rest for seat structure. 2,801,678, 8-6-57, Cl. 155—177.
- Brandon, Orpha B.: See—
Brandon, Clarence W. 2,796,129.
- Brandon, Thomas O., to A. G. Spalding & Bros., Inc. Grip member. 2,781,196, 2-12-57, 273—81.3.
- Brandon, Thomas O., to A. G. Spalding & Bros., Inc. Golf clubs. 2,784,969, 3-12-57, Cl. 273—77.
- Brandstetter, Alois: See—
Töpfer, Herbert, Ehrlicke, Brandstetter, and Peissner. 2,803,705.
- Brandstetter, Alois, and W. Rufer, to Siemens & Halske Aktiengesellschaft. Toll line switching for preferred subscribers in telephone systems. 2,805,287, 9-3-57, Cl. 179—27.
- Brandstetter, Alois, and W. Rufer, to Siemens & Halske Aktiengesellschaft. Telephone system. 2,807,670, 9-24-57, Cl. 179—18.

- Brandt Automatic Cashier Co.: *See*—
Jorgensen, Julius. 2,805,676.
Jorgensen, Julius, and Buchholz. 2,805,825.
- Brandt, Axel H., to United States Steel Corp. Hand punch. 2,788,854, 4-16-57, Cl. 164-96.
- Brandt, Charles S.: *See*—
Mayhill, Noble, and Brandt. 2,778,510.
- Brandt Corp.: *See*—
Brandt, Robert C. 2,782,513.
- Brandt, Donald R.: *See*—
Olsin, Raymond J., and Brandt. 2,808,183.
Press, John E., and Brandt. 2,811,329.
- Brandt, Edgar W., to Societe Anonyme Belge de Mecanique et d'Armement. Grenade launcher. 2,778,137, 1-22-57, Cl. 42-1.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und Gewerblichen Anwendungen "Energia." Safety device for projectiles. 2,778,310, 1-22-57, Cl. 102-78.
- Brandt, Edgar W., to Societe Anonyme Belge de Mecanique et d'Armement. Projectile. 2,787,958, 4-9-57, Cl. 102-50.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und Gewerblichen Anwendungen "Energia." Sighting device. 2,788,599, 4-16-57, Cl. 42-1.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und gewerblichen Anwendungen Energia. Practice projectile. 2,793,590, 5-28-57, Cl. 102-41.
- Brandt & Fils: *See*—
Esmerand, Emile. 2,814,691.
- Brandt, Frank G. Composite packing case. 2,804,253, 8-27-57, Cl. 229-23.
- Brandt, Jens J., to Minnesota Plastics. Battery cap. 2,810,777, 10-22-57, Cl. 136-177.
- Brandt, Kurt. Bobbin-canister gripper arrangements for sewing machines. 2,784,690, 3-12-57, Cl. 112-188.
- Brandt, Robert C., to Brandt Corp. Geometrical instruments. 2,782,513, 2-26-57, Cl. 33-95.
- Brandt, William C., L. W. Couillard, H. P. Jacobson, E. L. Martin, and W. C. Perkins, to Collins Radio Co. Phase detector fault indicator. 2,808,564, 10-1-57, Cl. 324-82.
- Brandt, William E., and W. C. Davis, to General Electric Co. Electric fuse and method of constructing same. 2,797,279, 6-25-57, Cl. 200-121.
- Branick, Charles E. Bumper jack. Re. 24,307, 4-23-57, Cl. 254-93.
- Branick, Charles E. Device for mounting rims on pneumatic tire casings. 2,777,507, 1-15-57, Cl. 157-1.
- Branick, Charles E. Device for mounting and dismounting tubeless tires on drop center rims. 2,795,268, 6-11-57, Cl. 157-128.
- Branick, Charles E. Machine for spreading and inspecting pneumatic tire casings. 2,797,890, 7-2-57, Cl. 254-50.3.
- Branick, Charles E. Device for removing pneumatic tires from their rims. 2,798,540, 7-9-57, Cl. 157-126.
- Branick, Charles E. Fluid pressure operated jack. 2,805,839, 9-10-57, Cl. 254-93.
- Branies, Marvin E.: *See*—
Rowland, Everett, Tempest, and Branies. 2,815,226.
- Brannan, Lee. Knife sharpener. 2,785,517, 3-19-57, Cl. 51-213.
- Brannin, Richard S., and G. F. Jude, to Sperry Rand Corp. Safety system for navigable craft. 2,809,000, 10-8-57, Cl. 244-77.
- Bransdor, Chester E., to Teletypesetter Corp. Scale mechanism. 2,801,695, 8-6-57, Cl. 164-112.
- Bransfield, Robert C.: *See*—
Sullivan, Herbert M., Jr., and Bransfield. 2,814,995.
- Branske, Norbert A. Lawn edger with vertically oscillating blade. 2,776,535, 1-8-57, Cl. 56-241.
- Branson, Charles D., to Robertshaw-Fulton Controls Co. Thermostatic mixing valve. 2,810,523, 10-22-57, Cl. 236-12.
- Branson, David E., and W. T. Rea, to Bell Telephone Laboratories, Inc. Number display device. 2,784,397, 3-5-57, Cl. 340-378.
- Brant, Robert J. Trenching machine. 2,777,219, 1-15-57, Cl. 37-86.
- Brant, Robert J. Apparatus for cleaning and repairing pipe lines. 2,808,852, 10-8-57, Cl. 133-97.
- Brantford Coach and Body Ltd.: *See*—
Sweet, Edmund G. F. 2,804,309.
- Branum, Ernest L.: *See*—
Bender, Ralph E., Branum, Buck, and Oliphant. 2,806,535.
- Brasch, Arno, W. Huber, and A. Waly, to Electronized Chemicals Corp. Electronic discharge tubes. 2,796,545, 6-18-57, Cl. 313-74.
- Brasch, Arno, W. Huber, and A. Waly, to Electronized Chemicals Corp. Method of sterilizing. 2,806,797, 9-17-57, Cl. 99-221.
- Brasch, Arno, W. Huber, and A. Waly, to Electronized Chemicals Corp. Method of producing a sterile meat package. 2,807,549, 9-24-57, Cl. 99-174.
- Brasch, Arno, W. Huber, and A. Waly, to Electronized Chemicals Corp. Method of sterilizing. 2,807,551, 9-24-57, Cl. 99-221.
- Brasco Mfg. Co.: *See*—
Shrode, Wilford E. 2,813,313.
- Brashear, Turner G., Jr., to American Brake Shoe Co. Welding apparatus. 2,810,063, 10-15-57, Cl. 219-130.
- Brasher, James H. Multi-purpose tool connection. 2,805,105, 9-3-57, Cl. 306-6.
- Brasier, Oscar H. Toy coin bank. 2,784,903, 3-12-57, Cl. 232-4.
- Braskamp, Willem H. Crank disk mechanism. 2,797,593, 7-2-57, Cl. 74-599.
- Braskamp, Willem H. Crank mechanism with a stroke that can be adjusted during operation. 2,803,148, 8-20-57, Cl. 74-600.
- Brassel, Jakob, to Ciba Ltd. Metalliferous monoazo-dyestuffs. 2,788,344, 4-9-57, Cl. 260-151.
- Brassel, Jakob, and A. Buehler, to Ciba Ltd. Process for dyeing nitrogenous fibers with metalliferous monoazo dyestuffs. 2,806,760, 9-17-57, Cl. 8-42.
- Brassett, James E.: *See*—
Arata, Vincenzo S. 2,805,142.
- Brassett Oxygen Technik A.G.: *See*—
Richter, Adolf. 2,815,275.
- Brasseur, Ernest J. Device for removing circumferential sealing bands from cans. 2,814,412, 11-26-57, Cl. 220-52.
- Braswell, John W. Apparatus for regenerating domestic water softening tanks. 2,804,977, 9-3-57, Cl. 210-95.
- Brathe, Karl B., to Aktiebolaget Bofors. Breech block for a gun. 2,800,837, 7-30-57, Cl. 89-24.
- Brattain, Walter H., and C. G. B. Garrett, to Bell Telephone Laboratories, Inc. Protection of semiconductive devices by gaseous ambients. 2,777,974, 1-15-57, Cl. 317-234.
- Bratton, Alfred L., to Oxy-Catalyst, Inc. Support for wire filament. 2,801,906, 8-6-57, Cl. 23-288.
- Bratton, Alfred L., to Oxy-Catalyst, Inc. Purification of exhaust gases. 2,807,930, 10-1-57, Cl. 60-30.
- Bratz, Louis E., Sr. Fishing plug. 2,778,143, 1-22-57, Cl. 43-42.05.
- Bratz, Otto J., and V. C. J. Peterson, to American Chain & Cable Co., Inc. Lubricant for Bowden wire mechanisms. 2,807,583, 9-24-57, Cl. 252-18.
- Brauchler, Charles A. Multiple saws for cutting die block shanks. 2,803,869, 8-27-57, Cl. 29-70.
- Brauer, Charles W. Excavating and loading device. 2,801,479, 8-6-57, Cl. 37-189.
- Bräuer, Willi, and O. Oeckl, to Langenstein und Schemann A.-G. Control circuit for a hydraulic press. 2,784,619, 3-12-57, Cl. 78-42.
- Brauer, William F., to Western Electric Co., Inc. Induction heating apparatus. 2,805,310, 9-3-57, Cl. 219-10.79.
- Brauer, William F., and T. W. Kalbow, to Western Electric Co., Inc. Brazing apparatus. 2,784,285, 3-5-57, Cl. 219-7.5.
- Brauer, William F., L. O. Reichelt, and R. L. Surver, to Western Electric Co., Inc. Brazing apparatus and floating work support therefor. 2,807,697, 9-24-57, Cl. 219-9.5.
- Braumbaugh, Isaac V. Thermostatic valve. 2,801,800, 8-6-57, Cl. 236-99.
- Braun, Anton. Brace locking device. 2,813,759, 11-19-57, Cl. 304-40.
- Braun, Artur, to M. Braun, a partnership consisting of E. and A. Braun. Shear plate for dry shavers. 2,817,145, 12-24-57, Cl. 30-43.
- Braun, August J. Hinge assembly. 2,779,967, 2-5-57, Cl. 16-63.
- Braun, C. F., & Co.: *See*—
Dorrel, Harold I., and Hilker. 2,801,647.
Peaslee, Robert V., and Haines. 2,794,334.
Wansink, Leo P., and Haynes. 2,785,882.
- Braun, Eduard. Releasable ski binder. 2,793,869, 5-28-57, Cl. 280-11.35.
- Braun, Erwin: *See*—
Braun, Artur. 2,817,145.
- Braun, Franz, to F. X. Meiller. Loading apparatus. 2,778,513, 1-22-57, Cl. 214-131.
- Braun, Fred H. Captive tube closure. 2,794,581, 6-4-57, Cl. 222-521.
- Braun, Karl J., to Sperry Rand Corp. Transposing mechanism in card controlled printing machines. 2,817,291, 12-24-57, Cl. 101-93.
- Braun, Leonard A., to E. J. Longyear Co. Portable drill rig. 2,792,198, 5-14-57, Cl. 255-19.
- Braun, Ludwig, Jr., to Anton Electronic Laboratories, Inc. Meter protective device. 2,812,476, 11-5-57, Cl. 317-16.
- Braun, Max: *See*—
Braun, Artur. 2,817,145.
- Braun, Ottwin L., to Reliance Steel Products Co. Furnace door frame. 2,781,747, 2-19-57, Cl. 122-499.
- Braun, Ottwin L., to Reliance Steel Products Co. Water-cooled furnace door frame. 2,804,058, 8-27-57, Cl. 122-499.
- Braun, Robert A.: *See*—
Hauptschein, Murray, and Braun. 2,802,010.
- Braun, Robert T., and C. A. Schreiber, to Dorr-Oliver Inc. Hydrocyclones. 2,816,658, 12-17-57, Cl. 209-211.
- Braun, Roland: *See*—
Stoecklin, Josef, and Braun. 2,811,680.
- Braun, Roland, to Aktiengesellschaft Brown, Boveri & Cie. Ferraris type torque system for current-responsive time relays. 2,815,471, 12-8-57, Cl. 317-167.
- Braun, Ross O.: *See*—
McKay, Arthur F., Braun, and Paris. 2,816,896.
- Braunberger, Ray A. Fifth wheel plate mounting device. 2,779,605, 1-29-57, Cl. 230-440.

- Braunberger, Ray A. Compression type shock absorbing bearing for fifth wheel tilting plates and the like. 2,784,009, 3-5-57, Cl. 280-440.
- Braune, Rudi. Surface grip or strake devices for vehicle wheels. 2,804,904, 9-3-57, Cl. 152-219.
- Braunitzer, Andrew: *See—*
- Tvorik, Stephen W., and Braunitzer. 2,814,080.
- Braunlich, Richard H., to American Viscose Corp. Apparatus for the production of artificial slubbed filaments. 2,780,833, 2-12-57, Cl. 18-8.
- Braunlich, Richard H., to American Viscose Corp. Filter construction. 2,784,843, 3-12-57, Cl. 210-164.
- Braunlich, Richard H., to American Viscose Corp. Alternate flow control for fluid streams. 2,814,033, 12-3-57, Cl. 137-7.
- Braunlich, Richard H., to American Viscose Corp. Spinneret mixing element. 2,815,532, 12-10-57, Cl. 18-8.
- Braunlich, Richard H., H. N. Ghenn, R. C. Messmer, and R. A. Randolph, to American Viscose Corp. Spinneret assembly. 2,803,851, 8-27-57, Cl. 18-8.
- Braunschweigische Maschinenbauanstalt A. G.: *See—*
- Kothe, Walter, Schroder, and Wildhagen. 2,793,582.
- Braunstein, Aron. Egg container. 2,784,897, 3-12-57, Cl. 229-28.
- Braunstein, Aron. Sanitary non-refillable paper container. 2,810,508, 10-22-57, Cl. 229-37.
- Braunstein, Jules. Method for making finger ring with slide connector. 2,793,422, 5-28-57, Cl. 29-160.6.
- Braunstein, Lee G., and F. W. Kulicke, Jr. Film cutter. 2,815,075, 12-3-57, Cl. 164-42.
- Brausam, George H., to Besly-Wells Corp. Brick grinding machine. 2,803,099, 8-20-57, Cl. 51-273.
- Brausch, Joseph. Manually actuated semi-rotatable twin toothbrush. 2,799,878, 7-23-57, Cl. 15-22.
- Brautigam, Richard H.: *See—*
- Russell, Robert G., and Brautigam. 2,786,637.
- Brave, Edward T. Tell-tale indicator. 2,796,039, 6-18-57, Cl. 116-114.
- Brawand, Franklin M. Split choker hook. 2,777,182, 1-15-57, Cl. 24-242.
- Braxton, Daniel. Toe yoke. 2,818,062, 12-31-57, Cl. 128-81.
- Bray, Donald L., and C. E. Andrews, to United Shoe Machinery Corp. Gaging instruments for shoe lasts. 2,807,885, 10-1-57, Cl. 33-180.
- Bray Oil Co.: *See—*
- Bray, Ulric B. 2,781,315.
- Bray, Ulric B. 2,781,316.
- Bray, Ulric B. 2,781,317.
- Voorhees, Vanderveer. 2,809,209.
- Bray, Overton. Holder and dispenser. 2,818,319, 12-31-57, Cl. 312-42.
- Bray, Ulric B., to Bray Oil Co. Method of purifying, concentrating and converting petroleum sulfonates with ketones. 2,781,315, 2-12-57, Cl. 252-33.
- Bray, Ulric B., to Bray Oil Co. Method of purifying, concentrating and converting petroleum sulfonates with ethers. 2,781,316, 2-12-57, Cl. 252-33.
- Bray, Ulric B., to Bray Oil Co. Method of purifying, concentrating and converting petroleum sulfonates with glycols. 2,781,317, 2-12-57, Cl. 252-33.
- Bray, Ulric B., and V. Voorhees. Production of ammonium sulfate and carbon from sulphuric acid sludges. 2,809,094, 10-8-57, Cl. 23-119.
- Bray, W. E., & Co. Ltd.: *See—*
- Harrowell, Douglas W. J., and Pink. 2,799,411.
- Brayton, Ellery M., to Industrial Development Corp. Machine for applying eye fasteners. 2,794,981, 6-11-57, Cl. 1-4.
- Brazier, Leslie R., to Dunlop Tire and Rubber Corp. Rotary molding machines. 2,803,853, 8-27-57, Cl. 18-20.
- Brazzil, Maurice G.: *See—*
- Parker, James R., and Brazzil. 2,800,942.
- Brea Chemicals, Inc.: *See—*
- Fifer, Harvey R. 2,814,303.
- McKinnis, Art C. 2,811,560.
- Breadner, Robert L., T. R. Neill, and C. H. Simms, to The General Electric Co. Ltd. Manufacture of electrical devices having gas-filled sealed envelopes. 2,787,510, 4-2-57, Cl. 316-19.
- Bready, William M. Heat exchange apparatus for liquids containing solids. 2,811,336, 10-29-57, Cl. 257-234.
- Breakell, James H., to American Viscose Corp. Drying roll. 2,783,550, 3-5-57, Cl. 34-124.
- Brearily Co., The: *See—*
- Provi, Mike A. 2,788,963.
- Provi, Mike A. 2,812,422.
- Breazeale, Francis B., and H. D. Irvin, to American Enka Corp. Apparatus for producing nub yarn. 2,787,221, 4-2-57, Cl. 103-35.
- Breck John H., Inc.: *See—*
- Blair, Oda S. 2,775,972.
- Breckenridge, Robert G., and W. Oshinsky, to the United States of America as represented by the Secretary of the Army. Photoconductive cell. 2,793,275, 5-21-57, Cl. 201-63.
- Breckman, Jack, to Radio Corp. of America. Bistable circuit. 2,788,473, 4-9-57, Cl. 317-151.
- Breckman, Jack N., and J. Strip, to the United States of America as represented by the Secretary of the Army. Switched automatic gain control. 2,799,735, 7-16-57, Cl. 179-171.
- Bredall, Charles H., and J. B. Shannon. Temperature compensated resonant cavity. 2,779,004, 1-22-57, Cl. 333-82.
- Bredenberg, Alfred, Jr., to General Electric Co. Differential relay protective system. 2,811,684, 10-29-57, Cl. 318-104.
- Bredensteiner, Lee, and S. Simmons. Baled hay fork. 2,780,487, 2-5-57, Cl. 294-67.
- Bredereck, Hellmut, E. Bader, W. Nubling, and A. Wohnhas, to W. C. Heraeus G. m. b. H., and Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Improvements in the production of polymerization products using halogen compounds to increase the effectiveness of sulfone polymerization catalysts. 2,776,952, 1-8-57, Cl. 260-80.
- Bredereck, Hellmut, E. Bader, A. Wohnhas, and W. Nubling, to W. C. Heraeus G. m. b. H. Hanau (Main) and Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler. Polymerization process using sulfone-containing accelerators. 2,779,751, 1-29-57, Cl. 260-89.5.
- Bredimus, Robert L.: *See—*
- Olson, Mark W., and Bredimus. 2,807,047.
- Bredtschneider, Kurt B., and R. Fennema, to Crane Co. Gate valve. 2,778,600, 1-22-57, Cl. 251-196.
- Bredtschneider, Kurt E. B.: *See—*
- Laird, Hubert C., and Bredtschneider. 2,815,038.
- Bredtschneider, Kurt E. B., to Crane Co. Valve construction. 2,787,439, 4-2-57, Cl. 251-329.
- Bredtz, Nikolajs. Process for hardening steel. 2,778,756, 1-22-57, Cl. 148-21.5.
- Bredtz, Nikolajs, and D. A. Canonico, to Lithium Corp. of America, Inc. Brazing alloys. 2,793,115, 5-21-57, Cl. 75-173.
- Breeback, Rudolph H.: *See—*
- Day, Carl L., and Breeback. 2,794,455.
- Breeback, Rudolph H., to Crown Cork & Seal Co., Inc. Filling structure. 2,801,650, 8-6-57, Cl. 141-1.
- Breed, Arie E., to Deere Manufacturing Co. Crop harvesting rotor having pivoted crop engaging members. 2,777,268, 1-15-57, Cl. 55-118.
- Breed, Carroll M. Smoking pipe. 2,797,690, 7-2-57, Cl. 131-203.
- Breed, Roland N., W. B. Groth, G. C. Irwin, L. A. Kille, and G. Riggs, to Bell Telephone Laboratories, Inc. Tape-to-card converter circuit. 2,780,410, 2-5-57, Cl. 235-61.
- Breederveld, Heyme, and H. I. Waterman, to Shell Development Co. Silicon amines. 2,807,635, 9-24-57, Cl. 260-448.2.
- Breeding, David C., to General Motors Corp. Refrigerating apparatus. 2,780,442, 2-5-57, Cl. 257-3.
- Breehl, George F. Interlocking sheet metal joint. 2,802,487, 8-13-57, Cl. 138-74.
- Breen, Alvin L., to E. I. du Pont de Nemours and Co. Bulky continuous filament yarn. 2,783,609, 3-5-57, Cl. 57-140.
- Breese, Allan H. Cervical brace. 2,806,471, 9-17-57, Cl. 128-87.
- Breese Burners, Inc.: *See—*
- Breese, James L. 2,781,086.
- Breese, James L., to Breese Burners, Inc. Lighter torch assembly for a heater of the vapor generating type. 2,781,086, 2-12-57, Cl. 158-10.
- Breese, John M., and W. R. Weaver. Dispensing apparatus. 2,789,590, 4-23-57, Cl. 141-159.
- Breese, Lemuel R., to North Electric Co. Telemetering. 2,788,515, 4-9-57, Cl. 340-180.
- Breeze Corp., Inc.: *See—*
- Harvender, Nelson M. 2,796,635.
- Meretev, Zolitan N. 2,786,985.
- November, Milton H. 2,798,146.
- Breger, Miles: *See—*
- Mulligan, Thomas C. 2,797,364.
- Breggin, Arnold H., to General Dynamics Corp. Electrical tester. 2,810,109, 10-15-57, Cl. 324-51.
- Breggin, Arnold H., to General Dynamics Corp. Pulse monitor. 2,812,513, 11-5-57, Cl. 340-271.
- Bregman, Myron W., to Watson Elevator Co., Inc. Direct current motor protective device. 2,804,587, 8-27-57, Cl. 318-445.
- Breguet, Louis. Aircraft structural elements and especially wings from reinforced concrete. 2,776,100, 1-1-57, Cl. 244-124.
- Breguet, Louis. Aircraft structural elements made out of reinforced concrete. 2,787,042, 4-2-57, Cl. 25-118.
- Brehm, Allen E.: *See—*
- Dieman, Edgar A., and Brehm. 2,796,353.
- Brehm, Allen E., and A. W. Lindert, to Standard Oil Co. Corrosion-inhibiting and fingerprint-removing composition. 2,796,408, 6-18-57, Cl. 252-161.
- Brehmer, Melvin L. Diesel fuel injector conversion. 2,793,076, 5-21-57, Cl. 299-107.2.
- Breidenbaugh, Christian P.: *See—*
- Turner, James F., and Breidenbaugh. 2,777,406.
- Breidenbaugh, Lillie M.: *See—*
- Turner, James F., and Breidenbaugh. 2,777,406.
- Breidert, G. C. Co., The: *See—*
- Breidert, George C. 2,782,705.
- Breidert, George C., to The G. C. Breidert Co. Grain storage structure and method. 2,782,705, 2-28-57, Cl. 98-55.
- Breidert, George C. Ventilating fan. 2,801,353, 7-30-57, Cl. 310-60.
- Breier, Irwin L.: *See—*
- Cheney, Harry A., and Breier. 2,807,647.
- Breier, Sidney: *See—*
- Svirsky, Bennett. 2,777,460.
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- Breig, Kurt E. Glietenberg, and L. Nüssler, to Farbenfabriken Bayer Aktiengesellschaft. Chrome containing monoazo dyestuffs. 2,816,101, 12-10-57, Cl. 260-147.
- Breining, Elmer R., and W. R. Vincent, to General Motors Corp. Antimony plating bath. 2,817,628, 12-24-57, Cl. 204-45.
- Breisch, John H. Grinding machine. 2,787,869, 4-9-57, Cl. 51-101.
- Breitenbach, Wilhelm, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Syringe with aspiration device for cylindrical ampoules. 2,789,559, 4-23-57, Cl. 128-218.
- Breitenborn, Ernst. Padding for seats, mattresses and the like. 2,816,600, 12-17-57, Cl. 155-184.
- Breitenstein, Charles T.: *See*—
Russell, Obed M., and Breitenstein. 2,804,763.
Umbdenstock, Walter. 2,792,676.
Umbdenstock, Walter. 2,795,091.
- Breitenstein, Charles T., to R. T. Moloney. Bowling pin mechanism. 2,800,650, 7-23-57, Cl. 340-373.
- Breitman, H. M., & Co., Inc.: *See*—
Breitman, Herbert. 2,794,188.
- Breitman, Herbert, to H. M. Breitman & Co., Inc. Bow type tie constructions. 2,794,188, 6-4-57, Cl. 2-154.
- Breitmayer, Theodore: *See*—
Stanton, Walter H., and Breitmayer. 2,794,827.
- Breland, Keller, to General Mills, Inc. Trained animal feeder. 2,796,044, 6-18-57, Cl. 119-29.
- Breland, Keller B. Animal operation and reward demonstration apparatus. 2,796,045, 6-18-57, Cl. 119-29.
- Brelant, Sam: *See*—
Chirtel, Joseph S., Mark, and Brelant. 2,786,045.
- Brembeck, Howard S. Poultry nest assembly. 2,781,023, 2-12-57, Cl. 119-45.
- Brembeck, Howard S. Constant water level poultry fountain. 2,790,417, 4-30-57, Cl. 119-81.
- Bremer, Andrew E., G. Holzmann, and P. R. Hoyt, to Shell Development Co. Apparatus for temperature control of chemical reaction vessels. 2,788,264, 4-9-57, Cl. 23-284.
- Bremer, Harris B., E. G. Lane, J. W. Scott, and G. M. Peterson, to Boeing Airplane Co. Sealed bulkhead installations of electric wires. 2,813,692, 11-19-57, Cl. 248-56.
- Bremer, Harry E. Toaster. 2,796,824, 6-25-57, Cl. 99-447.
- Bremer, Hermann F., to Carbon Heater Corp. Electrical water heater. 2,776,359, 1-1-57, Cl. 219-40.
- Bremer, Hermann F. Expanding core type electric water heater. 2,788,428, 4-9-57, Cl. 219-40.
- Bremer, Joseph W., Jr.: *See*—
Eagle, Edward, and Bremer. 2,797,997.
- Bremer, Robert D., to General Motors Corp. Electric heater arrangement. 2,799,767, 7-16-57, Cl. 219-38.
- Bremmer, Gerald R. Potato peeler. 2,811,995, 11-5-57, Cl. 146-49.
- Brems, John H., and H. Mareis, to Expert Die & Tool Co., Inc. Wire mesh welding machine. 2,810,817, 10-22-57, Cl. 219-87.
- Brendal, Donald H., to United Aircraft Corp. Weathercocking supersonic wedge diffuser for air inlets in aircraft. 2,776,806, 1-8-57, Cl. 244-53.
- Brendel, Ludwig: *See*—
Rhein, Hans, and Brendel. 2,799,183.
- Brendel, Theodor, to Agfa Camera-Werk Aktiengesellschaft. Three-membered photographic objective. 2,784,642, 3-12-57, Cl. 88-57.
- Brendel, Theodor, and H. Lautenbacher, to Agfa Camera-Werk Aktiengesellschaft. Four-membered Gauss type double photographic objective. 2,784,643, 3-12-57, Cl. 88-57.
- Brendel, Theodor, and H. Lautenbacher, to Agfa Camera-Werk Aktiengesellschaft. Four component photographic objective formed of six lens elements. 2,784,646, 3-12-57, Cl. 88-57.
- Brenden, Kermit E., and E. M. Tobin, to Boeing Airplane Co. Aircraft wing and aileron controls. 2,788,182, 4-9-57, Cl. 244-48.
- Brendle, John A., to Swift & Co. Dispenser for particulate material. 2,787,248, 4-2-57, Cl. 119-52.
- Brengman, Fred C.: *See*—
Life, Richard E., and Brengman. 2,789,323.
- Brenholdt, Irving R., to the United States of America as represented by the United States Atomic Energy Commission. Electron emission regulating means. 2,813,978, 11-19-57, Cl. 250-41.9.
- Brennan, Francis P. Garment supporting structure. 2,805,780, 9-10-57, Cl. 211-123.
- Brennan, James H., C. R. Truxal, and F. Ulrich, to Pittsburgh Brass Mfg. Co. Coupling for threadless pipes. 2,805,873, 9-10-57, Cl. 285-317.
- Brennan, James J., and M. Toscano, to United States of America as represented by the Secretary of the Navy. Hoisting support for automotive vehicles and the like. 2,818,206, 12-31-57, Cl. 294-67.
- Brennan, Joseph B. Method of making a closure and terminal construction for electrolytic devices. 2,776,467, 1-8-57, Cl. 29-155.55.
- Brennan, Joseph B. Method and apparatus for welding metal elements. 2,777,929, 1-15-57, Cl. 219-10.
- Brennan, Joseph B. Continuous casting method and apparatus. 2,782,473, 2-26-57, Cl. 22-57.2.
- Brennan, Joseph B. Apparatus for casting air foils and the like. 2,782,476, 2-26-57, Cl. 22-79.
- Brennan, Joseph B. Apparatus for spraying molten materials. 2,783,086, 2-26-57, Cl. 299-28.6.
- Brennan, Joseph B. Continuous casting apparatus. 2,787,816, 4-9-57, Cl. 22-57.4.
- Brennan, Joseph B. Automatic feed casting apparatus. 2,787,817, 4-9-57, Cl. 22-73.
- Brennan, Joseph B. Loud-speakers. 2,789,161, 4-16-57, Cl. 179-115.5.
- Brennan, Joseph B. Apparatus for making articles from powdered metal briquets. 2,803,046, 8-20-57, Cl. 22-75.
- Brennan, Joseph B. Casting apparatus. 2,804,664, 9-3-57, Cl. 22-57.2.
- Brennan, Joseph B. Welding of tubes and the like. 2,808,493, 10-1-57, Cl. 219-9.5.
- Brennan, Joseph B. Apparatus for and method of producing metal powders and metal strips. 2,816,826, 12-17-57, Cl. 75-5.
- Brennan, Joseph C. Process and quenching bath for hardening steel articles. 2,817,612, 12-24-57, Cl. 148-28.
- Brennan, Joseph H., to Union Carbide and Carbon Corp. Vanadium-carbon-iron alloy. 2,791,501, 5-7-57, Cl. 75-129.
- Brennan, Joseph H., to Union Carbide and Carbon Corp. Process for recovering molybdenum. 2,796,344, 6-18-57, Cl. 75-121.
- Brennan, Thomas F.: *See*—
Wigert, George W., and Brennan. 2,791,359.
- Brennan, Thomas W., and M. S. Cohen, to Reaction Motors, Inc. Flare. 2,814,249, 11-26-57, Cl. 102-7.
- Brennan, Ward T.: *See*—
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- Brennan, William J., to James Lees and Sons Co. Pile fabric trimming device. 2,806,283, 9-17-57, Cl. 30-294.
- Brennan, William T. Reverse polarity switch. 2,808,481, 10-1-57, Cl. 200-61.58.
- Brennecke, Carl, to Siemens-Schuckertwerke Aktiengesellschaft. Turbine construction. 2,781,999, 2-19-57, Cl. 253-39.
- Brennelsen, Erich, R. Huhs, and A. Siebert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Disazo-dyestuffs. 2,816,886, 12-17-57, Cl. 260-160.
- Brenneke, Arthur M., to Perfect Circle Corp. Cylinder block and liner construction and method of assembling the same. 2,783,748, 3-5-57, Cl. 123-41.83.
- Brenneke, Arthur M., to Perfect Circle Corp. Combined valve stem seal and guide. 2,813,524, 11-19-57, Cl. 123-188.
- Brenneke, Arthur M., to Perfect Circle Corp. Engine block construction. 2,817,327, 12-24-57, Cl. 123-195.
- Brenneke, Wayne R. Page turning device. 2,791,849, 5-14-57, Cl. 40-104.
- Brenneman, Richard S.: *See*—
Glenn, John F., Clancy, and Brenneman. 2,794,016.
- Brennen, Ronald F., and J. A. Bucci. Control mechanism for welding apparatus. 2,785,282, 3-12-57, Cl. 219-89.
- Brennen, Ronald F., and J. A. Bucci, to Welding Industry Research & Patent Corp. Device for automatically closing welder switch. 2,804,536, 8-27-57, Cl. 219-110.
- Brenner, Al. Combination awning and window structure. 2,787,032, 4-2-57, Cl. 20-62.
- Brenner, Sidney S., to General Electric Co. Plated refractory metals. 2,805,192, 9-3-57, Cl. 204-37.
- Brennish, John. Protective shield or towel. 2,794,985, 6-11-57, Cl. 2-49.
- Brenny, Stanley J. Corpse handling device. 2,792,945, 5-21-57, Cl. 212-135.
- Brentani, Ottone. Multiple cutter rotary shaver having uninterrupted shaving surface. 2,815,571, 12-10-57, Cl. 30-43.
- Brentano, Willy, H. Grossmann, and M. Muller, to Durand & Huguenin A. G. Water-soluble mordant azophthalocyanine dyestuffs and process for making them. 2,776,957, 1-8-57, Cl. 260-146.
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Gray, John. 2,802,342.
- Breskin, Charles A., and G. E. Stahl. Compartmented valise or traveling bag. 2,804,183, 8-27-57, Cl. 190-51.
- Breslav, Jack: *See*—
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Elberty, Robert S. 2,816,793.
- Bresler, Louis L. Note paper dispenser. 2,791,447, 5-7-57, Cl. 281-44.
- Bresler, Sidney A., to Chemical Construction Corp. Automatically controlled gas compression for ammonia synthesis. 2,799,562, 7-16-57, Cl. 23-260.
- Bressler, Louis R. Brush. 2,796,620, 6-25-57, Cl. 15-201.
- Bressler, Robert E. Fuel burner control apparatus. 2,808,209, 10-1-57, Cl. 236-1.
- Brest, Harry C.: *See*—
Ballentine, William I., Jr., and Brest. 2,781,441.
- Bretford Mfg., Inc.: *See*—
Petrick, Edward J. 2,808,219.
- Bretl, Norbert C., 50% to C. W. Peickert. Bait harness and fishhook. 2,782,550, 2-26-57, Cl. 43-44.4.
- Breton, Jean. Grab buckets. 2,795,061, 6-11-57, Cl. 37-184.
- Bretscher, Otto, to Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G. Device for grinding the slideways of machine tools. 2,812,620, 11-12-57, Cl. 51-45.

- Bretschneider, Hans, to International Standard Electric Corp. Arrangement for use in conveying plants employing magnetic destination characteristics. 2,784,851, 3-12-57, Cl. 214-11.
- Bretschneider, Hans, to International Standard Electric Corp. Contact chain circuit for the consecutive preparation of idle outlets in telephone systems. 2,787,741, 4-2-57, Cl. 317-139.
- Brett, William J., to Milford Products Corp. Skirt form. 2,784,413, 3-12-57, Cl. 2-216.
- Brettell, George A., to Ampex Corp. Loud-speaker assembly and system. 2,814,354, 11-26-57, Cl. 181-31.
- Brettell, George A., Jr.: See—
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- Brettell, George A., Jr., to the United States of America as represented by the Secretary of the Navy. Plotting electric servo system. 2,817,801, 12-24-57, Cl. 318-28.
- Bretz, Bernard J. Boring bar assembly. 2,784,617, 3-12-57, Cl. 77-36.
- Bretz, Frank E., Jr., to Delta Dynamics, Inc. Metering valve. 2,781,954, 2-19-57, Cl. 222-394.
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- Breuer, Alfred, and F. Wirth, to Schloemann Aktiengesellschaft. Overhung rotary shears for continuously travelling rolled material. 2,780,114, 2-5-57, Cl. 74-665.
- Breuning, Ernst. Supervision and control of textile manufacturing processes. 2,804,744, 9-3-57, Cl. 57-81.
- "Brevets Aero-Mecaniques", S. A.: See—
Birkigt, Marc. 2,788,715.
Cook, Frederick J., and Knowles. 2,811,084.
Maillard, Bernard. 2,814,234.
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- Brewer, Alexander F.: See—
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- Brewer, Aubrey K., and T. I. Taylor, to the United States of America as represented by the United States Atomic Energy Commission. Still column with concentric condenser. 2,780,589, 2-5-57, Cl. 202-153.
- Brewer, Clarence T. Housing for motor or other apparatus. 2,804,559, 8-27-57, Cl. 310-254.
- Brewer, Clarence T., to American Can Co. Paper cups. 2,805,808, 9-10-57, Cl. 229-15.
- Brewer, E. F. Co.: See—
Brewer, Ellsworth F. 2,817,406.
Kummer, Walter A. 2,800,189.
- Brewer, Ellsworth F., to E. F. Brewer Co. Power mower guiding and riding attachment. 2,817,406, 12-24-57, Cl. 180-11.
- Brewer, George R., to Hughes Aircraft Co. Electron gun. 2,811,667, 10-29-57, Cl. 315-15.
- Brewer, George R., to Hughes Aircraft Co. Electron gun. 2,817,033, 12-17-57, Cl. 313-82.
- Brewer, George R., H. R. Johnson, and C. K. Birdsall, to Hughes Aircraft Co. Traveling-wave tube. 2,811,663, 10-29-57, Cl. 315-35.
- Brewer, George W.: See—
Mickus, Robert R., and Brewer. 2,808,333.
- Brewer, Nathaniel, to Fischer & Porter Co. Viscosity meter. 2,781,662, 2-19-57, Cl. 73-56.
- Brewer, Sherman T., to Bell Telephone Laboratories, Inc. Supervisory circuit. 2,783,307, 2-26-57, Cl. 179-18.
- Brewer, William B., and E. Hinkle. Pattern drum for knitting machines. 2,805,563, 9-10-57, 66-156.
- Brewster, Arthur E., to International Standard Electric Corp. Tape recording apparatus. 2,780,670, 2-5-57, Cl. 178-17.
- Brewster, Arthur E., to International Standard Electric Corp. Regenerative telegraph repeaters. 2,802,052, 8-6-57, Cl. 178-70.
- Brewster, Donald B.: See—
Janke, Edward J., and Brewster. 2,798,426.
Mitchell, Lester F., and Brewster. 2,813,482.
- Breymeler, Rudolph T., to Union Carbide Corp. Magnetically-impelled arc welding method and apparatus. 2,809,277, 10-8-57, Cl. 219-123.
- Breznay, Pete. Door planing jack. 2,796,096, 6-18-57, Cl. 144-296.
- Brezosky, Bernard J., to General Electric Co. Waste disposal apparatus. 2,805,826, 9-10-57, Cl. 241-100.5.
- Brian, Walter P.: See—
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- Briar Hill Stone Co., The: See—
Blum, Harold T. 2,797,679.
Blum, Harold T. 2,798,473.
- Brice, George L. Slidable gate construction for motor vehicles. 2,797,959, 7-2-57, Cl. 296-50.
- Brice, Robert M.: See—
Cox, Robert P., and Brice. 2,812,343.
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- Brickenkamp, Roland W., and C. L. Schmidt, to National Lead Co. Method for making composite titanium dioxide rutile pigment. 2,818,347, 12-31-57, Cl. 106-300.
- Bricker, Carl E., to The Goodyear Tire & Rubber Co. Brakes having compressed air return means therein. 2,817,421, 12-24-57, Cl. 188-152.
- Brickler, Edward G. Fishing float. 2,792,665, 5-21-57, Cl. 43-44.87.
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- Brickman, Alan E., to United States Steel Corp. Band seeding attachment for grain drills. 2,808,792, 10-8-57, Cl. 111-80.
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- Bridenbaugh, Paul K., to Supreme Products Corp. Self-aligning bearing. 2,813,762, 11-19-57, Cl. 308-72.
- Bridenstine, Lewis R. Trimmed edge removing device. 2,786,673, 3-26-57, Cl. 271-2.3.
- Bridevaux, Georges, to Tavanens Watch Co. S. A. Alarm time-piece. 2,789,410, 4-23-57, Cl. 58-21.1.
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- Bridge, Eric K. Apparatus for tunnelling. 2,804,754, 9-3-57, Cl. 61-84.
- Bridgeport Brass Co.: See—
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- Bridgeport Metal Goods Mfg. Co., The: See—
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- Bridges, Ervin R., to Waldenslan Hosiery Mills, Inc. Argyle stocking with cushion high splice and method. 2,800,782, 7-30-57, Cl. 66-179.
- Bridges, Howard S., Sr. 50% to Midway Hosiery Mills, Inc. Knitting machine. 2,812,651, 11-12-57, Cl. 66-155.
- Bridges, Jack E., to Zenith Radio Corp. Encoding mechanism for a subscription type of communication system. 2,778,009, 1-15-57, Cl. 340-348.
- Bridges, Ronald P., to A. B. Chance Co. Rotary switch contact assembly. 2,786,121, 3-19-57, Cl. 200-170.
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- Bridwell, Phillip P.: See—
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- Briechele, Joseph, to Scovill Mfg. Co. Air line lubricator. 2,807,332, 9-24-57, Cl. 184-55.
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- Briese, John E. Drinking tube. 2,811,808, 11-5-57, Cl. 46-116.
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- Briggs, Donald E. Tractor hitch. 2,809,055, 10-8-57, Cl. 280-504.
- Briggs Filtration Co., The: See—
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- Briggs, Lloyd A., W. M. Lehrer, and B. D. Eisner, to American Photocopy Equipment Co. Developing and printing apparatus. 2,786,401, 3-26-57, Cl. 95-89.
- Briggs, Lyle E. Toy theatre. 2,784,523, 3-12-57, Cl. 46-13.
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- Briggs, Philip H., to Robertshaw-Fulton Controls Co. Magnetic control devices. 2,782,363, 2-19-57, Cl. 323-50.
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- Bright, Nellie I. Duplicating block for typing on both sides. 2,802,678, 8-13-57, Cl. 282-22.
- Bright, Richard L., to Westinghouse Electric Corp. Pulse width modulator. 2,780,782, 2-5-57, Cl. 332-12.
- Bright, Richard L., to Westinghouse Electric Corp. Adjustable multivibrator. 2,788,449, 4-9-57, Cl. 250-36.
- Bright, Richard L., and G. H. Royer, to Westinghouse Electric Corp. Electrical inverter circuits. 2,783,384, 2-26-57, Cl. 250-36.
- Bright, Richard L., and R. O. Decker, to Westinghouse Electric Corp. Transistor amplifier for alternating currents. 2,785,236, 3-12-57, Cl. 179-171.
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- Brigner, Charles F., Jr., to Modern Corp. Cutting tools. 2,799,079, 7-16-57, Cl. 29-96.
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- Brill, Edward F., to Allis-Chalmers Mfg. Co. Electromagnetic centrifugal pump with diffuser vanes. 2,811,107, 10-29-57, Cl. 103-1.
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- Brillmeyer, Harold G., to Huck Mfg. Co. Lockbolt construction. 2,804,798, 9-3-57, Cl. 85-5.
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- Brimer, Marshall R., to Eastman Kodak Co. Method of making 2-tertiarybutyl-4-alkoxy phenol. 2,801,268, 7-30-57, Cl. 260-613.
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- Brimm, Eugene O., M. A. Lynch, Jr., and W. J. Sesny, to Union Carbide Corp. Process for preparing chromium carbonyl. 2,803,525, 8-20-57, Cl. 23-203.
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- Brinen, Howard F., to Young Radiator Co. Propeller fan nozzle. 2,814,433, 11-26-57, Cl. 230-120.
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- Brinen, Paul F., to Young Radiator Co. Unit-heater motor mounting. 2,814,467, 11-26-57, Cl. 257-1.
- Brink, John E. Liquid dispenser. 2,784,875, 3-12-57, Cl. 222-42.
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- Brink, Wilhelm. Scraper-blade-sharpener. 2,790,339, 4-30-57, Cl. 76-82.
- Brink, Winfield S., to The Firestone Tire & Rubber Co. Wheel. 2,779,629, 1-29-57, Cl. 301-9.
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- Brinker, John H.: *See—*
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- Brinker, Keith C., and R. M. Ross, to E. I. du Pont de Nemours and Co. Process of polymerizing a fluoroethylene in water containing a chlorendic acid compound. 2,816,082, 12-10-57, Cl. 260-29.6.
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- Brinsmaid, Doris S., W. J. Keenan, G. J. Koch, and W. F. Parsons, to Eastman Kodak Co. Method of producing titanium dioxide coatings. 2,784,115, 3-5-57, Cl. 117-106.
- Brinton, Esme T. C., to Brintons Ltd. Manufacture of tufted fabrics. 2,791,261, 5-7-57, Cl. 154-1.1.
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- Briskin, Jack, and C. W. Claras, to Revere Camera Co. Portable radio receiver. 2,810,069, 10-15-57, Cl. 250-14.
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- Bristol Aeroplane Co. Ltd., The: *See—*
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- Bristol, Carlton W., Jr., to United Aircraft Corp. Igniter control for engines. 2,780,055, 2-5-57, Cl. 60-35.6.
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- Bristol, John E., E. P. Czerwin, and N. Turnbull, to E. I. du Pont de Nemours & Co. Production of polyvinyl acetate beads and emulsions. 2,782,173, 2-19-57, Cl. 260-29.6.

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- Brite, Roy D. Fishing float.** 2,807,907, 10-1-57, Cl. 43—44.91.
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- British Celanese Ltd.:** *See—*
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- British Dielectric Research Ltd.:** *See—*
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- British Drug Houses Ltd., The:** *See—*
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- British Electric Traction Co. Ltd., The:** *See—*
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- British Insulated Callender's Cables Ltd.:** *See—*
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- British Rayon Research Assn., The:** *See—*
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- British Resin Products Ltd.:** *See—*
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- British Schering Research Laboratories Ltd.:** *See—*
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- British Tabulating Machine Co. Ltd., The:** *See—*
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- British Thomson-Houston Co. Ltd., The:** *See—*
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- Brittain, Willard M.:** *See—*
 Montgomery, James P., Jr., Powpsel, and Brittain. 2,795,751.
- Brittains Ltd.:** *See—*
 Edge, Norman. 2,811,475.
- Britten, Cecil A., and A. St. J. Bowie, to Food Machinery and Chemical Corp. Method and apparatus for distributing pesticide.** 2,784,521, 3-12-57, Cl. 43—148.
- Britten, Roy J., to the United States of America as represented by the United States Atomic Energy Commission. Velocity selector method for the separation of isotopes.** 2,818,507, 12-31-57, Cl. 250—41.9.
- Brittingham, Wilson H.:** *See—*
 Gay, Edward J., and Brittingham. 2,784,484.

- Britton, Edgar C.: *See*—
 Dickert, Yancey J., and Britton. 2,802,870.
 Ivins, Owen D., Head, and Britton. 2,810,688.
 Pumpelly, Charles T., and Britton. 2,817,676.
 Slagh, Harold K., and Britton. 2,807,637.
 Sexton, Arthur R., and Britton. 2,810,747.
 Tolkmith, Henry, and Britton. 2,805,256.
 Tolkmith, Henry, Britton, and Holoway. 2,802,823.
 Tolkmith, Henry, Britton, and Holoway. 2,802,824.
- Britton, Edgar C., and A. R. Sexton, to The Dow Chemical Co. Method of preparing glycols and monoethers of glycols. 2,807,651, 9-24-57, Cl. 260-611.
- Britton, James H. Manually portable, selectively operable dispensing spout type, carrying container for liquid. 2,789,728, 4-23-57, Cl. 222-107.
- Britton, Orson J.: *See*—
 Osborne, Alec V., and Britton. 2,806,629.
- Britton, Richard K.: *See*—
 Giesker, William C., and Britton. 2,788,292.
- Brixius, Jacob K., to Air-Maze Corp. Filter with relief valve. 2,778,445, 1-22-57, Cl. 183-13.
- Brixius, Jacob K., and R. E. Brown, to Air-Maze Corp. Silencer. 2,801,705, 8-6-57, Cl. 181-50.
- Brixner, Frederick W.: *See*—
 Rees, Frank X., Brixner, and Barker. 2,816,218.
- Bro, Manville I.: *See*—
 Bechtold, Max F., and Bro. 2,810,702.
- Broad, Charles. Box for storing matrices. 2,795,430, 6-11-57, Cl. 276-44.
- Broadbelt, Herbert L. Paint can holder. 2,788,153, 4-9-57, Cl. 220-90.
- Broadbent, Thomas, & Sons Ltd.: *See*—
 Cran, William B. G. 2,815,946.
- Broadhead, Samuel L., Jr., to Collins Radio Co. Stabilized variable oscillator system. 2,810,832, 10-22-57, Cl. 250-36.
- Broadley, Peter R.: *See*—
 Yellott, John I., and Broadley. 2,804,171.
 Yellott, John I., and Broadley. 2,812,828.
- Broadwin, Bernice. Garment. 2,803,823, 8-27-57, Cl. 2-67.
- Broadwin, Harry, to Perfect-Line Mfg. Corp. Lighting fixture. 2,802,933, 8-13-57, Cl. 240-78.
- Broadwin, Samuel M., to Clay-Adams, Inc. Pipette. 2,798,647, 7-9-57, Cl. 222-309.
- Broat, John. Micrometer. 2,817,149, 12-24-57, Cl. 33-143.
- Broberg, Georg K. J., to AB Svenska Flaktfabriken. Ventilating grill. 2,790,375, 4-30-57, Cl. 98-110.
- Broberg, Georg, to Aktiebolaget Svenska Flaktfabriken. Frame for fastening ventilating grilles and similar elements. 2,806,420, 9-17-57, Cl. 98-114.
- Broberg, Georg, to Aktiebolaget Svenska Flaktfabriken. Fastening device for a flanged body intended to be secured in a wall opening or the like. 2,806,726, 9-17-57, Cl. 292-17.
- Broberg, Walter O. W.: *See*—
 Vigren, Sten D., Broberg, and Zander. 2,786,163.
 Vigren, Sten D., Broberg, and Zander. 2,810,026.
- Brochetti, Raymond E.: *See*—
 Becker, Earl M., and Brochetti. 2,792,199.
- Brock, Charles T., Jr.: *See*—
 Orr, Leonard. 2,790,398.
- Brock & Co., Inc.: *See*—
 Buechele, Walter E., and Adacusk. 2,807,203.
- Brock Equipment Co.: *See*—
 Peterson, Harold R. 2,811,064.
- Brock, Norbert: *See*—
 Arnold, Herbert, Brock, and Kühas. 2,785,202.
- Brock, Peter R., to E. I. du Pont de Nemours and Co. Siphon delivery for decanter. 2,805,775, 9-10-57, Cl. 210-258.
- Brock, Robert L.: *See*—
 Maynard, John E., and Brock. 2,808,513.
- Brock, Robert L., J. E. Maynard, R. C. McCarthy, and T. N. Ross, to Boeing Airplane Co. Temperature stabilized transistor. 2,787,744, 4-2-57, Cl. 317-235.
- Brockmann, Alfons, to Schafer-Flottmann & Co. G. m. b. H. Container filling process and apparatus. 2,816,407, 12-17-57, Cl. 53-37.
- Brockhouse, J., & Co. Ltd.: *See*—
 Grant, Kenneth A. 2,798,575.
 Grant, Kenneth A. 2,810,590.
- Brockley, Jacob. Tool sharpener. 2,804,732, 9-3-57, Cl. 51-205.
- Brockman, Herbert P., to Westinghouse Electric Corp. Frequency doubler circuit. 2,777,066, 1-8-57, Cl. 250-36.
- Brockman, John A., Jr., and P. F. Fabio, to American Cyanamid Co. Substituted disulfones. 2,789,991, 4-23-57, Cl. 260-400.
- Brockman, John A., Jr., and M. J. Fahnenbach, to American Cyanamid Co. Substituted tetrahydropteridines and method of preparing the same. 2,790,802, 4-30-57, Cl. 260-251.5.
- Brockmeier, Fred C.: *See*—
 Brockmeier, Ruby L. and F. C. 2,779,044.
- Brockmeier, Ruby L. and F. C. Ruffle mop. 2,779,044, 1-29-57, Cl. 15-228.
- Brockner, Charles E., to Sperry Rand Corp. Gated video integrator radar system. 2,782,412, 2-19-57, Cl. 343-13.
- Brockway, Arthur L., Jr., and H. P. Dantzig, to Bendix Aviation Corp. System for projecting movable lines on a CRT face. 2,782,409, 2-19-57, Cl. 340-369.
- Brockway, Charles E., to The B. F. Goodrich Co. Method for preparing urethanes by reacting urea, amines and an alcohol. 2,806,051, 9-10-57, Cl. 280-471.
- Brockway, George R. Shopping guide. Re. 24,297, 4-2-57, Cl. 40-68.
- Brockway Glass Co., Inc.: *See*—
 Poole, James F. 2,813,036.
- Brockway, Wilhelm W., to P. R. Mallory & Co., Inc. Synchronous vibrators. 2,789,177, 4-16-57, Cl. 200-90.
- Brod, Meyer C. Recording apparatus. 2,804,366, 8-27-57, Cl. 346-121.
- Broden, Edwin N., to The Firestone Tire & Rubber Co. Cutter for trimming rinds from molded articles. 2,779,414, 1-29-57, Cl. 164-63.
- Broden, John G. M., to Kockums Mekaniska Verkstads Aktiebolag. Arrangements in signal apparatuses operated by a pressure medium. 2,789,529, 4-23-57, Cl. 116-142.
- Broderick, Edward, to Rohm & Haas Co. Emulsifier composition and insecticidal emulsions obtained therewith. 2,784,140, 3-5-57, Cl. 167-43.
- Broderick, Kenneth E., to Brown & Bailey Co. Container for annular articles. 2,794,586, 6-4-57, Cl. 229-27.
- Broderick, Maurice J. Washing machine. 2,785,558, 3-19-57, Cl. 68-22.
- Broderick, Nicholas E., and E. J. Lisovicz, to Thomas Electronics, Inc. Cathode ray tube. 2,792,515, 5-14-57, Cl. 313-82.
- Brodie, George R., to Fred'k H. Levey Co., Inc. Apparatus for supplying ink to inking rollers. 2,787,955, 4-9-57, Cl. 101-350.
- Brodie, George R., to Fred'k H. Levey Co., Inc. Aligning device. 2,797,098, 6-25-57, Cl. 271-87.
- Brodie, George R., to Fred'k H. Levey Co., Inc. Printing. 2,804,693, 9-3-57, Cl. 34-18.
- Brodie, Ralph N., Co.: *See*—
 Berck, William F. 2,781,997.
- Broding, Robert A., and W. B. Allen, to Socony Mobil Oil Co., Inc. Dynamic cable measuring system. 2,794,951, 6-4-57, Cl. 324-34.
- Brodkey, Robert S.: *See*—
 Bartlett, Jeffrey H., Brodkey, and Smith. 2,814,639.
- Brodsky, Frank. Automatic slicer for bars of butter or the like. 2,798,293, 7-9-57, Cl. 31-6.
- Brodsky, Marcos. Automatic indicating device of the variation of pressure of the inner tube of tires. 2,797,273, 6-25-57, Cl. 200-61.26.
- Brody, Arthur. Phonograph record holder. 2,777,574, 1-15-57, Cl. 206-62.
- Brody, Nathan S. Curved tension clip and attachable curved handle hair trimmer. 2,810,953, 10-29-57, Cl. 30-30.
- Brody, Nathan S. Tension pliable, adjustable, dental tooth pick device. 2,811,162, 10-29-57, Cl. 132-89.
- Broekema, Heiko: *See*—
 Edens, Jan W., and Broekema. 2,816,221.
- Broekhuysen, William C., to G-V Controls Inc. Electrical control devices. 2,809,253, 10-8-57, Cl. 200-113.
- Broemeling, Frank J.: *See*—
 Kress, Bruce A. 2,797,809.
- Broeze, Johannes J., and W. J. D. van Dijk, to Shell Development Co. Method and reciprocating compression-reactor for short period, high temperature and high pressure chemical reactions. 2,814,551, 11-26-57, Cl. 23-1.
- Broffitt, Wilgus S., to General Motors Corp. Turbine nozzle. 2,801,075, 7-30-57, Cl. 253-78.
- Broffitt, Wilgus S., to General Motors Corp. Turbine cooling. 2,811,833, 11-5-57, Cl. 60-39.66.
- Broffitt, Wilgus S., to General Motors Corp. Turbine bucket with internal fins. 2,817,490, 12-24-57, Cl. 253-39.15.
- Brogan, Emmett V., to International Harvester Co. Induction-heating apparatus and improved track support therefor. 2,780,706, 2-5-57, Cl. 219-10.67.
- Brogan, Francis A., to The United States of America as represented by the Secretary of the Air Force. Automatic audiometer. 2,781,416, 2-12-57, Cl. 179-1.
- Brogdex Co.: *See*—
 Keller, Herman J. 2,793,125.
- Brogdon, Vas H., to Freeport Sulphur Co. Process and heating system for providing hot water and power for sulfur mining. 2,781,635, 2-19-57, Cl. 60-39.05.
- Brogliotti, Antonin. Screw spike with compression producing thread form. 2,787,186, 4-2-57, Cl. 85-46.
- Broich, Franz, and G. Hoffmann, to Chemische Werke Huls Aktiengesellschaft. Process for the purification of aromatic carboxylic acids. 2,792,420, 5-14-57, Cl. 260-525.
- Broich, Franz, and K. Mönkemeyer, to Chemische Werke Huls Aktiengesellschaft. Process for production of saturated ketones. 2,802,876, 8-13-57, Cl. 260-593.
- Broido, Daniel, to The British Tabulating Machine Co., Ltd. Settable typesetting means in data printing mechanisms. 2,784,667, 3-12-57, Cl. 101-93.
- Broidrick, Eleanor: *See*—
 Broidrick, Thomas J. 2,793,751.
- Broidrick, Thomas J., deceased, by E. Broidrick, executrix, to Hydro Equipment Corp. Method of and apparatus for removing entrained moisture from oil. 2,793,751, 5-28-57, Cl. 210-83.
- Broksh, Frank C. Gate. 2,803,074, 8-20-57, Cl. 39-87.
- Brokaw, George Y., to Eastman Kodak Co. Modification of fatty triglycerides with titanium alkoxide catalysts. 2,808,419, 10-1-57, Cl. 260-405.6.

- Brokaw, George Y., to Eastman Kodak Co. Method for preparing mixed triglyceride compositions. 2,808,421, 10-1-57, Cl. 260-410.8.
- Brola, Gabriel, to The Society Thermo-Mecanique. Combustion apparatus for use with boilers. 2,806,516, 9-17-57, Cl. 158-1.
- Brolin, Anders H.: See—
Blanchard, Bernard E., and Brolin. 2,795,338.
- Broman, Bror O., to Aktiebolaget A. Ekstroms Maskinaffar. Method for cleaning gas-swept heating surfaces. 2,792,316, 5-14-57, Cl. 134-7.
- Broman, Bror O., to Aktiebolaget A. Ekstroms Maskinaffar. Apparatus for distributing cleaning particles over gas-swept surfaces in heat exchangers and the like. 2,809,018, 10-8-57, Cl. 257-1.
- Broman, Cyrus R.: See—
Thomas, James G., and Broman. 2,777,443.
- Broman, Cyrus R., to Baxter Laboratories, Inc. Syringe unit. 2,784,716, 3-12-57, Cl. 128-227.
- Bromo-Mint Co., Inc.: See—
Kuhn, James O. 2,817,531.
- Bronckhurst, Paul F., and L. D. Hutchison, to Radio Corp. of America. Connect and disconnect mechanism for electrical units. 2,802,997, 8-13-57, Cl. 339-92.
- Bronk, Robert: See—
Russ, John, Jr. 2,811,031.
- Bronson, George A., to Douglas Aircraft Co., Inc. Projectile feed device. 2,789,470, 4-23-57, Cl. 89-1.7.
- Bronstein, Leopold F., to Synvar Corp. Wet strength paper. 2,816,833, 12-17-57, Cl. 92-3.
- Bronston, Allen: See—
Lehman, Charles F., Jr. 2,782,764.
- Bronzavla S. A.: See—
Gärtner, Berthold. 2,811,830.
- Bronzo, Frank A.: See—
Whalen, John N. 2,784,963.
Whalen, John N. 2,806,512.
- Brook, Arthur F., to Wire-O Corp. Press for closing the rings of mechanical bindings. 2,781,797, 2-19-57, Cl. 140-93.
- Brook, Arthur F. Magazine binder. 2,816,553, 12-17-57, Cl. 129-38.
- Brook, James E., to Bendix Aviation Corp. Position servo. 2,802,976, 8-13-57, Cl. 318-30.
- Brook, James E., to Bendix Aviation Corp. Exponential computer. 2,809,784, 10-15-57, Cl. 235-61.
- Brook, Leonard: See—
Edis, John N., and Brook. 2,784,541.
- Brook, Leonard, to The Forgrove Machinery Co. Ltd. Feed mechanism for wrapping machines. 2,778,478, 1-22-57, Cl. 198-107.
- Brookbank, Glen E., to General Motors Corp. Load support mounted for retraction into vehicle compartment. 2,802,540, 8-13-57, Cl. 180-68.5.
- Brookbank, Glen E., to General Motors Corp. Closure operator. 2,808,257, 10-1-57, Cl. 268-74.
- Brooke, Frank W. Apparatus for preheating and conditioning scrap metal. 2,804,295, 8-27-57, Cl. 266-5.
- Brooke, Jesse M., to Phillips Petroleum Co. Liquid level measurement and control. 2,797,284, 6-25-57, Cl. 201-48.
- Brooke, Jesse M., to Phillips Petroleum Co. Treatment of corrosive water. 2,813,075, 11-12-57, Cl. 252-8.55.
- Brooke, Jesse M., to Phillips Petroleum Co. Treatment of spent alkylation acid catalyst. 2,815,393, 12-3-57, Cl. 260-683.4.
- Brooke, Lewis, and J. P. Piazza. Method and apparatus for treating lubricants. 2,797,767, 7-2-57, Cl. 183-2.5.
- Brooke, Norman E. Garment hanger for trousers, coats, etc. 2,777,620, 1-15-57, Cl. 223-91.
- Brooke, Norman E. Garment hangers. 2,804,246, 8-27-57, Cl. 223-96.
- Brooker, Leslie G. S., and F. L. White, to Eastman Kodak Co. Non-ionized cyanine dyes. Re. 24,292, 3-19-57, Cl. 260-240.1.
- Brooker, Leslie G. S., and D. W. Heseltine, to Eastman Kodak Co. Optical sensitizing dyes containing a N-carbamylmethyl group. 2,776,280, 1-1-57, Cl. 260-240.6.
- Brooker, Leslie G. S., and E. J. Van Lare, to Eastman Kodak Co. Benzimidazolocarboxyanine dyes. 2,778,823, 1-22-57, Cl. 260-240.6.
- Brooker, Leslie G. S., and E. J. Van Lare, to Eastman Kodak Co. Cyanines from triazolo bases. 2,786,054, 3-19-57, Cl. 260-240.6.
- Brookes, Mahath, H., and E. E. Sunderland, to Fabric Development Co., Ltd. Manufacture of pile fabrics. 2,788,835, 4-16-57, Cl. 154-1.1.
- Brookhart, Arthur E. Garment stretcher and wrinkle eliminator. 2,805,010, 9-3-57, Cl. 223-72.
- Brookhyser, Byron: See—
Erickson, Harold E., and Brookhyser. 2,792,096.
Erickson, Harold E., Brookhyser, and Schubert. 2,791,953.
- Brooking, Edgar C., and J. W. Powell. Hinge construction. 2,805,016, 9-3-57, Cl. 228-68.
- Brooks, Alfred A.: See—
John, George S., and Brooks. 2,805,206.
- Brooks, Charles, T. A. Sutton, and C. Brownold, to Cee Bee Mfg. Co., Inc. Apparatus for making backed fabric belts. 2,807,307, 9-24-57, Cl. 154-1.8.
- Brooks, Charles H., to Sun Oil Co. Refining process including regeneration of alkaline treating agents. 2,794,768, 6-4-57, Cl. 196-32.
- Brooks, Charles H., to Sun Oil Co. Polymerization of propylene. 2,802,890, 8-13-57, Cl. 260-683.15.
- Brooks, Clarence E., and M. Mordkin. Merchandise display case. 2,811,404, 10-29-57, Cl. 312-122.
- Brooks, Cyril, to The Wellman Smith Owen Engineering Corp. Ltd. Manufacture of seamless metal tubes. 2,814,962, 12-3-57, Cl. 80-14.
- Brooks, E. J., Co.: See—
Brooks, Winfred M. 2,796,278.
Brooks, Winfred M., and Moberg. 2,796,277.
Moberg, Sigurd M. 2,778,666.
Moberg, Sigurd M. 2,800,349.
Moberg, Sigurd M. 2,809,651.
Moberg, Sigurd M. 2,809,859.
Percival, Isabel C., and Tierney. 2,794,278.
- Brooks, Edward H., Jr., $\frac{1}{2}$ to E. H. Thompson. Method of fibre scouring and washing. 2,810,625, 10-22-57, Cl. 8-156.
- Brooks, Eugene G. Wind vane attachment for pivoted ventilator windows of automobiles. 2,797,126, 6-25-57, Cl. 296-44.
- Brooks, Eugene H., to Continental Gin Co. Lint cotton opener and cleaner. 2,804,655, 9-3-57, Cl. 19-93.
- Brooks, Fay F. Container holder. 2,789,744, 4-23-57, Cl. 224-45.
- Brooks, Frank M., deceased, H. H. Lehman, executor. Meter box cover. 2,788,915, 4-16-57, Cl. 220-31.
- Brooks, Frank W., to General Motors Corp. Automatic wear adjuster. 2,788,095, 4-9-57, Cl. 188-196.
- Brooks, Harvey: See—
Hurwitz, Henry, Jr., Brooks, Mannal, Payne, and Luebke. 2,799,642.
- Brooks, Herbert B. Method of closing a heat exchanger. 2,779,143, 1-29-57, Cl. 53-25.
- Brooks, Herbert B., to Hughes Aircraft Co. Crystal controlled marker pulse generator. 2,792,497, 5-14-57, Cl. 250-27.
- Brooks, Herbert B., to Hughes Aircraft Co. Quartz crystal having a low level of spurious response. 2,795,708, 6-11-57, Cl. 310-9.5.
- Brooks, James P.: See—
Howey, Walter C. 2,793,253.
- Brooks, Jerry R. Solenoid pump. 2,806,432, 9-17-57, Cl. 103-38.
- Brooks, John W., and F. P. Otto, to Socony Mobil Oil Co., Inc. Suppression of acidic gas evolution. 2,783,205, 2-26-57, Cl. 252-46.7.
- Brooks, John W., N. M. Reed, and M. H. Walker, to Remington Arms Co., Inc. Fire control for animal stunner. 2,809,391, 10-15-57, Cl. 17-1.
- Brooks, Joseph H., M. N. Gilbert, Jr., and C. L. Toomey, to Sylvania Electric Products Inc. Electrical welding apparatus. 2,813,192, 11-12-57, Cl. 219-130.
- Brooks, Lester A., to R. T. Vanderbilt Co., Inc. Process for making organic polysulfides. 2,794,021, 5-28-57, Cl. 260-293.4.
- Brooks, Lester M. Ground cultivator. 2,816,495, 12-17-57, Cl. 97-40.
- Brooks, Lewis C., $\frac{1}{2}$ to I. M. Jones. Consumer type container. 2,792,166, 5-14-57, Cl. 229-37.
- Brooks, Linzy W., $\frac{1}{2}$ to E. D. Farley. Drawer pull. 2,807,827, 10-1-57, Cl. 16-125.
- Brooks, Lorimer P., to Drum Fire, Inc. Fireplace flame simulating device. Re. 24,399, 12-10-57, Cl. 40-126.
- Brooks, Lorimer P., to Drum Fire, Inc. Display device. 2,811,798, 11-5-57, Cl. 40-132.
- Brooks, Paul S.: See—
Schumacher, Erwin A., Bennett, and Brooks. 2,797,254.
- Brooks, Robert A., to E. I. du Pont de Nemours and Co. Chlorinated cobalt phthalocyanine precursors. 2,782,208, 2-19-57, Cl. 260-346.3.
- Brooks, Robert E.: See—
Smith, Herman B. 2,786,298.
- Brooks, Robert E. Feeding device for walnut halving machines. 2,818,158, 12-31-57, Cl. 198-33.
- Brooks, Robert J., to Geo. W. King Ltd. Drive mechanism for conveyor systems. 2,778,481, 1-22-57, Cl. 198-203.
- Brooks, Robert M.: See—
Bennett, James L., Brooks, McMillan, and Plunkett. 2,776,965.
- Brooks, Thomas E., to Lisle Corp. Adjustable carrier device. 2,780,115, 2-5-57, Cl. 77-2.
- Brooks, Thomas W. Pocket record device. 2,785,488, 3-19-57, Cl. 40-68.
- Brooks, Wendell R. Bow with automatic arrow holder. 2,777,435, 1-15-57, Cl. 124-23.
- Brooks, William H., and K. H. Norberg, said Brooks, to said Norberg. Can holder. 2,810,171, 10-22-57, Cl. 24-81.
- Brooks, Winfred M., to E. J. Brooks Co. Seal and the method of making same. 2,796,278, 6-18-57, Cl. 292-325.
- Brooks, Winfred M., and S. M. Moberg, to E. J. Brooks Co. Shackle seal. 2,796,277, 6-18-57, Cl. 292-307.
- Broomfield, John L.: See—
Robertson, John D., and Broomfield. 2,795,029.
- Broos, Mary. Method for removing burns or scorched parts from cloth without removing the color by applying wax, zinc oxide and hydrogen peroxide. 2,792,277, 5-14-57, Cl. 8-137.

- Brophy, John J.: *See*—
Maeser, Mieth, and Brophy. 2,782,431.
- Brosenius, Karl H., and J. Bergseth, to Hyresgästernas Sparkasseoch Byggnadsföreningars Riksförbund u. p. a. Arrangement for refrigerators. 2,807,154, 9-24-57, Cl. 62—117.4.
- Brosius, Bob L. Collapsible net. 2,814,899, 12-3-57, Cl. 43—12.
- Broske, William F., to AMP Inc. Electrical connector. 2,786,191, 3-19-57, Cl. 339—276.
- Broske, William F., to AMP Inc. Electrical connector. 2,809,365, 10-8-57, Cl. 339—276.
- Broske, William F., to AMP Inc. Crimping method and apparatus. 2,809,546, 10-15-57, Cl. 81—15.
- Broske, William F., to AMP Inc. Electrical connectors. 2,814,026, 11-19-57, Cl. 339—276.
- Brosnan, Dennis W. Tie replacing machine. 2,786,426, 3-26-57, Cl. 104—9.
- Brothers, Richard V. Method of forming hair curls. 2,805,672, 9-10-57, Cl. 132—7.
- Brott, Glenn A. Silo elevator. 2,781,865, 2-19-57, Cl. 187—6.
- Brougham, Leslie E., to Dapag (1943) Ltd. Printing gap adjusting device for printing machines. 2,804,015, 8-27-57, Cl. 101—247.
- Broughton, Donald B., to Universal Oil Products Co. Process for simultaneous recovery of aromatic and naphthenic hydrocarbons from hydrocarbon mixtures. 2,794,839, 6-4-57, Cl. 260—666.
- Broughton, Douglas J., to Buxton, Inc. Billfold and coin purse. 2,788,824, 4-16-57, Cl. 150—35.
- Broughton, Douglas J., to Buxton, Inc. Flap fastener. 2,789,614, 4-23-57, Cl. 150—42.
- Broughton, William W., H. W. Clifford, R. W. Friis, and A. S. May; said Broughton and said Clifford, to Western Electric Co., Inc.; and said Friis and said May, to Bell Telephone Laboratories, Inc. Apparatus for gaging horn structures. 2,812,585, 11-12-57, Cl. 33—174.
- Brouillard, Robert E., T. D. Mutafts, and M. O. Shrader, to General Aniline & Film Corp. Acid milling of vatable organic compounds. 2,796,418, 6-18-57, Cl. 260—263.
- Broussard, Douglas E., to Shell Development Co. Well bore caliper and telemetering system. 2,815,578, 12-10-57, Cl. 33—178.
- Broussard, Mayo. Clothes dryer. 2,793,762, 5-28-57, Cl. 211—113.
- Broussard, Robert: *See*—
Toce, Charles A., and Broussard. 2,801,276.
- Broussaud, Georges, to Compagnie Generale de Telegraphie Sans Fil. Microwave filters. 2,804,599, 8-27-57, Cl. 333—73.
- Broussaud, Georges, to Compagnie Generale de Telegraphie Sans Fil. High frequency directional aerials. 2,807,800, 9-24-57, Cl. 343—771.
- Brouwer, Nellie G. Ironing board. 2,801,480, 8-6-57, Cl. 38—122.
- Brower, Rodger De R. Golf playing harness. 2,809,043, 10-8-57, Cl. 273—189.
- Browall, Bert H., to Svenska Aktiebolaget Bromsregulator. Brake slack adjuster. 2,793,716, 5-28-57, Cl. 188—196.
- Browder, Lewis B., to Westrex Corp. Film editing machine. 2,813,453, 11-19-57, Cl. 88—16.2.
- Brown, Abbott A., to Bendix Aviation Corp. Magnetic amplifier demodulator. 2,797,384, 6-25-57, Cl. 323—89.
- Brown, Abbott A., to Bendix Aviation Corp. Magnetic amplifier modulator. 2,809,353, 10-8-57, Cl. 332—51.
- Brown, Adron W.: *See*—
Aslin, James K., Brown, and Downey. 2,813,285.
- Brown, Alexander C.: *See*—
Goebel, Charles C., Brown, Oehlschlaeger, and Rolfes. 2,813,113.
- Brown, Alden J. Tool sharpening fixture. 2,785,518, 3-19-57, Cl. 51—220.
- Brown, Alvin M., and J. S. Ayers to Jas. H. Matthews & Co. Device for marking elongated objects. 2,785,626, 3-19-57, Cl. 101—35.
- Brown, Amos H.: *See*—
Graham, Robert P., Brown, and Ramage. 2,795,184.
- Brown, Andrew G., to The Griffith Laboratories, Inc. Meat-perforating apparatus. 2,816,320, 12-17-57, Cl. 17—25.
- Brown, Arling D., Jr.: *See*—
Valenti, Leo F., and Brown. 2,796,317.
- Brown, Arling D., Jr., C. L. Morris, and L. F. Valenti, to Cleviste Corp. Pen recorder. 2,805,113, 9-3-57, Cl. 346—49.
- Brown, Arthur E. Reciprocating engine. 2,780,208, 2-5-57, Cl. 123—61.
- Brown, Arthur E., to General Aniline & Film Corp. Process for preparing 5-chlorosalicylic acid. 2,811,547, 10-29-57, Cl. 260—521.
- Brown, Arthur G., and G. E. Urban, to The Heil Co. Refuse body loading mechanisms. 2,798,624, 7-9-57, Cl. 214—83.3.
- Brown, Arthur S., to The Cycle-Flo Co. Breathing apparatus of the rebreather type. 2,788,001, 4-9-57, Cl. 128—142.
- Brown & Bailey Co.: *See*—
Broderick, Kenneth E. 2,794,586.
- Brown & Bigelow: *See*—
Bowers, Fredrick H. 2,796,629.
- Houska, Lawrence, Cole, and Perl. 2,788,180.
- Mayer, Louis J., Sr. 2,810,282.
- Munson, Evers D. 2,800,881.
- Olson, John J. 2,816,434.
- Schjeldahl, Gilmore T. 2,788,039.
- Schwenk, Joseph. 2,796,904.
- Brown, Billy D. Single break away hose attached coupler. 2,806,716, 9-17-57, Cl. 285—1.
- Brown, Boyd E., and L. Slaughter, Jr., to Boeing Airplane Co. Pilot seat and escape means. 2,806,666, 9-17-57, Cl. 244—140.
- Brown-Bridge Mills Co., Inc., The: *See*—
Holt, Frederick W., Jr. 2,778,744.
- Brown, Burton P., to the United States of America as represented by the Secretary of the Navy. Electromagnetic wave filter. 2,785,381, 3-12-57, Cl. 333—73.
- Brown, Calvin O., to Set Screw & Mfg. Co. Solid cup-point set screw. 2,778,265, 1-22-57, Cl. 85—1.
- Brown, Calvin O., to Set Screw & Mfg. Co. Puzzle game. 2,778,639, 1-22-57, Cl. 273—130.
- Brown, Calvin O., to Set Screw & Mfg. Co. Puzzle game board and pieces. 2,778,640, 1-22-57, Cl. 273—133.
- Brown, Calvin O., to Set Screw & Mfg. Co. Puzzle game apparatus. 2,778,641, 1-22-57, Cl. 273—133.
- Brown, Carl S., to Glascote Products, Inc. Expansion joint for pipe lines and the like. 2,780,482, 2-5-57, Cl. 285—41.
- Brown, Carlyle A., and J. W. Kowalczyk, to General Electric Co. Protective system for direct current circuits and machines. 2,802,969, 8-13-57, Cl. 317—13.
- Brown, Caroline. Supporting undergarment. 2,802,465, 8-13-57, Cl. 128—159.
- Brown, Charles H., deceased; G. B. Carnes, executrix, $\frac{1}{2}$ to J. M. Brown, $\frac{1}{4}$ to R. B. McCluney, $\frac{1}{4}$ to M. B. Turns, $\frac{1}{4}$ to G. B. Carnes, $\frac{1}{4}$ to C. H. Brown, Jr., and $\frac{1}{4}$ to V. B. Hamilton. Ditch forming implement. 2,783,557, 3-5-57, Cl. 37—98.
- Brown, Charles H., deceased; G. B. Carnes, executrix, $\frac{1}{2}$ to J. M. Brown, $\frac{1}{4}$ to R. B. McCluney, $\frac{1}{4}$ to M. B. Turns, $\frac{1}{4}$ to G. B. Carnes, $\frac{1}{4}$ to C. H. Brown, Jr., and $\frac{1}{4}$ to V. B. Hamilton. Earth handling implement. 2,783,560, 3-5-57, Cl. 37—167.
- Brown, Charles H., Jr.: *See*—
Brown, Charles H. 2,783,557.
- Brown, Charles H. 2,783,560.
- Brown, Charles L. M., and A. Poole. Diethyl-glycinexylidide and process. 2,797,241, 6-25-57, Cl. 260—562.
- Brown, Charles M., to Union Carbide and Carbon Corp. Method for making powdered vanadium metal. 2,778,725, 1-22-57, Cl. 75—84.
- Brown, Charles M., to Union Carbide Corp. Electro-cleaning of vanadium. 2,803,596, 8-20-57, Cl. 204—141.
- Brown, Charles R., to Westinghouse Electric Corp. Jet propulsion nozzle apparatus. 2,794,317, 6-4-57, Cl. 60—35.6.
- Brown, Charles T., R. L. Dinsmore, and W. F. Deeter, to Richfield Oil Corp. Petroleum distillate compositions containing fatty oil pitches. 2,807,527, 9-24-57, Cl. 44—61.
- Brown, Cicero C.: *See*—
Potts, Ernest L. 2,806,534.
- Brown, Cicero C. Well tools. 2,778,433, 1-22-57, Cl. 166—226.
- Brown, Cicero C. Well head apparatus. 2,788,073, 4-9-57, Cl. 166—78.
- Brown, Cicero C. Well head equipment for wells with multiple pipe strings. 2,788,074, 4-9-57, Cl. 166—78.
- Brown, Cicero C., and G. McCray. Removable drill pipe float valve. 2,777,523, 1-15-57, Cl. 166—219.
- Brown Citrus Machinery Corp.: *See*—
Harden, Carl. 2,791,253.
- Brown, Clarence A., to United States of America as represented by the Secretary of Agriculture. Composition comprising allyl starch and a lower alkyl itaconate. 2,794,789, 6-4-57, Cl. 260—17.4.
- Brown, Clarence H., to Goodman Mfg. Co. Bit holder for cutter chains. 2,798,715, 7-9-57, Cl. 262—33.
- Brown, Clarence H., to Goodman Mfg. Co. Heavy duty cutter bit for boring type miner. 2,811,343, 10-29-57, Cl. 262—33.
- Brown, Collingwood B., to Dominion Tar and Chemical Co. Anodes and cover of electrolytic cells. 2,786,810, 3-26-57, Cl. 204—219.
- Brown Co.: *See*—
Taylor, Arthur R. 2,802,404.
- Brown and Crow: *See*—
Brown, Howard A. 2,780,868.
- Brown, David: *See*—
Egbert, Robert B., and Brown. 2,798,034.
- Brown, David, and A. Saffer, to Mid-Century Corp. Preparation of phthalic anhydride. 2,789,988, 4-23-57, Cl. 260—346.7.
- Brown, Delbert L., to General Electric Co. Electric heating system. 2,812,413, 11-5-57, Cl. 219—20.
- Brown, Donald E., to Vitro Corp. of America. Valve mounting structure. 2,808,576, 10-1-57, Cl. 339—112.
- Brown, Donald V., to General Electric Co. Food release composition consisting of two incompatible organopolysiloxanes. 2,793,197, 5-21-57, Cl. 260—33.8.

- Brown, Donald V., to General Electric Co. Organopolysiloxane polishes. 2,804,440, 8-27-57, Cl. 260-28.
- Brown, E. J., Sales Co.: *See*—
Michael, James F. 2,797,950.
- Brown, Edgar A.: *See*—
Hamilton, Francis E., Zuleeg, and Brown. 2,800,182.
- Brown, Edgar A., and C. C. Zuleeg, to International Business Machines Corp. Data storage apparatus. 2,810,622, 10-22-57, Cl. 346-138.
- Brown, Edgar D., Jr.: *See*—
Kather, William S., Litster, and Brown. 2,803,613.
- Brown, Edgar D., Jr., to General Electric Co. Treatment of leather with methylpolysiloxanes. 2,798,858, 7-9-57, Cl. 260-29.2.
- Brown, Edwin C.: *See*—
Antos, Joseph, and Brown. 2,787,383.
- Brown, Edwin H., to Allis-Chalmers Mfg. Co. Combined fluid pressure bearing and seal for apparatus utilizing a fluid. 2,796,027, 6-18-57, Cl. 103-103.
- Brown, Eldon C., W. H. Driesen, and J. S. Guepet, to The Patent and Licensing Corp. Continuous process for producing bituminous emulsions. 2,782,169, 2-19-57, Cl. 252-311.5.
- Brown, Ernest A.: *See*—
Thunnes, Arvid, Brown, and Rabbitts. 2,813,003.
- Thunnes, Arvid, Brown, Smith, and Simard. 2,815,261.
- Brown, Eugene G. Type cleaning method. 2,796,367, 6-18-57, Cl. 134-6.
- Brown Fintube Co.: *See*—
Brown, John W., Jr. 2,776,656.
- Nihlen, Arvid C. K. 2,797,297.
- Brown-Forman Distillers Corp.: *See*—
Copenhefer, John B., and Scott. 2,785,958.
- Brown, Frank H.: *See*—
Brown, Mary E. and F. H. 2,793,380.
- Brown, Franklin M. Multiple switch control. 2,816,966, 12-17-57, Cl. 200-5.
- Brown, Fred B. Bread crumbling device. 2,795,256, 6-11-57, Cl. 146-203.
- Brown, Frederick G., to The Apponaug Co. Method of making a pleated finish in textile fabric. 2,817,468, 12-24-57, Cl. 223-30.
- Brown, George C., to The Standard Register Co. Strip feeding device. 2,796,771, 6-25-57, Cl. 74-243.
- Brown, George J., to International Telemeter Corp. Tab-afixing device. 2,808,871, 10-8-57, Cl. 154-1.6.
- Brown, George, Jr.: *See*—
Jaulius, John A., Jr., Brown, and Cotterman. 2,784,934.
- Brown, George L.: *See*—
Bettoli, Phillip S., Brown, Eckert, and Kine. 2,778,283.
- Brown, George L., and E. A. Nolan, to Rohm & Haas Co. Pesticidal ethylenebisdithiocarbamates with hydroxy ethyl cellulose compositions and methods. 2,778,768, 1-22-57, Cl. 167-42.
- Brown, George P., Jr., E. I. Crowley, and N. W. Franke, to Gulf Research & Development Co. Nitric acid oxidation of hydrocarbons. 2,791,598, 5-7-57, Cl. 260-452.
- Brown, George T., Jr.: *See*—
Hemming, Charles B., Sheffield, and Brown. 2,812,277.
- Brown, Gilbert G., to Bendix Aviation Corp. Ball bearing assembly cleaner. 2,779,695, 1-29-57, Cl. 134-1.
- Brown, Gilbert G., to Bendix Aviation Corp. Ultrasonic cleaning system. 2,815,193, 12-3-57, Cl. 259-72.
- Brown, Glenwood M.: *See*—
West, George L., Kunzl, and Brown. 2,800,323.
- Brown, Gordon D.: *See*—
Prete, Ernest, Jr., and Snyder. 2,816,339.
- Brown, Gordon E.: *See*—
Golick, Alexander J., and Brown. 2,817,620.
- Brown, Graham B.: *See*—
Fogal, Gordon L., and Brown. 2,778,308.
- Fogal, Gordon L., and Brown. 2,812,148.
- Brown & Haley: *See*—
Bestoso, Napoleon S. 2,795,907.
- Brown, Harold C. Electric soldering gun. 2,792,485, 5-14-57, Cl. 219-26.
- Brown, Harold J. Decoupled converter system. 2,783,431, 2-26-57, Cl. 321-2.
- Brown, Harold P., to The B. F. Goodrich Co. Carboxylic polymers. 2,798,053, 7-2-57, Cl. 260-2.2.
- Brown, Harrison. Rolling spiral cultivator. 2,808,771, 10-8-57, Cl. 97-52.
- Brown, Harrison S., and O. F. Hill, to the United States of America as represented by the United States Atomic Energy Commission. Method of separating plutonium from contaminants. 2,785,047, 3-12-57, Cl. 23-14.5.
- Brown, Harry S., to Mine Safety Appliances Co. Electric safety lamp. 2,805,356, 9-3-57, Cl. 313-315.
- Brown, Harvey A.: *See*—
Ahlbrecht, Arthur H., and Brown. 2,803,656.
- Ahlbrecht, Arthur H., Brown, and Smith. 2,803,615.
- Brown, Harvey A., to Minnesota Mining & Mfg. Co. Fluorocarbon acids and derivatives. 2,809,990, 10-15-57, Cl. 260-534.
- Brown, Helen F. Sweater form. 2,803,386, 8-20-57, Cl. 223-69.
- Brown, Henry. Electrodeposition of nickel. 2,781,305, 2-12-57, Cl. 204-49.
- Brown, Henry. Electrodeposition of nickel. 2,781,306, 2-12-57, Cl. 204-49.
- Brown, Henry, to The Udylyte Research Corp. Electrodeposition of nickel. 2,795,340, 6-11-57, Cl. 204-49.
- Brown, Henry, to The Udylyte Research Corp. Electrodeposition of nickel. 2,800,440, 7-23-57, Cl. 204-49.
- Brown, Henry, to The Udylyte Research Corp. Electrodeposition of nickel. 2,800,442, 7-23-57, Cl. 204-49.
- Brown, Henry, and R. J. Clauss, to The Udylyte Research Corp. Electrodeposition of nickel. 2,800,441, 7-23-57, Cl. 204-49.
- Brown, Henry C., to Armstrong Cork Co. Segmented insulating covering for pipes and the like. 2,776,231, 1-1-57, Cl. 154-44.
- Brown, Henry N. Irrigation ttachment. 2,780,495, 2-5-57, Cl. 299-121.
- Brown, Herbert C., and B. Kanner, to Research Corp. 2,6-alkylpyridines. 2,780,626, 2-5-57, Cl. 260-290.
- Brown, Herbert D.: *See*—
Brown, Lawrence W., H. D., and P. E. 2,814,144.
- Brown, Homer E.: *See*—
Brownlee, Allan L., and Brown. 2,798,377.
- Brown, Horace D., and F. J. Wolter, to the United States of America as represented by the United States Atomic Energy Commission. Uranium chelates of di (salicylal) alkylene-dimine and process for their preparation. 2,778,843, 1-22-57, Cl. 260-429.1.
- Brown, Howard A., to Brown and Crow. Comb attachment for hair clippers. 2,780,868, 2-12-57, Cl. 30-200.
- Brown, Howard D. Portable hydraulically operated digger. 2,776,114, 1-1-57, Cl. 255-22.
- Brown, Howard D. Utility stand. 2,799,463, 7-16-57, Cl. 248-168.
- Brown, Howard G.: *See*—
Albrecht, Clifford C., and Brown. 2,815,647.
- Brown, Howard S. Sanding tool. 2,808,687, 10-8-57, Cl. 51-187.
- Brown, Hugh M., to The Clemson Agricultural College of South Carolina. Machines for continuous dyeing of webs under pressure. 2,781,655, 2-19-57, Cl. 68-22.
- Brown, Hugh M., to Clemson Agricultural College of South Carolina. Twister spindles. 2,795,102, 6-11-57, Cl. 57-58.72.
- Brown, Hugh M., to Clemson Agricultural College of South Carolina. Ends down indicator. 2,796,040, 6-18-57, Cl. 116-114.
- Brown, Hugh M., to The Clemson Agricultural College of South Carolina. Warp feed equalizer. 2,797,468, 7-2-57, Cl. 28-35.
- Brown, Hugh M., to The Clemson Agricultural College of South Carolina. Flow meters. 2,804,771, 9-3-57, Cl. 73-228.
- Brown, Hugh M., to Clemson Agricultural College of South Carolina. Tension control device. 2,812,779, 11-12-57, Cl. 139-100.
- Brown, Jack A., to Varian Associates. Electron discharge device. 2,789,248, 4-16-57, Cl. 313-5.
- Brown, Jack L., and M. M. Landers, to Continental Oil Co. Low fluid loss composition. 2,779,735, 1-29-57, Cl. 252-8.55.
- Brown, James D., to Toledo Scale Co. Meat chopping device with improved chopper barrel. 2,786,505, 3-26-57, Cl. 146-182.
- Brown, James D., to Toledo Scale Co. Latch-operated safety switch for steak machine. 2,802,235, 8-13-57, Cl. 17-26.
- Brown, James D., to Toledo Scale Co. Meat tenderizing machine. 2,807,055, 9-24-57, Cl. 17-26.
- Brown, James D., to Toledo Scale Co. Reciprocating carriage for band saws. 2,807,291, 9-24-57, Cl. 143-25.
- Brown, James D., to Toledo Scale Co. Band saw blade scraper. 2,807,294, 9-24-57, Cl. 143-158.
- Brown, James D., to Toledo Scale Co. Frame for band saws. 2,814,318, 11-26-57, Cl. 143-17.
- Brown, James L.: *See*—
Ferguson, Richard, and Brown. 2,813,616.
- Brown, James R. Beverage dispensing devices. 2,783,703, 3-5-57, Cl. 99-275.
- Brown, James W.: *See*—
Barr, Frank T., Brown, and Jahnig. 2,789,082.
- Etherington, Lewis D., Burnside, and Brown. 2,782,866.
- Brown, James W., to Esso Research and Engineering Co. Process for conversion of heavy hydrocarbons. 2,796,391, 6-18-57, Cl. 202-14.
- Brown, James W., and C. E. Jahnig, to Esso Research and Engineering Co. Short time reactions in the conversion of heavy hydrocarbon oils with solid particles. 2,793,987, 5-28-57, Cl. 196-55.
- Brown, Jerome E., H. Shapiro, and E. G. DeWitt, to Ethyl Corp. Cyclomatic compounds. 2,818,416, 12-31-57, Cl. 260-429.
- Brown, Jerome E., H. Shapiro, and E. G. DeWitt, to Ethyl Corp. Cyclomatic compounds. 2,818,417, 12-31-57, Cl. 260-429.
- Brown, Joan S. Educational or instructive child's knitting kit. 2,778,488, 1-22-57, Cl. 206-47.
- Brown, John E. Fish lure. 2,781,604, 2-19-57, Cl. 43-42.28.
- Brown, John J.: *See*—
Rusca, Ralph A., and Brown. 2,797,574.
- Brown, John R.: *See*—
Maly, George P., and Brown. 2,781,663.
- Brown, John R., to The Reliance Gauge Column Co. Magnetic switch. 2,777,914, 1-15-57, Cl. 200-84.

- Brown, John E., and L. Brown. Lunch kit. 2,783,874, 3-5-57, Cl. 206-4.
- Brown, John T. L., and C. E. Pollard, Jr., to Bell Telephone Laboratories, Inc. Relay adjusting set. 2,806,186, 9-10-57, Cl. 317-157.
- Brown, John W., Jr., to Brown Flintube Co. Down draft eliminator. 2,776,656, 1-8-57, Cl. 126-307.
- Brown, Joseph D., to Polaron Products, Inc. Insulated container. 2,788,149, 4-9-57, Cl. 215-13.
- Brown, Joseph E., and W. A. Harmon to Cen-Tennial Cotton Gin Co. Stripper member for doffing cylinder of textile fiber openers. 2,816,324, 12-17-57, Cl. 19-93.
- Brown, Josie M.: See—
- Brown, Charles H. 2,783,557.
- Brown, Charles H. 2,783,560.
- Brown, Kale C. Detachable trailer hitch. 2,815,964, 12-10-57, Cl. 280-495.
- Brown, Kenneth M., to Universal Oil Products Co. Method of preventing plugging in alkali treatment of hydrocarbons. 2,786,017, 3-19-57, Cl. 196-32.
- Brown, Kenneth M., and C. R. McMahan, to Universal Oil Products Co. Treatment of cracked hydrocarbon distillates with a phenylene diamine, oxygen, and alkali. 2,781,296, 2-12-57, Cl. 196-29.
- Brown, Kenneth N., to Ions Exchange & Chemical Corp. Process for electrolytically producing silver powder. 2,810,682, 10-22-57, Cl. 204-10.
- Brown, Lawrence S.: See—
- Newell, William H., and Brown. 2,815,170.
- Brown, Lawrence W., H. D., and P. E. Toy cap gun. 2,814,144, 11-26-57, Cl. 42-54.
- Brown, Lemual G. Awning. 2,797,451, 7-2-57, Cl. 20-57.5.
- Brown, Leonard E.: See—
- Kruss, Samuel A., and Brown. 2,816,950.
- Brown, Loren A. Container for transporting bulk material in cargo trailers. 2,803,491, 8-20-57, Cl. 296-39.
- Brown, Lydia: See—
- Brown, John R. and L. 2,783,874.
- Brown, Mary E. and F. H. Fountain tooth brush. 2,793,380, 5-28-57, Cl. 15-133.
- Brown, Meyer M. Magnifying viewing device. 2,809,452, 10-15-57, Cl. 40-70.
- Brown, Milton, to Bendix Aviation Corp. Flight direction and course deviation indicator. 2,810,119, 10-15-57, Cl. 340-27.
- Brown, Milton, and M. L. Dring, to Bendix Aviation Corp. Indicating instrument. 2,793,607, 5-28-57, Cl. 116-136.5.
- Brown, Morris C., to ACF Industries, Inc. Slow closing throttle device. 2,793,845, 5-28-57, Cl. 261-65.
- Brown, Ned C. L., to General Railway Signal Co. Switch machine. 2,812,426, 11-5-57, Cl. 246-240.
- Brown, Noel J., and R. K. Daugherty, to A. J. Hosmer Corp. Prosthetic locking hinge. 2,812,961, 11-12-57, Cl. 287-14.
- Brown, Norman F., to U. S. Industries, Inc. Shock absorber apparatus. 2,812,717, 11-12-57, Cl. 103-52.
- Brown, Norman M., Jr.: See—
- Shank, Clifford A., Brown, and Ault. 2,808,985.
- Brown, Northrop, to E. I. du Pont de Nemours and Co. Process for modifying urea-formaldehyde solid foam. 2,807,595, 9-24-57, Cl. 260-2.5.
- Brown, Oliver J. Toy gun for shooting marbles. 2,775,964, 1-1-57, Cl. 124-21.
- Brown, Orland M.: See—
- Blitzer, Sidney M., Brown, and Grandjean. 2,777,866.
- Brown, Otto R., to American Cyanamid Co. Froth flotation process. 2,806,598, 9-17-57, Cl. 209-166.
- Brown, Paul, to Packaging Materials Corp. Corrugated packaging material and method and apparatus for molding the same. Re. 24,361, 9-24-57, Cl. 92-39.
- Brown, Paul E.: See—
- Brown, Lawrence W., H. D., and P. E. 2,814,144.
- Brown, Philip B. Rock drill bit. 2,776,819, 1-8-57, Cl. 255-63.
- Brown, Rachel F.: See—
- Hazen, Elizabeth L., and Brown. 2,797,183.
- Brown, Ralph E., to Genisco, Inc. Variable speed turntable. 2,783,653, 3-5-57, Cl. 74-198.
- Brown, Ralph E., to Genisco, Inc. Centrifugal testing apparatus for instruments. 2,814,944, 12-3-57, Cl. 73-1.
- Brown, Ray W., to Denisco, Inc. Spray attachment for straight dental handpieces. 2,776,487, 1-8-57, Cl. 32-28.
- Brown, Ray W., to Denisco, Inc. Spray attachment for contra angle dental handpieces. 2,776,488, 1-8-57, Cl. 32-28.
- Brown, Raymond L.: See—
- Stevens, Henry W., Lofgren, Brown, and Beede. 2,804,166.
- Brown, Raymond L., to Electroflux Corp. Automatic vacuum cleaners. 2,789,660, 4-23-57, Cl. 183-37.
- Brown, Raymond R., and C. L. Brownlow, to Phillips Petroleum Co. Cable-anchoring and sealing device. 2,783,298, 2-26-57, Cl. 174-59.
- Brown, Raymond W., to Western Electric Co., Inc. Apparatus for testing springs. 2,776,561, 1-8-57, Cl. 73-141.
- Brown, Raymond W., to Western Electric Co., Inc. Apparatus for testing contacts. 2,785,375, 3-12-57, Cl. 324-28.
- Brown, Raymond W., to Western Electric Co., Inc. Apparatus for testing contacts. 2,805,388, 9-3-57, Cl. 324-28.
- Brown, Raymond W., to Western Electric Co., Inc. Apparatus for testing articles. 2,805,389, 9-3-57, Cl. 324-28.
- Brown, Raymond W., G. A. Mitchell, and F. A. Schultz, to Western Electric Co., Inc. Apparatus for molding articles. 2,794,211, 6-4-57, Cl. 18-5.
- Brown, Raymond W., and G. A. Mitchell, to Western Electric Co., Inc. Wave meters. 2,813,251, 11-12-57, Cl. 324-81.
- Brown, Richard E.: See—
- Brixius, Jacob K., and Brown. 2,801,705.
- Brown, Richard E., and H. W. Matlock, to Air Maze Corp. Oil filter. 2,785,806, 3-19-57, Cl. 210-184.
- Brown, Richard J.: See—
- Raymond, David L., and Brown. 2,804,918.
- Brown, Richard J., to Hupp Corp. Forced draft liquid fuel burner of the retort type, and heating apparatus incorporating the same. 2,779,398, 1-29-57, Cl. 158-28.
- Brown, Robert E., to City Tank Corp. Refuse truck and elevator head shaft therefor. 2,778,518, 1-22-57, Cl. 214-518.
- Brown, Robert G., to Polychrome Corp. Stencil assembly with protective film. 2,779,268, 1-29-57, Cl. 101-128.2.
- Brown, Robert H., $\frac{1}{2}$ to R. M. Bowers. Wheel balancing apparatus and method. 2,789,330, 4-23-57, Cl. 22-116.
- Brown, Robert J. Electric motor driven pump. 2,809,590, 10-15-57, Cl. 103-87.
- Brown, Robert L.: See—
- Elms, Edwin F. 2,783,512.
- Elms, Edwin F. 2,783,513.
- Franz, Edward. 2,783,514.
- Brown, Robert L. Fastener. 2,779,986, 2-5-57, Cl. 24-73.
- Brown, Robert L., and R. E. Peckham, said Peckham assor. to said Brown. Fastener for trim material. 2,787,493, 4-2-57, Cl. 296-28.
- Brown, Robert N., to Kearfoot Co., Inc. Floated gyro. 2,780,940, 2-12-57, Cl. 74-5.7.
- Brown, Roger W., to Cone Automatic Machine Co. Inc. Loading mechanism. 2,808,753, 10-8-57, Cl. 82-44.
- Brown, Roland, to Block & Anderson Ltd. Sheet feeding devices for hectographic duplicating machines. 2,787,211, 4-2-57, Cl. 101-132.5.
- Brown, Ronald O. Shoulder pack. 2,792,980, 5-21-57, Cl. 224-8.
- Brown, Russell J.: See—
- Downing, John, and Brown. 2,792,325.
- Brown, Russell J., and J. Downing, to British Celanese Ltd. Method of producing a pile fabric of cellulose acetate. 2,776,223, 1-1-57, Cl. 117-17.
- Brown, Seymour W., to Carrier Corp. Method and apparatus for heating and cooling a compartmented enclosure. 2,787,128, 4-2-57, Cl. 62-3.
- Brown, Scott W., and A. A. Kraynak. Shoe polish applicator. 2,816,314, 12-17-57, Cl. 15-210.
- Brown & Sharpe Mfg. Co.: See—
- Twamley, William E. 2,780,857.
- Twamley, William E. 2,791,135.
- Twamley, William E., and Gotham. 2,813,445.
- Brown, Stephen S., to Esso Research and Engineering Co. High pressure dump mechanism. 2,793,648, 5-28-57, Cl. 137-184.
- Brown, Stephen S., to Esso Research and Engineering Co. Level control pilot. 2,810,392, 10-22-57, Cl. 137-122.
- Brown, Thomas F., to Westinghouse Electric Corp. Panel boards. 2,790,113, 4-23-57, Cl. 317-119.
- Brown, Victor, and J. H. Nelson, to Kropp Forge Co. Method for the controlled cooling of steel forgings. 2,778,755, 1-22-57, Cl. 148-21.5.
- Brown, W. Hensel: See—
- Mueller, Herman H. 2,809,840.
- Mueller, Herman H. 2,809,841.
- Mueller, Herman H. 2,809,843.
- Brown, Walter, and J. Bernatt, to James R. Kearney Corp. Electrical switches. 2,780,684, 2-5-57, Cl. 200-48.
- Brown, Walter C., to Western Electric Co., Inc. Plier-type, magazine-feed crimping and cutting hand tool. 2,812,676, 11-12-57, Cl. 81-15.
- Brown, Walter J. Electric control system for adjusting and controlling speed of a series motor. 2,777,106, 1-8-57, Cl. 318-249.
- Brown, Walter J. Electrical control systems for adjusting and controlling the speed of a series wound electric motor. 2,799,818, 7-16-57, Cl. 318-245.
- Brown, Walter J. Speed control for a series wound electric motor. 2,799,819, 7-16-57, Cl. 318-246.
- Brown, Walter L., to Bell Telephone Laboratories, Inc. Semi-conductive device. 2,791,759, 5-7-57, Cl. 340-173.
- Brown, Walter O. Photo carrying board and protector. 2,777,230, 1-15-57, Cl. 40-61.
- Brown, Warren D.: See—
- Brown, Warren G., and W. D. 2,793,080.
- Brown, Warren D. Non-clogging outlet valve for tank for mixing cementitious materials. 2,786,608, 3-26-57, Cl. 222-212.
- Brown, Warren D. Quick change filler hopper and tank cover plate. 2,817,374, 12-24-57, Cl. 141-342.
- Brown, Warren G., and W. D. Nozzle for spraying cementitious materials. 2,793,080, 5-21-57, Cl. 299-134.
- Brown, Weldon G., to Commercial Solvents Corp. N-(cyclopropylmethyl)-cyclohexylamine. 2,784,226, 3-5-57, Cl. 260-563.
- Brown, Werner C., to Hercules Powder Co. Ethyl cellulose emulsions. 2,776,904, 1-8-57, Cl. 106-170.
- Brown, Werner C., to Hercules Powder Co. Nitrocellulose emulsions. 2,792,314, 5-14-57, Cl. 106-170.

- Brown, William, to Webcor, Inc. Multi-speed drive. 2,795,961, 6-18-57, Cl. 74-200.
- Brown, William, to Sturmey-Archer Gears Ltd. Combined change-speed gear and brake hubs for bicycle wheels. 2,816,634, 12-17-57, Cl. 192-4.
- Brown, William C., to Raytheon Mfg. Co. Wide range tunable magnetrons. 2,801,368, 7-30-57, Cl. 315-39.61.
- Brown, William C., to Raytheon Mfg. Co. Electron-discharge devices. 2,805,361, 9-3-57, Cl. 315-39.51.
- Brown, William C., and E. C. Dench, to Raytheon Mfg. Co. Electron discharge devices. 2,802,141, 8-6-57, Cl. 315-39.3.
- Brown, William E.: *See*—
Baker, Albert D., and Brown. 2,798,906.
Elliott, Harold V., and Brown. 2,804,512.
- Brown, William E., to General Motors Corp. Lamp supporting and operating structure. 2,783,318, 2-26-57, Cl. 200-51.13.
- Brown, William E., to General Motors Corp. Compartment light and switch. 2,788,407, 4-9-57, Cl. 200-61.82.
- Brown, William E., to General Motors Corp. Glove compartment lamp mounting and switch. 2,791,677, 5-7-57, Cl. 240-7.1.
- Brown, William E., to General Motors Corp. Starter switch. 2,811,598, 10-29-57, Cl. 200-61.54.
- Brown, William E., and H. E. Elliott, to General Motors Corp. Control device. 2,779,827, 1-29-57, Cl. 200-4.
- Brown, William E., and H. V. Elliott, to General Motors Corp. Fluid pressure switch. 2,783,324, 2-26-57, Cl. 200-83.
- Brown, William E., and W. Cole, to General Motors Corp. Direction signal switch. 2,800,541, 7-23-57, Cl. 200-61.34.
- Brown, William E., and H. V. Elliott, to General Motors Corp. Control device. 2,807,680, 9-24-57, Cl. 200-16.
- Brown, William E., and H. V. Elliott, to General Motors Corp. Headlight control switch. 2,810,794, 10-22-57, Cl. 200-6.
- Brown, William F., Jr., to Sun Oil Co. Electrical analogs. 2,798,666, 7-9-57, Cl. 235-61.
- Brown, William G.: *See*—
Booth, Galt B., Brown, and Unholtz. 2,781,461.
- Brown, William H.: *See*—
Coar, Richard J., and Brown. 2,780,054.
- Brown, William H., to United Aircraft Corp. Blade retaining means. 2,801,074, 7-30-57, Cl. 253-77.
- Brown, William R. Article of furniture. 2,810,919, 10-29-57, Cl. 5-14.
- Brown, William V., to Republic Aviation Corp. Means for determining aircraft characteristics. 2,815,665, 12-10-57, Cl. 73-432.
- Brown & Williamson Tobacco Corp.: *See*—
Hunter, Harry C. 2,789,564.
- Brownell, Edgar G. Auxiliary connector for a watch. 2,810,179, 10-22-57, Cl. 24-265.
- Browne, Denis W.: *See*—
Allan, John, Browne, and Samuel. 2,798,258.
- Browne, Donald W., to Aera Electric Corp. Electrical connector. 2,795,685, 6-11-57, Cl. 219-38.
- Browne, James H., and D. H. Stephens. Radiant space heater. 2,800,563, 7-23-57, Cl. 219-35.
- Browne, Kenneth A., to The Chesapeake and Ohio Railway Co. Journal bearing. 2,785,020, 3-12-57, Cl. 308-41.
- Browne, Kenneth A., and J. F. Norton, to The Chesapeake and Ohio Railway Co. Electric control for pneumatic train brakes. 2,810,610, 10-22-57, Cl. 303-15.
- Browne, M. S.: *See*—
Webb, Cecil E. 2,794,232.
- Browne, Thomas E., Jr.: *See*—
Lingal, Harry J., Browne, and Strom. 2,798,922.
- Brownell, Barnett M., to Central Die & Supply Corp. Clicker dies. 2,791,273, 5-7-57, Cl. 164-29.
- Brownell, Barnett M., to Central Die & Supply Corp. Method of making a cutting die. 2,817,981, 12-31-57, Cl. 76-107.
- Brownell, Lloyd E., R. A. Flinn, and E. H. Young. Furnace construction and its method of operation. 2,799,493, 7-16-57, Cl. 266-32.
- Brownell, Lloyd E., and S. A. Zieminski, to The United States of America as represented by the Secretary of Agriculture. Processing of sugar beets. 2,807,560, 9-24-57, Cl. 127-43.
- Brownell, Lloyd E., and S. A. Zieminski, to The United States of America as represented by the Secretary of Agriculture. Treatment of sugar beets to release juice. 2,818,358, 12-31-57, Cl. 127-43.
- Brownfield, Charles F. Construction of can and opener. 2,801,464, 8-6-57, Cl. 30-17.
- Brownfield, Charles F. Unique container or package. 2,812,057, 11-5-57, Cl. 206-41.2.
- Browning, George G., to G & W Mfg. Co., Inc. Range finding device for archery bows. 2,788,701, 4-16-57, Cl. 88-2.3.
- Browning, George V., and A. M. Bueche, to General Electric Co. Curable organopolysiloxane compositions having hydrolyzed alkyl trihalogenosilane filler and cured products of same. 2,809,180, 10-8-57, Cl. 260-42.
- Browning, Harold: *See*—
Johnson, Sidney P., and Browning. 2,809,549.
- Browning, Iben, and L. S. Lockingen. Micromanipulators. 2,782,682, 2-26-57, Cl. 88-40.
- Browning Industries, Inc.: *See*—
Browning, Val A. 2,788,714.
- Browning, James E. Rock breakers. 2,787,943, 4-9-57, Cl. 97-40.
- Browning, Otis M. Automatic bedding marker. 2,780,977, 2-12-57, Cl. 97-230.
- Browning, Randolph M., to St. Regis Paper Co. Method and apparatus for forming moisture-proof gussets. 2,788,720, 4-16-57, Cl. 93-19.
- Browning, Randolph M., and H. E. Lee, to St. Regis Paper Co. Apparatus for making a multi-ply valve bag having an extended intermediate valve ply. 2,818,003, 12-31-57, Cl. 93-8.
- Browning, Val A., to Browning Industries, Inc. Recoil mechanism for firearms. 2,788,714, 4-16-57, Cl. 89-177.
- Browning, William C., to Marathon Corp. Drilling fluids for oil wells and additives therefor. 2,800,449, 7-23-57, Cl. 252-8.5.
- Brownlee, Allan L., and H. E. Brown. Apparatus for providing temperature indications of inaccessible objects. 2,798,377, 7-9-57, Cl. 73-341.
- Brownlee, Donald J.: *See*—
Brownlee, George and D. J. 2,784,859.
- Brownlee, George R. and D. J. Self-loading and unloading bale wagon. 2,784,859, 3-12-57, Cl. 214-519.
- Brownley, Trenholm L., to E. I. du Pont de Nemours and Co. Grinding machine. 2,815,619, 12-10-57, Cl. 51-247.
- Brownlow, Cecil L.: *See*—
Brown, Raymond R., and Brownlow. 2,783,298.
- Brownlow, David R.: *See*—
Walters, Gustav, Rasero, and Brownlow. 2,801,456.
- Brownold, Charles: *See*—
Brooks, Charles, Sutton, and Brownold. 2,807,307.
- Brownscombe, Philip J. Low frequency loudspeaker. 2,810,021, 10-15-57, Cl. 179-115.5.
- Brownscombe, Philip J., to Viewflex, Inc. Brightness control means. 2,815,696, 12-10-57, Cl. 88-24.
- Brownstein, Benjamin. Apparatus for rolling tubes. 2,778,253, 1-22-57, Cl. 80-11.
- Brownstein, Benjamin. Flexible bushing and mold stool for cast tubular ingots. 2,779,676, 1-29-57, Cl. 75-140.
- Broyhill, Roy F. Stock tank heater. 2,782,781, 2-26-57, Cl. 126-360.
- Broyles, Margaret H.: *See*—
Meyer, Lester W. A., and Broyles. 2,811,460.
Meyer, Lester W. A., and Broyles. 2,811,461.
- Broyles, Otis T., $\frac{1}{2}$ to W. B. Taylor and $\frac{1}{4}$ to J. R. Crump. Formation tester. 2,780,292, 2-5-57, Cl. 166-100.
- Brozek, John S., and C. A. Ellis, to Sargent & Co. Screw socket assembly for door escutcheon. 2,805,880, 9-10-57, Cl. 292-357.
- Bruan, Philip N., and J. A. Filsinger, to Textile Marking Machine Co., Inc. Machine for attaching identifying tags to garments. 2,808,767, 10-8-57, Cl. 93-88.
- Brubaker, Richard M.: *See*—
Pichler, Joseph R., Brubaker, Shuler, and Wark. 2,779,165.
- Brubaker, Wilson M.: *See*—
Robinson, Charles F., Langmuir, Brubaker, and Perkins. 2,780,729.
- Bruce, David S., and H. M. Spurlin, to Hercules Powder Co. Stabilization of nitrocellulose. 2,776,880, 1-8-57, Cl. 52-5.1.
- Bruce, John, K. G. Huntley, and E. L. C. White, to Electric & Musical Industries Ltd. Electronic registers for binary digital computing apparatus. 2,785,304, 3-12-57, Cl. 250-27.
- Bruce, John N. Pilot controlled main valve for high pressure lines. 2,805,037, 9-3-57, Cl. 251-25.
- Bruce, John N. Positive traction device for automobile wheels. 2,805,101, 9-3-57, Cl. 301-47.
- Bruce, Ralph E., and R. M. McClung, to Production Control Units, Inc. Liquid metering device. 2,775,870, 1-1-57, Cl. 62-1.
- Bruce, Robert E., to Malcolm Products. Ornamental candelabrum. 2,795,124, 6-11-57, Cl. 67-25.
- Bruce, Stanford P., to Wheel Trueing Tool Co. Manual tool for dressing grinding wheels. 2,807,919, 10-1-57, Cl. 51-205.
- Bruce, William A., to Esso Research and Engineering Co. Method of initiating combustion in an oil reservoir. 2,796,132, 6-18-57, Cl. 166-39.
- Bruce, William F.: *See*—
Hanslick, Roy S., and Bruce. 2,784,229.
Hanslick, Roy S., and Bruce. 2,801,243.
Tislow, Richard, and Bruce. 2,784,180.
- Bruce, William F., to American Home Products Corp. Chloral derivatives and methods for their preparation. 2,784,237, 3-5-57, Cl. 260-615.
- Bruce, William F., and J. Seifter, to American Home Products Corp. Substituted glycinamides. 2,778,834, 1-22-57, Cl. 260-287.
- Bruce, William F., and M. Ban, to American Home Products Corp. Process of producing 5,5-di-substituted barbituric acids and product produced thereby. 2,786,057, 3-19-57, Cl. 260-257.
- Bruce, William F., J. Diamond, and R. de Vere Huber, to American Home Products Corp. Azacyclohexane compounds and method for preparing them. 2,813,874, 11-19-57, Cl. 260-294.3.
- Bruce, William L., to The Goodyear Tire & Rubber Co. White factice and isocyanate-modified polyester composition. 2,782,172, 2-19-57, Cl. 260-22.

- Bruce, William L., to The Goodyear Tire & Rubber Co. Compositions comprising magnesium oxide and elastomeric isocyanate-modified linear polyesters. 2,798,859, 7-9-57, Cl. 260-40.
- Bruchtel, Frank. Self-enclosed folding table and bench set. 2,796,115, 6-18-57, Cl. 155-123.
- Bruck, George: *See*—
Bishop, Robert P., Bruck, Painter, and Shaw. 2,796,314.
- Bruck, George, W. R. Harter, and I. M. Wilbur, to Avco Mfg. Corp. Power supply circuit using controllable electron solid state devices. 2,798,160, 7-2-57, Cl. 250-36.
- Brück, Gerhard: *See*—
Tannenbaum, Miklos, Kun, Soltesz, and Brück. 2,789,667.
- Brück, Lothar, to Telefunken Gesellschaft fuer drahtlose Telegraphie G. m. b. H. Traveling wave electron discharge device. 2,814,755, 11-26-57, Cl. 315-3.5.
- Brucken, Byron L., to General Motors Corp. Rotation and reciprocity power unit. 2,801,549, 8-6-57, Cl. 74-472.
- Brucker, Ferdinand F. Guide fence for a machine table. 2,786,497, 3-26-57, Cl. 143-174.
- Brucker, Milton, to Zenith Plastics Co. Method of making radar reflector. 2,805,974, 9-10-57, Cl. 154-110.
- Brucker, William S., to The Black & Decker Mfg. Co. Rotary impacting nut running tool. 2,792,732, 5-21-57, Cl. 81-52.3.
- Brucker, William S., to The Black & Decker Mfg. Co. Feather edger. 2,800,751, 7-30-57, Cl. 51-197.
- Bruckman, William C., to The Easy Washing Machine Co., Ltd. Control system. 2,776,557, 1-8-57, Cl. 68-12.
- Bruckmann, Bruno W. Air cooling of turbine blades. 2,779,565, 1-29-57, Cl. 253-39.15.
- Brückner, Ernst: *See*—
Liebhart, Max, Bellinger, and Brückner. 2,804,975.
- Brucksch, William F., Jr.: *See*—
Peterson, Dean E., and Brucksch. 2,811,504.
- Bruder, Frederick: *See*—
Harding, Frederick H., and Bruder. 2,785,998.
- Bruderlin, Henry H. Ice cream freezer. 2,806,679, 9-17-57, Cl. 259-71.
- Brudney, Harry. Means for mounting eyes in stuffed toys. 2,799,971, 7-23-57, Cl. 46-165.
- Bruecker, George B. Barn gutter cleaner. 2,785,790, 3-19-57, Cl. 198-224.
- Brueckner, Karl K., to A. O. Smith Corp. Method of forming curved rack bars. 2,804,681, 9-3-57, Cl. 29-159.2.
- Bruder, Antoine, to Societe Anonyme Andre Citroen. Optical projection viewing and indicating means for measuring instruments. 2,782,679, 2-26-57, Cl. 88-24.
- Bruder, Antoine, to Societe Anonyme Andre Citroen. Anti-rolling device for vehicles. 2,787,474, 4-2-57, Cl. 280-112.
- Bruder, Antoine, to Societe Anonyme Andre Citroen. Ignition coils for internal combustion engines. 2,806,998, 9-17-57, Cl. 336-90.
- Bruder, Antoine, to Societe Anonyme Andre Citroen. Hydraulic device for retarding the return of a carburetor throttle to its idling position. 2,807,457, 9-24-57, Cl. 267-1.
- Bruder, Antoine, to Societe Anonyme Andre Citroen. Sprung axle for automotive vehicles. 2,815,961, 12-10-57, Cl. 280-124.
- Bruegger, Ernest, to The Grisco-Russell Co. Catalyst finned tubing and method of making. 2,778,610, 1-22-57, Cl. 257-262.19.
- Bruegger, Ernest, to The Grisco-Russell Co. Intermittently variable feed mechanism for forming changeable lead helix. 2,796,794, 6-25-57, Cl. 82-21.
- Bruel, Edward N. Cover locking device. 2,817,552, 12-24-57, Cl. 292-259.
- Bruene, Warren B., to Collins Radio Co. Impedance matching device. 2,777,996, 1-15-57, Cl. 333-26.
- Bruene, Warren B., to Collins Radio Co. Grounded grid power amplifier. 2,810,793, 10-22-57, Cl. 179-171.
- Bruesselbach, William: *See*—
Fortmann, Kurt. 2,797,695.
- Bruistle, Armin O., to The Cincinnati Mine Machinery Co. Pintle constructions for cutter chains. 2,788,670, 4-16-57, Cl. 74-251.
- Bruistle, Armin O., J. R. Cartlidge, and C. B. Krekeler, to The Cincinnati Mine Machinery Co. Cutter bit holder. 2,791,413, 5-7-57, Cl. 262-33.
- Bruistle, Armin O., J. R. Cartlidge, and C. B. Krekeler, to The Cincinnati Mine Machinery Co. Cutter bit and holder. 2,791,414, 5-7-57, Cl. 262-33.
- Bruistle, Carl O., to Syncro Machine Co. Wire clamp. 2,776,097, 1-1-57, Cl. 242-125.
- Bruistle, Carl O., to Syncro Machine Co. Cable stranding machine. 2,787,884, 4-9-57, Cl. 57-65.
- Bruggeman, Warren H., and B. G. Voorhees, to the United States of America as represented by the United States Atomic Energy Commission. Method for removing sodium oxide from liquid sodium. 2,815,277, 12-3-57, Cl. 75-66.
- Brugler, Dale A., to General Motors Corp. Sealing strip. 2,814,841, 12-3-57, Cl. 20-56.4.
- Brugler, Richard L., to Chrysler Corp. Cooling means for assembly with a counter-flow furnace. 2,816,423, 12-17-57, Cl. 62-140.
- Brugmann, John B. Screen support. 2,813,629, 11-19-57, Cl. 209-403.
- Brugman, Lawrence W., and R. F. Koch, to Felt & Tarrant Mfg. Co. Split clearing mechanism. 2,778,569, 1-22-57, Cl. 235-144.
- Bugmann, William H., Jr., to Esso Research and Engineering Co. Lubricating oil composition. 2,786,029, 3-19-57, Cl. 252-32.7.
- Bruhn, Henry H.: *See*—
Bagley, Paul C., McGivney, Bruhn, and Miller. 2,789,032.
- Bruins, Paul F., and S. S. Dorn, to Carboline Co. Surface coatings of solutions of furfural-modified hydrolyzed vinyl acetate-vinyl chloride copolymers. 2,782,175, 2-19-57, Cl. 260-30.4.
- Bruma, Marc, to Centre National de la Recherche Scientifique. Electrical spark machining devices. 2,798,934, 7-9-57, Cl. 219-69.
- Brumbaugh, Isaac V. Method of forming a manifold. 2,793,421, 5-28-57, Cl. 29-157.
- Brumbaugh, Isaac V. Gas burner. 2,805,710, 9-10-57, Cl. 158-116.
- Brumbaugh, Isaac V. Gas burner head having ribbed cap member provided with peripherally drilled ports. 2,817,397, 12-24-57, Cl. 158-116.
- Brumby, Augusta C. Spectacles having interchangeable lens. 2,781,693, 2-19-57, Cl. 88-47.
- Brumby, Clarence P. Automobile self lift elevator. 2,796,952, 6-25-57, Cl. 187-8.56.
- Brunfield, Ambrose T. Railroad track switch friction reducer. 2,785,835, 3-19-57, Cl. 246-453.
- Brumfield, Elmer B. Rotary kite. 2,793,829, 5-28-57, Cl. 244-153.
- Brunner Seal Co.: *See*—
Heimbuch, Elmer F. 2,784,016.
- Brummet, Berthal D., to McGraw-Edison Co. Method of purifying trichloroethylene. 2,799,716, 7-16-57, Cl. 260-654.
- Brunaa, Oluf U. B. J. Mailing boxes. 2,778,561, 1-22-57, Cl. 229-51.
- Brundage, Alan D., to Houdaille Industries, Inc. Top operating mechanism. 2,803,146, 8-20-57, Cl. 74-424.8.
- Brundage, Alan D., to Houdaille Industries, Inc. Seat adjusting mechanism. 2,809,688, 10-15-57, Cl. 155-14.
- Brundage, Alan D., to Houdaille Industries, Inc. Hood lift and hood latch mechanism. 2,811,348, 10-29-57, Cl. 268-74.
- Brundage, Alan D., C. E. McCormick, and G. W. Schatzman, to Houdaille Industries, Inc. Spare wheel mount for automobiles. 2,776,791, 1-8-57, Cl. 224-42.21.
- Brundage, Jaman D. Precast septic tank. 2,781,311, 2-12-57, Cl. 210-6.
- Brundage, James W., to National Rubber Machinery Co. Tire curing press. 2,778,060, 1-22-57, Cl. 18-17.
- Brundell, Per G., and K.-E. A. Jonsson, to Soderhamns Verkstadars Aktiebolag. Arrangement for feeding forward of logs and the like. 2,785,715, 3-19-57, Cl. 144-247.
- Brundell, Per G., and K.-E. A. Jonsson, to Soderhamns Verkstadars Aktiebolag. Rotary debarker having pivotal bark-removing tools biased by elastic rubber. 2,786,499, 3-26-57, Cl. 144-208.
- Brundell, Per G., and K.-E. A. Jonsson. Machine for removing bark from logs. 2,787,304, 4-2-57, Cl. 144-208.
- Brundell, Per G., and K.-E. A. Jonsson, to Soderhamns Verkstad AB. Rotary ring-type debarker, including means for disintegrating slivers of bark. 2,788,034, 4-9-57, Cl. 144-208.
- Brunderman, Martin E. Ball throwing device. 2,815,743, 12-10-57, Cl. 124-7.
- Brunin, Nils H., O. Wiberg, and E. Geijer, to Aktiebolaget Hozanasmotoder. Method of improving metal powders. 2,791,498, 5-7-57, Cl. 75-0.5.
- Bruene, Herbert. Method of producing multilayered blown hollow glass bodies. 2,802,309, 8-13-57, Cl. 49-80.
- Brüne, Herbert, and L. Koehn. Closures for the outlet opening of bottles, containers, pipes and the like. 2,800,241, 7-23-57, Cl. 215-79.
- Brunelli, Angelo J., and S. J. Mortaro. Shielded roller painting device. 2,799,886, 7-23-57, Cl. 15-248.
- Bruner, Ernest M., C. F. Smith, and J. Oshatz, 1/2 to said Oshatz and 1/2 to J. Katz. Cotton picking spindle. 2,795,918, 6-18-57, Cl. 56-50.
- Bruner, Harold E., to Monsanto Chemical Co. Herbicidal composition. 2,811,432, 10-29-57, Cl. 71-2.3.
- Brunhilde, Skinner W.: *See*—
Skinner, Bronson C. 2,803,231.
- Brunhoff Mfg. Co.: *See*—
Schoenlaub, Harry R. 2,776,757.
- Bruni, Gaetano: *See*—
Munch, Werner, Notarbartolo, and Bruni. 2,811,410.
- Bruning, Charles Co., Inc.: *See*—
Ferzola, Anthony J., and Botkin. 2,780,547.
- Bruning, Herman F. Pipe marking gauge. 2,813,343, 11-19-57, Cl. 33-21.
- Bruning, Vincent F. Bale loading device. 2,788,142, 4-9-57, Cl. 214-140.
- Bruninga, John H.: *See*—
Moldenhauer, August J. 2,793,119.
- Bruninga, John H., Jr.: *See*—
Bell, Thomas G. 2,799,641.
- Bruninga, John H., Sr.: *See*—
Bell, Thomas G. 2,799,641.
- Brunn, Henry M. Fish and game carrier. 2,812,206, 11-5-57, Cl. 294-79.
- Brunn, Robert B. J., to Hazeltine Research, Inc. Tracking system for radio position locator. 2,790,167, 4-23-57, Cl. 343-7.3.

- Brunner, Albert: *See*—
Klinkiesiek, Karl W., and Brunner. 2,795,041.
- Brunner, August, and G. Veronesi, to Mezzera Societa per Azioni, Apparatus for liquid treatment of fabric and the like. 2,783,633, 3-5-57, Cl. 68—176.
- Brunner, August J., Apparatus for liquid treating of fabric in a festoon-like arrangement. 2,814,192, 11-26-57, Cl. 68—158.
- Brunner, James W., and J. Cowan. Machines for forming Journal box packing rolls. 2,817,289, 12-24-57, Cl. 100—87.
- Brunner, John J., to the United States of America as represented by the United States Atomic Energy Commission. Uranium recovery process. 2,782,091, 2-19-57, Cl. 23—14.5.
- Brunner, Max. Key ring. 2,783,637, 3-5-57, Cl. 70—458.
- Brunner, Max. Key holder and key. 2,790,319, 4-30-57, Cl. 70—456.
- Brünnner, Nikolaus, to Societe Anonyme Adolphe Saurer. Loose thread winding up and stretching device for automatic looms. 2,778,383, 1-22-57, Cl. 139—260.
- Brunnier, Edward J., to D'Arrigo Bros. Co. of California. Apparatus for trimming vegetables and the like. 2,801,662, 8-6-57, Cl. 146—82.
- Brunnstrom, Gosta, to American Cyanamid Co. Process for preparing dinaphtho-[2,1,1',2']-furan-5,6-dione. 2,783,248, 2-26-57, Cl. 260—346.2.
- Bruno, Anna: *See*—
Capocci, Leonardo. 2,778,588.
- Bruno, Arthur J., and J. Dec, to Johns-Manville Corp. Thermosetting pressure-sensitive adhesive. 2,789,096, 4-16-57, Cl. 260—4.
- Bruno, Arthur J., and S. Speil, to Johns-Manville Corp. Thermal insulating bodies and method of manufacture. 2,808,338, 10-1-57, Cl. 106—69.
- Bruno, August C. Animal feeding device. 2,813,509, 11-19-57, Cl. 119—51.
- Bruno, Jack J. Hinges. 2,810,152, 10-22-57, Cl. 16—153.
- Bruns, Elton W., to Stamco, Inc. Apparatus for slitting and coiling lines. 2,786,527, 3-26-57, Cl. 164—10.6.
- Bruns, Elton W., to Stamco, Inc. Apparatus for slitting and coiling lines. 2,792,060, 5-14-57, Cl. 164—61.
- Brunson, Virgil A., E. Verburg, and H. L. Vanden Hoek, to Blackmer Pump Co. Register for meter pumps. 2,804,239, 8-27-57, Cl. 222—36.
- Brunstrum, Lawrence C., and A. C. Borg, to Standard Oil Co. Universal penetrometer cone. 2,782,630, 2-26-57, Cl. 73—64.
- Brunstrum, Lawrence C., and A. C. Borg, to Standard Oil Co. Penetrometer cone for all greases. 2,794,339, 6-4-57, Cl. 73—57.
- Brunsviga Maschinenwerke Aktiengesellschaft: *See*—
Neumann-Lezius, Hans. 2,815,912.
- Brunswick-Balke-Collender Co., The: *See*—
Lappin, Richard J., Anderson, and Wurn. 2,815,541.
- Montooth, George A. 2,788,212.
- Montooth, George A. 2,817,527.
- Montooth, George A. 2,817,529.
- Montooth, George A., and Bowen. 2,809,037.
- Reineman, Richard G. 2,795,471.
- Sanford, David P. 2,817,528.
- Scheidemantel, Herman B., Satchell, and Martyniuk. 2,809,038.
- Brunt, Charles H. Electric motors. 2,800,619, 7-23-57, Cl. 318—45.
- Bruntjen, Herman A. Beverage cooling, dispensing and mixing machine. 2,775,877, 1-1-57, Cl. 62—141.
- Brusch, Louis E. Machine and method for making moss poles. 2,806,326, 9-17-57, Cl. 47—58.
- Brusco, John P. Oil well sucker rod assembly. 2,812,818, 11-12-57, Cl. 166—60.
- Brush, Abbott H., to N. J. Boots. Expanded insert for engagement with free-running screw. 2,785,726, 3-19-57, Cl. 151—41.72.
- Brush, Abbott H. Expansive fastener having a crown spring head. 2,789,456, 4-23-57, Cl. 85—2.
- Brush, Edward E. Carburetor synchronizing device. 2,809,516, 10-15-57, Cl. 73—118.
- Brush, Helen P.: *See*—
Lee, Edison G., and Brush. 2,805,200.
- Buski, Leonard J. G., to The Superior Electric Co. Variable autotransformer control. 2,805,367, 9-3-57, Cl. 317—15.
- Buson, Herman A., and W. F. Brill, to Olin Mathieson Chemical Corp. Process for making diaryl ketone polycarboxylic acids. 2,806,059, 9-10-57, Cl. 260—517.
- Brust, Harry F.: *See*—
Senkbeil, Herman O., and Brust. 2,815,365.
- Brust, Harry F., and H. O. Senkbeil, to The Dow Chemical Co. Process for making alpha, alpha-dihalo-propionic acids. 2,809,992, 10-15-57, Cl. 260—539.
- Brustman, Joseph A., and D. L. Noble, to Sperry Rand Corp. Card to tape perforator. 2,813,150, 11-12-57, Cl. 178—26.
- Brutscher, Rufus A., Jr.: *See*—
Brutscher, Rufus A., Sr., and R. A. Brutscher, Jr. 2,813,939.
- Brutscher, Rufus A., Sr., and R. A. Brutscher, Jr. Electrical control system. 2,813,939, 11-19-57, Cl. 200—44.
- Brütting, Ludwig, to M. Fuchs. Musical tops. 2,809,548, 10-15-57, Cl. 84—83.
- Bruxelles, Gregory N., to Hercules Powder Co. Nitrocellulose coating composition for metals. 2,798,014, 7-2-57, Cl. 148—6.16.
- Bruyneel, Yvonne: *See*—
Jellinek, Charles. 2,783,366.
- Bruzenak, Steve. Resuscitating see-saw. 2,798,479, 7-9-57, Cl. 128—28.
- Bruzenak, Steve. Respirating see-saw. 2,798,480, 7-9-57, Cl. 128—28.
- Bryan, Carl E.: *See*—
Kelly, Robert J., and Bryan. 2,809,190.
- Bryan, Charles B.: *See*—
Ostermann, Hans J., Wilkens, and Bryan. Re. 24,267.
- Bryan, Edward R. Antiskid device for vehicle wheels. 2,808,868, 10-8-57, Cl. 152—228.
- Bryan, Henry B., to The Hobart Brothers Co. Welding flux. 2,805,971, 9-10-57, Cl. 148—26.
- Bryan, James D., to Aircraft Armaments, Inc. Synchroscopes. 2,812,493, 11-5-57, Cl. 324—68.
- Bryan, James S.: *See*—
Moulton, Stephen W., and Bryan. 2,798,201.
- Bryan, John W., Jr.: *See*—
Bryan, John W., Sr., and J. W. Bryan, Jr. 2,806,447.
- Bryan, John W., Sr., and J. W. Bryan, Jr. 2,806,600.
- Bryan, John W., Sr., and J. W. Bryan, Jr. Drive for a feed and bedding separator. 2,806,447, 9-17-57, Cl. 119—52.
- Bryan, John W., Sr., and J. W. Bryan, Jr. Separator for separating granular poultry feed from poultry bedding. 2,806,600, 9-17-57, Cl. 209—235.
- Bryan, Reed A. Keg cooler and dispensing bar unit. 2,792,692, 5-21-57, Cl. 62—144.
- Bryan, Thomas E., to Otis Engineering Corp. Balanced gas lift valve. 2,815,764, 12-10-57, Cl. 137—155.
- Bryan, Wilbur L.: *See*—
Waelthel, Jacques L., and Bryan. 2,793,978.
- Bryant, Albert J. Power train for tilt arbor saw. 2,792,858, 5-21-57, Cl. 143—36.
- Bryant, Austin U.: *See*—
Grove, Marvin H., and Bryant. 2,796,230.
- Bryant, Austin U., to Grove Valve and Regulator Co. Valve construction. 2,777,664, 1-15-57, Cl. 251—174.
- Bryant, Austin U., to Grove Valve & Regulator Co. Welding apparatus. 2,777,937, 1-15-57, Cl. 219—125.
- Bryant, Austin U., to Walworth Co. Valve construction. 2,791,238, 5-7-57, Cl. 137—625.34.
- Bryant, Austin U., to Walworth Co. Valve construction. 2,810,542, 10-22-57, Cl. 251—172.
- Bryant, Austin U., to Walworth Co. Valve construction. 2,810,543, 10-22-57, Cl. 251—172.
- Bryant Chucking Grinder Co.: *See*—
Arms, Merton H., and Durland. 2,793,479.
- Cargill, Jeffrey M. 2,806,294.
- Snell, Francis A. 2,812,185.
- Taft, Hugh M. 2,797,496.
- Bryant, David, to J. Cummins. Device for preventing runaway vehicles. 2,807,333, 9-24-57, Cl. 188—4.
- Bryant Electric Co., The: *See*—
Opalenik, John J., and Bullis. 2,782,388.
- Smith, Clarence M. 2,785,257.
- Taylor, Owen L. 2,802,077.
- Taylor, Owen L. 2,809,246.
- Bryant, Frederick W. Pyrophoric lighter. 2,814,190, 11-26-57, Cl. 67—7.1.
- Bryant, Harry, G. F. Erickson, and S. G. Kaufmann, to the United States of America as represented by the United States Atomic Energy Commission. Neutron ion chamber. 2,795,704, 6-11-57, Cl. 250—83.1.
- Bryant, James G. Suction conveying means for a hammer mill. 2,800,286, 7-23-57, Cl. 241—57.
- Bryant, John H., to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,794,145, 5-28-57, Cl. 315—3.5.
- Bryant, John H., to International Telephone and Telegraph Corp. Radio frequency matching devices. 2,803,777, 8-20-57, Cl. 315—3.5.
- Bryant, John H., and T. J. Marchese, to International Telephone and Telegraph Corp. Traveling wave electron discharge device. 2,788,465, 4-9-57, Cl. 315—3.5.
- Bryant, John H., H. W. Cole, and A. W. McEwan, to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,798,981, 7-9-57, Cl. 315—3.5.
- Bryant, John H., A. G. Peifer, and R. W. Wilmarth, to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,800,603, 7-23-57, Cl. 315—3.5.
- Bryant, John M.: *See*—
Cunningham, George L., Bryant, and Gause. 2,784,053.
- Bryant, Louis D., $\frac{1}{2}$ each to R. B. Ellsworth and W. H. Borland. Method for improving arable soil. 2,780,031, 2-5-57, Cl. 47—58.
- Bryant, Lowell C. Portable therapeutic sling. 2,788,062, 4-9-57, Cl. 155—198.
- Bryant, William G. Folding card table. 2,785,032, 3-12-57, Cl. 311—85.
- Bryant, William R. Process and apparatus for chain moistening cotton fibers in a gin plant. 2,815,536, 12-10-57, Cl. 19—66.

- Bryant, William R. Process and apparatus for controlling the moisture content of seed cotton. 2,815,537, 12-10-57, Cl. 19-66.
- Bryce, Allan E. Safety pin fasteners for buttons. 2,792,608, 5-21-57, Cl. 24-103.
- Bryce, James. Musical gloves. 2,780,954, 2-12-57, Cl. 84-375.
- Bryce, William H., to Dixie Wax Paper Co. Method of sealing containers. 2,778,175, 1-22-57, Cl. 53-39.
- Brycel Ltd.: *See*—
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- Bryner, Fred: *See*—
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- Brynes, Kermit, to General Electric Co. Magnetic field detector. 2,815,499, 12-3-57, Cl. 340-197.
- Bryson, Boyd, to Bryson Mfg. Co., Inc. Bobbin control for sewing machines. 2,796,035, 6-18-57, Cl. 112-219.
- Bryson Mfg. Co., Inc.: *See*—
Bryson, Boyd. 2,796,035.
- Brzozowski, Eugene S. Forming bit. 2,811,184, 10-29-57, Cl. 144-219.
- Bub, Robert A., to Mine Safety Appliances Co. Filter. 2,800,195, 7-23-57, Cl. 183-71.
- Bub, Robert A., and L. Silverman, to Mine Safety Appliances Co. Folded filter element. 2,784,802, 3-12-57, Cl. 183-71.
- Bube, Richard H., and C. J. Busanovich, to Radio Corp. of America. Electrical devices, including cadmium sulphide and cadmium selenide containing trivalent cations. 2,810,052, 10-15-57, Cl. 201-63.
- Buc, Saul R., to General Aniline & Film Corp. Cyanoethylated anilides and phenylene bis acid amides. 2,809,984, 10-15-57, Cl. 260-465.
- Buc, Saul R., to General Aniline & Film Corp. Bis-cyanoethylated anilines. 2,809,985, 10-15-57, Cl. 260-465.
- Buc, Saul R., and D. L. Randall, C. M. Smith, and R. D. Jackson, to General Aniline & Film Corp. Preparation of N-ethylcarbazole from anthracene pitch. 2,783,244, 2-26-57, Cl. 260-318.
- Bucci, James A.: *See*—
Brennen, Ronald F., and Bucci. 2,785,282.
Brennen, Ronald F., and Bucci. 2,804,536.
- Bucciarelli, Nicholas D. Mechanical line release for spinning reel. 2,810,982, 10-29-57, Cl. 43-25.
- Buccicone, Dario. Apparatus for conveying and stopping rapidly moving metal sheets. 2,779,594, 1-29-57, Cl. 271-68.
- Buccicone, Vello S. Apparatus for detecting magnetic objects or the like. 2,810,880, 10-22-57, Cl. 324-34.
- Bucek, Adolf, to Svit, Narodni Podnik. Machine for continuously rolling bottom leather. 2,803,954, 8-27-57, Cl. 69-43.
- Bucek, Hans: *See*—
Berghaus, Bernhard, and Bucek. 2,787,730.
- Buchanan, Avery D. Liquid level control valve. 2,811,169, 10-29-57, Cl. 137-414.
- Buchanan, Ben F.: *See*—
Williams, Beverly E., and Buchanan. 2,805,163.
- Buchanan, Beverly J. Diaphragm pump. 2,814,429, 11-26-57, Cl. 230-55.
- Buchanan, David M., to Union Carbide Corp. Electrolytic cell tank construction. 2,816,070, 12-10-57, Cl. 204-279.
- Buchanan, Donnell M., and P. L. Menaul, to Stanolind Oil and Gas Co. Composition for use in wells. 2,779,734, 1-29-57, Cl. 252-855.
- Buchanan Electrical Products Corp.: *See*—
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Buchanan, Stephen N., and Kusiv. 2,787,925.
- Buchanan, Eric J. Power operated cutting tool. 2,810,956, 10-29-57, Cl. 30-247.
- Buchanan, Hugh, to The Bingham-Herbrand Corp. Safety release handle for parking brakes. 2,811,866, 11-5-57, Cl. 74-503.
- Buchanan, J. D. Solenoid operated shut-off valve. 2,797,061, 6-25-57, Cl. 251-130.
- Buchanan, J. D. Yarn twisting device. 2,810,254, 10-22-57, Cl. 57-77.33.
- Buchanan, James R. Cable strap forming apparatus. 2,815,792, 12-10-57, Cl. 153-32.
- Buchanan, John C.: *See*—
Hughel, Alvin M., and Buchanan. 2,804,709.
- Buchanan, Leslie B. M., to Westinghouse Electric Corp. Evaporator defrosting arrangement. 2,781,646, 2-19-57, Cl. 62-126.
- Buchanan, Moses R. Lawn edger. 2,794,248, 6-4-57, Cl. 30-206.
- Buchanan, Ross W., and J. Gold, to General Motors Corp. Fuel pump diaphragm and process for making same. 2,779,687, 1-29-57, Cl. 117-47.
- Buchanan, Stephen N., to Buchanan Electrical Products Corp. Electric connector. 2,788,508, 4-9-57, Cl. 339-276.
- Buchanan, Stephen N., and D. B. Kusiv, to Buchanan Electrical Products Corp. Wire crimping tool with cam-slot actuating means. 2,787,925, 4-9-57, Cl. 81-15.
- Büchelmaier, Hans: *See*—
Winter, August, and Büchelmaier. 2,812,840.
- Bucherer, Archibald W. Fluid power transmission. 2,816,637, 12-17-57, Cl. 192-58.
- Buchholz, Aloysius H. Earth clod forming devices. 2,776,532, 1-8-57, Cl. 55-6.
- Buchholz, Arnold R.: *See*—
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- Buchholz, Gordon O.: *See*—
Bachman, Fred E., Buchholz, and Coskun. 2,791,294.
- Büchi, Alfred. Rotors for compressing machines such as centrifugal blowers and pumps. 2,796,836, 6-25-57, Cl. 103-115.
- Büchi, Alfred. Diffusers. 2,810,545, 10-22-57, Cl. 253-40.
- Büchi, Alfred, Jr.: *See*—
Büchi, Alfred, Sr., and A. Büchi, Jr. 2,795,371.
Büchi, Alfred, Sr., and A. Büchi, Jr. 2,805,819.
- Büchi, Alfred, Sr., and A. Büchi, Jr. Overhung supported turbo-blower rotors. 2,795,371, 6-11-57, Cl. 230-116.
- Büchi, Alfred, Sr., and A. Büchi, Jr. Turbine driven blowers or pumps. 2,805,819, 9-10-57, Cl. 230-116.
- Büchi, George H.: *See*—
Ayer, Donald E., and Büchi. 2,805,242.
- Buchman, Isidore, to American Feather Products. Pillow. 2,805,428, 9-10-57, Cl. 5-341.
- Buchmann, Albin, to Scintilla Ltd. Switching mechanism. 2,808,479, 10-1-57, Cl. 200-35.
- Buchmann, Fred J., K. Mertzweiler, and E. V. Fasce, to Esso Research and Engineering Co. Oxo process—diolefin removal during carbonylation. 2,796,436, 6-18-57, Cl. 260-604.
- Büchner, Karl: *See*—
Roelen, Otto, Büchner, Feichtinger, Meis, and Tummes. 2,817,673.
Tramm, Heinrich, Kolling, Schnur, Buchner, Heger, and Stiebling. 2,802,843.
- Büchner, Karl, to Ruhrchemie Aktiengesellschaft. Production of water-clear phthalic acid esters from alcohols. 2,780,643, 2-5-57, Cl. 260-475.
- Büchner, Karl, and P. Kühnel, to Ruhrchemie Aktiengesellschaft. Treatment of oxo aldehydes with magnesia. 2,810,680, 10-22-57, Cl. 202-57.
- Buchner, Robert B., to North American Philips Co., Inc. Circuit for use in automatic signalling systems. 2,787,661, 4-2-57, Cl. 179-18.
- Buchner, Robert B., to North American Philips Co., Inc. Circuit-arrangement for use in automatic signalling systems. 2,812,383, 11-5-57, Cl. 179-16.
- Buchner, Robert B., and N. Scheffer, to Hartford National Bank and Trust Co., as trustee. Control device for use in automatic signalling system. 2,778,879, 1-22-57, Cl. 179-18.
- Buchtmeier, Franz: *See*—
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- Buck, Alfred, and C. Cramer, to Inventa A. G. für Forschung und Patentverwertung. Process for the separation of carbon dioxide and ammonia. 2,808,125, 10-1-57, Cl. 183-115.
- Buck, Arthur W., to Buck X-Ograph Co. Film supporting frame. 2,811,910, 11-5-57, Cl. 95-100.
- Buck, Calvin M., Jr. Paste dispenser and container. 2,788,158, 4-9-57, Cl. 222-103.
- Buck, Clarence M., to Tomkins-Johnson Co. Riveting machine with multiple rivet transfer. 2,814,393, 11-26-57, Cl. 214-1.
- Buck Engineering Co., Inc.: *See*—
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- Buck Enterprises, Inc.: *See*—
Davis, Thomas H. 2,788,918.
- Buck, Frank A. M., and G. T. Coker, Jr., to Shell Development Co. Lubricating compositions. 2,798,045, 7-2-57, Cl. 202-32.7.
- Buck, Henry M., to Esso Research and Engineering Co. Flow indicating device. 2,794,182, 5-28-57, Cl. 340-239.
- Buck, James B., Jr. Sliced bacon containers. 2,797,012, 6-25-57, Cl. 220-4.
- Buck, James R. and R. E., to Buck Tool Co. Chuck construction for pressure equalization. 2,799,512, 7-16-57, Cl. 279-123.
- Buck, Johannes S.: *See*—
Albro, Lewis P., and Buck. 2,794,764.
- Buck, Leo V., to Borg-Warner Corp. Centrifugal lint separator for laundry machines. 2,802,282, 8-13-57, Cl. 34-79.
- Buck, Leo V., to Borg-Warner Corp. Static dry mechanism for a clothes dryer. 2,813,354, 11-19-57, Cl. 34-91.
- Buck, Parker J. Hood operated movable bumper for tractors. 2,789,855, 4-23-57, Cl. 293-73.
- Buck, Robert C. Combination gasoline inlet cover and tail-light assembly for automobiles. 2,783,057, 2-26-57, Cl. 280-152.
- Buck, Robert J., and W. H. Ball, to General Motors Corp. Adjustable mounting for distributor breaker points. 2,797,269, 6-25-57, Cl. 200-31.
- Buck, Russell E.: *See*—
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- Buck Tool Co.: *See*—
Buck, James R. and R. E. 2,799,512.
- Buck, Willard E., to Kindar Corp. Electric motor with fixed commutator. 2,812,454, 11-5-57, Cl. 310-46.
- Buck, William B.: *See*—
Bender, Ralph E., Branum, Buck, and Oliphant. 2,806,535.
- Buck X-Ograph Co.: *See*—
Buck, Arthur W. 2,811,910.
- Buckbee-Mears Co.: *See*—
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Mears, Norman B. 2,791,514.

- Buckels, Christopher C. Outlet box. 2,808,172, 10-1-57, Cl. 220-3.4.
- Bücken, Curt, and M. Kuhm, to Karl Schmidt G. m. b. H. Light metal piston for internal combustion engines. 2,801,889, 8-6-57, Cl. 309-9.
- Buckendorf, Harold C. Bagging machine. 2,806,488, 9-17-57, Cl. 141-131.
- Bucker, Milton, to Zenith Plastics Co. Container. 2,816,682, 12-17-57, Cl. 220-44.
- Buckfield, Philip S. T., to The British Thomson-Houston Co. Ltd. Parallel amplifying system. 2,778,883, 1-22-57, Cl. 179-171.
- Buckeridge, Roger M., to Goodman Mfg. Co. Cable reels for a mine vehicle or the like. Re. 24,376, 10-15-57, Cl. 307-9.
- Buckeridge, Roger M., to Goodman Mfg. Co. Cable reels for a mine vehicle or the like. 2,781,456, 2-12-57, Cl. 307-9.
- Buckeye Cellulose Corp., The: See—
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- Buckeye Iron & Brass Works: See—
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- Buckeye Ribbon & Carbon Co., The: See—
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- Buckeye Steel Castings Co., The: See—
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Furniss, Loree E. 2,779,483.
Mills, William A. 2,801,506.
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Settles, James C. 2,803,453.
- Buckingham, John: See—
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- Buckingham, William D., to The Western Union Telegraph Co. Electroplating with tungsten. 2,794,775, 6-4-57, Cl. 204-37.
- Buckler, Sheldon A.: See—
Walling, Cheves and Buckler. 2,810,766.
- Buckley, Garfield T., Jr., to Old Town Corp. Carbon holding apparatus. 2,806,576, 9-17-57, Cl. 197-126.
- Buckley, Timothy J., to The Nylok Corp. Threaded locking device and method of making same. 2,796,906, 6-25-57, Cl. 151-7.
- Buckman, Kenneth E., to General Motors Corp. Liquid filtration. 2,792,124, 5-14-57, Cl. 210-457.
- Buckman Laboratories, Inc.: See—
Buckman, Stanley J. 2,818,344.
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- Buckman, Stanley J., to Buckman Laboratories, Inc. Paint compositions. 2,818,344, 12-31-57, Cl. 106-15.
- Buckmann, John P., to Union Oil Co. of California. Modified amide-aldehyde resins from amides of oxidized paraffin acids. 2,776,949, 1-8-57, Cl. 260-72.
- Buckmann, John P., to Union Oil Co. of California. Esters of mixed dicarboxylic acids. 2,801,219, 7-30-57, Cl. 252-28.
- Buckner Mfg. Co., Inc.: See—
Royer, John A. 2,797,108.
Royer, John A. 2,816,798.
- Bucksbaum, Arnold M., to Collins Radio Co. Remote control apparatus. 2,791,768, 5-7-57, Cl. 343-100.
- Buckwalter, Frank H., M. A. Kaplan, and A. P. Granatek. Therapeutic composition containing a tetracycline and a phosphate other than orthophosphate. 2,795,528, 6-11-57, Cl. 167-55.
- Bucyrus-Erie Co.: See—
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- Budd Co., The: See—
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- Budd, Joseph H., to Tectron Inc. Chain saw for cutting brush and small trees. 2,797,717, 7-2-57, Cl. 143-32.
- Budd, Robert D., to Goodman Mfg. Co. Tunneling machine having rotating cutting bars. 2,802,653, 8-13-57, Cl. 262-7.
- Budd, Wilbert H.: See—
Arisman, Mervin B., Budd, and Daily. 2,789,191.
- Budd, Wilbert H., to Chicago Telephone Supply Corp. Combination switch and variable resistor adapted for use with printed wiring. 2,812,400, 11-5-57, Cl. 200-67.
- Budd, Wilbert H., to Chicago Telephone Supply Corp. Combination switch and variable resistor adapted for use with printed wiring. 2,812,407, 11-5-57, Cl. 201-55.
- Budde, Charles H. Storm warning indicator. 2,812,512, 11-5-57, Cl. 340-241.
- Budde, James C., to American Radiator & Standard Sanitary Corp. Mixing valve construction. 2,818,215, 12-31-57, Cl. 236-12.
- Buddecke, Heinrich. Yarn pack and method of and means for its preparation. 2,804,973, 9-3-57, Cl. 206-64.
- Buddemeyer, Bruce D.: See—
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- Buddenhagen, Frederick E., and E. A. Roberts, to The Armstrong Rubber Co. Noiseless tire tread construction. 2,808,867, 10-8-57, Cl. 152-209.
- Budenhorn, Horace T., to Bell Telephone Laboratories, Inc. Hybrid ring coupling arrangements. 2,784,381, 3-5-57, Cl. 333-11.
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- Budewitz, Eugene P., to The Sherwin-Williams Co. Coating composition. 2,780,555, 2-5-57, Cl. 106-208.
- Budge, George H., to United Products Co. Vent cap assembly. 2,805,617, 9-10-57, Cl. 98-84.
- Budington, William I., and S. I. Rambo, to Westinghouse Electric Corp. Automatic balancing system. 2,816,463, 12-17-57, Cl. 77-5.
- Budinquest, Jane C. Retaining means for sheets, covers or the like. 2,789,292, 4-23-57, Cl. 5-334.
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- Budnik, Aloysis. Coupling with cam locking means. 2,818,280, 12-31-57, Cl. 285-394.
- Budnik, Frederick, to Mica Insulator Co. Sized mica paper and process of preparing the same. 2,791,262, 5-7-57, Cl. 154-2.6.
- Budoff, Julius. Automobile door lock button safety device. 2,793,064, 5-21-57, Cl. 292-288.
- Budzyna, Joseph M.: See—
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- Bueche, Arthur M.: See—
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- Buechele, Walter E., and J. W. Adacusky, to Brock & Co., Inc. Deep fat frying. 2,807,203, 9-24-57, Cl. 99-404.
- Buechler, Lester W.: See—
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- Buedingen, William J. Fastening device. 2,807,110, 9-24-57, Cl. 40-156.
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- Buehler, Allan M. Sectional metal doors. 2,804,953, 9-3-57, Cl. 189-46.
- Buehler, Arthur: See—
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- Buell, Ernest H. Reverse action rotors for use in jet propulsion system. 2,812,898, 11-12-57, Cl. 230-116.
- Buell, Halsey W.: See—
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- Buell, Lucille P., and R. J. Prentiss. Enclosure for converting a seat into a bed. 2,791,269, 5-7-57, Cl. 155-189.
- Buell, Roy D. Signal horn. 2,811,129, 10-29-57, Cl. 116-142.
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- Buescher, Wilbert C.: *See*—
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- Burch Corp., Teh: *See*—
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- Burch, Derek E.: *See*—
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- Burch, Hadley K.: *See*—
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- Burch, Robert J.: *See*—
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- Burdeshaw, Thomas A.: *See*—
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- Burhans, Paul B. Hydraulic brake with floating lining. 2,797,775, 7-2-57, Cl. 188-78.
- Burhans, Ralph W.: *See*—
Veatch, Franklin, and Burhans. 2,797,201.
- Burian, Kurt: *See*—
Kitto, William H., and Burian. 2,782,452.
McMaster, Archie J., Kitto, and Burian. 2,785,424.
- Burlington, Harvey J. Adjustable supporting racks. 2,781,920, 2-19-57, Cl. 214-1.
- Burion, Etienne P. Machine for producing compressed gases operating more particularly like free piston machines. 2,807,408, 9-24-57, Cl. 230-56.
- Burk, Marvin C., to Phillips Petroleum Co. Electrical measuring apparatus. 2,778,945, 1-22-57, Cl. 250-41.9.

- Burk, Marvin C., to Phillips Petroleum Co. Ion source. 2,792,500, 5-14-57, Cl. 250—41.9.
- Burk, Robert E., and G. E. Inskeep, to E. I. du Pont de Nemours and Co. Polymers of divinyl benzene monoxide. 2,807,599, 9-24-57, Cl. 260—41.
- Burk, Vernon L. Collapsible tube holding and dispensing means. 2,802,600, 8-15-57, Cl. 222—100.
- Burke, Arthur J.: *See*—
Klein, Enrico, and Burke. 2,793,000.
- Burke, Arthur J., to Richardson Scale Co. Bag handling apparatus. 2,797,792, 7-2-57, Cl. 198—32.
- Burke, Donald J., to Erico Products, Inc. Exothermic reaction mixture for producing a molten copper alloy. 2,801,914, 8-6-57, Cl. 75—27.
- Burke, Francis T., and R. E. Eckman. Combined container and heating means therefor. 2,801,627, 8-6-57, Cl. 126—262.
- Burke, George F. C., 1/2 to M. G. Cunningham. Toy golf club. 2,785,899, 3-19-57, Cl. 273—87.2.
- Burke, Jerry A., Jr. Stock feeding means for rotary printing machine. 2,794,390, 6-4-57, Cl. 101—232.
- Burke, Joseph E.: *See*—
Holden, Abe N., Burke, Reynolds, and Lukesh. 2,798,957.
- Burke, Kenneth A.: *See*—
Fahrenbach, Marvin J., and Burke. 2,778,769.
- Burke, Lawrence: *See*—
Agresta, Angelo V., and Burke. 2,800,716.
- Burke Mfg. Co.: *See*—
Steinmetz, Floyd. 2,807,299.
- Burke, Oliver W., Jr. Dieneic resimers of emulsion dieneic polymers and methods of producing same. 2,797,207, 6-25-57, Cl. 260—82.3.
- Burke, Oliver W., Jr. High molecular weight dieneic polymers and method of producing same. 2,797,208, 6-25-57, Cl. 260—83.7.
- Burke, Oliver W., Jr. Polybutadiene thermal reaction products from organo free radical mass catalysis and methods of producing the same. 2,797,210, 6-25-57, Cl. 260—94.7.
- Burke, Rush P. Pattern layout device. 2,814,880, 12-3-57, Cl. 33—104.
- Burke, Walter F., to McDonnell Aircraft Corp. Form block shaping and bevel angle cutting machine. 2,811,085, 10-29-57, Cl. 90—13.
- Burke, William D.: *See*—
Drumm, Manuel F., and Burke. 2,806,832.
- Burke, William O., to National Lock Co. Hinge construction for cabinets and the like. 2,777,157, 1-15-57, Cl. 16—190.
- Burke, William O., to National Lock Co. Foot pedal operated latch mechanism. 2,777,315, 1-15-57, Cl. 70—144.
- Burke, William O., and R. S. Larson, to National Lock Co. Refrigerator latch. 2,777,721, 1-15-57, Cl. 292—332.
- Burke, William O., to National Lock Co. Latch construction. 2,777,722, 1-15-57, Cl. 292—332.
- Bürkert, Christian. Regulator or control device responsive to humidity or moisture of air. 2,795,665, 6-11-57, Cl. 200—61.06.
- Burkett, Albert L., to Combined Minerals, Inc. Soil conditioning and fertilizing compounds and methods of manufacture. 2,779,670, 1-29-57, Cl. 71—64.
- Burkhalter, Robert R., and P. J. Mazzlotti, to Dana Corp. Bearing retainer. 2,794,693, 6-4-57, Cl. 308—212.
- Burkhalter, Walter R.: *See*—
Sammis, Edward A., and Burkhalter. 2,780,777.
- Burkhardt, Gustave. Safety couplings. 2,781,882, 2-19-57, Cl. 192—56.
- Burkhardt, Harold H., to Millers Falls Co. Electrical connector. 2,817,827, 12-24-57, Cl. 339—252.
- Burkhardt, Hans, to Vereinigte Deutsche Metallwerke Aktien-gesellschaft. Method and a furnace for the treatment of metal. 2,787,592, 4-2-57, Cl. 204—140.
- Burkhardt, William H., to Monroe Calculating Machine Co. Magnetic tape recording systems. 2,813,259, 11-12-57, Cl. 340—174.
- Burkhardt, William H., to Monroe Calculating Machine Co. Pneumatically controlled tape transporter. 2,816,757, 12-17-57, Cl. 271—2.1.
- Burkhead, Bessie M., and J. R. Liquid cooling means. 2,788,642, 4-16-57, Cl. 62—89.
- Burkhead, Joseph R.: *See*—
Burkhead, Bessie M., and J. R. 2,788,642.
- Burkholder, Alden H., and L. Skolnik, to Industrial Rayon Corp. Method for effecting clean heat-transfer surfaces. 2,787,563, 4-2-57, Cl. 134—28.
- Burkholder, Ward J.: *See*—
Hill, Archie, and Burkholder. 2,792,283.
- Burkitt, Henry L.: *See*—
Roberge, Edmond E. 2,793,639.
- Burklund, Glenn A. Safeguarded electric firing initiating devices. 2,818,020, 12-31-57, Cl. 102—28.
- Burla, Ronald A., to Purolator Products, Inc. Apparatus for filtering contaminant-containing coating liquids. 2,795,332, 6-11-57, Cl. 210—136.
- Burleigh, Arthur C. Holder for abrasive disk. 2,810,239, 10-22-57, Cl. 51—168.
- Burleigh, Van T.: *See*—
Crary, Jay D., and Burleigh. 2,783,690.
- Burleyson, William H. Dispenser preselector mechanism. 2,804,991, 9-3-57, Cl. 222—20.
- Burling, Herbert S. and H. S., Jr. Humidity or temperature differential measuring apparatus. 2,809,523, 10-15-57, Cl. 73—338.
- Burling, Herbert S., Jr.: *See*—
Burling, Herbert S. and H. S., Jr. 2,809,523.
- Burlingham, Jesse J. Underwater fishing light. 2,779,866, 1-29-57, Cl. 240—26.
- Burlington Engineering Co., Inc.: *See*—
Newcomb, Walter J., and Williamson. 2,792,702.
- Burlington Industries, Inc.: *See*—
Deaton, Forrest E., and Engenheimer. 2,790,314.
- Furr, Grover C. 2,795,944.
- Burlone, Luigi: *See*—
Marforio, Nerino, Biffi, and Burlone. 2,799,236.
- Burman, Joseph O., to Progressive Machinery Corp. Pad covering machine and attachment. 2,789,482, 4-23-57, Cl. 93—54.2.
- Burman, Paul G., to American Bosch Arma Corp. Fuel injection pump. 2,794,397, 6-4-57, Cl. 103—2.
- Burmeister, Earl R.: *See*—
Schott, Howard H., and Burmeister. 2,817,912.
- Burnbaum, Jack, to Bradford Novelty Co., Inc. Ornament for a tree or other decorative purpose. 2,794,284, 6-4-57, Cl. 41—10.
- Burnbaum, Jack, to Bradford Novelty Co., Inc. Decorative ornament. 2,803,904, 8-27-57, Cl. 41—10.
- Burdy Corp.: *See*—
Bullinger, Henry W. 2,809,256.
- Cornell, Edward S., Jr. 2,813,257.
- Dupre, Henry P., and Greco. 2,783,446.
- Pellier, Christian V. 2,815,124.
- Burdy Engineering Co., Inc.: *See*—
Chernack, Gilbert. 2,787,313.
- Burnell, John B.: *See*—
Dolza, John, and Burnell. 2,783,510.
- Burner, Mary K., and F. P. Ritchie. Adjustable string tie diaper. 2,801,632, 8-6-57, Cl. 128—284.
- Burnet, William B.: *See*—
Richards, William B., and Burnet. 2,795,464.
- Burnett, Nathan, to Zepher Mfg. Co. Resistance soldering device and method. 2,790,059, 4-23-57, Cl. 219—26.
- Burnett, Richard T., to Bendix Aviation Corp. Automatic brake adjuster. 2,789,666, 4-23-57, Cl. 188—79.5.
- Burney, Donald E.: *See*—
Hoff, Melvern C., and Burney. 2,795,634.
- Twaddle, Warren W., Burney, and Liao. 2,813,137.
- Burney, James S.: *See*—
Colling, Charles E., and Burney. 2,794,551.
- Burnham, Claude W., to E. D. Bullard Co. Lineman's safety hook. 2,791,817, 5-14-57, Cl. 24—241.
- Burnosky, George J., to The Thomas & Betts Co. Method of and apparatus for forming electric terminals. 2,783,442, 2-26-57, Cl. 339—96.
- Burns Automatic Corp.: *See*—
Cracchiolo, Ray M. 2,810,585.
- Burns, David M.: *See*—
Duncan, Richard A., and Burns. 2,808,865.
- Burns, Francis A., and R. R. St. Jean. Liquid dispenser. 2,805,004, 9-3-57, Cl. 222—442.
- Burns, Fredrick B. Differential speed detection. 2,788,518, 4-9-57, Cl. 340—268.
- Burns, Gordon K. Portable diving float. 2,814,057, 11-26-57, Cl. 9—21.
- Burns, James R., to Atwood Vacuum Machine Co. Automobile door hinge. 2,791,794, 5-14-57, Cl. 16—146.
- Burns, James R., to Atwood Vacuum Machine Co. Automobile door hinge. 2,807,828, 10-1-57, Cl. 16—146.
- Burns, Jay, III. Portable fumigating apparatus. 2,784,466, 3-12-57, Cl. 21—123.
- Burns, Laurence: *See*—
Butler, Keith H., and Burns. 2,802,791.
- Butler, Keith H., and Burns. 2,802,792.
- Burns, Leonard S., and G. Bannister, to Barber-Green Co. Hydraulically controlled digger. 2,783,556, 3-5-57, Cl. 37—90.
- Burns, Leslie L., Jr., to Radio Corp. of America. Electro-mechanical filter. 2,814,785, 11-26-57, Cl. 333—72.
- Burns, Richard C.: *See*—
Balmer, Donald E., and Burns. 2,786,101.
- Burns, Robert E.: *See*—
Jellinek, Charles. 2,783,366.
- Burns, Robert E., to Dresser Industries, Inc. Thimble type pipe coupling with pipe wedging means. 2,787,479, 4-2-57, Cl. 285—232.
- Burns, Robert J. Container holder. 2,807,399, 9-24-57, Cl. 224—45.
- Burns & Russell Co., The: *See*—
Russell, Alexander H. 2,814,836.
- Burns, William C. Removable shoe pad construction. 2,790,254, 4-30-57, Cl. 36—71.
- Burns, William E. Bomb rack hook release linkage. 2,789,463, 4-23-57, Cl. 89—1.5.
- Burnside, Fred S., H. R. Plath, and C. B. Kaufmann, said Burnside and said Plath assignors to said Kaufmann. Bird and rodent barrier. 2,777,171, 1-15-57, Cl. 20—1.
- Burnside, Harvey E. E.: *See*—
Etherington, Lewis D., Burnside, and Brown. 2,782,866.
- Burnside, Walter R., to L. B. Lorenz. Apparatus for pumping solids. 2,785,930, 3-19-57, Cl. 302—37.
- Burr, Harvey, to British Insulated Callender's Cables Ltd. Electric cable. 2,805,179, 9-3-57, Cl. 154—2.26.
- Burr, Harvey, to British Insulated Callender's Cables Ltd. Electric cable. 2,805,180, 9-3-57, Cl. 154—2.26.

- Burr, Harvey, to British Insulated Callender's Cables Ltd. Helical lapping apparatus. 2,805,539, 9-10-57, Cl. 57-18.
- Burr, Harvey, to International Standard Electric Corp. Electric cables. 2,810,011, 10-15-57, Cl. 174-117.
- Burr, John E., Jr.: *See*—
Alexander, Herbert C., and Burr. 2,789,272.
- Burrell, Marion D., to Crown Zellerbach Corp. Method of making valve bags. 2,791,160, 5-7-57, Cl. 93-35.
- Burrell, William E. Flange lubricator and metering valve therefor. 2,797,770, 7-2-57, Cl. 184-3.
- Burri, Heinrich, and F. A. Schori, to Machine Tool Works Oerlikon, Administration Co. Fuze. 2,782,717, 2-26-57, Cl. 102-71.
- Burris, Frank H., to Whirlpool-Seeger Corp. Centrifugal extracting and washing machine. 2,775,883, 1-1-57, Cl. 68-23.
- Burris, Robert A. Spread and tilt preventing rail combination. 2,806,656, 9-17-57, Cl. 238-220.
- Burroughs Corp.: *See*—
Alich, John C. 2,807,003.
Ayers, Earl D. 2,817,786.
Beck, Harold P. 2,796,258.
Beck, Harold P. 2,817,519.
Bethke, John R. 2,794,147.
Cannon, Benjamin B. 2,799,399.
Chow, Shou H. 2,794,164.
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Dusenbury, Theodore P., Ellsworth, and Warren. 2,816,755.
Dusenbury, Theodore P., and Warren. 2,816,756.
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Engelman, Joseph H., Haddad, and Landrey. 2,802,130.
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Fitzpatrick, Arthur G., and Kuchinsky. 2,802,103.
Hoepfner, Martin F. 2,802,865.
Hoffman, Paul R., and Hoisington. 2,816,759.
Kenosian, Harry. 2,796,596.
Kreuder, Norman L. 2,803,759.
Kuchinsky, Saul. 2,795,732.
Kuchinsky, Saul. 2,804,568.
Kuchinsky, Saul, and Ayers. 2,797,357.
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Lee, Donald H. 2,808,535.
Lee, Donald H. 2,810,785.
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Lovell, Ernest. 2,780,754.
Orr, Lyman W. 2,779,652.
Paivinen, John O. 2,786,137.
Runde, Byron A. 2,807,412.
Runde, Byron A., Borutskie, and Mathamel. 2,812,902.
Seif, Eric. 2,793,318.
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Smith, John G. 2,782,287.
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Wockenfuss, William. 2,790,697.
Wockenfuss, William. 2,800,386.
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- Burroughs, Louis R., to Electro-Voice, Inc. Microphone clamp. 2,776,462, 1-8-57, Cl. 24-263.
- Burroughs, Robert I. Plant setting machine. 2,804,033, 8-27-57, Cl. 111-3.
- Burroughs Wellcome & Co. (U. S. A.) Inc.: *See*—
Falco, Elvira A., Eliott, and Hitchings. 2,807,616.
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Hitchings, George H., and Eliott. 2,815,346.
Phillips, Arthur P., and Castillo. 2,780,577.
- Burrows, John B., and K. M. Ganger, to The Lau Blower Co. Blower. 2,776,089, 1-1-57, Cl. 230-259.
- Burrows, Arthur T. C., to Geo. W. King, Ltd. Conveyor systems. 2,796,968, 6-25-57, Cl. 198-33.
- Burrows, Edith S., ¼ to L. S. Saulsbury. Veil construction. 2,778,025, 1-22-57, Cl. 2-207.
- Burrows, Ira I. Combination garment hanger, stretcher and creaser. 2,805,008, 9-3-57, Cl. 223-63.
- Burrows, Lewis M., to Manning, Maxwell & Moore, Inc. Air whistle. 2,784,693, 3-12-57, Cl. 116-137.
- Burrows, Raymond G., to Vickers-Armstrongs Ltd. Attachments incorporating explosive bolts or the like. 2,815,698, 12-10-57, Cl. 89-15.
- Burrus, Robert E., to Clark Equipment Co. Materials handling machine. 2,789,711, 4-23-57, Cl. 214-140.
- Burst, Francis J., to Hill-Rom Co., Inc. Heavy duty chair. 2,806,515, 9-17-57, Cl. 155-191.
- Burstin, Elias, to the United States of America as represented by the Secretary of the Navy. Germanium far infra-red detector. 2,816,232, 12-10-57, Cl. 250-83.3.
- Burststein, Eugène M., ½ to Societe des Acieries de Longwy (Societe Anonyme). Process for preparing coking blends. 2,782,147, 2-19-57, Cl. 202-25.
- Burston, Isaac. Body manipulator. 2,785,417, 3-19-57, Cl. 5-64.
- Burt, Clinton H. Egg gathering basket. 2,790,556, 4-30-57, Cl. 211-50.
- Burt, Harold R., to Sawyer's Inc. Lens capsule and lens mounting assembly. 2,776,597, 1-8-57, Cl. 88-57.
- Burt, Joseph F.: *See*—
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- Burt Machine Co., Inc., The: *See*—
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- Burt, Robert A.: *See*—
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- Burt, William E.: *See*—
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- Burthaell, Clarence S. Mounting strip for mirrors. 2,793,566, 5-28-57, Cl. 88-96.
- Burthaell, Clarence S. Luggage handle. 2,800,984, 7-30-57, Cl. 190-57.
- Burthaell, Clarence S. Luggage handle. 2,802,552, 8-13-57, Cl. 190-58.
- Burtner, James C., and M. B. Conrad, to Baker Oil Tools, Inc. Retrievable well packer. 2,802,532, 8-13-57, Cl. 166-121.
- Burtner, Robert R., to G. D. Searle & Co. Quaternary ammonium salts of N-phenyl-N-picoyl-dialkylaminoalkylamines. 2,784,195, 3-5-57, Cl. 260-296.
- Burtner, Robert R., to G. D. Searle & Co. Dialkylaminoalkyl-phenetidinopyridine. 2,785,172, 3-12-57, Cl. 260-296.
- Burtner, Robert R., to G. D. Searle & Co. Dialkylaminoalkyl-phenetidinopyridine quaternary ammonium salts. 2,785,173, 3-12-57, Cl. 260-296.
- Burtner, Robert R., to G. D. Searle & Co. Halogenated and alkoxyated 1-phenyl-1-pyridyl derivatives of urea and 3-alkylurea. 2,802,008, 8-6-57, Cl. 260-295.
- Burtner, Robert R., to G. D. Searle & Co. 1-heterocycyl-2-diphenoxyethylidenedimines and salts thereof. 2,811,526, 10-29-57, Cl. 260-294.7.
- Burnett, Harry J. Can opener. 2,817,896, 12-31-57, Cl. 30-23.
- Burton-Dixie Corp.: *See*—
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- Burton, Everett T., to Bell Telephone Laboratories, Inc. Multivibrator circuit. 2,802,940, 8-13-57, Cl. 250-27.
- Burton, Frederick Jr.: *See*—
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- Burton, Harry C., and H. L. Cogburn. Magnetic shaker. 2,795,357, 8-11-57, Cl. 222-173.
- Burton, Howard J., to Crescent Paper Box Factory, Inc. Container. 2,816,651, 12-17-57, Cl. 206-41.
- Burton, James R. Temperature indicating system. 2,816,442, 12-17-57, Cl. 73-340.
- Burton, Robert A., to Johnson Hinge Co., Inc. Lock for platform rockers. 2,797,737, 7-2-57, Cl. 155-72.
- Burton-Rodgers Inc.: *See*—
Elsbernd, Carl A. 2,808,221.
- Burton, Russell A., to Hyde Mfg. Co. Sanding attachment for scrapers. 2,790,279, 4-30-57, Cl. 51-187.
- Burton, William D., to Flite-Tronics, Inc. Marker beacon receiver. 2,784,307, 3-5-57, Cl. 250-20.
- Burton, William P.: *See*—
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Lefrancois, Philip A., Riblett, and Burton. 2,777,805.
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- Burton, William P., to The M. W. Kellogg Co. Platinum and/or palladium catalysts. 2,780,603, 2-5-57, Cl. 252-466.
- Burwell, Albert L., to University of Oklahoma Research Institute. Preparation of ammonium sulfate. 2,788,269, 4-9-57, Cl. 71-63.
- Burwell, John T., Jr.: *See*—
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- Burwen, Robert V. Heating and ventilating conduits with shutters. 2,792,771, 5-21-57, Cl. 98-40.
- Bury, Irvin F. Paint brushes and the like. 2,785,427, 3-19-57, Cl. 15-202.
- Burzi, Richard, to The Austin Motor Co. Ltd. Motor road vehicles. 2,777,731, 1-15-57, Cl. 296-66.
- Burzi, Richard, to The Austin Motor Co. Ltd. Collapsible and let-down type vehicle top. 2,794,672, 6-4-57, Cl. 296-107.
- Bus, Willem C., and J. Muetgeert, to Coöperatieve Verkoop-en Productievereniging van Aardappelmeel en Derivaten "Avebe" G. A. Process of fractionating starch. 2,803,568, 8-20-57, Cl. 127-71.
- Busala, Alessandro, and L. A. Meacham, to Bell Telephone Laboratories, Inc. Compensated transistor circuit. 2,813,470, 12-31-57, Cl. 179-81.
- Busanovich, Charles J.: *See*—
Bube, Richard H., and Busanovich. 2,810,052.
- Busbach, Reinhard, to Accumulatoren-Fabrik Aktiengesellschaft. Process for lining a system of pipes. 2,789,934, 4-23-57, Cl. 154-82.
- Busch, Charles R., to Buffalo Brake Beam Co. Railway brake beam. 2,798,576, 7-9-57, Cl. 188-223.1.
- Busch, Charles R., to Buffalo Brake Beam Co. Railway brake beam with a built-in camber gauge. 2,808,133, 10-1-57, Cl. 188-225.6.
- Busch, Charles R., to Buffalo Brake Beam Co. Self-centering railway car brake beam. 2,808,908, 10-8-57, Cl. 188-190.
- Busch, Clarence J., ½ to M. F. Kesting. Method of heat treatment of carbide tips for tools to increase their working life. 2,789,073, 4-16-57, Cl. 148-13.
- Busch, Clarence T., deceased, by M. S. Busch, administratrix, to Mine Safety Appliances Co. Dispenser package. 2,801,000, 7-30-57, Cl. 206-56.

- Busch, Edwin. Continuous projection unit. 2,803,989, 8-27-57, Cl. 88—18.7.
- Busch, Elmer: *See*—
- Butler, Bertell C., and Busch. 2,779,956.
- Busch, Hugo. Apparatus for measuring the internal dimensions of bores and holes. 2,796,670, 6-25-57, Cl. 33—178.
- Busch, Lee S.: *See*—
- Swazy, Earl F., Freyer, and Busch. 2,786,756.
- Swazy, Earl F., Freyer, and Busch. 2,818,333-38.
- Busch, Lee S., and G. H. Bauer, to Mallory-Sharon Titanium Corp. Alpha titanium alloys. 2,777,768, 1-15-57, Cl. 75—175.5.
- Busch, Margaret S.: *See*—
- Busch, Clarence T. 2,801,000.
- Busch, Otto F. Small cylinder conveyor or elevator. 2,815,115, 12-8-57, Cl. 198—156.
- Busch, Richard E., and M. V. Scozzafava, to Clary Corp. Handle connection. 2,796,270, 6-18-57, Cl. 287—53.
- Busch, Richard E., and B. F. Kuhne, to Clary Corp. Imprioting control mechanism in listing machines. 2,800,074, 7-23-57, Cl. 101—96.
- Busch, Werner: *See*—
- Wehn, Julius, and Busch. 2,805,900.
- Buschbach, Jake. Apparatus for testing the accuracy of wheel alignment measuring equipment. 2,795,859, 6-18-57, Cl. 33—203.
- Buschbom, Floyd E. Silo unloader. 2,794,560, 6-4-57, Cl. 214—17.
- Busche, Kenneth A., to Northrop Aircraft, Inc. Movement for imparting incremental motion to a shaft. 2,795,710, 6-11-57, Cl. 310—49.
- Buschers, Herbert H.: *See*—
- Gantschnigg, Gottfried K., and Buschers. 2,792,599.
- Buschle, Erich, to P. Buschle. Tube writing pen for India ink. 2,805,645, 9-10-57, Cl. 120—44.
- Buschle, Paul: *See*—
- Buschle, Erich. 2,805,645.
- Buschmann, Karl: *See*—
- Lehrer, Erwin, and Buschmann. 2,812,374.
- Buschmann, Oskar H., to Copeland Refrigeration Corp. Refrigerant compressor cooling. 2,796,744, 6-25-57, Cl. 62—117.7.
- Buschow, Herman F., and L. J. Van Orden, to Hydrocarbon Research, Inc. Transition pipe coupling. 2,787,481, 4-2-57, Cl. 285—329.
- Busciolano, Vincent. Adjustable mounting for curtains and the like. 2,798,545, 7-9-57, Cl. 160—19.
- Buselli, Aljo J.: *See*—
- Croix, Louis S., and Buselli. 2,799,712.
- Rutledge, Thomas F., and Buselli. 2,777,884.
- Buselli, Aljo J., to Air Reduction Co., Inc. Polyurethane resins from 2,5-dimethyl-2,5-di(2'-hydroxyethoxy)-3-hexyne. 2,809,957, 10-15-57, Cl. 260—77.5.
- Buselli, Aljo J., and F. E. McKenna, to Air Reduction Co., Inc. Copper-containing catalysts. 2,794,784, 6-4-57, Cl. 252—476.
- Bussey, Elsie T.: *See*—
- Bussey, Samuel T. and E. T. 2,794,678.
- Bussey, Samuel T. and E. T. Equalizer bracket unit for boom sprayers. 2,794,678, 6-4-57, Cl. 299—30.
- Bush, Clarence J.: *See*—
- Aasland, Byron T., Bloom, Zink, and Bush. 2,788,858.
- Bush, Dorothy L.: *See*—
- Aasland, Byron T., Bloom, Zink, and Bush. 2,788,858.
- Bush, Everett M. Cable laying and tightening device. 2,792,188, 5-14-57, Cl. 242—157.
- Bush, Harold G., to Motor Wheel Corp. Rotary lawn mower. 2,815,634, 12-10-57, Cl. 56—25.4.
- Bush, John H.: *See*—
- Lovell, Stanley P., and Bush. 2,783,894.
- Bush, Rankin J., to Westinghouse Air Brake Co. Safety interlock apparatus for anti-wheel slide equipment. 2,804,353, 8-27-57, Cl. 303—21.
- Bush, Rankin J., to Westinghouse Air Brake Co. Safety interlock apparatus for anti-wheel-slide equipment. 2,812,983, 11-12-57, Cl. 303—21.
- Bush, Victor H., and L. G. Wicks. Grain bin closure with detachable hopper. 2,799,431, 7-16-57, Cl. 222—108.
- Bush, Warren H.: *See*—
- Lilljengen, Curtis P., and Bush. 2,799,326.
- Bush, Walter R., to Republic Aviation Corp. Variable area nozzle for jet engines. 2,778,190, 1-22-57, Cl. 60—35.5.
- Bush, William W. Interlocking joint for angle irons. 2,776,030, 1-1-57, Cl. 189—36.
- Bushey, Esmonde J., and J. N. Engelsted, to Union Twist Drill Co. Method and apparatus for sharpening drills. 2,796,703, 6-25-57, Cl. 51—96.
- Bushman, Robert N., to General Electric Co. Corona detection probe. 2,817,814, 12-24-57, Cl. 324—72.5.
- Bushmeyer, Richard W.: *See*—
- Greeson, Clarett B., and Bushmeyer. 2,778,290.
- Bushnell, Frederick J. Tuning device for musical instruments. 2,802,387, 8-13-57, Cl. 84—386.
- Buske, Alfred. Bearing making method. 2,796,659, 6-25-57, Cl. 29—149.5.
- Buslik, David. Granular vermiculite deodorants. 2,778,774, 1-22-57, Cl. 167—94.
- Buslik, Walter S.: *See*—
- Weidenhammer, James A., and Buslik. 2,792,217.
- Buslik, Walter S., and J. A. Weidenhammer, to International Business Machines Corp. Tape speed governor. 2,781,984, 2-19-57, Cl. 242—75.
- Buslik, Walter S., and E. M. Valehrach, to International Business Machines Corp. High speed iron powder clutch. 2,813,605, 11-19-57, Cl. 192—21.5.
- Buss, A. G.: *See*—
- Strauss, Manfred, and Truninger. 2,784,852.
- Buss, Benjamin A., to American Machine and Metals, Inc. Folder control with timer selector. 2,804,298, 8-27-57, Cl. 270—81.
- Buss, Donald R. Worm bedding and food composition. 2,790,716, 4-30-57, Cl. 99—3.
- Buss, Donald R. Container for keeping live earthworms and the like. 2,809,463, 10-15-57, Cl. 43—55.
- Buss Machine Works: *See*—
- Veersma, Walter. 2,788,035.
- Bussard, John A. Refrigerator curtains and mountings. 2,782,846, 2-26-57, Cl. 160—84.
- Busse, Ferdinand, and A. Schmitt. Method and machines for producing a butt seam joint by means of resistance welding. 2,812,417, 11-5-57, Cl. 219—82.
- Bussell, Ola B.: *See*—
- Southwell, James M., and Bussell. 2,809,694.
- Bussey, Howard C., to General Electric Co. Automatic bias control for a wave-translating stage. 2,816,178, 12-10-57, Cl. 179—171.
- Bussiere, Joseph, to Bates Mfg. Co. Open mesh fabric woven with synthetic yarn. 2,817,371, 12-24-57, Cl. 139—383.
- Bussing, Harold B., to Union Steel Products Co. Corner fastener for collapsible wire crate. 2,783,911, 3-5-57, Cl. 220—7.
- Bussing, Wilhelmus A. G., to North American Philips Co., Inc. Shrouded electro-magnetic apparatus. 2,805,275, 9-3-57, Cl. 174—52.
- Bustamante, Cesar. Neck exercising device. 2,791,999, 5-14-57, Cl. 128—25.
- Bustamante, Cesar. Movable display apparatus. 2,793,452, 5-28-57, Cl. 40—32.
- Butcher, Harry, Sr. Bale elevator structure. 2,799,387, 7-16-57, Cl. 198—120.5.
- Butcher, Willis C., and H. B. Link, to The Bellows Co. Automatic drill feed. 2,807,176, 9-24-57, Cl. 77—32.4.
- Butcko, Joseph A., and A. N. Clow, Jr.; said Clow assor. to S. E. Underwood. Seat roller cover. 2,804,914, 9-3-57, Cl. 155—183.
- Buterbaugh, Albert M. Garment spotting apparatus. 2,807,503, 9-24-57, Cl. 299—87.
- Butin, Emile A. Empty shuttle discharge device for looms. 2,792,026, 5-14-57, Cl. 139—237.
- Butin, Emile A. Memory unit for automatic shuttle changing on looms having a plurality of shuttles. 2,809,671, 10-15-57, Cl. 139—232.
- Butin, Emile A. Shuttle changing mechanism for weaving looms. 2,817,370, 12-24-57, Cl. 139—239.
- Butkus, Alex M., and G. R. Ryan, to Abbott Laboratories. Venoclysis apparatus. 2,812,117, 11-5-57, Cl. 222—189.
- Butler, Arnold J.: *See*—
- Perkins, Glen E., and Butler. 2,796,932.
- Butler, Benjamin H.: *See*—
- Carver, Aubrey, and Butler. 2,798,503.
- Butler, Bennie A. and W. J. Scraping tool kit. 2,800,221, 7-23-57, Cl. 206—16.
- Butler, Bertell C., and E. Busch, to The National Acme Co. Blank reversing means for multiple spindle machine. 2,779,956, 2-5-57, Cl. 10—166.
- Butler, Charles E., to McGraw Electric Co. Ceramic bodies. 2,782,125, 2-19-57, Cl. 106—46.
- Butler, Charles E., and R. N. Hazelwood, to McGraw Electric Co. Ceramic bodies. 2,782,126, 2-19-57, Cl. 106—46.
- Butler, Charles R. Cooling system for internal combustion engines. 2,799,260, 7-16-57, Cl. 123—41.54.
- Butler, Clifford L. Shock dissipating device. 2,811,385, 10-29-57, Cl. 293—86.
- Butler, Clyde A. Centrifugal sand pump. 2,800,084, 7-23-57, Cl. 103—103.
- Butler Co.: *See*—
- Perkins, Earl S. 2,801,051.
- Butler, Donald: *See*—
- Lowe, Arnold J., Butler, and Cockbain. 2,791,567.
- Butler, Ernest L., and O. M. Holmes, to United Shoe Machinery Corp. Machines for shaping stitchdown uppers over lasts. 2,778,038, 1-22-57, Cl. 12—7.5.
- Butler, Francis E., to the United States of America as represented by the Secretary of the Navy. Audible underwater signal. 2,803,807, 8-20-57, Cl. 340—8.
- Butler, Frank D. Combined hydrodynamical and compounded planetary gearing driven, internal fluid pressure axially oppositely actuated and controlled, dual flow type of variable reversible transmission coupler. 2,775,909, 1-1-57, Cl. 74—731.
- Butler, Frank D. Pressure variable ratio combined hydrodynamical and compounded planetary transmission. 2,799,182, 7-16-57, Cl. 74—677.
- Butler, George D., and H. C. Lawrence, to American Cyanamid Co. Recording UV spectrophotometer. 2,806,758, 9-17-57, Cl. 346—112.
- Butler, Henry. Surf nets. 2,780,020, 2-5-57, Cl. 43—12.
- Butler, Henry J.: *See*—
- Wright, Joseph, and Butler. 2,790,516.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brake for vehicles. 2,784,811, 3-12-57, Cl. 188—73.

- Butler, Henry J., to Dunlop Rubber Co. Ltd. Brake assembly. 2,816,631, 12-17-57, Cl. 188—264.
- Butler, James M., to Plastic and Rubber Products Co. Pipe wiper. 2,787,801, 4-9-57, Cl. 15—210.
- Butler, Jesse L., to Sanders Associates, Inc. Refractive antenna. 2,818,563, 12-31-57, Cl. 343—756.
- Butler, Jesse L., to Sanders Associates, Inc. Refractive antenna system. 2,818,564, 12-31-57, Cl. 343—756.
- Butler, Joseph E. Circuit housing. 2,783,416, 2-26-57, Cl. 317—101.
- Butler, Judson C.: *See*—Schlatter, Maurice J., and Butler. 2,794,794.
- Butler, Keith H., to Sylvania Electric Products Inc. Calcium-strontium phosphate phosphors. 2,786,034, 3-19-57, Cl. 252—301.4.
- Butler, Keith H., and L. Burns, to Sylvania Electric Products Inc. Electroluminescent phosphors. 2,802,792, 8-13-57, Cl. 252—301.6.
- Butler, Keith H., and H. H. Homer, to Sylvania Electric Products Inc. Blue electroluminescent zinc sulfide phosphors. 2,807,587, 9-24-57, Cl. 252—301.6.
- Butler, Lindley E. Roller for removing lint. 2,807,039, 9-24-57, Cl. 15—104.
- Butler, Lyman W., to General Motors Corp. Tool crack detection. 2,795,951, 6-18-57, Cl. 73—104.
- Butler Mfg. Co.: *See*—Hield, Roger A., and Ramirez. 2,815,831.
- Wishart, Ronald C. 2,775,833.
- Butler, Oscar. Control for the electrical system and meters of taxicabs. 2,792,901, 5-21-57, Cl. 180—82.
- Butler, Robert P.: *See*—Reader, Joseph T., and Butler. 2,788,177.
- Butler, Rollo R.: *See*—Van De Warker, Merle M., and Butler. 2,805,107.
- Butler, Thomas A.: *See*—Carter, James H., and Butler. 2,784,054.
- Spedding, Frank H., and Butler. 2,778,730.
- Butler, Thomas A., to the United States of America as represented by the United States Atomic Energy Commission. Separation of uranium from other metals by hydriding. 2,785,046, 3-12-57, Cl. 23—14.5.
- Butler, Thomas J. Bat and ball game apparatus. 2,805,063, 9-3-57, Cl. 273—95.
- Butler, Thomas P. Minnow box aerator pump. 2,783,088, 2-26-57, Cl. 299—63.
- Butler, Thomas W.: *See*—Fuchs, Theodore. 2,778,957.
- Butler, Walter E. Breakaway can opener. 2,801,765, 8-6-57, Cl. 220—48.
- Butler, William. Cigarette filter. 2,797,691, 7-2-57, Cl. 131—207.
- Butler, William H. Detector or demodulator. 2,789,219, 4-16-57, Cl. 250—27.
- Butler, William J.: *See*—Butler, Bennie A. and W. J. 2,800,221.
- Butler, William R., to Aluminum Co. of America. Metal panel gate. 2,795,063, 6-11-57, Cl. 39—87.
- Butlin, Charles E., to American Safety Razor Corp. Dispenser for safety razor blades. 2,792,933, 5-21-57, Cl. 206—16.
- Butner, Daniel W.: *See*—Hundhausen, Robert J. 2,782,750.
- Butrym, Anthony: *See*—Smith, Andrew N., and Butrym. 2,804,917.
- Butsch, Paul V., and J. A. Greenlee, to United States Rubber Co. Gas filter. 2,795,290, 6-11-57, Cl. 183—45.
- Butt, Charles A., to International Minerals & Chemical Corp. Process for producing colloidal silica-free calcium fluoride. 2,780,521, 2-5-57, Cl. 23—88.
- Butter, Francis J., to Josiah Parkes & Sons Ltd. Locks or latches for doors. 2,804,328, 8-27-57, Cl. 292—169.
- Butter, Francis J., to Josiah Parkes & Sons Ltd. Latch operating means. 2,817,553, 12-24-57, Cl. 292—336.3.
- Butter, George A., Jr.: *See*—Smith, Otto T., and Butter. 2,818,043.
- Butterfield, Harry E., Jr.: *See*—De Angelis, Angelo C., and Butterfield. 2,812,166.
- Butterfield, John P., to Chrysler Corp. Container with vibration damping support means. 2,817,435, 12-24-57, Cl. 206—46.
- Butterfield, Louis M. Carton. 2,778,558, 1-22-57, Cl. 229—29.
- Butterfield, Louis M. Machine for grading articles by weight. 2,797,807, 7-2-57, Cl. 209—121.
- Butters, Melissa E. Wearable protective body-covering structure. 2,794,186, 6-4-57, Cl. 2—1.
- Butterworth, Archibald J. Valve gears with torsion rod springs. 2,789,548, 4-23-57, Cl. 123—90.
- Butterworth, Archibald J. Change-speed gears for automobiles. 2,807,340, 9-24-57, Cl. 192—3.5.
- Butterworth, H. W., and Sons Co.: *See*—Giffillan, William C. 2,781,192.
- Giffillan, William C. 2,785,890.
- Buttery, Kenneth T., to Sutherland Paper Co. Dish package and carton therefor. 2,796,979, Cl. 206—45.31.
- Buttery, Kenneth T., to Sutherland Paper Co. Collapsible cartons. 2,800,250, 7-23-57, Cl. 220—113.
- Buttery, Kenneth T., to Sutherland Paper Co. Collapsible multiple compartment carton. 2,808,177, 10-1-57, Cl. 220—113.
- Buttery, Kenneth T., and T. V. Lugt, Jr., to Sutherland Paper Co. Packaging carton for cans and the like. 2,798,655, 7-9-57, Cl. 229—40.
- Buttko, Richard A., to Rockwell Mfg. Co. Planer and attachments therefor. 2,792,036, 5-14-57, Cl. 144—114.
- Buttler, John A. Instantaneous steam generators. 2,790,428, 4-30-57, Cl. 122—17.
- Buttnr, Arnold F., and C. E. Camp. Recovery plates and method of making same. 2,801,917, 8-6-57, Cl. 75—138.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Driving mechanism for the type bed of cylinder printing machines. 2,779,198, 1-29-57, Cl. 74—27.
- Buttnr, Arthur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. High speed cylinder-printing machines with movable form beds. 2,794,392, 6-4-57, Cl. 101—268.
- Büttner, Arthur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Automatic platen printing press. 2,797,640, 7-2-57, Cl. 101—359.
- Büttner, Franz: *See*—Enk, Eduard, and Büttner. 2,787,642.
- Buttnr-Werke Aktiengesellschaft: *See*—Bachmann, Ditmar, Eilers, Grundmann, and Buchtmeyer. 2,783,544.
- Glinka, Carl. 2,782,104.
- Button, Sidney J., to Ground Explorations Ltd. Oedometers. 2,810,289, 10-22-57, Cl. 73—94.
- Buttrey, Ronald N.: *See*—Nicholas, Alfred J., and Buttrey. 2,814,002.
- Buttrick, James C. Power driven cutting mechanism having means for movably mounting cutter bits. 2,789,806, 4-23-57, Cl. 262—33.
- Butts, George S. Resilient fabric element for wrist watch strap. 2,788,163, 4-9-57, Cl. 224—4.
- Butts, Homer F. Micrometer calipers. 2,787,835, 4-9-57, Cl. 33—148.
- Butts, Joseph R. Reverberation method and apparatus. 2,804,499, 8-27-57, Cl. 179—1.
- Butz, Bruno J. Method and device for inspecting and emptying envelopes. 2,806,614, 9-17-57, Cl. 214—310.
- Butz, James N., to Continental Can Co., Inc. Corner packing. 2,805,810, 9-10-57, Cl. 229—14.
- Butz, Lothar: *See*—Thommen, Hans, and Butz. 2,794,870.
- Thommen, Hans, and Butz. 2,796,477.
- Butzko, Robert L., to Auto-Vac Co. Vacuum molding machine. 2,814,074, 11-26-57, Cl. 18—19.
- Buvelot, John A.: *See*—Bergquist, Ernest C., and Buvelot. 2,782,027.
- Buvelot, John A., to American Steel Foundries. Axle assembly. 2,816,802, 12-17-57, Cl. 301—131.
- Buxton, Eugene P., to Olin Mathieson Chemical Corp. Metal working. 2,815,560, 12-10-57, Cl. 29—1.22.
- Buxton, Inc.: *See*—Broughton, Douglas J. 2,788,824.
- Broughton, Douglas J. 2,789,614.
- Duell, Morgan V. 2,780,089.
- Schoelles, Norman A. 2,811,796.
- Buzas, André: *See*—Beaufour, Henri and A., Buzas, and Dufour. 2,794,045.
- Buzas, August J., J. M. Dusinski, and R. T. E. Schenck, to Keystone Chemurgic Corp. Process to convert bixin to a food color and the resulting product. 2,793,124, 5-21-57, Cl. 99—148.
- Buzicky, Edmund J., and E. E. Beson, to Whirlpool-Seeger Corp. Collapsible wire freezer basket. 2,812,875, 11-12-57, Cl. 220—8.
- Byam, Erwin B.: *See*—Hoyt, Herbert L., and Byam. 2,791,786.
- Byam, Erwin B., to The Waterbury Farrel Foundry & Machine Co. Adjustable finger gripping means in transfer mechanisms. 2,781,531, 2-19-57, Cl. 10—166.
- Byars, Verle W. Sheet holding attachment for typewriters. 2,788,109, 4-9-57, Cl. 197—128.
- Byberg, Jonas J. Dustless grinder and mixer for feed materials and the like. 2,797,877, 7-2-57, Cl. 241—98.
- Bychinsky, Wilfred A., to General Motors Corp. Connector for igniter plug. 2,814,665, 11-26-57, Cl. 174—88.
- Byer, John B.: *See*—Siebentritt, Carl R., Jr., Byer, and Allison. 2,793,297.
- Byers, Leslie. Pump jack base. 2,802,632, 8-13-57, Cl. 248—19.
- Byers, Ralph J.: *See*—Whiton, Arthur L., and Byers. 2,790,544.
- Byk-Gulden Lomberg, Chemische Fabrik G. m. b. H.: *See*—Leb, Anton, Lidl, Gager, Muntean, Schauenstein, Keintzel, and Bolz. 2,801,203.
- Byland, Hans-Rudolf, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Metal-containing polyazo dyestuffs. 2,803,624, 8-20-57, Cl. 260—145.
- Byles, Theodore A.: *See*—Hill, Frederick P., and Byles. 2,791,685.
- Byles, Theodore A., to Motorola, Inc. Signal coupling system. 2,786,889, 3-26-57, Cl. 179—1.
- Bylund, Nils A., to Sandvikens Jernverks Aktiebolag. Rock drill bit with cutting insert. 2,784,943, 3-12-57, Cl. 255—64.
- Bymart-Tintair, Inc.: *See*—Lewis, Norman. 2,789,689.

- Byram, Robert E., and A. P. Sweet, Jr., to Radio Corp. of America. Electron beam tube. 2,813,209, 11-12-57, Cl. 313-30.
- Byrd, John F., to Radio Corp. of America. Power supply. 2,784,321, 3-5-57, Cl. 250-214.
- Byrd, John F., to Radio Corp. of America. Monitoring system for stereophonic sound channels. 2,791,629, 5-7-57, Cl. 179-1.
- Byrd, William R. Juicer and measuring cup combination. 2,781,069, 2-12-57, Cl. 146-3.
- Byrd, William R. Cheese slicer. 2,791,026, 5-7-57, Cl. 30-115.
- Byrkett, Elwood L., to The Sheffield Corp. Weighing apparatus. 2,784,958, 3-12-57, Cl. 265-63.
- Byrkett, Elwood L., to The Sheffield Corp. Gauging device. 2,792,569, 5-14-57, Cl. 340-265.
- Byrne, Robert M., to Goodyear Aircraft Corp. Pulse time data reducer. 2,803,818, 8-20-57, Cl. 343-7.3.
- Byrne, William: *See*—
Peak, Charles. 2,793,599.
- Byrne, William L., to B & G Machinery Co., Inc. Garment dispenser. 2,778,504, 1-22-57, Cl. 211-1.5.
- Byrnes, Irving F., M. C. Myers, Jr., and S. G. Zettler, to Radio Corp. of America. Selective calling system. 2,811,708, 10-29-57, Cl. 340-164.
- Byrnes, John F.: *See*—
Evans, Robert B., Byrnes, and Schubert. 2,798,222.
- Bystrom, Albin, Jr., and J. D. Kelly, to Boeing Airplane Co. Elliptically polarized antennas. 2,817,086, 12-17-57, Cl. 343-895.
- C. A. V. Ltd.: *See*—
Evans, Fraser M. 2,795,219.
Pettitt, Leslie E., and Peasey. 2,790,729.
Seilly, Alec H. 2,807,170.
Wheatley, Denis. 2,790,934.
- C. B. S.-Hytron, a division of Columbia Broadcasting System, Inc.: *See*—
Giuffrida, Joseph. 2,795,728.
- C. C. D. Processes (N. Y.), Ltd.: *See*—
Chayen, Israel H. 2,803,634.
- C & D Batteries, Inc.: *See*—
Doughty, Leon A. 2,777,892.
- CDC Control Service, Inc.: *See*—
Williams, John C., Jr. 2,802,660.
- C. D. Patents Ltd.: *See*—
Greaves, Charles D., and Atkins. 2,777,806.
- C. G. S. Laboratories, Inc.: *See*—
Dewitz, Gerhard H. 2,799,822.
Dewitz, Gerhard H. 2,802,185.
Dewitz, Gerhard H. 2,802,186.
Dewitz, Gerhard H. 2,812,389.
Gabor, William D. 2,777,955.
Gabor, William D. 2,811,642.
Gabor, William D. 2,813,975.
Sontheimer, Carl G. 2,811,639.
Sontheimer, Carl G. 2,817,810.
Sontheimer, Carl G. 2,817,811.
- C & H Machine Co.: *See*—
Graham, Herbert E. 2,807,120.
- C & H Supply Co.: *See*—
Phillips, William L., and Lawrence. 2,781,535.
- C S W Plastic Types, Inc.: *See*—
Wall, Richard T. 2,812,549.
- Cabaniss, Edward H., N. C. Garland, A. L. Hardy, J. B. Gibbons, and W. Frayer, to the United States of America as represented by the Secretary of the Air Force. Coil and buffer spring system for a gun mount. 2,802,401, 8-13-57, Cl. 89-44.
- Cabaniss, James M. Bait holder. 2,780,887, 2-12-57, Cl. 43-55.
- Cabell, Foraker A. Automatic hydraulic differential control mechanism. 2,789,447, 4-23-57, Cl. 74-711.
- Cabell, Laura W.: *See*—
Cabell, Roger W. 2,791,663.
- Cabell, Loretta E.: *See*—
Cabell, Roger W. 2,791,663.
- Cabell, Roger W., to L. E. and L. W. Cabell. Alarms. 2,791,663, 5-7-57, Cl. 200-142.
- Cable Electric Products, Inc.: *See*—
Grohsgal, Alexis C. 2,782,753.
- Cabler, Charles T. Vehicle for facilitating garden work. 2,796,155, 6-18-57, Cl. 188-167.
- Cabler, Charles T. Utility vehicle for facilitating garden work. 2,818,266, 12-31-57, Cl. 280-32.5.
- Cabot, Godfrey L., Inc.: *See*—
Antonsen, Randolph. 2,807,577.
Bradley, John M. 2,799,358.
Campbell, Ernest D., and Friauf. 2,801,157.
Dingman, Robert W., Michel, Secord, and Schaeffer. 2,801,901.
Mugrove, Thomas P. 2,799,645.
Wendell, Charles B., Jr., and Engelson. 2,780,525.
- Cabot Shops, Inc.: *See*—
McCray, Harold E. 2,807,272.
Wilkinson, Alvin H. 2,811,322.
- Caburet, Albert, to International Business Machines Corp. Transversely engaged clutch with locking means. 2,813,608, 11-19-57, Cl. 192-71.
- Caccamise, Joseph S.: *See*—
Healy, Thomas W. 2,807,819.
- Cachelin, Gérard, to Ch. Tissot & fils S. A. Automatic winding mechanism for watches. 2,789,413, 4-23-57, Cl. 58-82.
- Caddy, John D. Educational demonstrator. 2,816,373, 12-17-57, Cl. 35-74.
- Cade, Phillip J., and Sibley, to Electronics Corp. of America. Probe and valve assembly. 2,810,879, 10-22-57, Cl. 324-30.
- Cade, Phillip J., and D. J. MacDougall, to Electronics Corp. of America. Fire method and apparatus. 2,811,711, 10-29-57, Cl. 340-227.
- Cadillac, John G., and R. T., to Aacon Contracting Co., Inc. Automatic unloading trailer. 2,812,088, 11-5-57, Cl. 214-505.
- Cadillac, Robert T.: *See*—
Cadillac, John G., and R. T. 2,812,088.
- Cadm Corp., The: *See*—
Allenbaugh, Ralph. 2,799,496.
- Cadwell Corp.: *See*—
Wottring, Le Roy. 2,795,169.
- Cadwell, Leonard E.: *See*—
Frazier, Charles, and Cadwell. 2,810,706.
- Cadwell, Ralph K., to Lacy Mfg. Co. Electrical welder for upright seams. 2,805,321, 9-3-57, Cl. 219-126.
- Cady, George H., to United Merchants and Manufacturers, Inc. Lengthwise pleating. 2,786,616, 3-26-57, Cl. 223-34.
- Cady, William R., and J. E. Mulhern, Jr., to General Electric Co. Semiconductor device. 2,814,735, 11-26-57, Cl. 307-88.5.
- Cady, Willoughby M.: *See*—
Bartelink, Everhard H. B., and Cady. 2,803,820.
- Cafarella, Charles R.: *See*—
Cafarella, Domenic L., and C. R. 2,791,075.
- Cafarella, Domenic L., and C. R., to Crown Wire Mfg. Corp. Automatic jig-loading apparatus. 2,791,075, 5-7-57, Cl. 53-236.
- Cafasso, Joseph A., to American Viscose Corp. Method of stabilizing regenerated cellulose textiles with aldoketene dimers and textile hand-modifying agents and products resulting therefrom. 2,791,484, 5-7-57, Cl. 8-115.6.
- Cafcas, Thomas H., to Standard Oil Co. Metal working and liquid coolants therefor. 2,780,598, 2-5-57, Cl. 252-33.2.
- Cafolla, Constantine F., and E. R. Smith, to Seneca Falls Machine Co. Tracer-positioning apparatus. 2,782,568, 2-26-57, Cl. 51-100.
- Cage, Darcy L., to Superior Fireplace Co. Fireplace structure. 2,808,824, 10-8-57, Cl. 126-120.
- Cagle, Charles E. Closure cap for liquid containers. 2,778,521, 1-22-57, Cl. 215-74.
- Cagle, Toby T. Vehicle brake construction. 2,780,323, 2-5-57, Cl. 188-152.
- Cagnoni, Delfino. Process for facilitating the peeling of tomatoes and apparatus for performing said process. 2,813,563, 11-19-57, Cl. 146-228.
- Cahil, Joseph A.: *See*—
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- Cahil Mfg. Co.: *See*—
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- Cahill, John L., Jr. Grass catcher. 2,783,604, 3-5-57, Cl. 56-202.
- Cahn, Abry S., Jr. Average speed indicating device. 2,795,758, 6-11-57, Cl. 324-70.
- Cahn, Herbert. Test clip. 2,783,445, 2-26-57, Cl. 339-262.
- Cahn, Karl, to N. V. Metallic Industry. Device for the surface treatment of metallic or non-metallic objects. 2,792,809, 5-21-57, Cl. 118-423.
- Cahn, Robert P., to Esso Research and Engineering Co. Hydrogen donor diluent cracking process. 2,796,386, 6-18-57, Cl. 196-50.
- Cain, Cornelius K., to McNeil Laboratories, Inc. Barbituric acid product. 2,786,841, 3-26-57, Cl. 260-257.
- Cain, Cornelius K., to McNeil Laboratories, Inc. Quaternary quinoline carboxamide salts and method of preparing same. 2,798,070, 7-2-57, Cl. 260-286.
- Cain, Dallas E., to the United States of America as represented by the Secretary of the Navy. Quick disconnect joint for torpedoes. 2,790,409, 4-30-57, Cl. 114-22.
- Cain, Joseph B., to Mid-States Steel and Wire Co. Handled basket. 2,788,934, 4-16-57, Cl. 229-52.
- Cain, Paul E. Automatic salting machine. 2,799,242, 7-16-57, Cl. 118-24.
- Cain, William T.: *See*—
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- Cairelli, Eremeldo, and G. J. Rundblad, to Wilson-Jones Co. Ring setting machine. 2,813,440, 11-19-57, Cl. 78-49.
- Cairnes, Charles W., and O. R. S. Elnan, to Aircraft Armaments, Inc. Shock mount for containers. 2,779,464, 1-29-57, Cl. 206-46.
- Cairns, Robert E., to Monsanto Chemical Co. Polyethylene refining. 2,776,274, 1-1-57, Cl. 260-94.9.
- Cairns, Theodore L., and J. C. Sauer, to E. I. du Pont de Nemours & Co. α -unsaturated β -thioether aldehydes and their preparation. 2,776,995, 1-8-57, Cl. 260-598.
- Caithness, William, to Bomac Laboratories Inc. Electron discharge device for microstrip transmission systems. 2,798,186, 7-2-57, Cl. 315-39.
- Cake, William R.: *See*—
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- Cake, William R., to Heyden Newport Chemical Corp. Decolorization of pentaerythritol. 2,806,069, 9-10-57, Cl. 260-637.

- Calabrese, Vincenzo. Advertising apparatus. 2,812,602, 11-12-57, Cl. 40-68.
- Calahan, William H., to The Williamson Co. Dual burner forced air furnace and control system therefor. 2,800,282, 7-23-57, Cl. 236-9.
- Calamal, Giosue. Feed system of mixtures of thick oils and water and the like, to spray distribution apparatus especially for ointment of textile fibres. 2,808,180, 10-1-57, Cl. 222-146.
- Calaman, Joseph J.: See—
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- Calanda Stiftung: See—
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- Calasibetta, John, and J. Desena, to Roto Bag Corp. Multiple compartment bag having readily separable individual compartments. 2,805,814, 9-10-57, Cl. 229-56.
- Calcinator Corp.: See—
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- Calcium Carbonate Co.: See—
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- Calculagraph Co.: See—
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- Caldecourt, Victor J., to The Dow Chemical Co. Magnetometer. 2,776,404, 1-1-57, Cl. 324-47.
- Caldecourt, Victor J., to The Dow Chemical Co. Stable direct-current amplifier. 2,807,677, 9-24-57, Cl. 179-171.
- Calder, James D., to H. J. S., and L. Sklar. Spring seated construction for upholstered furniture. 2,800,168, 7-23-57, Cl. 155-179.
- Calderon, Manuel M., to M. C. Sanderson. Dual tray tub file. 2,803,514, 8-20-57, Cl. 312-311.
- Calderone, Frank J., Jr., to The Western Union Telegraph Co. Multiplex distributor. 2,794,852, 6-4-57, Cl. 178-52.
- Calderwood, Bernell M. Runner attachment for wheels. 2,818,265, 12-31-57, Cl. 280-13.
- Caldwell, Carlyle G., O. B. Wurzburg, and L. D. Fitzgerald, to National Starch Products Inc. Process for sizing acrylic yarns. 2,788,293, 4-9-57, Cl. 117-138.8.
- Caldwell, Carlyle G., and I. Martin, to National Starch Products Inc. Ungelatinized cold water soluble starch ethers. 2,802,000, 8-6-57, Cl. 260-233.3.
- Caldwell, Carlyle G., and O. B. Wurzburg, to National Starch Products Inc. Ungelatinized tertiary amino alkylene ethers of amylaceous materials. 2,813,093, 11-12-57, Cl. 260-233.3.
- Caldwell, Charles W. Anti-skid pedal cover. 2,809,538, 10-15-57, Cl. 74-563.
- Caldwell, E. L., & Sons: See—
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- Caldwell, Edward L., Jr.: See—
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- Caldwell, Frederick C. and E. L., Jr., to E. L. Caldwell & Sons. Means for cutting stalks or the like and plowing or cultivating the ground. 2,781,709, 2-19-57, Cl. 97-46.27.
- Caldwell, Frederick C., and E. L. Caldwell, Jr., to E. L. Caldwell & Sons. Machine for cutting stalks or brush. 2,786,318, 3-26-57, Cl. 55-118.
- Caldwell, Harry F., to Oliver Machinery Co. Label machine feeding and timing mechanism. 2,776,038, 1-1-57, Cl. 198-34.
- Caldwell, Herbert S.: See—
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- Caldwell, John R.: See—
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- Caldwell, John R., to Eastman Kodak Co. Linear polycarbonates from bis(hydroxyethoxy) aromatic compounds. 2,799,666, 7-16-57, Cl. 260-47.
- Caldwell, John R., to Eastman Kodak Co. Preparation of linear polyurethanes from alkyl diurethanes of aromatic diamines. 2,801,231, 7-30-57, Cl. 260-77.5.
- Caldwell, John R., to Eastman Kodak Co. Fibers made from acrylonitrile polymers and bentonite. 2,808,385, 10-1-57, Cl. 260-41.
- Caldwell, John R., to Eastman Kodak Co. Interpolyesters from aromatic dibasic acids and omega-hydroxyalkyl esters of carbonic acid. 2,808,390, 10-1-57, Cl. 260-75.
- Caldwell, John R., and W. J. Jackson, Jr., to Eastman Kodak Co. *p*-(aminoethoxy) benzoic acids and their preparation. 2,790,825, 4-30-57, Cl. 260-519.
- Caldwell, John R., and J. W. Wellman, to Eastman Kodak Co. Interpolyesters prepared from mixtures of P,P'-sulfonyl dibenzoic acid and cyclic aliphatic dicarboxylic acids. 2,805,213, 9-3-57, Cl. 260-75.
- Caldwell, John R., and E. H. Hill, to Eastman Kodak Co. Addition copolymers of allyloxamic acid hydrazides. 2,805,215, 9-3-57, Cl. 260-78.
- Caldwell, Joseph A., and M. L. Lytle, to Esso Research and Engineering Co. Method for inhibiting corrosion. 2,799,649, 7-16-57, Cl. 252-8.55.
- Caldwell, Lewis E., and M. Riccitiello, to Westinghouse Electric Corp. Rolled laminated tubular members and methods of making the same. 2,795,241, 6-11-57, Cl. 133-78.
- Caldwell Mfg. Co.: See—
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- Caldwell Mfg. Co., The: See—
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- Caldwell, Paul, to Cannac Research and Development Co. Digestion of phosphate rock. 2,778,712, 1-22-57, Cl. 23-109.
- Caldwell, Robert E., to Caldwell Mfg. Co. Livestock oiler and applicator apparatus. 2,785,653, 3-19-57, Cl. 119-157.
- Caldwell, Washington J. Device for stripping insulation from wires. 2,782,664, 2-26-57, Cl. 81-9.51.
- Caldwell, William J. Expander silencer unit. 2,807,329, 9-24-57, Cl. 181-55.
- Caldwell, William J. Method and structure for controlling thermal effects in the air conditioning of multi-storied buildings. 2,817,283, 12-24-57, Cl. 98-33.
- Caldwell, William V.: See—
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- Caldwell, Wyche D., to Telecomputing Corp. Position indicating device. 2,788,519, 4-9-57, Cl. 340-271.
- Caldwell, Wyche D., to Telecomputing Corp. Double purpose gas filled tube. 2,811,310, 10-29-57, Cl. 235-92.
- Calfee, John D., to Monsanto Chemical Co. Copolymerization of vinyl chloride with vinylidene chlorofluoride at high pressures. 2,777,834, 1-15-57, Cl. 260-87.7.
- Calfee, John D., to Monsanto Chemical Co. Polymerization of 1-chloro-1-fluoro-ethylene. 2,777,835, 1-15-57, Cl. 260-92.1.
- Calhoun, Clifford F. Radial profile milling machine. 2,791,157, 5-7-57, Cl. 90-13.7.
- Calhoun, Lendon L.: See—
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- Calidyne Co., The: See—
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- Caliezi, Armin, and W. Kern, to Ciba Ltd. Vat dyestuffs and process for their manufacture. 2,791,587, 5-7-57, Cl. 260-272.
- California Abrasives, Inc.: See—
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- California Institute Research Foundation: See—
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- California Packing Corp.: See—
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- California Research Corp.: See—
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 Call, Wilson. Cotton picking spindle unit. 2,787,110, 4-2-57, Cl. 56-50.
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 Callaghan, Robert W., and T. R. Freer, to General Mills, Inc. Pie crust mix. 2,791,506, 5-7-57, Cl. 99-94.
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 Callahan, Robert M., to the United States of America as represented by the Secretary of the Navy. Barium titanate of increased dielectric constant and piezoelectric response and method of producing same. 2,777,773, 1-15-57, Cl. 106-39.
 Callahan, William H., and E. Parre, to Stoner Mfg. Corp. Beverage making and vending machine and method of operation. 2,802,599, 8-13-57, Cl. 222-1.
 Callan, Joseph M., to Magnetic Analysis Corp. Metal testing equipment. 2,797,386, 6-25-57, Cl. 324-34.
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- Cameron, Carl T. Wheel weight. 2,780,497, 2-5-57, Cl. 301-41.
- Cameron, Colin E., to Arnolt Corp. Spotlight. 2,817,005, 12-17-57, Cl. 240-61.6.
- Cameron, Donald L. Combined water heater and storage tank. 2,814,278, 11-26-57, Cl. 122-17.
- Cameron, Eric C., and V. W. Woods, to Woods Industries Inc. Color formation on appies. 2,784,070, 3-5-57, Cl. 71-23.
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- Cameron, John A., to The S. O. S. Co. Steel wool carton. 2,812,853, 11-12-57, Cl. 206-56.
- Cameron, John F. Combination package and viewer for photographic transparencies or the like. 2,785,483, 3-19-57, Cl. 40-1.
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De Gelleke, Gerrit. 2,796,933.
Saco, Felix, and Rockstrom. 2,804,275.
- Cameron, Peter C., to R. P. Schulze. Anti-glare mirror. 2,790,350, 4-30-57, Cl. 88-77.
- Cameron, Peter C., to R. P. Schulze. Anti-glare devices. 2,790,910, 4-30-57, Cl. 250-71.
- Cameron, Robert C., and J. W. Hopkins, Jr.; said Hopkins assor, to said Cameron. Radio controlled electric cutaneous signal type animal obedience device. 2,800,104, 7-23-57, Cl. 119-29.
- Camescasse, Pierre L., to Soberma (Societe de Brevets, d'Etudes et de Recherches pour le Magnesium). Process for the manufacture of magnesium. 2,805,935, 9-10-57, Cl. 75-67.
- Camescasse, Pierre, and M. Petit, to Soberma (Societe de Brevets d'Etudes et de Recherches pour le Magnesium). Apparatus for condensing metals to the liquid state. 2,781,189, 2-12-57, Cl. 266-15.
- Camfield Mfg. Co.: *See*—
Olson, Henry L., and Miller. 2,800,070.
- Camilli, Guglielmo, and G. H. Halsey, to General Electric Co. Transformer. 2,783,441, 2-26-57, Cl. 336-180.
- Camloc Fastener Corp.: *See*—
Newcomer, Jacob R., Jr. 2,804,326.
- Cammin-Christy, 25% to J. Radtke, 25% to J. J. Radtke, and 15% to A. Radtke. Rocket missiles. 2,805,622, 9-10-57, Cl. 102-63.
- Cammin-Christy, Bruno, 25% to J. Radtke, 25% to J. J. Radtke, and 15% to A. Radtke. Rocket launching device. 2,807,194, 9-24-57, Cl. 89-1.7.
- Camors, Robert E.: *See*—
Jones, Grady M., and Camors. 2,806,578.
- Camp, Alired, to Repeal Brass Mfg. Co. Combination fixture. 2,795,370, 6-11-57, Cl. 230-92.
- Camp, Calvin E.: *See*—
Buttner, Arnold F., and Camp. 2,801,917.
- Camp, Clarence W.: *See*—
Manning, Ralph M., Kernander, Murray, and Camp. 2,816,184.
- Camp, Glen D., to Melpar, Inc. Speech brighteners. 2,799,734, 7-16-57, Cl. 179-171.
- Camp, John F. Air filtering unit. 2,789,663, 4-23-57, Cl. 183-49.
- Camp, Leon W., to Bendix Aviation Corp. Ceramic transducer having stacked elements. 2,787,777, 4-2-57, Cl. 340-10.
- Camp, Leon W., to Bendix Aviation Corp. Electroplated ceramic rings. 2,795,709, 6-11-57, Cl. 310-9.6.
- Camp, Leon W., and W. A. Daniel, to Bendix Aviation Corp. Underwater transducer. 2,797,399, 6-25-57, Cl. 340-8.
- Camp, Luther S. Pie filler dispenser. 2,792,156, 5-14-57, Cl. 222-309.
- Camp and McInnes, Inc.: *See*—
McInnes, Henry S., and Stafford. 2,810,477.
- Camp, Robert C.: *See*—
Pritikin, Nathan, and Camp. 2,818,354.
- Camp, Robert C., to Pyramid Mouldings, Inc. Flexible molding strip with continuous nailing surface. 2,817,881, 12-31-57, Cl. 20-74.
- Camp, Samuel C.: *See*—
Stevens, Donald R., and Camp. 2,786,829.
- Campagna, Anthony and J. J.; said A. Campagna assor, to said J. J. Campagna. Apparatus for removal of condensate water in an air conditioning system. 2,794,624, 6-4-57, Cl. 257-8.
- Campagna, Frank T., C. M. Foggett, and W. H. Lehmberg, to American Felt Co. Fibrous and absorbent perspiration pads. 2,73,474, 3-5-57, Cl. 2-171.
- Campagna, John J.: *See*—
Campagna, Anthony and J. J. 2,794,624.
- Campanell, Samuel. Safety light assembly. 2,816,284, 12-10-57, Cl. 340-321.
- Campbell, A. S., Co., Inc.: *See*—
McLeod, Charles A. 2,781,117.
- Campbell, Allan, D. A. Shepherd, A. C. Ott, and B. A. Johnson, to The Upjohn Co. Steroid production. 2,816,119, 12-10-57, Cl. 260-397.2.
- Campbell, Alexander B., Jr. Paper bag holder. 2,781,151, 2-12-57, Cl. 221-45.
- Campbell, Arthur B., to General Time Corp. Constant speed drive mechanism with floating mount. 2,816,638, 12-17-57, Cl. 192-104.
- Campbell, Arthur K., to Radio Corp. of America. Torque testing tool. 2,791,904, 5-14-57, Cl. 73-139.
- Campbell, Charles E., to W. E. Schirmer. Hinge construction. 2,790,992, 5-7-57, Cl. 16-171.
- Campbell, Charles H., to Monsanto Chemical Co. Method of producing dialkyl- and dicycloalkyl phosphites. 2,794,820, 6-4-57, Cl. 260-461.
- Campbell, Charles J. Garment hanger. 2,815,158, 12-3-57, Cl. 223-96.
- Campbell, Charles R., Jr.: *See*—
McIlvin, Donald B., Campbell, and Chellis. 2,785,400.
- Campbell, Clarence M. Detachable handles for containers. 2,786,707, 3-26-57, Cl. 294-34.
- Campbell, Colin L.: *See*—
Woodley, Fred E., and Campbell. 2,809,788.
- Campbell, Date S., to McGraw-Edison Co. Coffee basket lifter. 2,809,578, 10-15-57, Cl. 99-312.
- Campbell, David S., to Cardwell Westinghouse Co. Rubber draft gear. 2,776,759, 1-8-57, Cl. 213-34.
- Campbell, David S. Fishline bob or float. 2,779,121, 1-29-57, Cl. 43-43.15.
- Campbell, David S., to Cardwell Westinghouse Co. Cushioning device for railroad cars. 2,789,811, 4-23-57, Cl. 267-9.
- Campbell, David S., to Cardwell Westinghouse Co. High capacity draft gear with friction and a plurality of spring cushioning elements. 2,810,484, 10-22-57, Cl. 213-33.
- Campbell, David S., to Cardwell Westinghouse Co. Draft gear combining helical springs, rubber springs, and friction. 2,811,263, 10-29-57, Cl. 213-34.
- Campbell, David S., to Cardwell Westinghouse Co. High capacity shock absorber for freight cars. 2,814,392, 11-26-57, Cl. 213-33.
- Campbell, David S., to Cardwell Westinghouse Co. Friction draft gear. 2,817,445, 12-24-57, Cl. 213-32.
- Campbell, Denis J., and J. J. Sperotto, to American Can Co. Side seam for can body and method of producing same. 2,814,416, 11-26-57, Cl. 220-77.
- Campbell, Dewey H., to P. & G. Mfg. Co. Valve clearance gauges. 2,780,871, 12-12-57, Cl. 33-172.
- Campbell, Edwin W. D.: *See*—
Dufault, Emmanuel J., Ruddell, and Campbell. 2,785,719.
- Campbell, Emmett D., to the Williamson-Dickie Mfg. Co. Expandable garment. 2,803,830, 8-27-57, Cl. 2-237.
- Campbell, Ernest D., and G. F. Friauf, to Godfrey L. Cabot, Inc. Process and furnace for the production of carbon black. 2,801,157, 7-30-57, Cl. 23-209.4.
- Campbell, Ernest F., P. H. Girouard, and A. E. Cohen. Projectile fuze setting apparatus. 2,792,759, 5-21-57, Cl. 89-6.
- Campbell, Erwin A.: *See*—
Woolslayer, Homer J., Iddings, Jenkins, and Campbell. 2,780,325.
- Woolslayer, Homer J., Jenkins, and Campbell. 2,804,948.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,339.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,344.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,804,949.
- Campbell, Erwin A., to Lee C. Moore Corp. Mast erection. 2,787,385, 4-2-57, Cl. 214-1.
- Campbell, Francis B. Finger ring guard with spaced gripping portions. 2,817,219, 12-24-57, Cl. 63-15.6.
- Campbell, Giraud W. Oleoginosis vitagen preparation. 2,797,185, 6-25-57, Cl. 167-81.
- Campbell, Gregg J., to Guardian Electric Mfg. Co. Snap switch mechanism. 2,805,297, 9-3-57, Cl. 200-67.
- Campbell, Harris S., to Autogiro Co. of America. Aircraft having jet driven sustaining rotor. 2,776,016, 1-1-57, Cl. 170-135.4.
- Campbell, Harris S., to the United States of America as represented by the Secretary of the Air Force. Oscillating apparatus and control therefor. 2,801,550, 8-6-57, Cl. 74-600.
- Campbell, Harris S., to Eastern Rotorcraft Corp. Control for helicopter multiple speed transmission. 2,809,701, 10-15-57, Cl. 170-135.73.
- Campbell, Henry H., to Borg-Warner Corp. Air motor governor. 2,811,930, 11-5-57, Cl. 103-207.
- Campbell, J. Allan and J. C. Babcock, to The Upjohn Co. 4,4-dialkyl androstrenes and method. 2,813,880, 11-19-57, Cl. 260-397.4.
- Campbell, J. Allan, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. Steroid compounds and process. 2,818,408, 12-31-57, Cl. 260-239.5.

- Campbell, John. Hydro power turbines. 2,801,069, 7-30-57, Cl. 253-32.
- Campbell, John F. Nozzle exit valve. 2,796,296, 6-18-57, Cl. 299-107.6.
- Campbell, John F. Open orifice nozzle and valve. 2,801,881, 8-6-57, Cl. 299-118.
- Campbell, John M., to Composite Steels, Inc. Method of making clad steel. 2,782,497, 2-26-57, Cl. 29-471.5.
- Campbell, John M., and J. A. Vehicle safety belt. 2,814,504, 11-26-57, Cl. 280-150.
- Campbell, John M., III. Tourniquet. 2,803,253, 8-20-57, Cl. 128-327.
- Campbell, John O. Scarifier bracket for grader blade. 2,804,703, 9-3-57, Cl. 37-145.
- Campbell, Julia A.: See—
- Campbell, John M., and J. A. 2,814,504.
- Campbell, Kenneth N., to Miles Laboratories, Inc. 2[β -(3',4'-dimethoxyphenyl)ethyl]-4,6,7-trimethoxyquinoline. 2,783,234, 2-26-57, Cl. 260-289.
- Campbell, Kenneth N., to Mead Johnson & Co. Dimethylaminoethyl esters of polyalkoxy benzoic and cinnamic acids. 2,816,133, 12-10-57, Cl. 260-473.
- Campbell, LaVern A. Window and door construction for detachable cab. 2,815,243, 12-3-57, Cl. 296-28.
- Campbell, Milton C., Jr.: See—
- Campbell, Milton C., Sr., and M. C. Campbell, Jr. 2,784,386.
- Campbell, Milton C., Sr., and M. C. Campbell, Jr. Watch timer. 2,784,586, 3-12-57, Cl. 73-6.
- Campbell, Oliver F., and W. H. Decker, to Sinclair Refining Co. Apparatus. 2,777,428, 1-15-57, Cl. 122-4.
- Campbell, Oliver F., and W. H. Decker, to Sinclair Refining Co. Waste gas burner. 2,802,521, 8-13-57, Cl. 158-115.
- Campbell, Paul J., to Pratt & Whitney Co., Inc. Machine tool follow-up mechanism. 2,796,772, 6-25-57, Cl. 74-388.
- Campbell, Paul J., to The New England Machine and Tool Co. Machine for shaping a workpiece with a predetermined contour. 2,814,973, 12-3-57, Cl. 90-13.7.
- Campbell, Richard H., to Webster Electric Co. Intercommunication apparatus. 2,783,308, 2-26-57, Cl. 179-37.
- Campbell, Robert E.: See—
- Filliung, Jacques J., and Campbell. 2,790,677.
- Campbell, Robert K.: See—
- Hook, Albert A. 2,797,632.
- Campbell, Robert L., to General Controls Co. Sequential relay. 2,795,669, 6-11-57, Cl. 200-87.
- Campbell, Rollin E., and H. D. Forse: said Campbell assor. to said Forse. Garment press. 2,809,451, 10-15-57, Cl. 38-12.
- Campbell Sash Works, Inc.: See—
- Stavich, Steve. 2,799,890.
- Campbell, Sylvester J.: See—
- Winchester, Amos J., Jr., and Campbell. 2,798,991.
- Campbell, Thaddeus C., to Bell Telephone Laboratories, Inc. Ladder seats. 2,818,310, 12-31-57, Cl. 304-31.5.
- Campbell, Vernon M. Box and dispenser for granular materials. 2,782,965, 2-26-57, Cl. 222-455.
- Campbell, Willis S., to the United States of America as represented by the Secretary of the Navy. Liquid level measuring apparatus. 2,817,234, 12-24-57, Cl. 73-304.
- Campbell, Wilson E.: See—
- Menge, Theodore L. 2,792,984.
- Camphausen, Fred H.: See—
- Harza, Leroy F. 2,798,373.
- Camplise, Nash O., and C. W. Scamman, to Houston Oil Field Material Co., Inc. Anode backfill. 2,810,690, 10-22-57, Cl. 204-197.
- Campos, Francisco, to Societe Anonyme dite: Societe des Brevets Logabax. Tabulating mechanism for calculating machines. 2,777,560, 1-15-57, Cl. 197-177.
- Campos, Jose M. Vehicle beds. 2,812,080, 11-5-57, Cl. 214-84.
- Camprubi, Bartholomew, to The Hoover Co. Electric motors. 2,807,867, 10-1-57, Cl. 29-155.54.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Motion picture film. 2,781,688, 2-19-57, Cl. 88-16.2.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Recording and erase head for magnetic recorders. 2,784,259, 3-5-57, Cl. 179-100.2.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Electromagnetic head. 2,785,232, 3-12-57, Cl. 179-100.2.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Apparatus for making duplicate magnetic records. 2,795,651, 6-11-57, Cl. 179-100.2.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Electromagnetic transducer head. 2,803,708, 8-20-57, Cl. 179-100.2.
- Camzi, Jules P. Devices for fastening electric cables. 2,788,505, 4-9-57, Cl. 339-255.
- Canada Packers, Ltd.: See—
- Dufault, Emmanuel J., Ruddell, and Campbell. 2,785,719.
- McGowan, Raymond J., Burt, and Teasdale. 2,797,164.
- Ziegler, Peter, and Hoehner. 2,781,364.
- Canada Permanent Trust Co., The: See—
- Blackstock, Gibbs. 2,790,326.
- Canada Wire and Cable Co. Ltd.: See—
- Clipsham, Kenneth M. 2,804,694.
- Canaday, Roscoe H.: See—
- Young, Earle A., Baker, and Canaday. 2,784,251.
- Canaday, Roscoe H., to Eastman Kodak Co. Automatic exposure control system for photographic printer. 2,794,366, 6-4-57, Cl. 88-24.
- Canadian Copper Refiners Ltd.: See—
- Mellor, John H. 2,816,333.
- Canadian General Electric Co., Ltd.: See—
- Covert, John R. G. 2,802,927.
- Canadian Industries Ltd.: See—
- McCaffrey, Francis H. G., and Hamilton. 2,796,834.
- Canadian Industries (1954) Ltd.: See—
- Segall, Gordon H., and Cameron. 2,798,861.
- Canadian Ingersoll-Rand Co. Ltd.: See—
- Anderson, David F. 2,787,314.
- Canadian International Paper Co.: See—
- Charles, Frank R., and Wayman. 2,792,313.
- Canadian Patents and Developments Ltd.: See—
- Affleck, Antony C. 2,776,257.
- Forward, Frank A., and Halpern. 2,797,977.
- Khorana, Har G. 2,795,580.
- Khorana, Har G. 2,815,342.
- Morgan, Eric R. 2,797,995.
- Canadian Westinghouse Co., Ltd.: See—
- Horne, Alan C. 2,785,358.
- Canat, Christian. Vulcanising press. 2,798,254, 7-9-57, Cl. 18-17.
- Canavan, Joseph P., to Hemphill Co. Knitting method. 2,785,554, 3-19-57, Cl. 66-43.
- Cance, James C. R.: See—
- Brimley, Kenneth J., and Cance. 2,788,461.
- Cance, James C. R., to Imperial Chemical Industries Ltd. Art of delay electric shot-firing of blasting explosive charges and appliances suitable for use in delay electric shot-firing circuits. 2,814,991, 12-3-57, Cl. 102-22.
- Cance, James R., and K. J. Brimley, to Imperial Chemical Industries Ltd. Apparatus for firing explosive charges. 2,812,711, 11-12-57, Cl. 102-22.
- Candee, Allan H., and M. A. Donohoe, to The Gleason Works. Gear chuck. 2,793,042, 5-21-57, Cl. 279-106.
- Candell & Johnson: See—
- Lawson, Frank L. 2,780,500.
- Candia, Angle N. Door lock. 2,793,520, 5-28-57, Cl. 70-143.
- Candlin, James E., Jr.: See—
- Augstgen, Kenneth J., and Candlin. 2,778,320.
- Haman, Ralph W., Candlin, and Norby. 2,813,494.
- Candlin, James E., Jr., and W. Van Der Sluys, to Pullman-Standard Car Mfg. Co. Axle steering mechanism. 2,812,725, 11-12-57, Cl. 105-4.
- Candlin, James E., Jr., and W. Van Der Sluys, to Pullman-Standard Car Mfg. Co. Axle steering lock. 2,816,517, 12-17-57, Cl. 105-4.
- Candor, Robert R., to General Motors Corp. Domestic appliances. 2,782,622, 2-6-57, Cl. 68-25.
- Canepa, Agostino. Expansion joint for connecting pipings, especially for scaffolding structures. 2,817,547, 12-24-57, Cl. 287-54.
- Canepa, Luigi, to the Firm Michele Pesce. Non-skid device for pneumatic tires. 2,788,049, 4-9-57, Cl. 152-239.
- Canepa, Michele, to Olivetti Corp. of America. Binary system. 2,781,504, 2-12-57, Cl. 340-174.
- Canepa, Michele, to Olivetti Corp. of America. Decoding apparatus. 2,783,464, 2-26-57, Cl. 340-347.
- Canepa, Michele, to Olivetti Corp. of America. Magnetic keyboard. 2,816,254, 12-10-57, Cl. 317-158.
- Canfield, Albert V. H., to Automatic Switch Co. Differential-piston valve and dual pilot-valve control therefor. 2,775,982, 1-1-57, Cl. 137-620.
- Canfield, Wade E., to The S. K. Wellman Co. Clutch device. 2,794,526, 6-4-57, Cl. 192-69.
- Cann, Edward. Flexible door. 2,783,833, 3-5-57, Cl. 160-354.
- Cannac Research and Development Co.: See—
- Caldwell, Paul. 2,778,712.
- Canning, Frederick N. Window ventilator. 2,779,402, 1-29-57, Cl. 160-102.
- Canning, William P., to Benrus Watch Co., Inc. Self-sizing jointed wrist-encircling bracelet. 2,783,625, 3-5-57, Cl. 63-9.
- Canning, William P., to Benrus Watch Co., Inc. Self-sizing bracelet section or the like with loosely mounted springs. 2,787,893, 4-9-57, Cl. 63-9.
- Cannon, Benjamin B., to Burroughs Corp. Stamp holding device. 2,799,399, 7-16-57, Cl. 211-49.
- Cannon Electric Co.: See—
- Arson, Samuel L. 2,787,770.
- Arson, Samuel L. 2,790,153.
- Cannon, Harry B. Hydraulic conveyor with granular slurry control valve. 2,777,736, 1-15-57, Cl. 302-14.
- Cannon, John I. Safety lock. 2,793,421, 5-28-57, Cl. 70-181.
- Cannon, Lloyd J. Ink feed apparatus. 2,800,385, 7-23-57, Cl. 346-140.
- Cannon, Lloyd J. Method and apparatus for applying coating material. 2,800,418, 7-23-57, Cl. 117-42.
- Cannon, Michael R. Viscometer. 2,805,570, 9-10-57, Cl. 73-55.
- Cannon, R. W., & Co., Inc.: See—
- Cannon, Robert W. 2,793,581.
- Cannon, Robert W., to R. W. Cannon & Co., Inc. Egg handling and turning device. 2,793,581, 5-28-57, Cl. 99-242.

- Canon Camera Co., Inc.: *See*—
Ito, Hiroshi. 2,779,239.
- Canonic, Domenic A.: *See*—
Bredz, Nikolajs, and Canonic. 2,793,115.
- Cantabery, Fred: *See*—
Copenhagen, Elmer L., and Cantabery. 2,791,974.
- Cantello, Carl J. Garment supporter. 2,812,565, 11-12-57, Cl. 24-245.
- Cantello, Carl J. Garment supporter. 2,812,566, 11-12-57, Cl. 24-247.
- Canter, George G. and Gilbert G. Car seal. 2,804,333, 8-27-57, Cl. 292-317.
- Canter, Gilbert G.: *See*—
Canter, George G. and Gilbert G. 2,804,333.
- Canter, James A., to General Motors Corp. Combination valve, water pressure regulator and bubbler. 2,783,083, 2-26-57, Cl. 299-16.
- Canter, James A., to General Motors Corp. Display case for frozen food. 2,784,564, 3-12-57, Cl. 62-89.6.
- Canter, William B., to Dan River Mills, Inc. Finishing celulosic textile fabric. 2,808,341, 10-1-57, Cl. 117-65.
- Caterino, Peter J.: *See*—
Jones, Rufus V., and Caterino. 2,781,331.
- Cantieri, William F., L. S. De Mart, and J. Fogel, to Diamond Power Specialty Corp. Sealing means for soot blowers and the like. 2,804,032, 8-27-57, Cl. 110-179.
- Cantin, Harland J. Electric motor for drape operating mechanism. 2,798,194, 7-2-57, Cl. 318-266.
- Cantley, Joseph C., to United Shoe Machinery Corp. Trimming machines. 2,802,225, 8-13-57, Cl. 12-4.3.
- Cantlin, John H., to Fenwal Inc. Air flow and liquid level detection and control apparatus. 2,782,285, 2-19-57, Cl. 200-122.
- Cantone, Aurelio: *See*—
Capraro, Vittorio, Logemann, and Cantone. 2,786,050.
- Cantor, Edward B. Vaginal medicament applicators. 2,792,003, 5-14-57, Cl. 128-235.
- Cantor, Noah. Envelope closures. 2,810,511, 10-22-57, Cl. 229-77.
- Cantor, Sidney M., and E. L. Wimmer, to The American Sugar Refining Co. Alkaline earth hydroxide fractionation of starch. 2,779,692, 1-29-57, Cl. 127-71.
- Cantrel, Kenneth E.: *See*—
Goodhue, Lyle D., and Cantrel. 2,813,101.
- Cantrell, John, E. P. Degg, and F. L. Nobes, to The Carborundum Co. Metal-ceramic bonded granular material. 2,782,110, 2-19-57, Cl. 51-308.
- Cantrell, Troy L., and H. G. Smith, to Gulf Oil Corp. Detergent lubricating oils. 2,786,030, 3-19-57, Cl. 252-42.7.
- Cantrell, Troy L., J. G. Peters, and H. G. Smith, to Gulf Oil Corp. Detergent lubricating oils. 2,789,092, 4-16-57, Cl. 252-42.7.
- Cantrell, Troy L., and J. G. Peters, to Gulf Oil Corp. Compounded turbine oil. 2,789,952, 4-23-57, Cl. 252-32.7.
- Cantrell, Troy L., and J. G. Peters, to Gulf Oil Corp. Lubricant compositions. 2,805,998, 9-10-57, Cl. 252-51.5.
- Cantrell, Troy L., J. G. Peters, and H. G. Smith, to Gulf Oil Corp. Resinous products and lubricant compositions containing them. 2,810,697, 10-22-57, Cl. 252-42.7.
- Canty, Roy A., and P. C. Lakin, to P. R. Mallory & Co., Inc. Sealing apparatus for electrical unit. 2,809,331, 10-8-57, Cl. 317-230.
- Cantz, Rudolf, and A. Nowak, to Telefunken Gesellschaft fuer drahtlose Telegraphie G. m. b. H. Constant-gain amplifier system. 2,808,505, 10-1-57, Cl. 250-20.
- Canupp, Joseph T.: *See*—
Macon, John I., Canupp, and Koonts. 2,813,410.
- Caparone, Michael J., to Robertshaw-Fulton Controls Co. Combined pilot and ignition control device. 2,800,544, 7-23-57, Cl. 200-61.186.
- Capco Products Co., Inc.: *See*—
Freeman, Lawrence A. 2,800,306.
- Cape, Arthur T.: *See*—
Zampieri, Enrico M., and Cape. 2,803,538.
- Cape, Arthur T., to Superweld Corp. Method of removing copper from brazed joints. 2,779,674, 1-29-57, Cl. 75-101.
- Cape, Arthur T., to Coast Metals, Inc. Hard facing alloys. 2,801,164, 7-30-57, Cl. 75-126.
- Cape, Arthur T., to Coast Metals, Inc. Tungsten carbide weld rods. 2,806,129, 9-10-57, Cl. 219-146.
- Capell, Richard L., to Dubell Enterprises, Inc. Bag filling and weighing apparatus. 2,817,488, 12-24-57, Cl. 249-63.
- Capell, Robert G., C. Karr, Jr., and W. D. Weatherford, Jr., to Gulf Research & Development Co. Fractionation of crude petroleum oil. 2,776,250, 1-1-57, Cl. 196-147.
- Capell, Robert G., C. Karr, Jr., and W. D. Weatherford, Jr., to Gulf Research & Development Co. Fractionation of shale oil by elution chromatography. 2,779,718, 1-29-57, Cl. 196-147.
- Capell, Robert G., and P. R. Templin, to Gulf Research & Development Co. Petroleum wax compositions. 2,816,845, 12-17-57, Cl. 106-270.
- Capelle, Arthur C. Television alignment tool. 2,817,985, 12-31-57, Cl. 81-3.
- Capewell Mfg. Co., The: *See*—
Craven, Wilbur J. 2,799,078.
- Capras, René A. Portable elevating system, in particular for motor vehicles. 2,792,913, 5-21-57, Cl. 187-8.41.
- Capital Products Corp.: *See*—
Temple, Hiram E. 2,801,728.
Temple, Hiram E. 2,809,739.
Temple, Hiram E. 2,810,609.
- Capitani, Arnold P. Fastening means. 2,809,729, 10-15-57, Cl. 189-88.
- Capitol Products Corp.: *See*—
Booth, William K. 2,783,545.
Boston, John A. 2,804,026.
Finney, William E., and Whisler. 2,780,005.
Jorgenson, Gerald A. 2,804,190.
Rhodes, Herbert C. 2,783,719.
Rhodes, Herbert C. 2,788,752.
Temple, Hiram E. 2,799,231.
Whitfield, Joseph E. 2,788,799.
Whitfield, Joseph E. 2,792,763.
- Caples, Donald B., and R. B. Willoughby, to Shell Development Co. Magnetic position locating and controlling probe and system. 2,785,592, 3-19-57, Cl. 77-64.
- Caplinger, William R. Box with closure fastening means. 2,812,102, 11-5-57, Cl. 220-55.
- Capo, Libero: *See*—
Goodbar, Isaac, and Capo. 2,805,382.
- Capocci, Leonardo, deceased; A. Bruno, administratrix, to L. Capocci. Holder for brooms and the like. 2,778,588, 1-22-57, Cl. 248-112.
- Capocci, Luisa: *See*—
Capocci, Leonardo. 2,778,588.
- Capodanno, Anthony V. Coin bank and packaging device. 2,802,325, 8-13-57, Cl. 53-254.
- Cappelle, Norman D., and R. R. English, to Oak Mfg. Co. Index mechanism. 2,800,808, 7-30-57, Cl. 74-527.
- Cappello, Alfred. Portable seat. 2,797,740, 7-2-57, Cl. 155-133.
- Capps, David B., to The Chemstrand Corp. Solutions of polycaprolactam in dimethyl sulfoxide and method of making same. 2,806,829, 9-17-57, Cl. 260-30.8.
- Capps, Frank R. Fluid pump. 2,792,790, 5-21-57, Cl. 103-178.
- Capps, James H., to General Electric Co. Dual-voltage alternating-current motor. 2,808,554, 10-1-57, Cl. 318-221.
- Capps, Paul D., and V. A. Zike, to International Staple and Machine Co. Conveyor centering device. 2,815,111, 12-3-57, Cl. 198-29.
- Capraro, Vittorio, W. Logemann, and A. Cantone, to Carlo Erba S. p. A. Process for the preparation of a heparin. 2,786,050, 3-19-57, Cl. 260-211.
- Caprino, Joseph C.: *See*—
Goodwin, Paul A., and Caprino. 2,792,378.
- Capstick, Robert B.: *See*—
Kenney, Harry W., Waugh, and Capstick. 2,783,818.
- Caputo, James V., and T. J. Crawford. Electrical brush. 2,790,100, 4-23-57, Cl. 310-227.
- Carabasse, Joseph: *See*—
Guizon, Jean, Carabasse, Salmon, Matis, and Nobecourt. 2,805,848.
- Carabel, Morton A.: *See*—
Wilson, Woodrow S., Carabel, and Malick. 2,793,795.
Wilson, Woodrow S., Carabel, and Malick. 2,800,259.
- Carani, Charles P., and J. Harrington, Jr., to United Shoe Machinery Corp. Machines for cutting, forming and applying electrical components and the like. 2,791,772, 5-14-57, Cl. 1-2.
- Carapellotti, Charles J. Scissors type crown cap remover. 2,778,254, 1-22-57, Cl. 81-3.46.
- Carapellotti, Lawrence T., to the United States of America as represented by the Secretary of the Navy. Sono-buoy stabilizer. 2,790,186, 4-30-57, Cl. 9-8.
- Caraway, Robert R. Reel type mower with power driving attachment. 2,783,601, 3-5-57, Cl. 56-26.
- Carbary, Richard J., to General Electric Co. Rotating receptacle structure for household refrigerators. 2,795,474, 6-11-57, Cl. 312-305.
- Carbary, Richard J., to General Electric Co. Cabinet including retractable caster device. 2,803,510, 8-20-57, Cl. 312-253.
- Carbauh, Robert E., to Petcar Research Corp. Flame detector system. 2,804,608, 8-27-57, Cl. 340-227.
- Car Blocking Inc.: *See*—
Reheis, Harry L. 2,812,728.
- Carbogen Corp.: *See*—
Christmann, Ludwig J. 2,802,011.
- Carboline Co.: *See*—
Bruins, Paul F., and Dorn. 2,782,175.
- Carbon Heater Corp.: *See*—
Bremer, Hermann F. 2,776,359.
Kasuga, Tenuo. 2,790,890.
Vassiliev, Vladimir M. 2,783,355.
- Carbone, William E., Jr., to Carroll Dunham Smith Pharmacal Co. Liquid dispensing device. 2,803,270, 8-20-57, Cl. 141-322.
- Carboni, Rudolph A., to E. I. du Pont de Nemours and Co. 3,6-bis-(aliphatic fluorohydrocarbon)-s-tetrazines, their 1,2-dihydro derivatives and methods for their preparation. 2,817,662, 12-24-57, Cl. 260-241.
- Carbonic Dispenser, Inc.: *See*—
Welty, Frank. 2,779,515.
- Carbonic Products, Inc.: *See*—
Martin, James W. 2,798,032.
- Carbonless Copytaper Corp.: *See*—
Berill, Carroll. 2,803,331.

- Carborundum Co., The: *See*—
 Cantrell, John, Degg, and Nobes. 2,782,110.
 Hummel, Floyd A. 2,785,080.
 Loria, Edward A. 2,785,970.
 Nicholson, Kenneth C. 2,784,112.
 O'Neil, Joseph R., Jr., and Buell. 2,805,136.
 Taylor, Kenneth M. 2,776,218.
 Taylor, Kenneth M. 2,808,314.
 Upper, Frederick A., and Denton. 2,808,044.
- Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Circulating pulse decoder. 2,806,950, 9-17-57, Cl. 250-27.
- Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Circulating pulse coders. 2,806,997, 9-17-57, Cl. 332-11.
- Carden, James W. Mercury switch. 2,783,339, 2-26-57, Cl. 200-152.
- Carden, Lynn A. Key and change carrier. 2,788,042, 4-9-57, Cl. 150-40.
- Cardi, Paul. Pressure equalizing valve. 2,789,617, 4-23-57, Cl. 152-415.
- Cardin, Wilfred W.: *See*—
 Mascioli, Walter A., Epstein, and Cardin. 2,813,168.
- Cardin, Wilfred W., to Metals & Controls Corp. Thermostatic device. 2,813,171, 11-12-57, Cl. 200-113.
- Cardinal, Daniel E., Jr. Hook for apertured board. 2,790,616, 4-30-57, Cl. 248-217.
- Cardinal, Durand D., and T. V. Ellis. Machine for sorting objects according to size. 2,807,365, 9-24-57, Cl. 209-84.
- Cardis Mfg. Co., Inc.: *See*—
 Carlson, Donald R. 2,779,524.
- Cardo Chemical Corp.: *See*—
 Tate, Henry C. 2,814,313.
- Cardon, Paul B., to Minerals Refining Co. Rotary digester. 2,776,877, 1-8-57, Cl. 23-290.5.
- Cardona, Carlos J., to Fairchild Engine and Airplane Corp. Pressure vessel. 2,809,762, 10-15-57, Cl. 220-3.
- Cardone, Eugene. Fused plug construction. 2,808,485, 10-1-57, Cl. 200-115.5.
- Cardone, Frank: *See*—
 Passidomo, Pasquale, and Cardone. 2,803,070.
- Cardone, Joseph T.: *See*—
 Shepard, Alvin F., Cardone, and Jacobson. 2,797,204.
 Shepard, Alvin F., Cardone, and Jacobson. 2,813,843.
- Cardot, Jean, and J. Le Corre, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain. Formation of hollow articles. 2,790,994, 5-7-57, Cl. 18-5.
- Cardot, Jean, and J. Le Corre, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain. Apparatus for formation of hollow articles. 2,792,591, 5-21-57, Cl. 18-5.
- Cardox Corp.: *See*—
 Hesson, James C. 2,798,365.
 Hesson, James C., and Smith. 2,794,395.
- Cardoze, Donald E.: *See*—
 Bard, Larry A., Cardoze, and Hellstrom. 2,809,515.
- Cardwell Clutch and Brake, Inc.: *See*—
 Cardwell, Harland W., and Smoll. 2,805,744.
- Cardwell, Harland W., and R. M. Smoll, to Cardwell Clutch and Brake, Inc. Friction plate for fluid pressure operated clutch or brake. 2,805,744, 9-10-1957, Cl. 192-85.
- Cardwell, Paul H., and P. D. Muir, to The Dow Chemical Co. Acidizing wells. 2,778,427, 1-22-57, Cl. 166-42.
- Cardwell, Paul H., L. H. Eilers, and A. R. Hendrickson, to The Dow Chemical Co. Well treatment composition. 2,794,779, 6-4-57, Cl. 252-8.55.
- Cardwell, Paul H., L. H. Eilers, and A. Park, to The Dow Chemical Co. Well treatment. 2,802,531, 8-13-57, Cl. 166-42.
- Cardwell Westinghouse Co.: *See*—
 Campbell, David S. 2,776,759.
 Campbell, David S. 2,789,811.
 Campbell, David S. 2,810,484.
 Campbell, David S. 2,811,263.
 Campbell, David S. 2,814,392.
 Campbell, David S. 2,817,445.
 Housman, Richard J. 2,810,485.
 Peterson, Bertil E. 2,806,611.
 Watson, Millard O. 2,789,810.
- Carew, Herman, to American Can Co. Automatic dispenser control system. 2,815,774, 12-10-57, Cl. 141-174.
- Carew, William F.: *See*—
 Crossley, Frank A., and Carew. 2,801,167.
- Carey, Albert L., to Kirsch Co. Automatic die feeder. 2,797,087, 6-25-57, Cl. 271-2.4.
- Carey, Charles L. Portable sun bath enclosure. 2,785,695, 3-19-57, Cl. 135-1.
- Carey, Charles O. Anti-theft alarm. 2,810,361, 10-22-57, Cl. 116-33.
- Carey, Edward G., to George W. Rogers Construction Corp. Marine fender. 2,780,919, 2-12-57, Cl. 61-48.
- Carey, Talmage G. Hair rewaving device. 2,809,644, 10-15-57, Cl. 132-42.
- Carey, Walter E. Tape index. 2,802,290, 8-13-57, Cl. 40-2.
- Carfagni, Arthur B. Multi-purpose dental tool. 2,776,490, 1-8-57, Cl. 32-40.
- Cargill, Inc.: *See*—
 MacMillan, John H., Jr. 2,784,691.
- Cargill, Jeffrey M., to Bryant Chucking Grinder Co. Concentricity gages for threaded workpieces. 2,806,294, 9-17-57, Cl. 33-199.
- Cargle, William R. Vehicle yieldable light mounting. 2,781,443, 2-12-57, Cl. 240-8.2.
- Carissimi, Louis C., to Sperry Rand Corp. Combined cord spool and shaver support. 2,778,486, 1-22-57, Cl. 206-16.
- Carissimi, Louis C., to Sperry Rand Corp. Dry shaver cutter heads. 2,793,430, 5-28-57, Cl. 30-43.
- Carl, Alfred: *See*—
 Heyna, Johannes, Carl, and Wagner. 2,784,204.
- Carlberg, Robert E., F. W. Sieve, and R. De Masi. Missile launcher. 2,792,757, 5-21-57, Cl. 89-1.7.
- Carlbom, Marshall B., to Roll-O-Motiv Systems, Inc. Stackable means for collapsible table. 2,805,110, 9-3-57, Cl. 311-39.
- Carle, Guy F., and B. M. Baker, to Engineering Laboratories, Inc. Apparatus for earth boring with pressurized air. 2,783,971, 3-5-57, Cl. 255-4.
- Carleton, George M.: *See*—
 Fingerhut, Solomon, and Carleton. 2,815,801.
- Carleton, Henry, to the United States of America as represented by the Secretary of the Army. Scratch recorder. 2,787,513, 4-2-57, Cl. 346-49.
- Carley, William S., to the United States of America as represented by the Secretary of the Navy. Pulse polarity reversing circuit for negative input pulses. 2,785,342, 3-12-57, Cl. 315-168.
- Carlier, Desire: *See*—
 Guilleminot, Roger, and Carlier. 2,811,916.
- Carlile, Alfred E., to Talon, Inc. Releasable slider. 2,794,230, 6-4-57, Cl. 24-205.15.
- Carlin, Charles H. Bird cages. 2,817,314, 12-24-57, Cl. 119-17.
- Carlin, Robert, and E. B. Heckenkamp, to Allis-Chalmers Mfg. Co. Traction boosting power lift system. 2,777,375, 1-15-57, Cl. 97-46.07.
- Carling, Arthur R., to Carling Electric, Inc. Slide switches. 2,785,240, 3-12-57, Cl. 200-16.
- Carling Electric, Inc.: *See*—
 Carling, Arthur R. 2,785,240.
- Carling Turbine Blower Co.: *See*—
 Carlson, Arnold R., and A. R., Jr. 2,809,823.
- Carlisi, Carmen S., and L. Klier, said Klier to said Carlisi. Non-foaming self-cleaning automatic beverage dispenser. 2,810,407, 10-22-57, Cl. 141-90.
- Carlisle, Benjamin H., to The Clark Controller Co. Magnetic amplifiers and control systems. 2,798,170, 7-2-57, Cl. 307-112.
- Carlisle, Benjamin H., to The Clark Controller Co. Magnetic amplifiers and control systems. 2,809,305, 10-8-57, Cl. 307-154.
- Carlisle Chemical Works, Inc.: *See*—
 Mack, Gerry P., and Parker. 2,809,956.
- Carlisle, Kenneth R., to Hughes Aircraft Co. Card feed station. 2,806,695, 9-17-57, Cl. 271-11.
- Carlisle, Richard W., to Sonotone Corp. Piezoelectric transducers. 2,786,899, 3-26-57, Cl. 179-110.
- Carlo Erba S. p. A.: *See*—
 Capraro, Vittorio, Logemann, and Cantone. 2,786,050.
- Carlsen, Christian S. Cleats for concrete form moldboards. 2,791,819, 5-14-57, Cl. 25-131.
- Carlsen, Earl W., and D. L. Hunter, to Fruit Industries Research Foundation. Fruit packing apparatus. 2,797,540, 7-2-57, Cl. 53-35.
- Carlsen, Knud J.: *See*—
 Jensen, Viggo, and Carlsen. 2,798,727.
- Carlsen, Leonard O.: *See*—
 Johnson, Olaf A., and Carlsen. 2,811,781.
- Carlsen, Leonard O., to The Gleason Works. Machine for generating gears. 2,775,921, 1-1-57, Cl. 90-3.
- Carlsen, Leonard O., and W. C. Critchley, to The Gleason Works. Wheel dresser. 2,778,353, 1-22-57, Cl. 125-11.
- Carlsen, Leonard O., and H. A. Male, to The Gleason Works. Gear cutting machine with automatic loader. 2,782,689, 2-26-57, Cl. 90-1.
- Carlsen, Leonard O., W. C. Critchley, and H. Pedersen, to The Gleason Works. Grinding machine and wheel dresser thereof. 2,792,672, 5-21-57, Cl. 51-33.
- Carlsen, Leonard O., and H. A. Male, to The Gleason Works. Gear cutting machine spindle mounting. 2,792,764, 5-21-57, Cl. 90-16.
- Carlsen, Leonard O., and E. D. Dammert, to The Gleason Works. Cutter sharpening machine. 2,804,722, 9-3-57, Cl. 51-33.
- Carlsen, Leonard O., and E. D. Dammert, to The Gleason Works. Wheel dressing device. 2,804,867, 9-3-57, Cl. 125-11.
- Carlsen, Leonard O., and H. A. Male, to The Gleason Works. Work holding mechanism. 2,812,186, 11-5-57, Cl. 279-2.
- Carlsen, Leonard O., and O. A. Johnson, to The Gleason Works. Grinding machine for sharpening cutters and the like. 2,814,166, 11-26-57, Cl. 51-33.
- Carlson, Arnold E.: *See*—
 Carlson, George B., A. O., and A. E. 2,804,194.
- Carlson, Arnold R., and A. R., Jr., to Carling Turbine Blower Co. Control mechanism for speed-governing apparatus. 2,809,823, 10-15-57, Cl. 264-3.
- Carlson, Arnold R., Jr.: *See*—
 Carlson, Arnold R., and A. R., Jr. 2,809,823.
- Carlson, Arthur E. Method of making reinforced sheet material. 2,780,572, 2-5-57, Cl. 154-93.
- Carlson, Arthur E. Gummed paper. 2,786,789, 3-26-57, Cl. 154-53.5.
- Carlson, Arthur S.: *See*—
 Carlson, George B., A. O., and A. E. 2,804,194.
 Greenspan, Joseph, and Carlson. 2,797,983.

- Carlson, Arthur W.: *See*—
Spades, Joseph F., and Carlson. 2,806,964.
- Carlson, Arthur W., to E. H. Sheldon & Co. Furniture pedestal base. 2,780,431, 2-5-57, Cl. 248—194.
- Carlson, Bert G., and A. L. Judson, to Iron Fireman Mfg. Co. Gyroscope control system. 2,780,104, 2-5-57, Cl. 74—5.43.
- Carlson, Carl B., to Thornton-Carlson. Confectionary coating apparatus. 2,785,650, 3-19-57, Cl. 118—18.
- Carlson, Carl E.: *See*—
Warner, Frederick P., and Carlson. 2,794,419.
- Carlson, Carl G., and H. T. W. Schulz, to Husqvarna Vapenfabriks Aktiebolag. Powder presses. 2,796,633, 6-25-57, Cl. 18—16.5.
- Carlson, Carl O., to Bendix Aviation Corp. Wide deviation reactance tube modulator circuit. 2,782,375, 2-19-57, Cl. 332—28.
- Carlson, Carl O., $\frac{1}{2}$ to A. Johnson. Volume booster for water systems. 2,817,848, 12-31-57, Cl. 4—26.
- Carlson, Carl S.: *See*—
Morrell, Charles E., Carlson, and Stewart. 2,788,315.
- Carlson, Charles H., to Rockford Inventors, Inc. Pin and hoop game. 2,776,140, 1-1-57, Cl. 273—100.
- Carlson, Chesley F. Punching device having work positioning locating pins. 2,776,712, 1-8-57, Cl. 164—86.
- Carlson, Chester F., to The Battelle Development Corp. Method of fixing electrostatic powder image. 2,776,907, 1-8-57, Cl. 117—17.5.
- Carlson, Chester F., to The Battelle Development Corp. Apparatus for developing xerographic image. 2,815,734, 12-10-57, Cl. 118—51.
- Carlson, David J.: *See*—
Pan, Wen Y., and Carlson. 2,803,745.
- Carlson, David J., to Radio Corp. of America. Signal coupling system. 2,799,008, 7-9-57, Cl. 333—70.
- Carlson, David J., to Radio Corp. of America. Signal coupling system. 2,817,064, 12-17-57, Cl. 333—24.
- Carlson, Donald E.: *See*—
Tomlinson, William E., and B. L., and Carlson. 2,792,207.
- Carlson, Donald R., to Cardis Mfg. Co., Inc. Trunk luggage rack. 2,779,524, 1-29-57, Cl. 224—42.08.
- Carlson, Elmer T.: *See*—
Constantine, Arthur R., and Carlson. 2,786,908.
- Carlson, Emil. Keyboard attachment for electrically operated musical instruments. 2,779,225, 1-29-57, Cl. 84—171.
- Carlson, Emil, to Pioneer Specialty Co. Extensible antenna. 2,796,221, 6-18-57, Cl. 242—54.
- Carlson, Ernest C., to International Harvester Co. Reciprocating cutting assembly with counterbalanced drive. 2,796,720, 6-25-57, Cl. 56—306.
- Carlson, Frank A., Jr., to Monsanto Chemical Co. Process of making foamed resins. 2,797,443, 7-2-57, Cl. 18—48.
- Carlson, Frank A., Jr., to Monsanto Chemical Co. Method for preventing moisture condensation on cold pipes. 2,797,731, 7-2-57, Cl. 154—41.
- Carlson, George B., A. O., and A. E. Barn cleaning apparatus. 2,804,194, 8-27-57, Cl. 198—230.
- Carlson, Gilbert F., to Bell & Gossett Co. Drain and vacuum breaker valve. 2,810,398, 10-22-57, Cl. 137—588.
- Carlson, Gunnar V., to Wisco Aluminum Corp. Window frame construction. 2,780,327, 2-5-57, Cl. 189—75.
- Carlson, Gustav A., to The Boye Needle Co. Knitting needle and pick-up pin combination. 2,807,945, 10-1-57, Cl. 66—117.
- Carlson, Gustav R., and F. W. Cook, Jr., to The New Britain Machine Co. Fixture for a boring machine or the like. 2,814,215, 11-26-57, Cl. 77—4.
- Carlson, Harold A., to ACF Industries, Inc. Throttle control for two-stage carburetor. 2,793,843, 5-28-57, Cl. 261—23.
- Carlson, Harold A., and J. T. W. Moseley, to ACF Industries, Inc. Two stage carburetion system. 2,783,032, 2-26-57, Cl. 261—23.
- Carlson, Harold A., and J. T. W. Moseley, to ACF Industries, Inc. Secondary throttle control for two-stage carburetor. 2,790,631, 4-30-57, Cl. 261—23.
- Carlson, Harold A., and O. J. Eickmann, to ACF Industries, Inc. Two-stage carburetion system. 2,798,703, 7-9-57, Cl. 261—23.
- Carlson, Harold C. R. Spring winding apparatus having a carriage advancing rack with blank tooth portion. 2,792,870, 5-21-57, Cl. 153—67.
- Carlson, Harold C. R. Apparatus for testing torsion springs. 2,799,162, 7-16-57, Cl. 73—161.
- Carlson, Harold G., and A. C. Hupp, to General Electric Co. Voltage sensing device. 2,800,621, 7-23-57, Cl. 321—8.
- Carlson, Harrison C., to E. I. du Pont de Nemours and Co. Recovery of NH_3 from a gaseous mixture containing NH_3 and HCN . 2,797,148, 6-25-57, Cl. 23—196.
- Carlson, Harry R.: *See*—
La Jeunesse, Russell S. 2,813,383.
- Carlson, Hilding C., to American Steel Foundries. Brake beam. 2,782,882, 2-26-57, Cl. 188—225.6.
- Carlson, Hjalmar. Bottle closures. 2,781,931, 2-19-57, Cl. 215—95.
- Carlson, John I., to Carlson Tool & Machine Co. Wire feeding device. 2,776,004, 1-1-57, Cl. 164—49.
- Carlson, John T., to R. C. Allen Business Machines, Inc. Ribbon feed mechanism. 2,815,110, 12-3-57, Cl. 197—151.
- Carlson, Martin, to G. W. Housley, Jr. Power actuating means for swinging door. 2,789,814, 4-23-57, Cl. 268—66.
- Carlson, Marvin J., to Tractomotive Corp. Tractor mounted tong loader. 2,776,768, 1-8-57, Cl. 214—147.
- Carlson, Morris W., and M. D. Tupper, to General Electric Co. Non-bouncing snap switch. 2,802,076, 8-6-57, Cl. 200—67.
- Carlson, Oscar E. Bi-directional electronic motor speed control. 2,787,748, 4-2-57, Cl. 318—257.
- Carlson, Oscar E. Positive feed consumable electrode device. 2,789,244, 4-16-57, Cl. 314—72.
- Carlson, Oscar E. Constant horsepower motor control and indicating circuits. 2,809,338, 10-8-57, Cl. 318—308.
- Carlson, Paul B. Overshot shovel loader. 2,799,410, 7-16-57, Cl. 214—140.
- Carlson, Raymond L., to Westinghouse Electric Corp. Velocity responsive controls. 2,803,261, 8-20-57, Cl. 137—114.
- Carlson, Reuben C., to Admiral Corp. Phonograph record player. 2,780,465, 2-5-57, Cl. 274—10.
- Carlson, Reuben C., to Admiral Corp. Phonograph record player spindle. 2,781,198, 2-12-57, Cl. 274—10.
- Carlson, Russell R. Bale elevator. 2,807,351, 9-24-57, Cl. 198—122.
- Carlson, Stina S. B.: *See*—
Rahm, Stina S. B. 2,809,143.
- Carlson, Theodore F. Steering gear idler arm assemblies. 2,809,049, 10-8-57, Cl. 280—95.
- Carlson, Thomas A., Jr. Combination hot water mixer and steam trap. 2,807,421, 9-24-57, Cl. 236—12.
- Carlson Tool & Machine Co.: *See*—
Carlson, John I. 2,776,004.
- Carlson, Virgil H. Dies and die presses. 2,784,762, 3-12-57, Cl. 153—48.
- Carlson, Waldo B., and W. H. Lewis. Portable ash tray. 2,812,891, 11-12-57, Cl. 229—16.
- Carlson, Wyman I., to Green Giant Co. Machine for handling husked green corn. 2,791,330, 5-7-57, Cl. 209—88.
- Carlsson, Bengt O., and F. F. Eisner, to Skove Gasbetong Aktiebolag. Manufacture of building materials of the concrete type. 2,803,556, 8-20-57, Cl. 106—98.
- Carlsson, Carl G.: *See*—
Sundén, Olof, and Carlsson. 2,782,149.
- Carlstedt, Birger J. Calculator. 2,797,046, 6-25-57, Cl. 235—71.
- Carlstedt, Phillip G., to Hannifin Corp. Mounting for drain valve in molded bowl. 2,786,643, 3-26-57, Cl. 251—144.
- Carlstedt, Ragnar L., to DHB Corp. Boring machines for metal. 2,795,977, 6-18-57, Cl. 77—4.
- Carlston, Earl F.: *See*—
Lum, Funston G., and Carlston. 2,776,950.
- Carlstrom, Robert E. Pressure seal. 2,781,943, 2-19-57, Cl. 220—46.
- Carlton, Kirkendall, and H. V. Eastling, to Link-Belt Co. Water intake screen. 2,804,209, 8-27-57, Cl. 210—158.
- Carlzen, Carl F., and W. L. Lehner, to Sylvania Electric Products Inc. Article handling apparatus. 2,779,385, 1-29-57, Cl. 154—1.6.
- Carmack, Marvin, to E. I. du Pont de Nemours and Co. Polymeric polyethers from bis-quaternary ammonium compounds and difunctional phenolic compounds. 2,784,173, 3-5-57, Cl. 260—47.
- Carman, Justice N., Jr., and E. E. Maiden, to Hughes Aircraft Co. Point contact semiconductor devices and methods of making same. 2,818,536, 12-31-57, Cl. 317—236.
- Carman, Nicholas W. Electrical contact point assembly. 2,805,292, 9-3-57, Cl. 200—30.
- Carmichael, George N.: *See*—
De Ganahl, Carl, Kleiner, and Carmichael. 2,815,309.
- Kleiner, Walter B., Carmichael, and de Ganahl. 2,815,043.
- Carmichael, Robert D., to Southern State Equipment Corp. Sliver coiler. 2,799,056, 7-16-57, Cl. 19—159.
- Carmichael, Robert D., and T. A. Burdshaw, to Southern States Equipment Corp. Electric switch. 2,810,799, 10-22-57, Cl. 200—48.
- Carmichael, Robert D., and C. W. Walter, to Southern States Equipment Corp. Sliver coiler. 2,816,328, 12-17-57, Cl. 19—159.
- Carmichael, Thomas F.: *See*—
Andreae, Maynard R., Carmichael, and Sturgeon. 2,780,249.
- Carmichael, Thomas F., and E. G. Sturgeon, to Synco Corp. Vibratory power tool. 2,786,950, 3-26-57, Cl. 310—17.
- Carmody, Don R., and A. Zletz, to Standard Oil Co. Liquid hydrocarbon rocket propellant. 2,778,188, 1-22-57, Cl. 60—35.4.
- Carmody, Don R., and A. Zletz, to Standard Oil Co. Liquid hydrocarbon rocket fuel. 2,778,189, 1-22-57, Cl. 60—35.4.
- Carmody, Don R., E. A. Mayerle, and A. Zletz, to Standard Oil Co. Rocket propulsion method. 2,810,257, 10-22-57, Cl. 60—35.4.
- Carmody, Michael A.: *See*—
Gregg, Robert M. 2,798,734.
- Carnation Co.: *See*—
Loo, Ching C. 2,793,953.
- Carneck, Robert C., to The General Industries Co. Motor brush mountings. 2,780,744, 2-5-57, Cl. 310—239.
- Carnegie Institute of Technology: *See*—
Derge, Gerhard. 2,798,018.
- Carnell, Woodrow W. Oil bath and power transfer chain case. 2,783,654, 3-5-57, Cl. 74—216.5.
- Carnes, Francis J. Tire side wall striping device. 2,782,757, 2-26-57, Cl. 118—301.
- Carnes, Gladys B.: *See*—
Brown, Charles H. 2,783,557.
- Brown, Charles H. 2,783,560.

- Carney, Charles E. Note pad holder. 2,797,935, 7-2-57, Cl. 281-44.
- Carney, Charles S., to Collins Radio Co. Servosystem including phase sensitive amplifier. 2,808,550, 10-1-57, Cl. 318-30.
- Carney, Clifford R. Method of treating furs. 2,807,557, 9-24-57, Cl. 117-141.
- Carney, Delmar E.: *See—*
La Plante, James F., and Carney. 2,804,981.
- Carney, Dennis J., to United States Steel Corp. Corrosion-resistant austenitic steel not requiring nickel. 2,778,731, 1-22-57, Cl. 75-123.
- Carney, Dennis J., to United States Steel Corp. Flue-dust sinter and method of manufacture. 2,780,536, 2-5-57, Cl. 75-5.
- Carney, Dennis J., and B. R. Queneau, to United States Steel Corp. Method of controlling the formation of crystals in molten metal as it solidifies. 2,778,079, 1-22-57, Cl. 22-215.
- Carney, Duane A., to Collins Radio Co. Wide band phase shifter. 2,791,744, 5-7-57, Cl. 323-109.
- Carney, John F. Chain saw. 2,798,517, 7-9-57, Cl. 143-135.
- Carney, Samuel C., to Phillips Petroleum Co. Colloidal sulfur process. 2,795,557, 6-11-57, Cl. 252-313.
- Carnine, Arthur A., and L. C. Miller; said Miller assor. to said Carnine. Sorting machine. 2,812,079, 11-5-57, Cl. 214-11.
- Carnine, Robert L., to Raymond M. Wilmotte, Inc. Frequency sensitive visual indicator. 2,810,883, 10-22-57, Cl. 324-78.
- Caroff, Joseph. Kite and kite package. 2,783,958, 3-5-57, Cl. 244-153.
- Carolina Knitting Machine Corp.: *See—*
Hart, Gene E., and Metcalf. 2,785,553.
- Carolina Rubber Hose Co.: *See—*
Smith, Miles J. 2,796,169.
- Caron, Gerard E. Automatic silo spreader with driven spout suspending race member. 2,808,295, 10-1-57, Cl. 302-60.
- Caronia, Frank J., to Carswe Associates, Inc. Method of cleaning rugs. 2,789,031, 4-16-57, Cl. 8-158.
- Carosella, Michael C.: *See—*
Jacobs, James H., Carosella, and Culbertson. 2,805,195.
- Carothers, Melvin M. Water actuated time delay switch. 2,794,880, 6-4-47, Cl. 200-84.
- Carothers, William D.: *See—*
McLean, Leland O. 2,807,374.
- Carpenter, Albert J., to The Cleveland Tapping Machine Co. Drill head spindle drive construction. 2,796,767, 6-25-57, Cl. 74-22.
- Carpenter, Chester P., to Westinghouse Electric Corp. Color television receiver. 2,785,221, 3-12-57, Cl. 178-5.4.
- Carpenter, Clayton A., to Union Oil Co. of California. Well heater. 2,792,895, 5-21-57, Cl. 166-61.
- Carpenter, Clayton A., to Union Oil Co. of California. Well heater. 2,794,504, 6-4-57, Cl. 166-61.
- Carpenter, Darcel E. Self-locking turn buckle. 2,797,943, 7-2-57, Cl. 287-60.
- Carpenter, Douglas H., to J F D Mfg. Co., Inc. Interference eliminating antenna system. 2,804,618, 8-27-57, Cl. 343-814.
- Carpenter, Erwin L.: *See—*
Christopher, George L., Carpenter, and Spector. 2,798,882.
Christopher, George L., Carpenter, and Spector. 2,798,884.
Spector, Marshall L., Christopher, and Carpenter. 2,784,236.
- Carpenter, George E. Fireplace construction. 2,796,858, 6-25-57, Cl. 126-62.
- Carpenter, Henry G., to Elliott Brothers (London) Ltd. Electric logic circuits. 2,792,495, 5-14-57, Cl. 250-27.
- Carpenter, Herbert C. Paint brush and bristle adjusting means therefor. 2,787,016, 4-2-57, Cl. 15-202.
- Carpenter, Keith H.: *See—*
Chellis, Fred F., and Carpenter. 2,802,451.
- Carpenter, Louis B., Jr., and A. L. Smith, to Gulf Oil Corp. Two-zone production. 2,811,924, 11-5-57, Cl. 103-4.
- Carpenter, Marion S., W. M. Easter, Jr., and T. F. Wood, to The Givaudan Corp. Substituted tetrahydronaphthalene aldehydes. 2,800,511, 7-23-57, Cl. 260-599.
- Carpenter, Marion S., W. M. Easter, Jr., and T. F. Wood, to The Givaudan Corp. Alkyl substituted hydrindacenones. 2,815,381, 12-3-57, Cl. 260-590.
- Carpenter, Marion S., W. M. Easter, Jr., and T. F. Wood, to The Givaudan Corp. Alkyl-substituted tetrahydronaphthindanones. 2,815,382, 12-3-57, Cl. 260-590.
- Carpenter, Otis R., to The Babcock & Wilcox Co. Method of making fusion weld sealed pressure joint. 2,785,459, 3-19-57, Cl. 29-470.5.
- Carpenter, Paul G., to Phillips Petroleum Co. Gas lift valve and control system. 2,777,398, 1-15-57, Cl. 103-232.
- Carpenter, Paul G., to Phillips Petroleum Co. Automatic "kick-off" rocking means for gas lift well. 2,797,648, 7-2-57, Cl. 103-232.
- Carpenter, Polli, to Loop Fabrics, Inc. Scarf. 2,806,222, 9-17-57, Cl. 2-91.
- Carpenter, Rupert E. H.: *See—*
Rommel, Frederick, and Carpenter. 2,811,602.
- Carpenter, Rupert E. H. Instrument suspension. 2,786,164, 3-19-57, Cl. 317-198.
- Carpenter, Rupert E. H. Polarised electromagnetic relays and like devices. 2,816,976, 12-17-57, Cl. 200-93.
- Carpenter Steel Co., The: *See—*
Kegerise, Wesley R. 2,816,830.
- Carpenter, Walter E., to Westinghouse Electric Corp. Diffusing reflecting coating and method of preparing same. 2,810,660, 10-22-57, Cl. 117-18.
- Carpentiere, Rudolph E., to Williams & Hussey Machine Corp. Hold-down rollers for planers and the like. 2,780,254, 2-5-57, Cl. 44-249.
- Carper, Earl R. Dispensing device. 2,789,725, 4-23-57, Cl. 221-56.
- Carper, Harold R., 35 $\frac{2}{3}$ % to C. F. Spickelmier, 32 $\frac{3}{4}$ % to E. S. Greer and 32 $\frac{3}{4}$ % to B. S. Spickelmire. Power actuated block clamping apparatus and method. 2,804,893, 9-3-57, Cl. 144-303.
- Carpi, Colin C. Fluid operated cultivator. 2,793,576, 5-28-57, Cl. 97-40.
- Carpinella, Michael J., to Scovill Mfg. Co. Belt buckle with slidable gripper element. 2,800,697, 7-30-57, Cl. 24-77.
- Carr, Adams & Collier Co.: *See—*
Gill, Harvey J., Jr. 2,779,683.
- Carr, Edward L., to The Firestone Tire & Rubber Co. Acceleration of vulcanization by means of N-mono-tertiary-alkyl-thiazoline-2-sulfenamides. 2,779,809, 1-29-57, Cl. 260-788.
- Carr, Edward W., G. E. Hansen, and J. Adelman, to Crane Co. Two-way check valve. 2,791,228, 5-7-57, Cl. 137-107.
- Carr, George W. Automatic garment conveyor. 2,796,165, 6-18-57, Cl. 198-26.
- Carr, Howard W. Storm shutter. 2,777,174, 1-15-57, Cl. 20-40.
- Carr Industries: *See—*
Stratton, Paul E., Jr. 2,783,054.
- Carr, James P., to Food Machinery and Chemical Corp. Wheel aligning gauge. 2,780,875, 2-12-57, Cl. 33-203.18.
- Carr, James P., and C. J. Griffith, to Food Machinery and Chemical Corp. Pumping apparatus. 2,787,403, 4-2-57, Cl. 222-178.
- Carr, Joseph P.: *See—*
Dusablon, Arthur, and Carr. 2,808,677.
- Carr, Joseph P., to Evans Case Co. Fishing lure. 2,787,860, 4-9-57, Cl. 43-42.39.
- Carr, Kelly B., and M. R. Spindler, to Techkote Co. Inc. Mixing and metering valve assembly. 2,814,471, 11-26-57, Cl. 259-4.
- Carr, Montford B., to American Enka Corp. Identifying and segregating yarn in different parts of yarn packages. 2,798,282, 7-9-57, Cl. 28-75.
- Carr, William C. Trimming tool. 2,809,864, 10-15-57, Cl. 299-60.
- Carr, William H.: *See—*
Johnson, Quentin S., and Carr. 2,810,960.
- Carrara, Gino. Process for the manufacture of 1-p-nitrophenyl-2-amino-1,3-propanediol of three form. 2,776,312, 1-1-57, Cl. 260-570.6.
- Carrara, Gino, to Lipetit S. p. A. Alpha-bromo-beta(5-nitro-2-thienyl)acrolein. 2,799,686, 7-16-57, Cl. 260-332.3.
- Carrara, Gino, to Lepetit S. p. A. Compositions for combating cough. 2,808,360, 10-1-57, Cl. 167-65.
- Carrasco, John A., and G. G. Bauman. Elevating unit positioning tool. 2,790,566, 4-30-57, Cl. 214-95.
- Carrasco, Kathleen C. Cover for a loose leaf notebook or the like. 2,778,397, 1-22-57, Cl. 150-1.6.
- Carraway, William M., and L. E. Tedder. Night fishing device. 2,798,330, 7-9-57, Cl. 43-17.
- Carrell, Ross M., to Radio Corp. of America. Sound translating systems. 2,816,165, 12-10-57, Cl. 179-1.
- Carrick, Charles W., to Ventrolo Mfg. Co. Ventilator conduit and shutter assembly. 2,785,622, 3-19-57, Cl. 93-116.
- Carrick, Vinton D., and N. B. Swanson. Ash tray. 2,815,881, 12-10-57, Cl. 220-35.
- Carrick, Virgil P., C. F. Martin, W. W. Freedle, and R. L. York. Leverage type upholstery tensioner. 2,800,665, 7-30-57, Cl. 5-51.
- Carrier Conveyor Corp.: *See—*
Carrier, Robert M., Jr. 2,776,741.
Carrier, Robert M., Jr., and Morris. 2,797,796.
Morris, John M. 2,795,318.
Morris, John M. 2,806,583.
- Carrier Corp.: *See—*
Allen, William A. 2,809,498.
Antrim, William D. 2,812,807.
Ashley, Carlyle M. 2,812,531.
Brown, Seymour W. 2,787,128.
Davis, Keith T. 2,776,117.
Davis, Keith T. 2,776,118.
Leonard, Louis H., Jr., and Bourne. 2,809,497.
Palmatier, Everett P. 2,810,272.
Schmeling, Carl J. 2,800,944.
- Carrier, E. Wendell, to Esso Research and Engineering Co. Ether preparation and recovery from direct hydration of olefins. 2,807,652, 9-24-57, Cl. 260-614.
- Carrier, John A., to Sanitary Products Corp. Methods of making tampons. 2,799,055, 7-16-57, Cl. 19-144.5.
- Carrier, Robert M., Jr., to Carrier Conveyor Corp. Discharge gate. 2,776,741, 1-8-57, Cl. 198-220.
- Carrier, Robert M., Jr., and J. M. Morris, to Carrier Conveyor Corp. Balancing vibrating conveyors. 2,797,796, 7-2-57, Cl. 198-220.
- Carrington, George L., and A. Badmaieff, to Altec Lansing Corp. Control system. 2,802,116, 8-6-57, Cl. 307-31.

- Carriol, Louis A., to "S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques." Combined valve and shut-off means therefor. 2,787,294, 4-2-57, Cl. 141-209.
- Carriol, Louis A., to S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques. Fluid dispensing apparatus with automatic flow arresting means. 2,796,090, 6-18-57, Cl. 141-198.
- Carriol, Louis A., to "S. A. T. A. M., Societe Anonyme pour Tous Appareillages Mecaniques." Fluid distributing and metering instruments. 2,797,025, 6-25-57, Cl. 222-20.
- Carriol, Louis A., to S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques. Device for filling a receptacle, comprising automatic stopping means. 2,802,491, 8-13-57, Cl. 141-209.
- Carriol, Louis A., to S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques. Filling device with automatic arresting means. 2,805,690, 9-10-57, Cl. 141-217.
- Carriol, Louis A., L. A. Mountford, and I. J., to S. A. T. A. M., Societe Anonyme pour Tous Appareillages Mecaniques. Method and apparatus for distributing a mixture of several liquids. 2,810,495, 10-22-57, Cl. 222-1.
- Carroll, Ance E. Conveyor for handling pulverized uranium. 2,800,219, 7-23-57, Cl. 198-229.
- Carroll, Burt H., to Eastman Kodak Co. Stabilization of emulsions sensitized with onium compounds. 2,784,090, 3-5-57, Cl. 96-107.
- Carroll, Burt H., and N. F. Beach, to Eastman Kodak Co. 4-hydroxy-6-alkyl-1,3,3a,7-tetraazindene stabilizers for photographic emulsions sensitized with polyalkylene esters, amides and ethers. 2,784,091, 3-5-57, Cl. 96-108.
- Carroll Chain Co., The. See—
Gantz, Ray D. 2,807,929.
- Carroll, Charles, to Duff-Norton Co. Hoist and safety mechanism therefor. 2,789,791, 4-23-57, Cl. 254-167.
- Carroll, Clarence J. Manhole ventilator. 2,806,417, 9-17-57, Cl. 98-1.
- Carroll Dunham Smith Pharmacal Co.: See—
Neesby, Torben E. 2,815,344.
- Carroll, Elmer J., and F. J. Dymora. Coin inserting machine for cigarette packages. 2,802,323, 8-13-57, Cl. 53-50.
- Carroll, Frank E., Jr., to United Aircraft Products, Inc. Oil tank. 2,793,708, 5-28-57, Cl. 183-25.
- Carroll, Frank E., Jr., and W. C. Klank, Jr., to United Aircraft Products, Inc. Liquid storage tank for use in vehicles. 2,800,975, 7-30-57, Cl. 183-25.
- Carroll, Frank E., Jr., R. S. De Groote, and R. E. Hall, to United Aircraft Products, Inc. Heat exchange apparatus. 2,809,810, 10-15-57, Cl. 257-2.
- Carroll, Fred H. Exhaust muffler. 2,806,548, 9-17-57, Cl. 181-53.
- Carroll, Fred M.: See—
Gurley, Grey M., and Carroll. 2,806,412.
Gurley, Grey M., and Carroll. 2,814,486.
- Carroll, Fred M., and G. M. Curley, to International Business Machines Corp. Strip feed control means in rotary stencil printing means. 2,802,413, 8-13-57, Cl. 101-48.
- Carroll, Howard W. Combination quill chute and picker stick guide. 2,784,745, 3-12-57, Cl. 139-255.
- Carroll, John A.: See—
Newhard, Nelson J., Jr., and Carroll. 2,798,829.
Newhard, Nelson J., Jr., and Carroll. 2,798,830.
- Carroll, John A., and N. J. Newhard, Jr., to American Chemical Paint Co. Process for treating steel, zinc and aluminum to increase corrosion resistance. 2,795,518, 6-11-57, Cl. 148-6.16.
- Carroll, John D., to The Stanley Works. Hinge. 2,786,229, 3-26-57, Cl. 16-169.
- Carroll, John E.: See—
Landis, George G., and Carroll. 2,784,301.
Landis, George G., and Carroll. 2,810,064.
- Carroll, John F. Brake latch attachment. 2,781,673, 2-19-57, Cl. 74-540.
- Carroll, John P.: See—
Armington, Raymond Q., Carroll, Mazzarins, and Williams. 2,786,724.
- Carroll, Martin J., to United States Steel Corp. Apparatus for handling elongated objects. 2,810,480, 10-22-57, Cl. 209-308.
- Carroll, Murray N.: See—
Sprague, Basil S., Carroll, and Roughsedge. 2,777,750.
- Carroll, Raymond C., and P. O. Thompson. Tire adapter means. 2,797,722, 7-2-57, Cl. 152-404.
- Carroll, Robert L. Electronic heat pump. 2,800,772, 7-30-57, Cl. 62-1.
- Carroll, Robert L. Strand tensioning mechanism. 2,813,687, 11-19-57, Cl. 242-154.
- Carroll, William J., Jr.: See—
Rinkenbach, William H., and Carroll. 2,814,555.
Rinkenbach, William H., and Carroll. 2,817,581.
- Carrom Industries, Inc.: See—
Smith, Lee. 2,795,473.
- Carron, Arthur L. Electrically operated key-changing harp mechanism. 2,812,681, 11-12-57, Cl. 84-266.
- Carruth, Walter T., 50% to W. L. Billups. Mattress. 2,810,920, 10-29-57, Cl. 5-91.
- Carruthers, James N., to Kelvin & Hughes Ltd. Fluid current indicators. 2,805,572, 9-10-57, Cl. 73-189.
- Carry-Craft Corp.: See—
Zumbrunnen, Paul. 2,815,849.
- Carscallen, Henry M. Paper cutting device. 2,790,498, 4-30-57, Cl. 164-73.
- Carson, Calvin C. Inside-outside door fastener. 2,801,868, 8-6-57, Cl. 292-202.
- Carson, Clifford C. Fluid flow regulator. 2,778,570, 1-22-57, Cl. 236-1.
- Carson, Elmer H. Newspaper stand. 2,779,064, 1-29-57, Cl. 20-1.7.
- Carson, Frank J., and G. White, to Libbey-Owens-Ford Glass Co. Glass bending apparatus. 2,814,164, 11-26-57, Cl. 49-67.
- Carson, George W., to Motorola, Inc. Tube socket. 2,799,010, 7-9-57, Cl. 339-112.
- Carson, Houston D.: See—
Armstrong, Law L., and Carson. 2,783,783.
- Carson, Robert M. Safety apparatus for fluid-distribution lines. 2,784,959, 3-12-57, Cl. 266-5.
- Carson, Robert N., Jr. Springs and spring assemblies. 2,818,104, 12-31-57, Cl. 155-179.
- Carson, Russell M.: See—
Del Francia, Joel A., and Carson. 2,812,706.
- Carson, Stanley R.: See—
Geyer, Harvey D., and Carson. 2,779,395.
Loring, Thomas W., Carson, and Davis. 2,800,730.
- Carson, Stanley R., to General Motors Corp. Steering wheel. 2,800,731, 7-30-57, Cl. 40-2.2.
- Carson, Thomas H., to Ex-Cell-O Corp. Flow control servo valve. 2,790,427, 4-30-57, Cl. 121-46.5.
- Carstairs, Lindsay S.: See—
Klopstock, Hans. 2,775,765.
Klopstock, Hans. 2,792,571.
Klopstock, Hans. 2,811,073.
- Carstairs, Roy M., and O. Yannello. Vibratory hair brush. 2,806,235, 9-17-57, Cl. 15-22.
- Carstensen, Jens T.: See—
Stirn, Frank E., and Carstensen. 2,804,421.
Stirn, Frank E., and Carstensen. 2,804,424.
- Carstensen, Jens T., K. W. Knight, W. Valentine, and J. F. Weidenheimer, to American Cyanamid Co. Method of coating gelatin capsules with ethyl cellulose. 2,789,920, 4-23-57, Cl. 117-55.
- Carswe Associates, Inc.: See—
Caronia, Frank J. 2,789,031.
- Carswell, Charles D. Vehicle splash guard with hinged detachable sections. 2,809,848, 10-15-57, Cl. 280-154.5.
- Carta, Anthony, to Taca Cable Stripper Mfg. Corp. Cutter for the insulation of cables. 2,778,105, 1-22-57, Cl. 30-91.
- Carter, A. B., Inc.: See—
Chang, Nai Chong, and Langlois. 2,812,795.
- Carter, Andrew G., to Carter Products Co., Inc. Wheel assembly. 2,778,234, 1-22-57, Cl. 74-230.7.
- Carter Bell Mfg. Co.: See—
Welch, Lester M. 2,806,843.
- Carter, Charles A. Paint paddle. 2,777,676, 1-15-57, Cl. 259-144.
- Carter, Clarence F. Apparatus for filling collapsible containers. 2,783,786, 3-5-57, Cl. 141-51.
- Carter, Clarence F. Method and apparatus for filling receptacles. 2,799,465, 7-16-57, Cl. 249-62.
- Carter, Clarence F. Method and apparatus for filling open mouth receptacles. 2,815,621, 12-10-57, Cl. 53-22.
- Carter, Clarence W. Dry placer separator. 2,794,552, 6-4-57, Cl. 200-480.
- Carter, Don E., to Monsanto Chemical Co. Recovery of HCN tetramer. 2,818,423, 12-31-57, Cl. 260-465.5.
- Carter, Edgar B., to Abbott Laboratories. Ferrous chelate compositions for oral administration. 2,816,060, 12-10-57, Cl. 167-68.
- Carter, Finis G., to Ther-Mo Roof, Inc. Method of forming a surface covering. 2,798,822, 7-9-57, Cl. 117-30.
- Carter, George A. Coring machine. 2,788,037, 4-9-57, Cl. 146-52.
- Carter, George E., Jr., to Bomac Laboratories, Inc. Microwave oscillator tuning structure. 2,806,977, 9-17-57, Cl. 315-5.21.
- Carter, Giles F., to E. I. du Pont de Nemours and Co. Descaling metals. 2,794,001, 5-28-57, Cl. 252-156.
- Carter, Giles F., to E. I. du Pont de Nemours and Co. Process and bath for descaling metals. 2,796,366, 6-18-57, Cl. 134-2.
- Carter, Henry J.: See—
Francis, Sidney J., and Carter. 2,782,696.
- Carter, Herman T., to Bell Telephone Laboratories, Inc. Interrupter circuit. 2,812,386, 11-5-57, Cl. 179-99.
- Carter, James B.: See—
McKay, David D. 2,783,352.
- Carter, James H., and T. A. Butler, to the United States of America as represented by the United States Atomic Energy Commission. Separation of uranium from other metals by hydriding and extraction with oxidizing reagents. 2,784,054, 3-5-57, Cl. 23-14.5.
- Carter, James M.: See—
Zwicky, Fritz, Carter, and Ewing. 2,811,431.
Zwicky, Fritz, Ewing, Carter, and Stosick. 2,815,271.
- Carter, James M. Fountain-type car mop. 2,780,821, 2-12-57, Cl. 15-128.
- Carter, James S. F., to Carter & Nansen Co., Inc. Absorption tower. 2,785,961, 3-19-57, Cl. 23-283.
- Carter, John C. G., to Westinghouse Electric Corp. Transmitter control circuit. 2,795,649, 6-11-57, Cl. 179-2.5.
- Carter, John C. G., to Westinghouse Electric Corp. Carrier relaying apparatus. 2,806,184, 9-10-57, Cl. 317-28.
- Carter, John G., to Goodmans Industries Ltd. Moving coil type loudspeakers. 2,818,471, 12-31-57, Cl. 179-115.5.

- Carter, John M., to Westinghouse Electric Corp. Frequency modulated oscillation generator. 2,813,977, 11-19-57, Cl. 250-36.
- Carter, Joseph E.: *See*—
- Tschop, Harry E., Carter, and Goodrich. 2,806,783.
- Carter, Joseph H. Filter pad pick-up device. 2,777,724, 1-15-57, Cl. 293-25.
- Carter, Joseph H. Toy tractor. 2,786,305, 3-26-57, Cl. 46-221.
- Carter, Kenneth. Advertising display device. 2,815,597, 12-10-57, Cl. 40-124.1.
- Carter, Leslie F., to Sperry Rand Corp. Gyroscopic instruments. 2,797,581, 7-2-57, Cl. 74-5.5.
- Carter, Leslie F., to Sperry Rand Corp. Dual period gyro-compass. 2,811,786, 11-5-57, Cl. 33-226.
- Carter Machine & Tool Co.: *See*—
- Endres, Leo J., and Anderson. 2,797,960.
- Carter, Mary E., G. O. Etchison, and H. M. Waddle, to West Point Mfg. Co. Method for comparing dye affinity of textile fibers. 2,817,140, 12-24-57, Cl. 28-72.
- Carter, Melvin A. Multi-sequence switches for display devices and the like. 2,796,472, 6-18-57, Cl. 200-11.
- Carter & Nansen Co., Inc.: *See*—
- Carter, James S. F. 2,785,961.
- Carter, Norman C.: *See*—
- Witt, Donald R., and Carter. 2,781,408.
- Carter, Norman C., and J. S. Cromeans, to Phillips Petroleum Co. Process for isomerization of liquid hydrocarbons. 2,805,269, 9-3-57, Cl. 260-683.5.
- Carter, Otis L. Picker stick check. 2,817,368, 12-24-57, Cl. 139-165.
- Carter, Parke W., to United States Steel Corp. Vibration-resistant support for laboratory balances or the like. 2,812,989, 11-12-57, Cl. 311-39.
- Carter Parts Co.: *See*—
- Protz, Edward H. 2,809,262.
- Sanda, Laddie A. 2,803,717.
- Tyzack, Harold. 2,813,944.
- Carter, Patrick E.: *See*—
- Hacker, Theodore C., Chase, and Carter. 2,808,226.
- Carter, Paul H., to J. Shapiro. Stacker tube for cone cup machine. 2,785,784, 3-19-57, Cl. 193-2.
- Carter, Philip S., to the United States of America as represented by the Secretary of the Army. Large circumference loop antennas. 2,785,396, 3-12-57, Cl. 343-741.
- Carter, Philip S., to the United States of America as represented by the Secretary of the Army. Loop antennas for television signals. 2,818,562, 12-31-57, Cl. 343-742.
- Carter, Philip S., and E. D. Thorne, to Radio Corp. of America. Liquid trap for vertically mounted horn antenna. 2,809,371, 10-8-57, Cl. 343-786.
- Carter Products Co., Inc.: *See*—
- Carter, Andrew G. 2,778,234.
- Carter Products, Inc.: *See*—
- Berger, Frank M., and Plechner. 2,790,747.
- McBean, Douglas M. 2,789,586.
- Carter, Rae S., and E. M. Robinson, said Robinson assor. to said Carter. Electrical connector. 2,796,591, 6-18-57, Cl. 339-31.
- Carter, Richard O. Ball type bearing for rod end. 2,781,238, 2-12-57, Cl. 308-72.
- Carter, Rolla N. Isotope separating apparatus. 2,806,143, 9-10-57, Cl. 250-41.9.
- Carter, Ronald H. A.: *See*—
- Uttley, Albert M., Noble, and Carter. 2,808,983.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Method of and apparatus for use in opening flattened seamless bands. 2,787,104, 4-2-57, Cl. 53-292.
- Carter, Sidnev T., to G. J. Meyer Mfg. Co. Conveyor apparatus for article-processing units. 2,804,961, 9-3-57, Cl. 198-19.
- Carter, Uriel F., to Cutler-Hammer, Inc. Electric switches and parts therefor. 2,781,431, 2-12-57, Cl. 200-83.
- Carter, Uriel F., to Cutler-Hammer, Inc. Electric switch units and adjusting and actuating means therefor. 2,784,272, 3-5-57, Cl. 200-83.
- Carter, Victor M.: *See*—
- Rayburn, Alden G. 2,795,948.
- Carter, William G., to California Packing Corp. Peach peeler. 2,801,659, 8-6-57, Cl. 146-44.
- Cartledge, Frank, to Goodman Mfg. Co. Variable height boring type continuous mining machine. 2,783,037, 2-26-57, Cl. 262-7.
- Cartledge, Frank, to Goodman Mfg. Co. Mining apparatus with rotary cutting and dislodging drum. 2,792,204, 5-14-57, Cl. 262-9.
- Cartledge, John R.: *See*—
- Bruestle, Armin O., Cartledge, and Krekeler. 2,791,413.
- Bruestle, Armin O., Cartledge, and Krekeler. 2,791,414.
- Carton Associates Inc.: *See*—
- Bolding, Hubert V. 2,796,709.
- Carton, Pierre, and A. H. Gosselin, to Societe Chimique de la Grande Parioisse Azote et Produits Chimiques. Method for the catalytic decomposition of hydrocarbons by steam. 2,801,159, 7-30-57, Cl. 48-214.
- Cartwright, Albert D., Jr. Means for transplanting shrubbery and the like. 2,779,111, 1-29-57, Cl. 37-2.
- Cartwright, John R., to The British Tabulating Machine Co. Ltd. Relay adding circuits. 2,787,415, 4-2-57, Cl. 235-61.
- Cartwright, John R., to The British Tabulating Machine Co. Ltd. Analogue to digital converters. 2,796,598, 6-18-57, Cl. 340-205.
- Carufel, Louis D., to Continental Motors Corp. Hydraulic valve control for reversing transmission. 2,781,056, 2-12-57, Cl. 137-624.
- Caruthers, Robert S., to Lenkurt Electric Co., Inc. Frequency correcting method and apparatus. 2,778,877, 1-22-57, Cl. 179-15.
- Carvajal, Fernando, to Schenley Industries, Inc. Production of streptomycin by culture immune to phage. 2,808,364, 10-1-57, Cl. 195-80.
- Carver, Aubrey, and B. H. Butler. Leak-responsive automatic cut-off valve actuator for water heaters or the like. 2,798,503, 7-9-57, Cl. 137-67.
- Carver, Fred S.: *See*—
- Carver, Robert W., and F. S. 2,802,418.
- Carver, Fred S., Inc.: *See*—
- Carver, Robert W., and F. S. 2,802,418.
- Carver, James W., Jr., to R. H. Pierce Mfg. Co. Remote control irrigation system and valve. 2,793,908, 5-28-57, Cl. 299-27.
- Carver, Justin H., to National Malleable and Steel Castings Co. Spring package unit for car trucks. 2,793,030, 5-21-57, Cl. 267-9.
- Carver, Lawrence M., to Stelma, Inc. Apparatus for monitoring a plurality of telegraph loops. 2,808,457, 10-1-57, Cl. 178-69.
- Carver, Leroy A.: *See*—
- Carver, Royall S. and L. A. 2,784,674.
- Carver, Robert W. Card protecting device and method of making same. 2,788,041, 4-9-57, Cl. 150-39.
- Carver, Robert W., and F. S.; said F. S. Carver to Fred S. Carver, Inc. Method of making combined identification card and printing plate. 2,802,418, 8-13-57, Cl. 101-401.1.
- Carver, Royall S. and L. A. Air separator and equalizer for dredges, including pump primer. 2,784,674, 3-12-57, Cl. 103-113.
- Cary, Alexander C., to Hooper, Kimball & Williams, Inc. Machine for making ice. 2,786,335, 3-26-57, Cl. 62-7.
- Cary, Beecher B., and L. E. Muller, said Muller assor. to General Motors Corp. Retroverted flow muffler. 2,800,973, 7-30-57, Cl. 181-57.
- Cary, Francis H., to B-I-F Industries, Inc. Telemetric apparatus for low and high range values. Re. 24,270, 2-12-57, Cl. 340-184.
- Cary, Francis H., to B-I-F Industries, Inc. Telemetric apparatus. Re. 24,271, 2-12-57, Cl. 340-206.
- Cary, Frank W. Lima bean opener. 2,782,787, 2-26-57, Cl. 130-30.
- Casablanca High Draft Co. Ltd.: *See*—
- Noguera, Joseph. 2,777,168.
- Noguera, Joseph. 2,777,169.
- Noguera, Joseph. 2,797,445.
- Noguera, Joseph. 2,801,449.
- Noguera, Joseph. 2,814,839.
- Casady, Cecil A., and S. K. Wood, 20% to V. J. Lamman; said Wood assor. of 10% to G. Gutherie, 10% to L. Argo, 10% to M. G. L. Cunningham, and 10% to L. Corey, and said Casady assor. of 20% to said Wood. Torque wrench. 2,803,133, 8-20-57, Cl. 73-139.
- Casagrande, Jere J., to Ampex Corp. Recording apparatus and system. 2,802,201, 8-6-57, Cl. 340-174.
- Casalino, Joseph, to Plastic Molded Arts Corp. Double wall container. 2,808,090, 10-1-57, Cl. 150-5.
- Casalino, Joseph, to Plastic Molded Arts Corp. Reinforced double wall container. 2,812,874, 11-12-57, Cl. 215-13.
- Casanov, Lou C.: *See*—
- Miller, Arthur A. 2,795,902.
- Miller, Arthur A. 2,798,342.
- Casanova, Juan G. Fuel feed valves for Diesel engines. 2,815,738, 12-10-57, Cl. 123-27.
- Casanova, Louis A., to Westinghouse Electric Corp. Wide-range saturable-reactor tube-firing circuit. 2,799,000, 7-9-57, Cl. 321-40.
- Casanovas, Blas. Scissors for cutting sheet metal. 2,801,467, 8-6-57, Cl. 30-254.
- Cascades Plywood Corp.: *See*—
- Uschmann, Curt. 2,776,800.
- Uschmann, Curt. 2,786,820.
- Casciana, Ferri: *See*—
- Storin, Gordon K., Lawlor, and Casciani. 2,814,602.
- Casco Products Corp.: *See*—
- Berta, Joseph. 2,781,668.
- Cone, Joseph H. 2,777,225.
- Cone, Joseph H. 2,797,413.
- Heusser, Franklin E. 2,782,279.
- Lehmann, Herbert G. 2,777,224.
- Youhouse, Joseph. 2,780,698.
- Case, Charles B. Bow tie form. 2,777,131, 1-15-57, Cl. 2-154.
- Case, Hela. Nail puller. 2,817,492, 12-24-57, Cl. 254-24.
- Case, J. I., Co.: *See*—
- Beck, Henry E. 2,801,030.
- Greeson, Claret B., and Bushmeyer. 2,778,290.
- Hamilton, Matthew E. 2,783,103.
- Heth, Sherman C. 2,777,273.
- Heth, Sherman C. 2,794,438.
- Heth, Sherman C. 2,800,760.
- Heth, Sherman C. 2,811,006.
- Heth, Sherman C. 2,811,819.
- Irvine, Houston N. 2,811,821.

- Case, J. I., Co.: *See*—Continued
 Jackson, Melvin F. 2,791,284.
 Kline, Harry E. 2,811,972.
 Krause, Norman R. Re. 24,294.
 Meldahl, Waldemar J. 2,812,082.
 Meldahl, Waldemar J. 2,812,083.
 Mungin, James A. 2,811,957.
 Omon, Gene L., and Thayer. 2,800,948.
 Padrick, John R. 2,781,710.
 Padrick, John R. 2,813,389.
 Russell, Stanley D. 2,787,208.
 Russell, Stanley D. 2,791,172.
 Rutter, Alvah E. 2,812,629.
 Schwegler, Roy F. 2,777,376.
 Slick, Fred S. 2,809,359.
 Smith, Carlisle F. 2,779,145.
 Smith, Carlisle F. 2,793,890.
 Wiltsey, Howard E., and Christenson. 2,796,790.
 Talak, John F. 2,815,703.
- Case, Manna D., and E. C. Connelly, to Electro-Snap Switch & Mfg. Co. Actuator for momentary switch. 2,803,490, 10-1-57, Cl. 200-153.
- Case Mfg. Corp.: *See*—
 Young, Willard G. 2,778,029.
- Case, Norton M., to General Electric Co. Adjustable latching mechanism. 2,782,284, 2-19-57, Cl. 200-116.
- Case, Samuel L., to McWane Cast Iron Pipe Co. Method of producing iron. 2,806,779, 9-17-57, Cl. 75-33.
- Casebolt, George S., to American Cyanamid Co. Aqueous urea-formaldehyde starch adhesives and process of making. 2,818,897, 12-31-57, Cl. 260-17.3.
- Casella, Farbwerke Mainkus Aktiengesellschaft: *See*—
 Zerweck, Werner, and Tröskén. 2,816,894.
- Casey, Carl: *See*—
 Poole, Foster M., and Paslay. 2,785,567.
- Casey, Eugene J.: *See*—
 King, Fred T., and Casey. 2,789,700.
- Casey, Francis B.: *See*—
 Russell, Arthur G., Clary, Casey, and Dallon. 2,806,632.
 Russell, Arthur G., Clary, Casey, and Dallon. 2,812,628.
- Casey, Harry L., and A. W. Costello. Hair wave forming device. 2,781,763, 2-19-57, Cl. 132-7.
- Casey, James H., and R. E. McFadden, to The Minnesota Mining and Mfg. Co. Helical tape applying apparatus. 2,804,907, 9-3-57, Cl. 154-1.8.
- Casey, James W.: *See*—
 Hoffman, John H. W. 2,798,607.
- Casey, Robert F.: *See*—
 Katzmann, Fred L., and Casey. 2,794,916.
- Casey, Robert T., to General Electric Co. Automatic circuit breaker. 2,783,330, 2-26-57, Cl. 200-116.
- Casey, Robert T., to General Electric Co. Circuit breaker trip device. 2,786,917, 3-26-57, Cl. 200-116.
- Casey, Stephen M. Window construction. 2,800,207, 7-23-57, Cl. 189-72.
- Casey, William J., III, to American Steel Foundries. Hand brake. 2,782,874, 2-26-57, Cl. 188-59.
- Casey, William J., III, to American Steel Foundries. Rotor brake. 2,792,082, 5-14-57, Cl. 188-59.
- Cash, A. W., Co.: *See*—
 Tinker, Earl E. 2,792,120.
 Tinker, Earl E. 2,798,613.
- Cash, A. W., Valve Mfg. Corp.: *See*—
 Madden, Dean E. 2,789,572.
- Cash, Charles C. Paintbrush holder and scraper. 2,803,374, 8-20-57, Cl. 220-90.
- Cash, Jacob S., and A. B. Hatch, to Bristol Laboratories Inc. Sterilization of media. 2,798,026, 7-2-57, Cl. 195-101.
- Cash, John A., Jr., to Gar Wood Industries, Inc. Airline food loader truck. 2,797,833, 7-2-57, Cl. 214-512.
- Cash, Philip L. Electric door lock for automobiles. 2,802,358, 8-13-57, Cl. 70-283.
- Cashin, Inc.: *See*—
 Albright, Norman J. 2,812,792.
- Cashion, Emerson P., and D. Friddle. Automatic filling rake. 2,791,242, 5-7-57, Cl. 139-260.
- Cashion, Emerson P., and D. Friddle. Automatic temple knife rest. 2,792,850, 5-21-57, Cl. 139-266.
- Casida, John E.: *See*—
 Stahmann, Mark A., Allen, Casida, and Chapman. 2,814,636.
- Caslow, Joseph H., to American Brake Shoe Co. Hydraulic apparatus. 2,809,652, 10-15-57, Cl. 137-106.
- Casner, Ralph, and A. S. Melton. Mud fluid classifier. 2,817,440, 12-24-57, Cl. 209-208.
- Cason, Louis F., and J. B. Rhone, to Tuskegee Institute. Aminoalkyl trimethylsilylbenzoates. 2,789,122, 4-16-57, Cl. 260-448.2.
- Cason, William W. Hair clippers for the ears and nose. 2,801,465, 8-6-57, Cl. 30-29.5.
- Caspe, Saul. Compositions and method for reducing blood sugar concentration. 2,793,977, 5-28-57, Cl. 167-65.
- Casper, Clarence. Fishing lure. 2,783,579, 3-5-57, Cl. 43-42.19.
- Cass, N. D., Co., The: *See*—
 Haselton, Kenneth E. 2,800,827.
- Cass, Oliver W.: *See*—
 Austin, Paul R., and Cass. 2,811,512.
- Cass, Oliver W., to E. I. du Pont de Nemours and Co. Recovery of furfural by preferential absorption of the vapor on solids. 2,779,770, 1-29-57, Cl. 260-347.9.
- Cass, Richard, to Thompson Products, Inc. Variable rate torsion spring. 2,811,347, 10-29-57, Cl. 267-57.
- Cassady, William C. Photographic slide holder and ejector. 2,792,968, 5-21-57, Cl. 221-276.
- Cassart, Karl-Paul: *See*—
 Tobler, August, Cassart, and Schmit. 2,817,886.
- Casse, Marcel. Mechanism for surfacing articles in felt or other material. 2,792,162, 5-14-57, Cl. 223-20.
- Cassella, Farbwerke Mainkur Aktiengesellschaft: *See*—
 Fleischhauer, Richard. 2,786,830.
 Persch, Walther, and Nitz, 2,799,674.
 Riedmaier, Josef, Reim, and Kerth. 2,786,731.
 Ritter, Heinrich. 2,806,021.
 Schwanberger, Emil. 2,782,209.
 Zerweck, Werner, and Kunze. 2,786,839.
 Zerweck, Werner, Stachel, and Kutzsche. 2,805,250.
- Cassidy, Joseph F. Subaqueous harpoon gun. 2,784,712, 3-12-57, Cl. 124-11.
- Cassidy, Robert J., to General Motors Corp. Burner safety control system with purging. 2,781,830, 2-19-57, Cl. 158-28.
- Cassidy, Robert J. Sealed electrical switches. 2,785,251, 3-12-57, Cl. 200-138.
- Casson, Floyd M. Weight controlled net. 2,784,514, 3-12-57, Cl. 43-7.
- Castagnola, Oliver, 1/2 to J. F. Mason. Shoe construction. 2,817,162, 12-24-57, Cl. 36-2.5.
- Castedello, William: *See*—
 Schwartz, Morris, and Castedello. 2,789,205.
 Schwartz, Morris, and Castedello. 2,811,845.
- Castel, Jacques H., to Perforating Guns Atlas Corp. Electrical logging apparatus. 2,782,365, 2-19-57, Cl. 324-34.
- Castelco (Great Britain) Ltd.: *See*—
 Schneider, Hans W. 2,798,907.
- Castell, Louis E.: *See*—
 Manhart, Charles E., and Castell. 2,814,336.
- Castellan, Carl A., to American Viscose Corp. Apparatus for producing reinforced tubing. 2,779,971, 2-5-57, Cl. 18-13.
- Castellan, Carl A., to American Viscose Corp. Viscose composition and method of spinning. 2,792,281, 5-14-57, Cl. 18-54.
- Castellanos, Eduardo F. B. Fruit crusher and juice separator. 2,811,996, 11-5-57, Cl. 146-76.
- Castelli, Charles, to Johnson & Johnson. Pressure sensitive tape dispenser. 2,802,527, 8-13-57, Cl. 164-43.
- Caster, Irving: *See*—
 Feldman, Irving, and Caster. 2,795,367.
- Caster, Irving, and I. Feldman. Box with integral carrying handle. 2,795,368, 6-11-57, Cl. 229-52.
- Caster, Irving, and I. Feldman. Folding box with handle. 2,795,369, 6-11-57, Cl. 229-52.
- Caster, Irving, and I. Feldman. Carton with carrying handle. 2,802,616, 8-13-57, Cl. 229-52.
- Caster, John B., and R. F. Deykin, to Hordern, Mason & Edwards Ltd. Variable throw cranks. 2,790,332, 4-30-57, Cl. 74-571.
- Caster, William F. Mattress handle. 2,782,428, 2-26-57, Cl. 5-345.
- Castex, Andre, to Elektrokemisk A/S. Arrangement for suspension of electrodes. 2,816,861, 12-17-57, Cl. 204-225.
- Castillo, Julio C.: *See*—
 Phillips, Arthur P., and Castillo. 2,780,577.
- Castle Offset-Printing Corp.: *See*—
 Eisner, Jack. 2,799,391.
- Castonguay, Louis P. Potato eye remover. 2,790,275, 4-30-57, Cl. 51-166.
- Castro, Manuel. Key holder. 2,793,523, 5-28-57, Cl. 70-456.
- Castro, Peter S.: *See*—
 Curry, Arnet A., and Castro. 2,784,263.
- Castrow, Jacob W., 1/2 to G. Altman. Variable speed devices. 2,816,458, 12-17-57, Cl. 74-679.
- Caswell, Benson E., to Keyes Fibre Co. Packaging case for Pilsener glasses. 2,815,856, 12-10-57, Cl. 206-65.
- Caswall, Robert D., to Libbey-Owens-Ford Glass Co. Glass door construction. 2,777,173, 1-15-57, Cl. 20-16.
- Caswell, Arthur S., to I-T-E Circuit Breaker Co. Tool for spinning eyelets from one side. 2,781,934, 2-19-57, Cl. 218-38.
- Caswell, Roy J. Means for atomizing fluids. 2,802,652, 8-13-57, Cl. 261-64.
- Catalano, Antonio. Ignition coil and support therefor. 2,792,443, 5-14-57, Cl. 174-59.
- Catalano, Victor J., and C. H. Titus, to General Electric Co. High speed high current switch mechanism. 2,795,676, 6-11-57, Cl. 200-155.
- Cataldo, Joseph T., and K. Kadelburg, to International Rectifier Corp. Spring contactor. 2,780,667, 2-5-57, Cl. 174-126.
- Catalin Corp. of America: *See*—
 Noble, Aubrey E., Anness, Hyman, and Roetz. 2,780,096.
- Catalina, Inc.: *See*—
 Anderson, Milo. 2,794,986.
- Cataline, Acial L., to Motor Wheel Corp. Wheel adjustment for lawn mowers. 2,818,270, 12-31-57, Cl. 280-44.
- Catallo, Leo, to Wheel Trueing Tool Co. Diamond set core bit. 2,809,808, 10-15-57, Cl. 255-72.
- Catalytic Construction Co.: *See*—
 Delaplaine, John W. 2,816,943.

- Cate, Barend T. B., and D. J. Holt. Screw holding attachment for screw driving tools. 2,817,377, 12-24-57, Cl. 145-52.
- Cate, Robert M.: *See*—
Willis, Grant N., Cate, and Clary. 2,789,502.
- Caterpillar Tractor Co.: *See*—
Corser, John, and Grooss. 2,804,702.
Gardner, Charles W. 2,801,758.
Kupfert, Bernard F., and Page. 2,814,513.
Risk, Norman E. 2,784,508.
McCarthy, John H., and Risk. 2,782,656.
Wagner, Harold H. 2,777,328.
- Caterson, Alan G.: *See*—
Kelly, John C. R., Jr., and Caterson. 2,776,887.
- Catford, Adrian L., to D. Napier & Son Ltd. Fuel injection apparatus for reciprocating internal combustion engines. 2,790,433, 4-30-57, Cl. 123-140.
- Cathcart, John A.: *See*—
Fowler, William F., Jr., and Cathcart. 2,794,742.
- Cathcart, Richard C., to Askania Regulator Co. Polyphase high torque dynamic wattmeters. 2,778,997, 1-22-57, Cl. 324-107.
- Cathey, William B. Tractor steering assembly with means to release the wheels for free casting movement. 2,808,269, 10-1-57, Cl. 280-93.
- Cathodeon Ltd.: *See*—
Townsend, Frederick H., and Mitchell. 2,809,315.
- Catholic Protection Service: *See*—
Thorn, Floyd B., Jr., and Doremus. 2,805,987.
- Catlin, Arthur W., to Manitowoc Shipbuilding Co. Recuperator construction. 2,786,666, 3-26-57, Cl. 263-32.
- Catlin, Dick E. Low pressure indicator for tires. 2,798,449, 7-9-57, Cl. 116-34.
- Catlin, Robert T., and C. C. Clair, to Remington Arms Co., Inc. Template for use with a stud driver. 2,780,810, 2-12-57, Cl. 1-44.5.
- Catlin, Robert T., and N. M. Reed, to Remington Arms Co., Inc. Holder for expanding workpiece. 2,790,972, 5-7-57, Cl. 1-44.5.
- Catlin, Willard E., and J. C. Thomas, to E. I. du Pont de Nemours and Co. Cyclopentadienyliron and hydrocarbon-substituted cyclopentadienyliron carbonyl compounds. 2,810,736, 10-22-57, Cl. 260-439.
- Caton, Clyde N. Trip stakes for logging trucks. 2,788,225, 4-9-57, Cl. 280-145.
- Catry, Jean, and R. Humblot, to Fairbairn Lawson Combe Barbour Ltd. Circular looms. 2,808,071, 10-1-57, Cl. 139-13.
- Cattaraugus Cutlery Co.: *See*—
Champlin, Philip T. 2,799,930.
- Catterall, William E., to Esso Research and Engineering Co. Carbonylation of olefins; water decobating. 2,779,794, 1-29-57, Cl. 260-604.
- Catterall, William E., to Esso Research and Engineering Co. Dehydration of isopropanol. 2,787,586, 4-2-57, Cl. 202-42.
- Catterall, William E., to Esso Research and Engineering Co. Hydrolysis of ethyl sulfate. 2,818,444, 12-31-57, Cl. 260-639.
- Cattermole, Kenneth W., to International Standard Electric Corp. Electric pulse generators employing semiconductors. 2,807,719, 9-24-57, Cl. 250-36.
- Catz, Fred: *See*—
Weir, Franklin T., Catz, and Gartner. 2,815,206.
- Caubet, Jacques, to Papeteries De France. Injector device. 2,785,019, 3-12-57, Cl. 302-50.
- Caudle, Howard P. Holder for paintings. 2,815,600, 12-10-57, Cl. 41-4.
- Caudmont, Albert E.: *See*—
Branchu, Paul J., and Caudmont. 2,783,524.
- Cauffman, John. Preformed structural units. 2,792,164, 5-14-57, Cl. 228-58.
- Caughill, Robert F.: *See*—
Holmes, John R., Godfrey, and Caughill. 2,796,239.
- Caughill, Robert F., to General Motors Corp. Heat exchangers for fluids. 2,782,008, 2-19-57, Cl. 257-198.
- Caulk, L. D., Co., The: *See*—
Glenn, John F., Clancy, and Brenneeman. 2,794,016.
- Causse, Antoine R. Shock absorber with compressible piston. 2,788,867, 4-16-57, Cl. 188-88.
- Cauwenberg, Winfred J.: *See*—
Magri, Ralph J., Jr., Marcot, and Cauwenberg. 2,798,048.
- Cavage, George T. Curtain tie-back mechanism. 2,817,400, 12-24-57, Cl. 160-349.
- Cavaliere, Bart: *See*—
Bertorello, Jack, and Cavaliere. 2,795,818.
- Cavallier, Jean, to Compagnie de Pont-A-Mousson. Speed change mechanism. 2,795,972, 6-18-57, Cl. 74-759.
- Cavallito, Chester J., and A. P. Gray, to Irwin, Neisler and Co. Bis-dialkylaminoalkylene bis-polycyclic ammonium salts. 2,783,237, 2-26-57, Cl. 260-293.
- Cavallito, Chester J., to Irwin, Neisler and Co. Veratrum alkaloids and recovery thereof. 2,789,977, 4-23-57, Cl. 260-236.
- Cavallito, Chester J., A. P. Gray, and W. L. Archer, to Irwin Neisler and Co. TROPENE derivatives. 2,804,460, 8-27-57, Cl. 260-292.
- Cavallito, Chester J., and A. P. Gray, to Irwin, Neisler and Co. 1-(2-ethyl-1,2,3,4-tetrahydroisoquinolinium)-3-(trimethylammonium)-propane disalts. 2,806,850, 9-17-57, Cl. 260-286.
- Cavallito, Chester J., and A. P. Gray, to Irwin, Neisler and Co. Quaternary ammonium salts or pyridindole derivatives. 2,814,624, 11-26-57, Cl. 260-293.
- Cavallito, Chester J., and A. P. Gray, to Irwin, Neisler and Co. Omega-haloalkyl quaternary ammonium salts and preparation thereof. 2,817,664, 12-24-57, Cl. 260-293.
- Cavanagh, George C., to Ranchers Cotton Oil. Extraction and refining of glyceride oils and fats from source materials thereof. 2,789,120, 4-16-57, Cl. 260-426.
- Cavanagh, Herbert F. Pull toy. 2,795,081, 6-11-57, Cl. 46-103.
- Cavanagh, Patrick E., to Ontario Research Foundation. Method of reducing metal oxides. 2,790,710, 4-30-57, Cl. 75-34.
- Cavanaugh, Arthur A. Nailing machine. 2,806,219, 9-17-57, Cl. 1-46.
- Cavanaugh, Edward F., to Armour and Co. Preparation of lipoproteins. 2,794,796, 6-4-57, Cl. 260-112.
- Cavanaugh, Edwin J. Rotary reel mower with a caster wheel assembly. 2,794,308, 6-4-57, Cl. 56-26.
- Cavanaugh, James R., deceased; M. Cavanaugh, administratrix. Umbrella opening device. 2,775,976, 1-1-57, Cl. 135-20.
- Cavanaugh, James R., to M. M. Cavanaugh, as trustee. Electrical signaling system for vehicles. 2,788,406, 4-9-57, Cl. 200-61.27.
- Cavanaugh, Joseph C. Support. 2,807,028, 9-24-57, Cl. 4-185.
- Cavanaugh, Mildred: *See*—
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- Cave, Robert J.: *See*—
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- Caverley, Donald D. Wall rack. 2,805,779, 9-10-57, Cl. 211-96.
- Caviller, Albert C. Internal combustion engine cylinder. 2,809,873, 10-15-57, Cl. 309-2.
- Cavin, Victor C., W. H. Acker, and P. M. Waddill, to Phillips Petroleum Co. Process and apparatus for flash distillation. 2,805,981, 9-10-57, Cl. 196-77.
- Cavitron Corp.: *See*—
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- Cawein, Madison, to Diamond Power Specialty Corp. Automatic selector system. 2,809,298, 10-8-57, Cl. 250-214.
- Cawl, Allen P.: *See*—
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- Cawley, John D., to Eastman Kodak Co. Synthesis of terpenoid materials. 2,816,117, 12-10-57, Cl. 260-34.9.
- Cawood, Richard L., to The Patterson Foundry & Machine Co. Cover plate closure. 2,795,349, 6-11-57, Cl. 220-31.
- Cawood, Richard L., to The Patterson Foundry & Machine Co. Plug valve and plug valve combination. 2,806,602, 9-17-57, Cl. 210-172.
- Cayet, Maurice C., to Procédes Sauter. Thermostatic heating control systems. 2,782,291, 2-19-57, Cl. 219-20.
- Cayot, Lynn B., to Commonwealth Co. Laundry drier. 2,814,130, 11-26-57, Cl. 34-82.
- Cayot, Lynn B., to Commonwealth Co. Wall furnace. 2,818,059, 12-31-57, Cl. 126-110.
- Cayton, Inc.: *See*—
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- Cayzac, Jacques, to North American Philips Co., Inc. Frequency discriminator circuit arrangement for ultra high-frequency oscillations. 2,805,334, 9-3-57, Cl. 250-27.
- Cecil, Albert J. N. Cigarette and cigar extinguisher. 2,796,870, 6-25-57, Cl. 131-256.
- Cecil, Howard F. Shipping and storage container. 2,817,431, 12-24-57, Cl. 206-7.
- Ceco Steel Products Corp.: *See*—
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- Cedar Engineering, Inc.: *See*—
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- Cedarblad, Harold. Fish gaff. 2,799,527, 7-16-57, Cl. 294-26.
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- Cederquist, Karl N.: *See*—
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- Cederberg, Nels C. Animal holding device. 2,787,982, 4-9-57, Cl. 119-98.
- Cederholm, Carl I. Measuring device. 2,781,584, 2-19-57, Cl. 33-138.
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 Celorio Mendoza, Fausto. Machines for treating dough. 2,791,975, 5-14-57, Cl. 107-14.
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 Cervelli, Blanche. Applicator for hair-treating solutions. 2,803,031, 8-20-57, Cl. 15-248.
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 Chadwick, David H., to Monsanto Chemical Co. Aryl sulfones and method of producing same. 2,781,402, 2-12-57, Cl. 260-607.
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- Chaiken, Hyman F. Method of improving and correcting construction of dentures and shield therefor. 2,790,237, 4-30-57, Cl. 32-2.
- Chaikin, Isidore A. Canasta board. 2,792,228, 5-14-57, Cl. 273-148.
- Chaimowicz, Adam, to Compagnie des Machines Bull (Societe Anonyme). Reading device controlled by magnetic record cards. 2,781,972, 2-19-57, Cl. 235-61.11.
- Chaimowicz, Adam, to Compagnie des Machines Bull (Societe Anonyme). Data recording system. 2,784,392, 3-5-57, Cl. 340-174.
- Chaimowicz, Adam, to Compagnie des Machines Bull (Societe Anonyme). Electronic calculating device. 2,785,854, 3-19-57, Cl. 235-61.
- Chaimowicz, Adam, to Compagnie des Machines Bull (Societe Anonyme). Electronic totalizer element. 2,814,441, 11-26-57, Cl. 235-92.
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- Chall, Harold J., and C. S. Balaz, to Friden Calculating Machine Co., Inc. Platen guard for listing adding machine. 2,807,348, 9-24-57, Cl. 197-143.
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- Chalmers, Raymond W., deceased, by E. M. Chalmers, executrix. Wire pallet. 2,778,591, 1-22-57, Cl. 248-120.
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- Chamberlain, Eric A. C., P. L. Waters, and W. S. Robertson, to Coal Industry (Patents) Ltd. Method of froth flotation. 2,778,499, 1-22-57, Cl. 209-166.
- Chamberlain, Frank E. Collapsible tube compressor. 2,815,886, 12-10-57, Cl. 222-93.
- Chamberlain, Harvey H., to General Electric Co. Phase sequence indicator. 2,816,265, 12-10-57, Cl. 324-86.
- Chamberlain, Harvey H., to General Electric Co. Electric translation apparatus. 2,817,819, 12-24-57, Cl. 332-3.
- Chamberlain, John, to United Aircraft Corp. Mass flow measuring device. 2,780,938, 2-12-57, Cl. 73-202.
- Chamberlain, John, to Oldham & Son Ltd. Portable electric battery lamps. 2,794,114, 5-28-57, Cl. 240-113.
- Chamberlain, Royce, and J. C. De Mille. Limbing attachment for power driven chain saws. 2,777,482, 1-15-57, Cl. 143-32.
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- Chamberlin, Gail A. Coin holder. 2,777,575, 1-15-57, Cl. 206-83.
- Chamberlin, Joseph F., and R. A. Westphal. Luggage cart. 2,784,979, 3-12-57, Cl. 280-47.24.
- Chamberlin, Joseph F., and R. A. Westphal, said Westphal assor. to said Chamberlin. Seat for golf cart. 2,800,950, 7-30-57, Cl. 155-78.
- Chamberlin, Reginald H. D., to D. Napier & Son Ltd. Torque transmitting coupling unit for combustion turbine power units. 2,795,110, 6-11-57, Cl. 60-39.75.
- Chamberlin, Richard S., and W. L. Settle. Dental floss dispenser and holder. 2,784,722, 3-12-57, Cl. 132-92.
- Chambers, Alexander M. Gas-liquid contact device. 2,808,246, 10-1-57, Cl. 261-122.
- Chambers, Clarence G., and R. A. Spaulding, to General Motors Corp. Electroless plating. 2,791,516, 5-7-57, Cl. 117-102.
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- Chambers, John E. 2,782,779.
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- Chambers, Harry D., to Armstrong Patents Co. Ltd. Shock absorber with filter. 2,802,550, 8-13-57, Cl. 188-88.
- Chambers, Herbert I.: See—
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- Chambers, Herbert I. Pressure distributing means for wiper blades. 2,792,586, 5-21-57, Cl. 15-245.
- Chambers, John E., to Chambers Corp. Mounting for rotatable gas burner. 2,782,779, 2-26-57, Cl. 126-39.
- Chambers, John M., and L. R. Payne, to Massey-Harris-Ferguson (Sales) Ltd. Depth control mechanism for tractor-mounted implements. 2,782,703, 2-26-57, Cl. 97-46.07.
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- Chambers, Robert M. Magnetic separation device. 2,811,256, 10-29-57, Cl. 209-218.
- Chambers, Robert R., to Sinclair Refining Co. Process of chlorinating diisobutylene. 2,785,207, 3-12-57, Cl. 260-654.
- Chambers, Robert R., to Sinclair Refining Co. Production of alcohols and ethers. 2,803,667, 8-20-57, Cl. 260-614.
- Chambers, Robert R., and R. L. Foster, to Sinclair Refining Co. Isobutylene allylic monochloride. 2,777,883, 1-15-57, Cl. 260-654.
- Chambers, Robert R., and R. L. Foster, to Sinclair Refining Co. Process of chlorinating diisobutylene. 2,783,285, 2-26-57, Cl. 260-654.
- Chambers, Ronald N.: See—
- Hirst, Archie J., and Chambers. 2,794,610.
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- Chamblee, William M. Knee rest for crutch. 2,778,370, 1-22-57, Cl. 135-49.
- Chamlin, Max. Perimeters. 2,779,235, 1-29-57, Cl. 88-20.
- Champagne, Joseph D. Quick release buckle. 2,805,459, 9-10-57, Cl. 24-178.
- Champion, Alexander O., to A. V. Roe Canada Ltd. Pressure regulating and check valve. 2,800,142, 7-23-57, Cl. 137-543.19.
- Champion, Hugh E. Marble table. 2,792,226, 5-14-57, Cl. 273-123.
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- Champlin, Philip T., to Cattaraugus Cutlery Co. Knife. 2,799,930, 7-23-57, Cl. 30-355.
- Champney, Guy W., to Westinghouse Electric Corp. Electrical control apparatus for variable pitch propellers. 2,795,285, 6-11-57, Cl. 170-160.17.
- Chan, Charles E., and A. E. Raynor, to The Babcock & Wilcox Co. Steam generating and superheating unit with recycled gas flow. 2,800,115, 7-23-57, Cl. 122-240.
- Chanaryn, Victor, to Wilmot-Breeden Ltd. Door fastener. 2,806,369, 9-17-57, Cl. 70-135.
- Chance, A. B. Co.: See—
- Bridges, Ronald P. 2,786,121.
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- Chance Vought Aircraft, Inc.: See—
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- Davis, Theodore. 2,805,032.
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- Redmond, William G. 2,787,746.
- Ross, Norman R. 2,816,780.
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- Chancellor, Earl H. Box closing apparatus. 2,810,247, 10-22-57, Cl. 53-287.
- Chancey, Andrew J. Transplanter. 2,799,234, 7-16-57, Cl. 111-3.
- Chandler, Edward F. Universal grinder. 2,783,592, 3-5-57, Cl. 51-92.
- Chandler, Edward F. Panel heating device. 2,799,764, 7-16-57, Cl. 219-34.
- Chandler, Edward F. Solid fuel ramjet projectiles. 2,799,987, 7-23-57, Cl. 60-35.6.
- Chandler, Edward F. Table model dispenser for beer and other beverages. 2,807,392, 9-24-57, Cl. 222-88.
- Chandler, Jasper S., to Eastman Kodak Co. Object supporting gyrotary table. 2,780,135, 2-5-57, Cl. 88-24.
- Chandler Machine Co.: See—
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- Chandler, Milton E., to Pratt & Whitney Co., Inc. Carburetors. 2,809,022, 10-8-57, Cl. 261-39.
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- Rupp, William C. 2,781,093.
- Chandler, Roy L. Actuating mechanism. 2,817,241, 12-24-57, Cl. 74-96.
- Chandler, Wesley M., P. F. Heuser, and K. C. Smith, to Wilbert W. Haase Co. Concrete forms. 2,805,462, 9-10-57, Cl. 25-130.

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- Chaney, Earl J. Process of recovering finely ground limestone from fields of waste limestone. 2,817,582, 12-24-57, Cl. 71-63.
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- Chang, Sheldon S. L., to Robbins & Myers, Inc. Electric motor circuits. 2,784,362, 3-5-57, Cl. 318-103.
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- Clark, James D. 2,776,685.
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- Channon, Kenneth F., Jr., and W. E. Estelle, to McNab, Inc. Conductivity cell. 2,780,773, 2-5-57, Cl. 324-30.
- Chao, Tsai H.: See—
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- Chapin, Earl C., to Monsanto Chemical Co. Process for copolymerizing acenaphthylene with styrene. 2,803,622, 8-30-57, Cl. 260-80.5.
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- Chapla, Steve J. Roller fireplace screen. 2,803,241, 8-20-57, Cl. 126-202.
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- Chaplin, Merle P. 2,808,976.
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- Chaplin, Herbert E., to The Fairey Aviation Co. Ltd. Combined seatback and headrest. 2,812,146, 11-5-57, Cl. 244-122.
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- Chapman, Charles W., to Compression Ignition Ltd. Friction clutches with torsional resilient mountings. 2,782,893, 2-26-57, Cl. 192-76.
- Chapman, Christopher L. C., to Yardney International Corp. Electrode bearing current distribution network and method of producing same. 2,776,331, 1-1-57, Cl. 136-75.
- Chapman, Dave, to Prairie Schooner, Inc. House trailer porch assembly. 2,786,710, 3-26-57, Cl. 296-23.
- Chapman, Dave. Containers for liquids. 2,810,978, 10-29-57, Cl. 41-22.
- Chapman, Dave, B. Dales, H. C. Abrahamsen, and E. M. Gaul, to Whirlpool-Seeger Corp. Fabricated refrigerator door. 2,780,845, 2-12-57, Cl. 20-35.
- Chapman, David C. Life preserver belt. 2,802,222, 8-13-57, Cl. 9-17.
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- Chapman, Galen O. Thermostatic switch. 2,785,250, 3-12-57, Cl. 200-137.
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- Chapman, Lester, to W. F. and John Barnes Co. Article handling machine. 2,791,315, 5-7-57, Cl. 198-32.
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- Chapman, Merlin S. Defroster for an end of an ice forming tube. 2,807,152, 9-24-57, Cl. 62-107.
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- Chapman, Walter R., and S. H. Fairweather, to Thompson Products, Inc. Control system for turbine driven alternators. 2,790,091, 4-23-57, Cl. 290-4.
- Chapman, William N., to Phoenix Trimming Co. Towing device of the bumper attached flexible line type. 2,801,114, 7-30-57, Cl. 280-480.
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- Charest, Wilfred J. Toilet tank flush valve. 2,803,833, 8-27-57, Cl. 4-34.
- Charette, Harry J. Trailer steering device. 2,794,655, 6-4-57, Cl. 280-426.
- Charles, Ethelred J. Pipe cutter. 2,814,867, 12-3-57, Cl. 30-94.
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- Charles, Thomas G., to Allmanna Svenska Elektriska Aktiebolaget. Regulated oscillator. 2,807,720, 9-24-57, Cl. 250-38.
- Charlet, Elphege M.: See—
- Lanneau, Keith P., and Charlet. 2,783,676.
- Charlet, Henry G. Apparatus for freezing fluids. 2,810,268, 10-22-57, Cl. 62-106.
- Charlet, Jean E., to Magor Car Corp. Jacking equipment for highway trailer transportation on railroad flat cars. 2,817,303, 12-24-57, Cl. 105-368.
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- Charney, Joseph. Perforator. 2,805,716, 9-10-57, Cl. 164-89.5.
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- Chartrey, Francis H. Relay annunciator. 2,810,521, 10-22-57, Cl. 235—92.
- Charvat, Robert A., to American Arts & Crafts, Inc. Toy gun. 2,783,588, 3-5-57, Cl. 46—227.
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- Chase Brass & Copper Co., Inc.: *See—*
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- Chase, Ernest E., and W. L. Tibbetts, to Craig Systems, Inc. Tag chopper. 2,800,958, 7-30-57, Cl. 164—50.
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- Chase, Lloyd H., to Giddings & Lewis Machine Tool Co. Measuring device. 2,811,779, 11-5-57, Cl. 33—125.
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- Dietrich, Wilhelm, Mertens, and Wetter. 2,793,999.
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- Lekberg, Robert D., and Hornbeck. 2,809,213.
- Chemold Co.: See—
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- Kreysa, Frank J. 2,776,290.
- Chempatents, Inc.: See—
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- Chodorow, Marvin: *See*—
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 Chodorow, Marvin, to The Board of Trustees of the Leland Stanford Jr. University. Bunching means for particle accelerators. 2,813,996, 11-19-57, Cl. 315-5.42.
- Chodroff, Saul: *See*—
 Wenneis, John M., Cleary, and Chodroff. 2,814,597.
- Choiniere, Joseph A., and L. Prunier, to American Optical Co. Optical benches. 2,803,986, 8-27-57, Cl. 88-1.
- Chombard, Pierre A., to Etat Francais, represented by Monsieur l'Ingenieur General Rouanet, acting on behalf of the Secretary of State for Air. Panel instrument for indicating the direction of flight and the attitude of an aircraft. 2,779,101, 1-29-57, Cl. 53-204.
- Chombard, Pierre A., to Etat Francais, represented by Monsieur l'Ingenieur General Mazor, acting on behalf of the Secretary of State for Defence and Armed Forces. Apparatus for facilitating the piloting of aircraft. 2,796,594, 6-18-57, Cl. 340-27.
- Chombard, Pierre A., to Etat Francais, represented by Monsieur l'Ingenieur General Mazer, acting on behalf of the Secretary of State for Armed Forces (Air). Device for resetting a gyroscope. 2,808,726, 10-8-57, Cl. 74-5.1.
- Chope, Henry R., to Industrial Nucleonics Corp. Measuring system. 2,790,945, 4-30-57, Cl. 318-28.
- Choppinet, Joseph H. G., to La Magneto Belge S. A. Portable mixer. 2,805,050, 9-3-57, Cl. 259-135.
- Chornock, Francis W., to Commercial Solvents Corp. Zinc bacitracin feed supplement. 2,809,892, 10-15-57, Cl. 99-2.
- Chornock, Francis W., to Commercial Solvents Corp. Zinc neomycin. 2,811,481, 10-29-57, Cl. 167-65.
- Chotro, Joseph R. Overload indicator. 2,779,013, 1-22-57, Cl. 340-52.
- Chonings, Leslie C., to Automotive Products Co. Ltd. Servo-assisted liquid pressure braking systems for vehicles. 2,797,665, 7-2-57, Cl. 121-38.
- Chow, Ho: *See*—
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- Chow, Joe Gin-Yung: *See*—
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- Chow, Shou-Hsien, to Burroughs Corp. Magnetic device. 2,794,164, 5-28-57, Cl. 321-68.
- Chow, Woo F.: *See*—
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- Chressanthis, Andrew G., and F. Mural, to Philco Corp. Transistor-detector. 2,807,718, 9-24-57, Cl. 250-31.
- Chrisawn, Earle S., to Williams Furniture Corp. Condensation preventer for veneer joining machine. 2,801,657, 8-6-57, Cl. 144-279.
- Chrisman, Ernest L., to Intercontinental Mfg. Co., Inc. Spotting apparatus. 2,787,900, 4-9-57, Cl. 68-5.
- Christ, Donald. Tape playing musical instrument. 2,784,632, 3-12-57, Cl. 84-1.28.
- Christ, John E.: *See*—
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- Christen, Eugene W., to General Motors Corp. Window regulator safety device. 2,817,512, 12-24-57, Cl. 268-124.
- Christenbery, Dolphus P. Snap-on light socket. 2,800,635, 7-23-57, Cl. 339-99.
- Christensen, Alton O., to the United States of America as represented by the Secretary of the Navy. Frequency shift measuring system. Re. 24,407, 12-17-57, Cl. 324-79.
- Christensen, Alton O., to the United States of America as represented by the Secretary of the Navy. Frequency shift measuring system. 2,802,985, 8-13-57, Cl. 324-79.
- Christensen, Arne H. Gig for spearing fish and frogs. 2,794,668, 6-4-57, Cl. 294-61.

- Christensen, Bruce V., to Clark Equipment Co. Positioning system for tractor shovels and the like. 2,789,712, 4-23-57, Cl. 214-140.
- Christensen, Carl O., to Roll-Rite Corp. Pallet dolly. 2,788,220, 4-9-57, Cl. 280-47.16.
- Christensen, Carl W., E. S. Hammerberg, and R. Chesrown, to Armour and Co. Aliphatic ketone production. 2,813,125, 11-12-57, Cl. 280-593.
- Christensen, Carsten O.: *See*—
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- Christensen, Dan A.: *See*—
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- Christensen, Delbert L., to Flex-O-Glass, Inc. Sectional shipping and display carton. 2,801,739, 8-6-57, Cl. 206-45.11.
- Christensen, Donald W., to Young Radiator Co. Heat exchanger. 2,783,980, 3-5-57, Cl. 257-236.
- Christensen, Edward R.: *See*—
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- Christensen, Edward R., and J. E. Tessieri, to The Texas Co. Fungicidal coating compositions. 2,809,897, 10-15-57, Cl. 106-15.
- Christensen, Edward R., and H. V. Hess, to The Texas Co. Method for separation of organic mixtures. 2,818,449, 12-31-57, Cl. 260-666.
- Christensen, Edwin V., and R. B. Scott, to Lockheed Aircraft Corp. Proportioning and mixing fluid dispensing device. 2,802,648, 8-13-57, Cl. 259-18.
- Christensen, Frants A. Swivel mounting for windows. 2,794,206, 6-4-57, Cl. 16-140.
- Christensen, George O.: *See*—
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- Christensen, George O., to Allis-Chalmers Mfg. Co. Shaft mounting. 2,809,077, 10-8-57, Cl. 308-15.
- Christensen, Henry M. Insulin-albumin compositions. 2,789,080, 4-16-57, Cl. 167-75.
- Christensen, Hermine E.: *See*—
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- Christensen, Jerome J., and H. E. Paint applicator. 2,805,436, 9-10-57, Cl. 15-132.5.
- Christensen, John C., and W. F. Fair, Jr., to Koppers Co., Inc. Marine organism resistant compositions and method of coating structural articles therewith. 2,787,557, 4-2-57, Cl. 117-30.
- Christensen, Leo M. Treatment of safflower oil. 2,786,859, 3-26-57, Cl. 260-428.5.
- Christensen, Lynn J., F. J. Jensen, and D. C. Christofferson, to Chicago Bridge & Iron Co. Automatic vertical welder. 2,794,901, 6-4-57, Cl. 219-126.
- Christensen, Mitchell P.: *See*—
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- Christensen, Niels P. Screw holding attachment for a screw driver. 2,783,800, 3-5-57, Cl. 145-52.
- Christensen, Oscar E. Clarinets. 2,791,145, 5-7-57, Cl. 84-382.
- Christensen, Paul M.: *See*—
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- Christensen, Paul M., to Federal Pacific Electric Co. Automatic circuit breakers. Re. 24,388, 11-5-57, Cl. 200-116.
- Christensen, Paul M., to Federal Electric Products Co. Automatic circuit breaker with calibration provisions. 2,784,278, 3-5-57, Cl. 200-116.
- Christensen, Paul M., to Federal Electric Products Co. Automatic circuit breakers. 2,789,179, 4-16-57, Cl. 200-116.
- Christensen, Paul M., to Federal Electric Products Co. Duplex circuit breaker. 2,810,048, 10-15-57, Cl. 200-168.
- Christensen, Paul M., and D. Wiktor, to Federal Electric Products Co. Circuit breaker. 2,811,605, 10-29-57, Cl. 200-116.
- Christensen, Robert F., to The Creamery Package Mfg. Co. Refrigerant liquid return means. 2,778,195, 1-22-57, Cl. 62-3.
- Christensen, Walter. Sound translating devices. 2,806,905, 9-17-57, Cl. 179-100.41.
- Christensen, William: *See*—
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- Christensen, William, and R. M. Lanspeary, to J. Hartman. Identification camera. 2,809,571, 10-15-57, Cl. 95-31.
- Christenson, Donald J.: *See*—
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- Christenson, Howard W., to General Motors Corp. Automatic transmission for vehicles. 2,792,716, 5-21-57, Cl. 74-472.
- Christenson, Howard W., to General Motors Corp. Manually controlled hydraulically operated clutches. 2,808,138, 10-1-57, Cl. 192-12.
- Christenson, Od W. Carton taping machine. 2,787,396, 4-2-57, Cl. 216-25.
- Christeson, Blaine C., to Anderson Coach Co. Thermo-pressure machine for forming panel assemblies. 2,782,818, 2-26-57, Cl. 144-281.
- Christian, Alfred R. Frame structure for a casket. 2,797,467, 7-2-57, Cl. 27-19.
- Christian, Carl A., and S. J. Murcek, to Westinghouse Electric Corp. Rectifier system. 2,813,243, 11-12-57, Cl. 321-12.
- Christian, Claiborne A.: *See*—
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- Christian, Clarence R. Fishing lure. 2,795,075, 6-11-57, Cl. 43-42.22.
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- Christian, Donald. Board, ball and paddle games. 2,794,639, 6-4-57, Cl. 273-123.
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- Christian, John D., to Monsanto Chemical Co. Imidazolidine-thiones. 2,785,175, 3-12-57, Cl. 260-309.7.
- Christian, John D., to Monsanto Chemical Co. Process for preparation of imidazolidine-thiones. 2,806,036, 9-10-57, Cl. 260-309.7.
- Christian, John D., to Monsanto Chemical Co. Purification of cyclohexanone oxime. 2,816,063, 12-10-57, Cl. 202-39.5.
- Christian, Joseph D. Bearing support and seal for shaft. 2,788,249, 4-9-57, Cl. 308-36.1.
- Christian, Lawrence, to Esso Research and Engineering Co. Apparatus for use in squeeze cementing and the like. 2,795,281, 6-11-57, Cl. 166-120.
- Christian, Lorin M. Mechanism for converting rotary motion to or from reciprocating motion. 2,782,646, 2-26-57, Cl. 74-44.
- Christian, Moss B., and H. F. Ladd, to Chicago Mill & Lumber Co. Glue. 2,784,106, 3-5-57, Cl. 106-154.
- Christian, Raymond A., and A. J. Strachan, to The National Cash Register Co. Paper feeding equipment for accounting machines. 2,788,880, 4-16-57, Cl. 197-114.
- Christian, Raymond A., A. R. Coley, J. H. Crawford, J. R. Ganger, and R. C. Mitchell, to The National Cash Register Co. Front feed carriages for accounting machines. 2,805,748, 9-10-57, Cl. 197-128.
- Christian, Raymond A., A. J. Strachan, and R. C. Mitchell, to The National Cash Register Co. Totalizer controlling mechanism for accounting machines. 2,805,822, 9-10-57, Cl. 235-60.48.
- Christians: *See*—
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- Christians, Perce R. Means to facilitate repairs to television and radio receiving sets. 2,793,091, 5-21-57, Cl. 312-7.
- Christiansen, Andrew L., $\frac{1}{2}$ to A. S. Ostoich. Dicer for canned tuna. 2,795,908, 6-18-57, Cl. 53-123.
- Christiansen, Heinrich Ch.: *See*—
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- Christianson, Wallace A., to General Motors Corp. Railway vehicle steering means. 2,803,199, 8-20-57, Cl. 105-3.
- Christiansson, Stig E. O., to Borås Wärfveri Aktiebolag. Devices for causing automatic lowering in spinning machines and twisting machines with fixed spindle banks and movable ring rails. 2,798,356, 7-9-57, Cl. 57-52.
- Christie, Alfred R. Heat sensitive audible alarm. 2,792,801, 5-21-57, Cl. 116-105.
- Christie, Amos U.: *See*—
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- Christie, Clifford M. Headrest. 2,789,625, 4-23-57, Cl. 155-174.
- Christie, Peter S., L. G. Hall, and F. A. Rutkosky, to North American Aviation, Inc. Glass enclosure. 2,808,355, 10-1-57, Cl. 154-271.
- Christie, Reginald A., to International Harvester Co. Quick detachable transport wheels for windrow harvesters. 2,806,707, 9-17-57, Cl. 280-29.
- Christin, Manuel D. Telephone dials. 2,808,668, 10-8-57, Cl. 40-10.5.
- Christley, Howard J., to General Electric Co. Bed cover. 2,788,532, 4-16-57, Cl. 5-335.
- Christmann, Ludwig J., to Carbogen Corp. Manufacture of allantoin. 2,802,011, 8-6-57, Cl. 260-309.7.
- Christodolu, Constantinos. Coupling for flexible drive sewer cleaner. 2,813,408, 11-19-57, Cl. 64-6.
- Christoff, Chris A., W. F. Collision, E. Nuban, and K. F. Oldenburg, to Clary Corp. Type wheel selecting and print actuating means. 2,818,018, 12-31-57, Cl. 101-93.
- Christoffel, Frank A., to Western Electric Co., Inc. Method of assembling bushings in a shell. 2,779,094, 1-29-57, Cl. 29-445.
- Christoffel, Ivan, to Allied Chemical & Dye Corp. Extraction of pentaerythritol with aqueous acetone. 2,782,918, 2-26-57, Cl. 260-637.
- Christoffel, Ivan, to Allied Chemical & Dye Corp. Fertilizer comprising urea and ammonium hydrogen phosphates. 2,814,556, 11-26-57, Cl. 71-29.
- Christoffersen, Enoch S.: *See*—
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- Christoffersen, Otto. Chalk line holder. 2,802,270, 8-13-57, Cl. 33-85.
- Christofferson, Darwin C.: *See*—
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- Christofferson, Donald F., to International Harvester Co. Row marker. 2,795,180, 6-11-57, Cl. 97-230.
- Christofferson, James, to Columbia Broadcasting System, Inc. Hoist. 2,801,760, 8-6-57, Cl. 214-658.
- Christoph, Peter. Wire suspension. 2,809,029, 10-8-57, Cl. 267-1.
- Christoph, Peter. Frictionless coupling. 2,811,047, 10-27-57, Cl. 74-96.
- Christophel, Joseph C. Control of fluid motor. 2,792,814, 5-21-57, Cl. 121-62.
- Christopher, Daniel E. Motor base. 2,791,126, 5-7-57, Cl. 74-242.13.

- Christopher, Edward F.: *See*—
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- Christopher, George L.: *See*—
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- Christopher, George L., to American Cyanamid Co. Preparation of acrylonitrile. 2,798,883, 7-9-57, Cl. 260—465.3.
- Christopher, George L., E. L. Carpenter, and M. L. Spector, to American Cyanamid Co. Preparation of acrylonitrile. 2,798,882, 7-9-57, Cl. 260—465.3.
- Christopher, George L., E. L. Carpenter, and M. L. Spector, to American Cyanamid Co. Production of acrylonitrile. 2,798,884, 7-9-57, Cl. 260—465.3.
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- Christopher, Glenn B. Cigarette dispenser. 2,813,659, 11-19-57, Cl. 221—234.
- Christopher, Michael. Paint can device. 2,795,405, 6-11-57, Cl. 259—122.
- Christopher, Nathan H. Reading head. 2,806,096, 9-10-57, Cl. 200—46.
- Christopher, Noel A. Pedal controls for self-propelled vehicles. 2,791,302, 5-7-57, Cl. 192—3.
- Christy, James W., and J. McEvoy, to Nutone, Inc. Two-note solenoid operated chime mechanism. 2,799,016, 7-9-57, Cl. 340—392.
- Christy, Orrin E.: *See*—
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- Christy, Paul J., and A. P. Dinsmore, to General Motors Corp. Propeller governor mechanism. 2,782,863, 2-26-57, Cl. 170—160.17.
- Christy, Robert F., and A. M. Weinberg, to the United States of America as represented by the United States Atomic Energy Commission. Light water moderated neutronic reactor. 2,806,819, 9-17-57, Cl. 204—193.2.
- Chriswell, Frederick W., to Pacific Car and Foundry Co. Cast high stake log bunks. 2,805,629, 9-10-57, Cl. 105—160.
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- Weiss, Howard E. 2,802,197.
- Chu, Lan J., to The Gabriel Co. Antenna. 2,778,015, 1-15-57, Cl. 343—770.
- Chu, Lan J., to The Gabriel Co. Wave guide antenna. 2,778,016, 1-15-57, Cl. 343—771.
- Chubb, Alexander A., and M. M. Levy, to The General Electric Co. Ltd. Automatic telephone systems. 2,779,821, 1-29-57, Cl. 179—18.
- Chubb, Melvin F., to The Eagle-Picher Co. Cuprous chloride magnesium battery. 2,817,697, 12-24-57, Cl. 136—91.
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- Chubbuck, Horace A., to Ford Motor Co. Plastic impeller. 2,782,722, 2-26-57, Cl. 103—115.
- Chubbuck, John G., to the United States of America as represented by the Secretary of the Navy. Pulse proportioning dual integrating servo-mechanism. 2,797,666, 7-2-57, Cl. 121—41.
- Chudner, Joseph. Cutting blade adjuster. 2,791,833, 5-14-57, Cl. 30—266.
- Chudyk, Alex B., to Minneapolis-Honeywell Regulator Co. Combustion engine control apparatus. 2,776,536, 1-8-57, Cl. 60—35.6.
- Chupa, John C., to The Barr Rubber Products Co. Method of making inflated articles. 2,812,551, 11-12-57, Cl. 18—58.
- Church, Charles E.: *See*—
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- Church, Eric H., to Benjamin Electric Mfg. Co. Light-transmitting plastic sheet panels. 2,800,965, 7-30-57, Cl. 169—1.
- Church, Hal B. Heated handle. 2,816,539, 12-17-57, Cl. 126—208.
- Church, Harold S. Circuit tracer. 2,806,203, 9-10-57, Cl. 324—51.
- Church, Howard, to The Kaiser Aluminum & Chemical Corp. Apparatus for filtering solids from gas-solids suspensions. 2,804,168, 8-27-57, Cl. 183—61.
- Church, Ira E. Spindle unbalance alarm. 2,796,600, 6-18-57, Cl. 340—261.
- Church, J. Frank, to Phillips Petroleum Co. Crystal purification apparatus and process. 2,800,411, 7-23-57, Cl. 99—205.
- Church, Maynard D., to Worthington Corp. Means for preventing overloads on cane cutters, cane shredders and the like. 2,791,252, 5-7-57, Cl. 146—1.
- Church, Walter L. Packer for well casing. 2,807,326, 9-24-57, Cl. 166—120.
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- Churchill, George R., to George R. Churchill Co., Inc. Machine for producing buffing wheel sections. 2,795,789, 6-18-57, Cl. 1—124.
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- Chyba, Herman J., to Aerona Mfg. Corp. Method and apparatus for controlling alternators. 2,780,733, 2-5-57, Cl. 290—4.
- Chyle, John J., to A. O. Smith Corp. Welding back-up and method of applying the same. 2,792,626, 5-21-57, Cl. 29—491.
- Chyle, John J., to A. O. Smith Corp. Welding procedure for joining aluminum plates. 2,812,419, 11-5-57, Cl. 219—118.
- Ciabattini, Orlando M. Power steering control system for road graders. 2,777,221, 1-15-57, Cl. 37—143.
- Ciaccio, Peter L., to Flexible Sewer Rod Equipment Co. Couplers for flexible sewer rod trains. 2,793,060, 5-21-57, Cl. 287—105.
- Cialella, Peter J. Protector guide for Venetian blinds. 2,802,243, 8-13-57, Cl. 20—11.
- Cialente, Innocenzo. Circuits for thermal heating plants. 2,792,181, 5-14-57, Cl. 237—63.
- Cialliè, Arturo, and B. Mammano, to Fiat Società per Azioni, and Ingranaggi Mammano Società per Azioni. Hypoid gear cutting. 2,783,686, 3-5-57, Cl. 90—5.
- Ciampolini, Valerio, to Pirelli Sapsa Società per Azioni. Apparatus for heat treating latex articles. 2,783,497, 3-5-57, Cl. 18—6.
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- Cislak, Francis E., to Reilly Tar & Chemical Corp. 2-chloro-alkanopyridine-N-oxides. 2,799,681, 7-16-57, Cl. 260—297.
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- Claassen, Edwin J., Jr., to Sid Richardson Carbon Co. Vacuum packing of loose carbon black. 2,780,247, 2-5-57, Cl. 141—7.
- Clade, Robert, to ACF Industries, Inc. Spherical plug valve. 2,792,196, 5-14-57, Cl. 251—172.
- Claessen, Antonius F. M., to Stamicarbon N. V. Conveyor discharge mechanism. 2,776,740, 1-8-57, Cl. 198—106.
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- Claff, Clarence L., and C. A. Moeller, to M. B. Claff & Sons, Inc. Sheet or web fed rotary printing press. 2,782,712, 2-26-57, Cl. 101—144.
- Claff, Clarence L., and C. A. Moeller, to M. B. Claff & Sons, Inc. Molleton roll for lithographic presses. 2,800,855, 7-30-57, Cl. 101—148.
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- Claffin, Harry C., Jr., to Olin Mathieson Chemical Corp. Continuous cyclic process for dissociation of ammonium chloride to recover ammonia and hydrogen chloride therefrom. 2,787,524, 4-2-57, Cl. 23—154.
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- Clapp, Jack. Collapsible wheelbarrow. 2,800,335, 7-23-57, Cl. 280—42.
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- Clapp, Maurice. Tire recapping machine. 2,808,872, 10-8-57, Cl. 154—9.
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- Clapper, Dale J. Folding table with spring latch mechanism. 2,784,042, 3-5-57, Cl. 311—87.
- Clapper, Genung L., to International Business Machines Corp. Cathode follower type pulse amplifier. 2,783,316, 2-26-57, Cl. 179—171.
- Clapper, Genung L., to International Business Machines Corp. Dynamic storage circuit. 2,801,334, 7-30-57, Cl. 250—27.
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- Clarín, John H., to Clarín Mfg. Co. Chair and tablet arm assembly. 2,786,515, 3-26-57, Cl. 155—125.
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- Clark, Adna R., to Whirlpool-Seeger Corp. Electrical circuit for multiple motor system. 2,782,350, 2-19-57, Cl. 318—102.
- Clark, Adna R., and E. H. Schwenker, to Whirlpool-Seeger Corp. Ice cube tray. 2,776,546, 1-8-57, Cl. 62—108.5.
- Clark, Albert, to the United States of America as represented by the United States Atomic Energy Commission. Isotopic fractionation process of uranium. 2,813,064, 11-12-57, Cl. 204—1.5.
- Clark, Alfred, to Phillips Petroleum Co. Process of treating dehydrogenation-hydrogenation catalysts. 2,814,650, 11-26-57, Cl. 260—668.
- Clark, Alfred J., and C. E. Lyon, Jr., to Motorola, Inc. Wave signal tuner. 2,814,010, 11-19-57, Cl. 318—282.
- Clark, Alfred L.: *See—*
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- Clark, Alfred S., to United Shoe Machinery Corp. Gaging mechanisms for lip cutting and scoring machines. 2,785,421, 3-19-57, Cl. 12—40.
- Clark, Arthur, and J. M. Gibson, to The British Petroleum Co. Ltd. Bridging plugs. 2,808,890, 10-8-57, Cl. 166—192.
- Clark, Arthur E. Collapsible tent. 2,792,844, 5-21-57, Cl. 135—1.
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- Clark, Calvin A., to W. M. Holt. Timed rotary dispenser. 2,793,791, 5-28-57, Cl. 222—185.
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- Clark, Chester L. Apparatus for treating smoke and gases. 2,802,543, 8-13-57, Cl. 183—5.
- Clark, Chester L. Method of treating smoke. 2,802,546, 8-13-57, Cl. 183—120.
- Clark, Clarence E. Golf club cover. 2,779,374, 1-29-57, Cl. 150—52.
- Clark, Clyde C., to Thompson Products, Inc. Coining method and apparatus. 2,778,064, 1-22-57, Cl. 18—59.3.
- Clark, Clyde W., Sr., to Clark Instrument Co. Hardness tester work piece clamping means. 2,804,769, 9-3-57, Cl. 73—81.
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- Clark, David M., W. J. Guild, and E. E. Martin; said Guild and said Martin assignors to said Clark. Valve system for the protection of aircraft occupants. 2,789,556, 4-23-57, Cl. 128—1.
- Clark, David V. Combination mounting and operating mechanism for casement window. 2,795,415, 6-11-57, Cl. 268—119.
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- Clark, Earl J., and H. T. Libby, to General Electric Co. Automatic brazing apparatus and method. 2,791,667, 5-7-57, Cl. 219—9.5.
- Clark, Earl K., to Westinghouse Electric Corp. Laundry apparatus. 2,813,415, 11-19-57, Cl. 68—24.
- Clark, Earl W., Attachment for self-operated hair clippers. 2,789,348, 4-23-57, Cl. 30—233.5.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Packing structures for well devices. 2,791,278, 5-7-57, Cl. 166—204.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Differential apparatus for automatically filling well casing. 2,791,279, 5-7-57, Cl. 166—225.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Automatic casing filling apparatus. 2,799,349, 7-16-57, Cl. 166—224.
- Clark, Edmund G., and G. D. Holmberg, $\frac{1}{2}$ to Twenty-Five Associates, Inc. Vehicle front axle suspension. 2,814,480, 11-26-57, Cl. 267—15.
- Clark, Edmund G., and G. D. Holmberg, $\frac{1}{2}$ to Twenty-Five Associates, Inc. Vehicle tandem axle suspension. 2,814,501, 11-26-57, Cl. 280—104.5.
- Clark, Edmund G., and G. D. Holmberg, $\frac{1}{2}$ to Twenty-Five Associates, Inc. Torque and lateral force transmitting linkage for vehicle suspension. 2,814,502, 11-26-57, Cl. 280—124.
- Clark, Edward B., to General Electric Co. Switch box with temporary mounting tangs. 2,809,763, 10-15-57, Cl. 220—3.9.
- Clark, Edward B., to General Electric Co. Armored cable clamp for a beveled corner box. 2,814,509, 11-26-57, Cl. 285—128.
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- Clark, Edward G., to Philco Corp. Phase detector systems. 2,793,347, 5-21-57, Cl. 324—89.
- Clark, Edward G., and F. Bernstein, to Philco Corp. Amplitude selection circuit with noise cutoff. 2,803,701, 8-20-57, Cl. 178—7.3.
- Clark, Edwin L., and F. T. Ksiazek, to Radio Corp. of America. Radio receiving system. 2,790,896, 4-30-57, Cl. 250—20.
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- Clark, Eugene F., and J. R. Little, Jr., to B. F. Goodrich Co. Knitting machine. 2,802,355, 8-13-57, Cl. 66—85.
- Clark, Floyd R. Window operator. 2,809,030, 10-8-57, Cl. 268—121.
- Clark, Frank G. Reversing power transmission mechanism, especially for garden tractors. 2,784,820, 3-12-57, Cl. 192—43.
- Clark, Frank G. Reversible overrunning clutches. 2,784,821, 3-12-57, Cl. 192—44.
- Clark, Frank L. Guide for slicing knife. 2,806,499, 9-17-57, Cl. 146—150.
- Clark, Frank M., to General Electric Co. Electrical cable structure. 2,782,248, 2-19-57, Cl. 174—25.
- Clark, Frederick G., to Eastman Machine Co. Side guard for cutting machines. 2,776,483, 1-8-57, Cl. 30—276.
- Clark, Frederick G., to Magna Driver Corp. Magnetic screw drivers. 2,782,822, 2-26-57, Cl. 145—50.
- Clark, Frederick G., to Eastman Machine Co. Knife sharpening mechanism. 2,790,235, 4-30-57, Cl. 30—139.
- Clark, Frederick G., $\frac{1}{2}$ to W. Stevenson. Magnetic socket wrench having spaced pole pieces. 2,793,552, 5-28-57, Cl. 81—125.
- Clark, Frederick G., to Eastman Machine Co. Knife cooling means for cutting machines. 2,810,954, 10-29-57, Cl. 30—123.
- Clark, Geoffrey, to Unipulver Ltd. Rotor rim construction for fixation of blades. 2,781,176, 2-12-57, Cl. 241—294.
- Clark, George V., to Libbey-Owens-Ford Glass Co. Edge finishing method and apparatus. 2,795,086, 6-11-57, Cl. 51—84.
- Clark, Gilbert R., to International Telephone and Telegraph Corp. Selective gate system for radar beacons. 2,815,504, 12-3-57, Cl. 343—7.3.
- Clark, Grady E., to Lockheed Aircraft Corp. Flexible metal shrinking or expanding tool. 2,788,685, 4-16-57, Cl. 81—15.
- Clark, Harold A., to Dow Corning Corp. Method of preparing organopolysiloxanes. 2,803,616, 8-20-57, Cl. 260—33.6.
- Clark, Harry F., to General Motors Corp. Starting and overload control for split-phase electric motor. 2,786,171, 3-19-57, Cl. 318—221.
- Clark, Harry F., to General Motors Corp. Electrical apparatus. 2,788,413, 4-9-57, Cl. 200—87.
- Clark, Harry F., to General Motors Corp. Electrical apparatus. 2,801,312, 7-30-57, Cl. 200—87.
- Clark, Harry F., to General Motors Corp. Starting control for split-phase motors. 2,808,553, 10-1-57, Cl. 318—221.
- Clark, Harvey N. Cracking cake breaker consisting of a hopper and an enclosed drum and intermeshing breaker bars extending from hopper and drum. 2,797,052, 6-25-57, Cl. 241—190.
- Clark, Herbert B.: See—
Dukes, Phillip J., and Clark. 2,814,320.
- Clark, Herbert H.: See—
Reinert, Armin E. 2,780,281.
- Clark, Howard L.: See—
Root, Augustin A., and Clark. 2,780,778.
- Clark, Howard M., Jr., and S. S. Leotta, to The National Drying Machinery Co. Tow feeding machine. 2,787,368, 4-2-57, Cl. 203—25.
- Clark, Howard S., to E. I. du Pont de Nemours and Co. Shipping container for particulate solids. 2,816,652, 12-17-57, Cl. 206—46.
- Clark, Howard T., Jr.: See—
Finlay, Walter L., Clark, and Snyder. 2,787,541.
- Clark Instrument Co.: See—
Clark, Clyde W., Sr. 2,804,769.
- Clark, Ivan F., to Ivan Clark Mfg. Co. Upholstered spring structures and supporting mats therefor. 2,778,411, 1-22-57, Cl. 155—181.
- Clark, Ivan F., to Ivan Clark Mfg. Co. Inner panel with combined armrest and handhold for vehicle doors. 2,794,671, 6-4-57, Cl. 296—44.
- Clark, Ivan, Mfg. Co.: See—
Clark, Ivan F. 2,778,411.
Clark, Ivan F. 2,794,671.
- Clark, James A. Process for the production of nodular cast iron. 2,814,559, 11-26-57, Cl. 75—53.
- Clark, James D., to Changewood Corp. Method for manufacturing crosscut fibrous elements for structures. 2,776,685, 1-8-57, Cl. 144—309.
- Clark, James D., to Changewood Corp. Crosscut fiber and method for its preparation. 2,776,686, 1-8-57, Cl. 144—309.
- Clark, James D. Crosscut fiber and method for its preparation. 2,776,687, 1-8-57, Cl. 144—309.
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- Clark, James D., to Changewood Corp. Crosscut woody wafers and structures embodying same. 2,786,005, 3-19-57, Cl. 154—45.9.
- Clark, James d'A., and B. E. Anderson, to A. B. Dick Co. Method and apparatus for transferring thin fibrous structures. 2,788,294, 4-9-57, Cl. 117—140.
- Clark, James K., to B. A. Shawinigan Ltd. Purification of phenol. 2,782,242, 2-19-57, Cl. 260—621.
- Clark, James R., to General Electric Co. High reactance transformer. 2,810,113, 10-15-57, Cl. 336—165.
- Clark, James T. Cylinder honing tools. 2,778,168, 1-22-57, Cl. 51—184.4.
- Clark, James T. Cylinder hones. 2,782,572, 2-26-57, Cl. 51—184.3.
- Clark, John A. Cushioned shoe construction. 2,817,163, 12-24-57, Cl. 36—17.
- Clark, John F., Jr. Superregenerative radio receiver. 2,804,545, 8-27-57, Cl. 250—20.
- Clark, John H.: See—
Stoll, Kenneth M., and Clark. 2,814,790.
- Clark, John M. Method for cleaning windshields. 2,780,568, 2-5-57, Cl. 134—7.
- Clark, John R.: See—
White, William E., and Clark. 2,781,901.
- Clark, John T. Picture frame. 2,811,799, 11-5-57, Cl. 40—152.
- Clark, Kendall, to General Electric Co. Valve with automatic rate-of-flow control. 2,815,923, 12-10-57, Cl. 251—120.
- Clark, Lowry W. Amusement device. 2,805,061, 9-3-57, Cl. 272—7.
- Clark, Melville, Jr.: See—
Cork, Bruce B., and Clark. 2,781,493.
- Clark, Merle M.: See—
Poole, Arthur J., Musat, and Clark. 2,806,518.
- Clark, Murray P., and E. Anderson, to Electrolux Corp. Method of and apparatus for manufacturing vacuum cleaner dust containers. 2,779,255, 1-29-57, Cl. 93—8.
- Clark, Myrna C. Sanitary napkin. 2,787,271, 4-2-57, Cl. 128—290.
- Clark, Noble C., to Ford Motor Co. Window control mechanism. 2,811,387, 10-29-57, Cl. 296—44.
- Clark, Philip B., to McGraw Electric Co. Light signal projector. 2,777,049, 1-8-57, Cl. 240—1.2.
- Clark, Ralph A.: See—
Aeberly, Robert A., and Clark. 2,778,732.
- Clark, Ralph B., and J. H. Hyler, to LeTourneau-Westinghouse Co. Control system. 2,817,426, 12-24-57, Cl. 192—13.
- Clark, Ralph B., J. H. Hyler, and F. S. Whaley; said Clark and said Hyler to LeTourneau-Westinghouse Co., and said Whaley to Westinghouse Air Brake Co. Control system. 2,817,427, 12-24-57, Cl. 192—13.
- Clark, Raymond N.: See—
Gluyas, Thomas M., Jr., Koros, and Clark. 2,790,857.
- Clark, Richard L.: See—
Clark, Thomas H. 2,788,777.

- Clark, Robert D., and J. E. Hines, Jr., to Union Oil Co. of California. Conveyance of granular solids. 2,816,803, 12-17-57, Cl. 302-53.
- Clark, Robert G. Mitering saw units. 2,775,990, 1-1-57, Cl. 143-6.
- Clark, Robert L., and A. A. Pessolano, to Merck & Co., Inc. Chemical compounds and processes for preparing the same. 2,806,853, 9-17-57, Cl. 260-307.
- Clark, Robert R.: *See*—
Pontzen, George R., and Clark. 2,778,882.
- Clark, Ronald I. H., to Siemens Edison Swan Ltd. Telephone systems. 2,814,673, 11-26-57, Cl. 179-18.
- Clark, Roscoe C., Jr., to Continental Oil Co. Pneumatic pumping system. 2,777,399, 1-15-57, Cl. 103-234.
- Clark, Roscoe C., Jr., to Stanolind Oil and Gas Co. Treating formations with solid forming liquids. 2,779,416, 1-29-57, Cl. 166-30.
- Clark, Roscoe C., Jr., to Continental Oil Co. Method of vertically fracturing formations in wells. 2,811,207, 10-29-57, Cl. 166-22.
- Clark, Roscoe C., Jr., and G. C. Howard, to Stanolind Oil and Gas Co. Plugging well casing perforations. 2,779,417, 1-29-57, Cl. 166-31.
- Clark, Roscoe C., Jr., and G. C. Howard, to Stanolind Oil and Gas Co. Plugging off water sands. 2,782,857, 2-26-57, Cl. 166-22.
- Clark, Roscoe C., Jr., H. F. Coffey, and D. A. Shock, to Continental Oil Co. Light weight well cement. 2,803,553, 8-20-57, Cl. 106-97.
- Clark, Samuel F. Chalcane dichloride and insecticidal compositions thereof. 2,805,184, 9-3-57, Cl. 167-30.
- Clark, Stanley M. Method and apparatus for continuously stretching plastic film. 2,778,057, 1-22-57, Cl. 18-1.
- Clark, Stanley M., to The Firestone Tire & Rubber Co. Bead lock tire rim. 2,802,507, 8-13-57, Cl. 152-401.
- Clark, Thomas H., $\frac{1}{4}$ each to H. S. Bartosiewicz and R. L. Clark. Internal combustion engines. 2,788,777, 4-16-57, Cl. 123-59.
- Clark, Thomas W., to Perfex Gage and Tool Co. Attachment for machine tools. 2,784,538, 3-12-57, Cl. 51-245.
- Clark, Trevor P. Auxiliary fish ladders. 2,803,949, 8-27-57, Cl. 61-21.
- Clark, Virgil W., to The Youngstown Sheet and Tube Co. Radio tower and leg for the same. 2,808,912, 10-8-57, Cl. 189-13.
- Clark, W. C.: *See*—
Duncan, Thomas M. 2,804,273.
- Clark, Warren G. Grader. 2,786,574, 3-26-57, Cl. 209-107.
- Clark, Walter G. House moving trailer. 2,788,145, 4-9-57, Cl. 214-505.
- Clark, Walter J. Elevatable drill pipe stacking apparatus. 2,790,683, 4-30-57, Cl. 304-29.
- Clark, William A., to The Texas Co. Borehole gravel packing. 2,776,011, 1-1-57, Cl. 166-51.
- Clark, William A., and H. L. Morrill, to Monsanto Chemical Co. Tetraalkyl pyrophosphate insecticide stabilized with acetic anhydride. 2,776,237, 1-1-57, Cl. 167-22.
- Clark, William B., to General Motors Corp. Seat adjuster. 2,798,532, 7-9-57, Cl. 155-14.
- Clark, William B., and R. E. Gee, to E. I. du Pont de Nemours and Co. Adipic acid crystallization. 2,813,122, 11-12-57, Cl. 260-537.
- Clark, William F. Outdoor theater and screen structure. 2,791,002, 5-7-57, Cl. 20-112.
- Clarke-Built Ltd.: *See*—
Goldsmith, Thomas L., and Clarke. 2,813,746.
- Clarke, Charles E.: *See*—
Spang, Carl F., and Clarke. 2,795,816.
- Clarke, Clifford, to Marconi's Wireless Telegraph Co. Ltd. Pulse and saw tooth wave generators. 2,788,444, 4-9-57, Cl. 250-27.
- Clarke and Courts Investment Co. (Inc.): *See*—
Goodloe, Kenneth V. 2,818,019.
- Clarke, Daniel J., to The Stalker Development Co. Axial flow rotors for fluid machines. 2,802,619, 8-13-57, Cl. 230-134.
- Clarke, Duane G., C. H. McKeever, and E. L. Wolfe, to Rohm & Haas Co. Dinitration of o-alkylphenols. 2,810,767, 10-22-57, Cl. 260-622.
- Clarke, Edward N., to Sylvania Electric Products Inc. Methods of growing crystals and making electrical translators. 2,788,298, 4-9-57, Cl. 148-15.
- Clarke, Edward N., to Sylvania Electric Products Inc. Method of forming a junction transistor. 2,793,145, 5-21-57, Cl. 148-15.
- Clarke, Eric D. Artificial eye. 2,817,845, 12-31-57, Cl. 3-13.
- Clarke, Eric D. and R. B. Artificial eye. 2,792,573, 5-21-57, Cl. 3-13.
- Clarke, Frank E. Indicator for chloride titrations. 2,784,064, 3-5-57, Cl. 23-230.
- Clarke, Frank J.: *See*—
Goldsmith, Thomas L., and Clarke. 2,813,746.
- Clarke, George F.: *See*—
Halford, Frank B., and Clarke. 2,778,564.
Halford, Frank B., Clarke, and Barratt. 2,807,433.
- Clarke, Henry M., Jr.: *See*—
Luehrs, Hans J., and Clarke. 2,775,934.
- Clarke, James A.: *See*—
McIlhenny, William F., Baker, and Clarke. 2,814,399.
- Clarke, John S., and S. R. Jackson, to Joseph Lucas (Industries) Ltd. Liquid fuel burner for a combustion chamber provided with a surrounding air jacket. 2,780,061, 2-5-57, Cl. 60-39.66.
- Clarke, John T., to Ionics, Inc. Anionic permselective membrane. 2,800,445, 7-23-57, Cl. 204-180.
- Clarke, John T., and A. H. Hamerschlag, to Ionics, Inc. Mono (chloromethyl) styrene, its derivatives, and ion-exchange resins from polymers of aminated compound. 2,780,604, 2-5-57, Cl. 260-21.
- Clarke, Joseph V., and S. I. Burd, to Prestige, Inc. Stocking. 2,814,938, 12-3-57, Cl. 66-172.
- Clarke, Leo A.: *See*—
Hargraves, Woodrow J., and Clarke. 2,782,469.
- Clarke, Robert B.: *See*—
Clarke, Eric D. and R. B. 2,792,573.
- Clarke, Robert E., to Merck & Co., Inc. Processes for the manufacture of various chemicals from sea water. 2,793,099, 5-21-57, Cl. 23-89.
- Clarke, Robert E., and N. R. Collins, to Merck & Co., Inc. Apparatus for the manufacture of magnesium hydroxide. 2,793,942, 5-28-57, Cl. 23-285.
- Clarke, Robert H. Flush economizer. 2,775,772, 1-1-57, Cl. 4-67.
- Clarke, Robert L., to Sterling Drug Inc. 1-oxo-4-methyl-17-oxacyclopentyl-3,5-estratrienes and method. 2,799,691, 7-16-57, Cl. 260-397.47.
- Clarke, Robert L., to Sterling Drug Inc. 8-R-1,6,8-triazabicyclo(4,3,0)-3-nonene-7,9-diones and preparation thereof. 2,813,866, 11-19-57, Cl. 260-250.
- Clarke, Robert L., and F. W. Gubitz, to Sterling Drug Inc. Mercury derivatives of 1,6,8-triazabicyclo[4,3,0]nonane-7,9-dione, 8-substituted derivatives thereof, and preparation thereof. 2,813,865, 11-19-57, Cl. 260-242.
- Clarke, William A.: *See*—
Fox, Douglas P. S., and Clarke. 2,813,555.
- Clarke, William B., H. L. Hunter, and F. Santucci, to Rockwell Spring and Axle Co. Feeding apparatus. 2,779,490, 1-29-57, Cl. 214-91.
- Clarke, William B., A. J. Baldassare, and J. Yut, to Rockwell Spring & Axle Co. Transfer apparatus. 2,786,564, 3-26-57, Cl. 198-24.
- Clarke, William B., A. J. Baldassare, and J. Yut, to Rockwell Spring and Axle Co. Transfer apparatus. 2,809,769, 10-15-57, Cl. 221-116.
- Clarke, William C., Jr.: *See*—
Linnert, George E., and Clarke. 2,784,083.
- Clarke, William C., Jr., to Armco Steel Corp. Wrought stainless steel. 2,784,125, 3-5-57, Cl. 148-31.
- Clarke, William C., Jr., to Armco Steel Corp. Alloy steel and article made therefrom. 2,815,280, 12-3-57, Cl. 75-128.
- Clarke, William H. V., to A. Felix Industries Ltd. Container. 2,793,669, 5-28-57, Cl. 150-5.
- Clarke, William W., to Boesch Mfg. Co., Inc. Apparatus for winding coils. 2,793,817, 5-28-57, Cl. 242-4.
- Clarke, William W., and H. S. Walendzik, to Boesch Mfg. Co. Apparatus for winding coils. 2,793,818, 5-28-57, Cl. 242-4.
- Clarkson, Alick, to Vapor Heating Corp. Ribbon spiral flow heat exchanger. 2,801,831, 8-6-57, Cl. 257-246.
- Clarkson, Ralph E., to Olin Mathieson Chemical Corp. Fire-arm safety. 2,794,285, 6-4-57, Cl. 42-17.
- Clarostat Mfg. Co., Inc.: *See*—
Eshelman, Walter I. 2,814,705.
- Gintovt, Henry, Eshelman, and Chapman. 2,779,834.
- Mucher, George J. 2,783,343.
- Mucher, George J. 2,784,283.
- Mucher, George J. 2,798,926.
- Mucher, George J. 2,814,702.
- Mucher, George J., and Chapman. 2,811,620.
- Mucher, George J., and Joy. 2,811,621.
- Clary Corp.: *See*—
Boydson, Robert E., and Lindesmith. 2,783,939.
- Busch, Richard E., and Kuhne. 2,800,074.
- Busch, Richard E., and Scozzafava. 2,796,270.
- Christoff, Chris A., Collison, Nuban, and Oldenburg. 2,818,018.
- De Rosso, Charles R. 2,777,893.
- Felder, Lloyd L., Jr., and Kuhne. 2,793,715.
- Kuhne, Bryan F. 2,797,791.
- Lindesmith, John L. 2,793,806.
- Clary, Frank A., Jr.: *See*—
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- Russell, Arthur G., Clary, Casey, and Dallon. 2,812,628.
- Willis, Grant N., Cate, and Clary. 2,789,502.
- Willis, Grant N., and Clary. 2,796,194.
- Willis, Grant N., and Clary. 2,796,195.
- Willis, Grant N., and Clary. 2,811,171.
- Clary, Frank A., Jr. Demolition firing device. 2,779,276, 1-29-57, Cl. 102-16.
- Clary, Frank A., Jr., and G. N. Willis, to Pittsburgh Steel Co. Wire-feeding mechanism for nail-making machine. 2,796,168, 6-18-57, Cl. 203-150.
- Clary, Hugh L., P. B. Johnson, and G. E. Morgenroth, to Flo-Ball Pen Corp. Writing instrument. 2,809,609, 10-15-57, Cl. 120-42.03.
- Clary, Hugh L., and F. N. Schwend, to Flo-Ball Pen Corp. Retractable writing instrument. 2,809,610, 10-15-57, Cl. 120-42.03.
- Clary, Joseph F., to The Budd Co. Double-deck railway train and car. 2,811,932, 11-5-57, Cl. 105-340.

- Clary, Raymond L. Hollow building construction. 2,811,850, 11-5-57, Cl. 72-1.
- Claesen, Hermann, to Metallgesellschaft Aktiengesellschaft. Process for the production of organic silicon compounds. 2,796,397, 6-18-57, Cl. 204-165.
- Clason, Bertil H., to General Motors Corp. Pressure responsive device. 2,790,043, 4-23-57, Cl. 200-83.
- Clason, Bertil H., to General Motors Corp. Electrical device. 2,794,879, 6-4-57, Cl. 200-83.
- Clason, Bertil H., to General Motors Corp. Pressure actuated switch. 2,816,189, 12-10-57, Cl. 200-83.
- Clauberg, Friedrich, and H. Knobel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Droppers for bottles. 2,786,611, 3-26-57, Cl. 222-421.
- 3-26-57, Cl. 260-609.
- Claud-Mantle, Arthur, to The Bassick Co. Hood latch. 2,781,214, 2-12-57, Cl. 292-11.
- Claud-Mantle, Arthur, to The Bassick Co. Closure means for box lids. 2,786,596, 3-26-57, Cl. 220-46.
- Claud-Mantle, Arthur, to The Bassick Co. Hood latch. 2,795,450, 6-11-57, Cl. 292-304.
- Clauser, Calvin K. Dual function facsimile apparatus. 2,776,336, 1-1-57, Cl. 178-6.6.
- Claus, Adolf: *See*—
- Mohrs, Ernst, and Claus. 2,785,885.
- Claus, Carl J., and J. L. Morgenthau, to the United States of America as represented by the Secretary of the Navy. Method for the conversion of nitriles to aldehydes. 2,786,872, Claus, Günther: *See*—
- Seltmann, Wilhelm, and Claus. 2,810,328.
- Claus, Paul E., and H. C. Hoener, to Crown Zellerbach Corp. Method and apparatus for sealing containers. 2,801,507, 8-6-57, Cl. 53-198.
- Claude, Edward P.: *See*—
- LaRose, Royal J., and Claude. 2,799,984.
- Clausen, Howard F., to Deere & Co. Vertically and laterally adjustable wheel mounting means for potato diggers. 2,811,368, 10-29-57, Cl. 280-43.
- Clauser, Frederick K.: *See*—
- Clauser, John M., and F. K. 2,796,664.
- Clauser, Herbert C., and R. S. Long, to Kilgore, Inc. Pyrotechnic device. 2,785,632, 3-19-57, Cl. 102-37.6.
- Clauser, John M., and F. K., to Midvale Dental Supply Co. Dental engine structure. 2,796,664, 6-25-57, Cl. 32-24.
- Clauser, Milton U.: *See*—
- Gorgenson, John A., and Clauser. 2,791,087.
- Clauser, Walter L., to Wildman Jaquard Co. Pattern means for knitting machines. 2,786,343, 3-26-57, Cl. 66-50.
- Clausi, Adolph S., to General Foods Corp. Pudding composition and process of producing the same. 2,801,924, 8-6-57, Cl. 99-139.
- Clausing, Henry G., to Vulcan Corp. Shoe last. 2,799,033, 7-16-57, Cl. 12-136.
- Clauson-Kaas, Niels K. F. W., to A/S Sadolin & Holmblad. 2,5-dialkoxy-dihydrofurans and tetrahydrofurans. 2,801,252, 7-30-57, Cl. 260-347.8.
- Clauson-Kaas, Niels K. F. W., N. Elming, and J. T. Nielsen, to A/S Sadolin & Holmblad. 1,5-dihydroxy-2-pyridones, intermediates and process. 2,802,009, 8-6-57, Cl. 260-297.
- Clauson-Kaas, Niels K. F. W., and N. Elming. Process for preparing 3-pyridinol. 2,806,852, 9-17-57, Cl. 260-297.
- Clauss, Emil, and H. Zink, to G. M. Pfaff A.-G. Needle threading devices. 2,815,727, 12-10-57, Cl. 112-225.
- Clauss, Richard J.: *See*—
- Brown, Henry, and Clauss. 2,800,441.
- Claverie, Armand W.: *See*—
- Waterhouse, William J., McLauchlan, and Claverie. 2,797,672.
- Clavier, Andre G., and D. L. Thomas, to International Standard Electric Corp. Attenuator for surface wave propagation. 2,782,382, 2-19-57, Cl. 333-81.
- Clavier, Philippe A., to Sylvania Electric Products Inc. Microwave amplifier. 2,781,472, 2-12-57, Cl. 315-3.5.
- Clavier, Pierre J.: *See*—
- Job, Francois, and Clavier. 2,778,954.
- Clavir, Murray: *See*—
- Halberg, Max, Clavir, Cincinatus, Gerth, and Huras. 2,787,008.
- Clavy, Roland, and J. Robin, to Societe "Rhodiacta." Process for the continuous production of cellulose esters. 2,778,820, 1-22-57, Cl. 260-229.
- Clawson, Clinton D., to Ferro Corp. Seed planting package. 2,785,969, 3-19-57, Cl. 71-64.
- Clay-Adams, Inc.: *See*—
- Broadwin, Samuel M. 2,798,647.
- Gilman, Marvin A. 2,792,157.
- Clay, Agnes D.: *See*—
- Clay, Elmer D., and A. D. 2,801,855.
- Clay, Burton R.: *See*—
- Finkelstein, Morris B., and Clay. 2,795,717.
- Clay, Burton R., and J. H. Du Bois, to Radio Corp. of America. Beam convergence apparatus for tri-color kinescopes. 2,806,164, 9-10-57, Cl. 313-75.
- Clay, Elmer D., and A. D. Mathematics game apparatus. 2,801,855, 8-6-57, Cl. 273-135.
- Clay Equipment Corp.: *See*—
- Clay, Roger L. 2,801,137.
- Clay, Gabriel P.: *See*—
- Webster, James G., and Aldred. 2,781,947.
- Clay, Homer B., to Minneapolis-Honeywell Regulator Co. Electric control apparatus. 2,813,235, 11-12-57, Cl. 318-19.
- Clay, Robert B., to The Skinner Chuck Co. Quick exhaust valve. 2,799,293, 7-16-57, Cl. 137-620.
- Clay, Roger L., to Clay Equipment Corp. Silo unloader. 2,801,137, 7-30-57, Cl. 302-56.
- Clay, Stanley B., to Great Lakes Products, Inc. Spinning reel. 2,783,952, 3-5-57, Cl. 242-84.4.
- Clay, William S., to Continental Millwork Corp. Packaged door and frame unit. 2,795,327, 6-11-57, Cl. 206-60.
- Claybrook, Arthur W. Fishing float having weight-adjusting means. 2,803,082, 8-20-57, Cl. 43-43.14.
- Clayden, David O., to National Research Development Corp. Electrical pulse signalling systems. 2,796,464, 6-18-57, Cl. 179-15.
- Clayton, David P.: *See*—
- Slope, Howard I., Clayton, and Barcus. 2,811,592.
- Clayton Dewandre Co. Ltd.: *See*—
- Edge, Stanley H., and Beet. 2,800,770.
- Clayton, James O.: *See*—
- Jensen, Warren, and Clayton. 2,795,609.
- Clayton, Leslie B. Wallboard conveyor. 2,788,105, 4-9-57, Cl. 193-35.
- Clayton, Leslie B. Wallboard conveyor. 2,788,106, 4-9-57, Cl. 193-35.
- Clayton Mfg. Co.: *See*—
- Arant, Perry. 2,790,678.
- Arant, Perry. 2,800,117.
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- Clayton, William. 2,803,132.
- Pearson, Ralph G. 2,788,319.
- Pearson, Ralph G. 2,794,777.
- Pearson, Ralph G. 2,812,300.
- Thurman, Benjamin H. 2,793,183.
- Clayton Dewandre Co. Ltd.: *See*—
- Jeffrey, George A., and Heacock. 2,785,773.
- Clayton, William, to Clayton Mfg. Co. Dynamometer with air-operated vehicle lift. 2,803,132, 8-20-57, Cl. 73-117.
- Clayton, William, to Barklewy Mfg. Co. Engine exhaust gas afterburners. 2,806,346, 9-17-57, Cl. 60-30.
- Clayton, William. Self propelled irrigation apparatus. 2,807,500, 9-24-57, Cl. 299-52.
- Cleary, Ann T. Two-piece slipcover for a davenport-bed combination. 2,797,742, 7-2-57, Cl. 155-182.
- Cleary, Thomas F.: *See*—
- Wenneis, John M., Cleary, and Chodroff. 2,814,597.
- Cleave, Walter C., 1/4 to K. J. Tobin. Means for handling short distance riders on fare vehicles. 2,783,865, 3-5-57, Cl. 194-4.
- Cleaver-Brooks Co.: *See*—
- Grobecker, Hugo H. 2,804,119.
- Loebel, Fred A., and Ewing. 2,783,354.
- Olah, Emmerich I. 2,804,169.
- Rulsh, Elroy M. 2,818,110.
- Cleaver, Charles S., to E. I. du Pont de Nemours and Co. Method for preparing polyfunctional organic compounds in a flame and hydroperoxy organic compounds prepared thereby. 2,782,219, 2-19-57, Cl. 260-465.8.
- Cleaves, Irving. Wrench having nut ejector and spring-latched nut-retaining socket. 2,811,883, 11-5-57, Cl. 81-124.1.
- Clegg, John W., and W. A. Meeley, to Ethyl Corp. Method of reducing refractory metal compounds. 2,791,499, 5-7-57, Cl. 75-84.5.
- Cleiff, Joseph A., to Aluminium Bronze Co. Ltd. Machines for polishing or otherwise treating headed articles. 2,791,069, 5-7-57, Cl. 51-108.
- Clem, Everett W., to Rice Barton Corp. Drive system for a web printing machine. 2,809,581, 10-15-57, Cl. 101-178.
- Clem, Virgil L., and M. H. Nordyke. Fountain brush. 2,782,437, 2-26-57, Cl. 15-128.
- Clemency, William F., to Bell Telephone Laboratories, Inc. Control of regular and distant talking subscribers sets. 2,801,287, 7-30-57, Cl. 179-81.
- Clemens, John E., and B. B. Johnstone, 1/2 to C. Tietig. Process of preparing target screens for orthicon tubes. 2,804,403, 8-27-57, Cl. 117-210.
- Clemens, Milton L., to Eastman Kodak Co. Monoetherification of mono-tertiarybutyl hydroquinone using a hydrocarbon solvent. 2,776,321, 1-1-57, Cl. 260-613.
- Clemens, Milton L., Jr., to Eastman Kodak Co. Method of preparing hydroxy aromatic carboxylic acids. 2,816,137, 12-10-57, Cl. 260-518.
- Clement, Allen T., Jr. Power lawn mower control device. 2,796,944, 6-25-57, Cl. 180-79.
- Clement, Charles D. Concrete drain tile machine. 2,800,700, 7-30-57, Cl. 25-36.
- Clement, Eldon W. Counterbore attachment for drills. 2,804,895, 9-3-57, Cl. 145-125.
- Clement, Ernest C. Box making die. 2,798,416, 7-9-57, Cl. 93-51.
- Clements, Charles A., to Mechanical Research Ltd. Process of mercury casting. 2,807,843, 10-1-57, 22-216.5.
- Clements, George O. Emergency air brake actuator. 2,781,870, 2-19-57, Cl. 188-106.
- Clements, MacMillan. Structural panel and method of making the same. 2,809,403, 10-15-57, Cl. 20-91.
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- Thornwald, Everett D. 2,797,430.
- Clements, Paul B. Portable electric fence. 2,801,823, 8-6-57, Cl. 256-10.

- Clements, Railford, to St. Regis Paper Co. Removal of condensate from dryer rolls. 2,811,787, 11-5-57, Cl. 34-41.
- Clements, Richard E., to Hughes Aircraft Co. Direct-coupled feedback amplifier. 2,810,025, 10-15-57, Cl. 179-171.
- Clements, Thomas W., to Moore Products Co. Positioners for fluid operated motors. 2,811,138, 10-29-57, Cl. 121-41.
- Clemons, Clement W.: *See*—
- Andres, William A., Clemons, and Trettel. 2,792,106.
- Clemons, Dale R., to Western Electric Co., Inc. Method of and apparatus for winding condensers. 2,790,607, 4-30-57, Cl. 242-55.
- Clemons, Maurice M.: *See*—
- Sehn, Francis J., and Clemons. 2,781,136.
- Clemson Agricultural College of South Carolina, The: *See*—
- Brown, Hugh M. 2,781,655.
- Brown, Hugh M. 2,795,102.
- Brown, Hugh M. 2,796,040.
- Brown, Hugh M. 2,797,468.
- Brown, Hugh M. 2,804,771.
- Brown, Hugh M. 2,812,779.
- Cledenin, Bernard S. Brush holder. 2,803,844, 8-27-57, Cl. 15-138.
- Cledenin, Robert B. Automatic control switch. 2,807,686, 9-24-57, Cl. 200-83.
- Cleintmack, George E., to Draper Corp. Let-off means for textile machine. 2,792,023, 5-14-57, Cl. 139-110.
- Cleintmack, George E., to Draper Corp. Fabric take-up for textile machines. 2,804,760, 9-3-57, Cl. 66-149.
- Clerk, Robert C., to Gyreacta Transmissions Ltd. Electromagnetically actuated friction clutch and brake. 2,801,719, 8-6-57, Cl. 192-35.
- Clerk, Robert C., to Gyreacta Transmissions Ltd. Driving systems. 2,803,151, 8-20-57, Cl. 74-751.
- Clermont, William T.: *See*—
- Anastasia, Harry G., and Clermont. 2,807,958.
- Cleve, Theodore. Shoe heel protector. 2,810,215, 10-22-57, Cl. 36-75.
- Cleveland-Cliffs Iron Co., The: *See*—
- Holt, Grover J., and Erck. 2,799,572.
- Cleveland Crane & Engineering Co., The: *See*—
- Anjeskey, Alphonse F. 2,796,839.
- Anjeskey, Alphonse F. 2,796,840.
- Anjeskey, Alphonse F., and Cotesworth. 2,802,910.
- Dehn, Roy F. 2,815,074.
- Dehn, Roy F., and Ward. 2,780,105.
- Cleveland Electric Motor Co., The: *See*—
- Sorchy, Anthony J. 2,802,121.
- Cleveland Electrical Equipment Co., Inc.: *See*—
- Hunsdorf, William P. 2,779,886.
- Cleveland, Frank C., Jr.: *See*—
- Kerr, Ralph W., and Cleveland. 2,801,242.
- Cleveland Fuel Equipment Co., The: *See*—
- Hahn, Norman F., and Kraft. 2,804,267.
- Cleveland Hobbing Machine Co., The: *See*—
- Staples, Otis E. 2,777,209.
- Cleveland, Lester D. Automatically actuated signal assembly for power units. 2,812,511, 11-5-57, Cl. 340-239.
- Cleveland Patents, Inc.: *See*—
- Cerveny, Walter J., and Wise. 2,788,446.
- Yenni, William H., and Hickok. 2,783,437.
- Cleveland Pneumatic Tool Co., The: *See*—
- Fisher, John A. 2,783,656.
- Greenough, Raymond E. 2,797,971.
- Hamilton, Wallace. 2,779,207.
- Hartel, Erwin H. 2,793,031.
- Hartel, Erwin H. 2,811,137.
- Hogan, Walter H. 2,779,556.
- Hogan, Walter H. 2,779,645.
- Hogan, Walter H. 2,806,263.
- Jungles, Robert N. 2,783,861.
- Schnurr, Murray E., and Willis. 2,800,111.
- Westcott, William B., Jr., and Gail. 2,811,136.
- Cleveland Rock Drill Division, Westinghouse Air Brake Co.: *See*—
- Feucht, Jacob E., and Hauch. 2,787,250.
- Sebree, Allen. 2,802,557.
- Cleveland Tapping Machine Co., The: *See*—
- Carpenter, Albert J. 2,796,767.
- Cleveland Twist Drill Co., The: *See*—
- Emmons, Joseph V. 2,792,862.
- Novosel, Thomas. 2,792,728.
- Cleveland Universal Jig Co., The: *See*—
- Liska, Raymond H. 2,784,612.
- Liska, Raymond H. 2,788,534.
- Liska, Raymond H. 2,788,672.
- Liska, Raymond H. 2,788,673.
- Cleverdon, Desmond, to Distillers Co. Ltd. Resinous composition comprising an acrylonitrile polymer and an esterified phenol condensation product and process of making the same. 2,818,398, 12-31-57, Cl. 260-45.
- Clevenger, Carl L., to General Motors Corp. Cold forming apparatus. 2,782,663, 2-26-57, Cl. 80-25.
- Clevenger, Herbert C. Apparatus for filling sandwich buns. 2,784,682, 3-12-57, Cl. 107-1.
- Clevers, Johannes A. N.: *See*—
- Zoethout, Gerrit, and Clevers. 2,818,495.
- Clevite Corp.: *See*—
- Baerwald, Hans G., and Thurston. 2,800,647.
- Begun, Semi J., Dank, and Sarraat. 2,789,776.
- Begun, Semi J., Sarraat, Blaha, and Christian. 2,803,515.
- Brown, Arling D., Jr., Morris, and Valenti. 2,805,113.
- Clevite Corp.: *See*—Continued
- Hamlin, Bailey H. 2,792,242.
- Harris, Francis S. 2,816,056.
- Kornel, Otto. 2,813,932.
- Langevin, Robert A. 2,806,929.
- Palsulich, Joseph, and Fotheringham. 2,787,503.
- Schaefer, Ralph A., and Kingsbury. 2,796,394.
- Short, William P., Goodman and Mattiat. 2,789,281.
- Valenti, Leo F., and Brown. 2,796,317.
- Zapponi, Paschal P. 2,788,454.
- Zapponi, Paschal P. 2,794,132.
- Clevy, Roland: *See*—
- Robin, Jean, and Clevy. 2,790,796.
- Clevy, Roland, and J. Robin, to Societe "Rhodiaceta." Continuous process for the esterification of cellulose in homogeneous phase. 2,801,237, 7-30-57, Cl. 260-227.
- Cliborn, Robert, to Thompson Products, Inc. Self-lubricating gear assembly. 2,781,105, 2-12-57, Cl. 184-11.
- Cliche, A/S.: *See*—
- Blandhoel, Bjarne E., and Iversen. 2,789,491.
- Click, Billy J., and E. D. Bolding. Bowl guard. 2,811,724, 11-5-57, Cl. 4-257.
- Clifford, Cecil F. Frequency controlling and regulating means for oscillating elements. 2,787,115, 4-2-57, Cl. 58-116.
- Clifford, George F., Jr.: *See*—
- Grela, Milton W., and Clifford. 2,783,938.
- Clifford, Harry W.: *See*—
- Broughton, William W., Clifford, Friis, and May. 2,812,585.
- Clifford, Robert J.: *See*—
- Harrison, Thomas, and Clifford. 2,808,942.
- Clifford, Wilfred J., and D. Hordle, to The Pyrene Co. Ltd. Fire-extinguisher. 2,818,121, 12-31-57, Cl. 169-9.
- Clift, Frederick R. Rear gun sight. 2,777,203, 1-15-57, Cl. 33-58.
- Clift, Gilbert B.: *See*—
- McGay, John B., and Clift. 2,780,911.
- Clifton Conduit Co., Inc.: *See*—
- Pearson, William S. 2,815,710.
- Clifton, John R., to Northrop Aircraft, Inc. Auxiliary fuel cell. 2,777,656, 1-15-57, Cl. 244-135.
- Clifton, Leyman E. Portable camera stand. 2,794,612, 6-4-57, Cl. 248-161.
- Clifton, Richard T. Magnetized gas cap. 2,802,592, 8-13-57, Cl. 220-40.
- Clifton, Walter L., Jr., to American Art Metals Co. Panic latch. 2,805,091, 9-3-57, Cl. 292-21.
- Clifton, Woodrow W. Hand truck with convertible platform. 2,812,190, 11-5-57, Cl. 280-47.18.
- Climax Molybdenum Co.: *See*—
- Coffer, Lynn W. 2,789,896.
- Deuble, Norman L. 2,788,289.
- Deuble, Norman L. 2,788,290.
- Climax Products Corp.: *See*—
- Rowekamp, Edward R. 2,805,688.
- Cline, Augustus L., to Shuford Mills, Inc. Combination knot and retaining means therefor. 2,808,632, 10-8-57, Cl. 24-129.
- Cline, Earl E., and R. L. Freeman, to Ernest Holmes Co. Towing hitches. 2,796,183, 6-18-57, Cl. 214-86.
- Cline Electric Mfg. Co.: *See*—
- Faasche, Jens A. 2,777,256.
- Faasche, Jens A. 2,777,419.
- Faasche, Jens A. 2,781,738.
- Faasche, Jens A. 2,788,954.
- Rhyne, Earl C., Jr. 2,793,338.
- Rhyne, Earl C., Jr. 2,793,339.
- Rhyne, Earl C., Jr. 2,793,340.
- Rhyne, Earl C., Jr. 2,793,342.
- Rhyne, Earl C., Jr. 2,817,051.
- Cline, Frank W. Unit for adjusting tracks of crawler type tractors. 2,811,397, 10-29-57, Cl. 309-1.
- Cline, Robert F., to Electric Machinery Mfg. Co. Pulse width modulator. 2,814,739, 11-26-57, Cl. 307-132.
- Cline, Robert S., to V. E. Anderson Mfg. Co. Door lock for jalousie door. 2,815,833, 12-10-57, Cl. 189-46.
- Cline, William M., and G. E. Swick, Jr., to Aeroquip Corp. Combination braided hose and end fitting nipple. 2,805,088, 9-3-57, Cl. 285-239.
- Clingman, Paul E., and C. H. Schamel, to General Motors Corp. Connector for flexible tubing. 2,782,058, 2-19-57, Cl. 285-212.
- Clinton Machine Co.: *See*—
- Aumann, Richard F. 2,792,035.
- Clinton, Otto M., to Ready-To-Bake Foods Inc. Carton lining machine. 2,803,175, 8-20-57, Cl. 93-36.01.
- Clinton, Raymond O., to Sterling Drug Inc. D-homo-17a-(20)-pregnenes. 2,789,998, 4-23-57, Cl. 260-488.
- Clipper Mfg. Co.: *See*—
- Harris, Robert R., and Klinge. 2,779,426.
- Clipsham, Kenneth M., to Canada Wire and Cable Co., Ltd. Ovens and heat treating apparatus. 2,804,694, 9-3-57, Cl. 34-86.
- Cloer, Ethel A. Lamp shade. 2,817,008, 12-17-57, Cl. 240-108.
- Cloes, Albert P. Retractable golf cart seat. 2,777,707, 1-15-57, Cl. 280-36.
- Clogston, Albert M., to Bell Telephone Laboratories, Inc. Electrical conductor comprising multiplicity of insulated filaments. 2,797,392, 6-25-57, Cl. 333-84.
- Clogston, Albert M., to Bell Telephone Laboratories, Inc. Composite wave guide. 2,797,393, 6-25-57, Cl. 333-95.

- Clogston, Albert M., to Bell Telephone Laboratories, Inc. Electrical conductor having composite central dielectric member. 2,797,394, 6-25-57, Cl. 333-96.
- Clogston, Albert M., and C. W. Harrison, to Bell Telephone Laboratories, Inc. Quantizing system employing cathode ray tube. 2,776,371, 1-1-57, Cl. 250-27.
- Clopton, John R. Method and composition for conditioning cut flowers. 2,805,137, 9-3-57, Cl. 71-2.4.
- Clor, Carol R. Pipe measuring apparatus. 2,780,870, 2-12-57, Cl. 33-125.
- Clorex Chemicals Ltd.: *See*—
Mitchell, James S., and Crofton. 2,804,091.
- Close, Richard N., to the United States of America as represented by the Secretary of War. Radio computer system. 2,807,017, 9-17-57, Cl. 343-13.
- Close, Robert H., to Plastry Corp. Plastic container. 2,790,475, 4-30-57, Cl. 150-0.5.
- Close, Warren J., to Abbott Laboratories. Anticonvulsant 3-ethyl-5-phenyl hydantoin unit dosages and method of using same. 2,793,157, 5-21-57, Cl. 167-65.
- Closson, Rex D.: *See*—
Kolka, Alfred J., Ecker, and Closson. 2,814,646.
Liggett, Waldo B., Closson, and Wolf. 2,785,102.
Liggett, Waldo B., Wolf, and Closson. 2,779,704.
- Clostermann, Klaus, and H. Borchers, to Accumulatorenfabrik Aktiengesellschaft. Lead alloy for accumulator grid. 2,791,619, 5-7-57, Cl. 136-65.
- Clough Equipment Co.: *See*—
Murray, Ray M., Jr. 2,814,531.
- Clough, Harry, and J. A. Smith, to Imperial Chemical Industries Ltd. Separation of hydrocarbons. 2,799,629, 7-16-57, Cl. 202-39.5.
- Clough, Newsome H., to Marconi's Wireless Telegraph Co. Ltd. Short wave radio aerials and aerial systems. 2,787,788, 4-2-57, Cl. 343-867.
- Clough, Philip J.: *See*—
Moore, James H., Clough, and Franks. 2,815,279.
Singleton, Richard H., and Clough. 2,783,142.
- Clough, Philip J., and P. Godley, 2nd, to National Research Corp. Coating process. 2,785,082, 3-12-57, Cl. 117-22.
- Clough, Philip J., J. L. Ham, and D. I. Sinizer, to National Research Corp. Heat reservoir and electrode for production of metals in skull type furnace. 2,789,150, 4-16-57, Cl. 13-14.
- Clough, Robert C., H. A. Dvorak, and G. Stuhlfauth, to Western Electric Co., Inc. Apparatus for welding contacts onto a metal strip. 2,801,328, 7-30-57, Cl. 219-79.
- Clow, Allen N., Jr.: *See*—
Butcko, Joseph A., and Clow. 2,804,914.
- Cloward, Esther. Making individual dress patterns and forms. 2,780,003, 2-5-57, Cl. 33-16.
- Clubb, Roy E., and A. W. Weiman. Valve lift mechanism for internal combustion engines. 2,809,618, 10-15-57, Cl. 123-90.
- Cluett, Peabody & Co., Inc.: *See*—
Bailey, Fred D. 2,799,235.
Fetscher, Charles A. 2,789,030.
Macrides, Philip C., and Wagar. 2,785,411.
Noojin, Augustus Y., Jr., and Wiklund. 2,788,069.
Wagar, Albert E. 2,785,410.
- Clune, Andrew G. Light reflector signal device. 2,803,421, 8-20-57, Cl. 248-226.
- Clurman, Stanley P., to Faximile, Inc. Facsimile recorder. 2,785,944, 3-19-57, Cl. 346-101.
- Clute Corp.: *The: See*—
Clute, Francis H. 2,808,151.
- Clute, Francis H., to The Clute Corp. Material separator. 2,808,151, 10-1-57, Cl. 209-144.
- Clute, Henry H. Recessed housing for valves and fittings for liquid petroleum product tanks. 2,781,944, 2-19-57, Cl. 220-62.
- Cluwen, Johannes M.: *See*—
Peek, Johannes J. A., and Cluwen. 2,790,095.
Reynst, Maximilien F., and Cluwen. 2,779,885.
- Clybourn Machine Corp.: *See*—
Scheib, Ludwig G. 2,799,419.
- Cly-Del Mfg. Co. Inc.: *The: See*—
Garthwait, Clyde W., Jr. 2,800,870.
- Clymer, Dewey M., to Chase Bag Co. Tie string bag and method of making same. 2,792,796, 5-21-57, Cl. 112-2.
- Clymer, Joseph D.: *See*—
Wright, George W., Clymer, and Jackson. 2,812,111.
Wright, George W., Jauch, and Clymer. 2,779,503.
- Coach & Car Equipment Corp.: *See*—
Brandon, Joseph J. 2,801,678.
- Coady, Marguerite S., to Kreisler Corp. Beach carryall bag. 2,792,576, 5-21-57, Cl. 5-337.
- Coakley, Claude A. Bracket for a movable shower curtain rod. 2,796,227, 6-18-57, Cl. 248-264.
- Coakley, Lige, to Bemis Pro. Bag Co. Indicator for printing press. 2,797,610, 7-2-57, Cl. 88-14.
- Coal Industry (Patents) Ltd.: *See*—
Chamberlain, Eric A. C., Waters, and Robertson. 2,778,499.
Gregory, Harry R., and Kendal. 2,809,395.
Hirst, Arthur A. 2,789,568.
Torrance, John J., and Ashley. 2,797,834.
- Coale, Franklin S., to Sperry Rand Corp. Rectangular wave guide to E-guide transition. 2,802,991, 8-13-57, Cl. 333-21.
- Coan Mfg. Co.: *See*—
Gale, Ronald. 2,814,317.
- Coan, Sherwin M.: *See*—
Atkinson, Herbert J., and Coan. 2,807,811.
- Coan, Stephen B.: *See*—
Herzog, Herschel, Hersberg, and Coan. 2,810,734.
- Coanda, Henri, to Sebac Nouvelle S. A. Cyclone separator. 2,796,147, 6-18-57, Cl. 183-87.
- Coanda, Henri, and M. Coanda nee Lecca. Apparatus for purification of undrinkable water. 2,803,591, 8-20-57, Cl. 202-234.
- Coanda, Marguerite: *See*—
Coanda, Henri, and M. 2,803,591.
- Coar, Richard J., to United Aircraft Corp. Dual fuel pump. 2,780,172, 2-5-57, Cl. 103-10.
- Coar, Richard J., to United Aircraft Corp. Automatic feathering control of propeller blades responsive to negative torque. 2,801,701, 8-6-57, Cl. 170-135.72.
- Coar, Richard J., and W. H. Brown, to United Aircraft Corp. Control system for afterburning gas turbine engine. 2,780,054, 2-5-57, Cl. 60-35.6.
- Coast Envelope Co.: *See*—
Miller, Joseph C. 2,777,179.
- Coast Metals, Inc.: *See*—
Baldwin, James F., and Sheets. 2,801,165.
Cape, Arthur T. 2,801,164.
Cape, Arthur T. 2,806,129.
Kough, Harry V. 2,787,497.
Kough, Harry V. 2,800,419.
Rutherford, Winthrop, and Griswold. 2,803,559.
Zampieri, Enrico M., and Cape. 2,803,538.
- Coast Pro-Seal & Mfg. Co.: *See*—
Snow, Floyd E., and York. 2,814,827.
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York, Jones O. 2,801,731.
- Coast Wire Co.: *See*—
Schulze, Kurt E. 2,779,356.
- Coate, Ralph S., and J. R. Meagher, to Radio Corp. of America. Frequency marker. 2,782,380, 2-19-57, Cl. 333-76.
- Coates, Leonard: *See*—
Fenemore, Ronald W., and Coates. 2,784,369.
- Coates, Leroy. Toy instrument panel for cycle handle bars. 2,775,845, 1-1-57, Cl. 46-1.
- Coates, Roy J. C.: *See*—
Sanderson, Thomas E. F., and Coates. 2,814,984.
- Coates, Sydney N. Hot water heater. 2,804,534, 8-27-57, Cl. 219-38.
- Coats & Clark, Inc.: *See*—
MacLachlan, Robert D. 2,799,636.
Morin, Louis H. 2,781,548.
Morin, Louis H. 2,817,139.
- Coats, Hal B., to Blaw-Knox Co. Fluid fogging system. 2,789,893, 4-23-57, Cl. 48-190.
- Cobalt Chemicals, Ltd.: *See*—
Richardson, Bruce F. 2,782,135.
- Cobb, Clifton A., to Penn Controls, Inc. Gas valve. 2,789,784, 4-23-57, Cl. 251-129.
- Cobb, Edwin S., and R. F. Burdette, to General Motors Corp. Method of repairing automobile sheet metal panels. 2,795,523, 6-11-57, Cl. 154-104.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Separation and recovery of ethylene. 2,804,488, 8-27-57, Cl. 260-683.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Production of ethylene. 2,813,920, 11-19-57, Cl. 260-683.
- Cobb, Leland D., to General Motors Corp. One-way clutch. 2,793,729, 5-28-57, Cl. 192-45.1.
- Cobb, Leland D., to General Motors Corp. One-way clutch. 2,812,839, 11-12-57, Cl. 192-45.1.
- Cobert, Joseph C. Hosiery measuring and inspecting device. 2,794,340, 6-4-57, Cl. 73-159.
- Cobbett, Leonard C., to Raytheon Mfg. Co. Compensated listening systems. 2,786,986, 3-26-57, Cl. 340-6.
- Cobbett, Leonard C., to Albert & J. M. Anderson Mfg. Co. Arc-quenching electrical connector. 2,809,360, 10-8-57, Cl. 339-111.
- Coben, William S.: *See*—
King, Frank S., and Coben. 2,779,380.
- Coberly, Clarence J., to Kobe, Inc. Pressure pulsation indicator. 2,812,662, 11-12-57, Cl. 73-388.
- Coberly, Clarence J., to Kobe, Inc. Well pump. 2,812,721, 11-12-57, Cl. 103-203.
- Coberly, Clarence J., to Kobe, Inc. Jet pump for oil wells. 2,812,723, 11-12-57, Cl. 103-260.
- Coberly, Clarence J., to Wulf Process Co. Process of and apparatus for separating tars from gas mixtures. 2,817,411, 12-24-57, Cl. 183-2.
- Cobert, Arthur J., to Beautiful Bryans, Inc. Verge plate. 2,787,146, 4-2-57, Cl. 66-110.
- Cobey Corp.: *The: See*—
Mayhill, Noble, and Brandt. 2,778,510.
Witwer, Wallace J. 2,787,105.
- Cobin, Joseph J. Insulating table pad and cover. 2,805,514, 9-10-57, Cl. 45-68.4.
- Cobine, James D.: *See*—
Yoler, Yusuf A., and Cobine. 2,790,354.
- Coble, Max W.: *See*—
Stephens, Joseph F., Coble, and Sowers. 2,804,143.
- Coburn, Abbott: *See*—
Beckman, George, and Robert. 2,781,818.
- Coburn, Herbert D., to Texas Instruments Inc. Induction soldering machine. 2,803,731, 8-20-57, Cl. 219-9.5.
- Coburn, Orin W. Lens grinder. 2,806,327, 9-17-57, Cl. 51-33.

- Coca-Cola Bottling Works Co., The: See—
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- Coca-Cola Co.: See—
Barnes, William M. 2,805,795.
- Cocanower, Glenn M.: See—
Daily, Arthur M., Arisman, and Cocanower. 2,791,666.
- Cocchiarelli, Orell M.: See—
Smith, Edmund G., and Cocchiarelli. 2,798,424.
Smith, Edmund G., and Cocchiarelli. 2,798,609.
- Cochin, John D. Vehicle frame engaging accessory for automobile hoists. 2,777,538, 1-15-57, Cl. 187-8.75.
- Cochran, Carl J., and M. W. Neuhausen, to Pittsburgh Plate Glass Co. Washer for bent laminated glass. 2,781,534, 2-19-57, Cl. 15-77.
- Cochran, John M., to Westinghouse Electric Corp. Electric discharge apparatus for motor control. 2,798,996, 7-9-57, Cl. 318-308.
- Cochran, Raymond P. Swimming paddle. 2,810,138, 10-22-57, Cl. 9-21.
- Cochran, Walter M., and M. L. Ott, to The Glidden Co. Process for preparing hard butt. 2,783,151, 2-26-57, Cl. 99-118.
- Cochrane Corp.: See—
Applebaum, Samuel B. 2,807,582.
- Cockbain, Ernest G.: See—
Lowe, Arnold J., Butler, and Cockbain. 2,791,567.
- Cockburn, Curtis D.: See—
Geyer, Bernard H., Jr., and Cockburn. 2,808,203.
- Cockburn, Curtis D., to General Electric Co. Pulse generators. 2,787,707, 4-2-57, Cl. 250-27.
- Cockburn, David H. Rotary fluid pressure pumps and motors of the eccentric vane type. 2,778,317, 1-22-57, Cl. 103-134.
- Cockburn, Donald: See—
Rhee, Daniel, and Cockburn. 2,808,491.
- Cocker Machine and Foundry Co.: See—
Seawell, Joseph T. 2,795,839.
- Cockerham, Frank E., to Thompson Products, Inc. Cam action coaxial switch. 2,814,696, 11-26-57, Cl. 200-153.
- Cockoros, George: See—
Strelakos, George P., and Cockoros. 2,806,472.
- Cockram, Reginald W. J., to The Pyrene Co., Ltd. Devices responsive to rates of change of acceleration. 2,776,829, 1-8-57, Cl. 264-1.
- Cockrell, James L., Jr., to Ross-Martin Co. Mineral specimen envelope. 2,788,935, 4-16-57, Cl. 229-62.
- Cockrell, Jesse S. Filter. 2,792,121, 5-14-57, Cl. 210-334.
- Coco, Joseph C., to Muzak Corp. Apparatus for controlling audio transducing systems. 2,802,060, 8-6-57, Cl. 179-100.1.
- Coddington, Howard O., to Sunray Co. Floating bottom container. 2,798,640, 7-9-57, Cl. 220-93.
- Coddington, Howard O., to Sunray Co. Floating bottom attachment for yarn trucks. 2,798,641, 7-9-57, Cl. 220-93.
- Coder, Fred T., and H. W. Schaefelberger, to Western Electric Co., Inc. Washer dispenser and power screwdriver assembly. 2,787,303, 4-2-57, Cl. 144-32.
- Codman, F. L. & J. C., Co.: See—
Rock, Albin S. 2,783,594.
- Cody Gas Co.: See—
Lee, Harold J. 2,800,244.
- Coe, Clarence S., to Union Oil Co. of California. Method for preparing 3,3'-5,5'-tetra-alkyl-4,4'-diphenogquinones. 2,785,188, 3-12-57, Cl. 260-396.
- Coe, Elvin L., and W. P. Dooley, to American Viscose Corp. Apparatus for treating continuous filamentary bundles. 2,782,623, 2-26-57, Cl. 68-181.
- Coe Mfg. Co., The: See—
Krag, Frederic S. 2,775,787.
Parker, Clarence E. 2,804,891.
Parker, Clarence E. 2,818,115.
- Coe, Raymond S. Slat type awning construction. 2,792,598, 5-21-57, Cl. 20-57.5.
- Coe, Richard S. Automobile hydraulic hood actuator. 2,800,324, 7-23-57, Cl. 268-75.
- Coen, Aldo L., to Dormeyer Corp. Basket. 2,795,335, 6-11-57, Cl. 210-497.
- Coen, Gerald L. Remote control system for recording-reproducing machines. 2,811,585, 10-29-57, Cl. 179-6.
- Coenders, August. Smoker's lighter. 2,795,945, 6-18-57, Cl. 67-7.1.
- Coes, Laring, Jr., and M. S. Kraft, to Norton Co. Pulpstone. 2,810,995, 10-29-57, Cl. 51-206.4.
- Coeterier, Frederik, to Hartford National Bank and Trust Co., as trustee. Self-contained velocity modulator oscillator. 2,779,892, 1-29-57, Cl. 315-5.
- Coeterier, Frederik, to North American Philips Co., Inc. Device for producing frequency-modulated ultra short waves. 2,809,352, 10-8-57, Cl. 332-7.
- Coeterier, Frederik, to North American Philips Co., Inc. Device for producing ultra-short waves. 2,816,245, 12-10-57, Cl. 315-5.21.
- Coetzee, Louis, and E. A. Wainwright, to Lever Brothers Co. Treatment of soap. 2,802,793, 8-13-57, Cl. 252-367.
- Cofek, Henry J., to Raybestos-Manhattan, Inc. Method for curing friction compositions. 2,790,206, 4-30-57, Cl. 18-55.
- Cofek, Henry J., to Raybestos-Manhattan, Inc. Production of friction material. 2,811,750, 11-5-57, Cl. 18-55.
- Cofer, Kenneth B., to Shell Development Co. Production of glycerine. 2,810,768, 10-22-57, Cl. 260-635.
- Coff, Leo. Prestressed concrete building. 2,786,349, 3-26-57, Cl. 72-15.
- Coffaro, John, to De Francisci Machine Corp. Apparatus for drying long alimentary paste products. 2,804,697, 9-3-57, Cl. 34-207.
- Coffeen, William W., to Metal & Thermit Corp. Barium titanate ceramic dielectrics. 2,789,061, 4-16-57, Cl. 106-39.
- Coffer, Henry F.: See—
Clark, Roscoe C., Jr., Coffer, and Shock. 2,803,555.
- Coffer, Lynn W., to Climax Molybdenum Co. Process for reducing metal oxides. 2,789,896, 4-23-57, Cl. 75-27.
- Coffey, Daniel J. Shopping bag carrier. 2,798,731, 7-9-57, Cl. 280-37.
- Coffey, Edward J.: See—
Fischer, Paul E., and Coffey. 2,817,935.
- Coffey, Henry F.: See—
Taggart, John K., and Coffey. 2,786,566.
- Coffey, Irven E., to ACF Industries, Inc. Fuel pump dome structure. 2,779,353, 1-29-57, Cl. 138-26.
- Coffey, Irven E., to ACF Industries, Inc. Fuel pump assembly. 2,786,423, 3-26-57, Cl. 103-150.
- Coffey, Irven E., deceased; Mercantile Trust Co., executor, to ACF Industries, Inc. Electric motor control for wind-shield wipers. 2,798,999, 7-9-57, Cl. 318-475.
- Coffey, Irven E., to ACF Industries, Inc. Check valve device. 2,803,265, 8-20-57, Cl. 137-516.21.
- Coffield, Thomas H.: See—
Filbey, Allen H., and Coffield. 2,807,653.
- Coffman, Alvin, to Inland Steel Co. Safety reel. 2,791,397, 5-7-57, Cl. 254-159.
- Coffman, Donald D., and H. N. Cripps, to E. I. du Pont de Nemours & Co. Long-chain unsaturated dicarboxylic acids and esters thereof. 2,811,551, 10-29-57, Cl. 260-537.
- Coffman, Fred B., and F. E. Davis. Continuous furnace for heating slabs or the like. 2,780,453, 2-5-57, Cl. 263-6.
- Coffman, Paul A., Jr., to B-I-F Industries, Inc. Continuous feeder. 2,805,036, 9-3-57, Cl. 249-26.
- Coffman, Paul A., Jr., to B-I-F Industries, Inc. Continuous weigher. 2,805,417, 9-3-57, Cl. 249-27.
- Coffman, Raphael T., to the United States of America as represented by the United States Atomic Energy Commission. Seal for rotating shaft. 2,815,968, 12-10-57, Cl. 286-11.1.
- Coffman, William E. Magnetic ribbon guide and ribbon for typewriters and the like. 2,791,312, 5-7-57, Cl. 197-170.
- Cofield, Eugene P., Jr., H. W. Sams, and L. A. Woodward, to Scripto, Inc. Ball point writing unit. 2,777,422, 1-15-57, Cl. 120-42.4.
- Cogburn, Harley L.: See—
Burton, Harry C., and Cogburn. 2,795,357.
- Cogburn, Harley L. Adjustable jaw plier type jar opener. 2,779,224, 1-29-57, Cl. 81-3.44.
- Coggeshall, Thellwell R., to General Electric Co. Electric circuit breaker. 2,789,186, 4-16-57, Cl. 200-150.
- Coggeshall, Thellwell R., to General Electric Co. Cable type operating mechanism for an electric circuit breaker. 2,810,808, 10-22-57, Cl. 200-161.
- Coggeshall, Thellwell R., and H. Bany, to General Electric Co. Electrical protective equipment. 2,804,576, 8-27-57, Cl. 317-9.
- Coggins, Donald I., and H. Heins, to Sylvania Electric Products Inc. Airport approach lighting. 2,794,967, 6-4-57, Cl. 340-26.
- Coggins, J. B., Mfg. Co.: See—
Coggins, Leslie H. 2,803,017.
- Coggins, Leslie H., to J. B. Coggins Mfg. Co. Toilet seat hinge. 2,803,017, 8-20-57, Cl. 4-236.
- Coggins, Robert W., to National Tank Co. Methods and means for low temperature oil and gas separation. 2,809,713, 10-15-57, Cl. 183-2.7.
- Coghlan, Charles A.: See—
Hess, Howard V., and Coghlan. 2,816,822.
- Cogovan, Edward J., and B. W. Peebles, to Mohasco Industries, Inc. Method of making pile fabrics. 2,790,225, 4-30-57, Cl. 28-72.
- Cogovan, Edward J., and E. D. Friderici, to Mohasco Industries, Inc. Soil resistant pile fabrics and method of making them. 2,810,948, 10-29-57, Cl. 28-74.
- Cogsdill, Stuart A., to Cogsdill Twist Drill Co. Twist drill having oil passages therein and method of construction. 2,811,875, 11-5-57, Cl. 76-108.
- Cogsdill Twist Drill Co.: See—
Cogsdill, Stuart A. 2,811,875.
- Cohen, Aaron J. Game apparatus. 2,811,360, 10-29-57, Cl. 273-130.
- Cohen, Alex. Multiple electric outlet. 2,792,561, 5-14-57, Cl. 339-157.
- Cohen, Alvin E.: See—
Campbell, Ernest F., Girouard, and Cohen. 2,792,759.
- Cohen, Arthur, and H. J. Lutz, to Sylvania Electric Products Inc. Photoflash lamp. 2,810,283, 10-22-57, Cl. 67-31.
- Cohen, Charles A., and C. W. Muessig, to Esso Research and Engineering Co. Dimerization process. 2,806,072, 9-10-57, Cl. 260-683.15.
- Cohen, Irvin. Pinking shears. 2,800,715, 7-30-57, Cl. 30-230.
- Cohen, Isadore. Nestable and stackable fiberboard container. 2,791,365, 5-7-57, Cl. 229-23.
- Cohen Isadore R., to Commercial Solvents Corp. Process for producing bacitracin. 2,789,941, 4-23-57, Cl. 195-60.
- Cohen, Jacob. Sideburn cutting gauge. 2,786,477, 3-26-57, Cl. 132-45.

- Cohen, Jerrold, to the United States of America as represented by the Secretary of the Army. Junction transistor. 2,777,101, 1-8-57, Cl. 317-235.
- Cohen, Joseph, and E. D. Besser. Propellant powder and process for making same. 2,779,288, 1-29-57, Cl. 102-98.
- Cohen, Joseph E.: *See*—
Langberg, Samuel, Cohen, and Gumpertz. 2,785,317.
- Cohen, Leo, to Jack & Heintz, Inc. Overspeed shut-off device for turbines. 2,784,935, 3-12-57, Cl. 253-59.
- Cohen, Mark I., and R. J. Gully. Earth boring machine. 2,810,550, 10-22-57, Cl. 255-22.
- Cohen, Martin J., to Radio Corp. of America. Cold cathode electron discharge devices. 2,789,240, 4-16-57, Cl. 313-54.
- Cohen, Martin J., to the United States of America as represented by the Secretary of the Air Force. Ionization type voltage charging device. 2,817,776, 12-24-57, Cl. 310-3.
- Cohen, Maurice, and J. H. Karson. Vehicle cover. 2,787,311, 4-2-57, Cl. 150-52.
- Cohen, Max, to Esso Standard Societe Anonyme Francaise. Dewaxing process. 2,798,027, 7-2-57, Cl. 196-19.
- Cohen, Meyer B. Bottle opener and cap retainer. 2,808,747, 10-8-57, Cl. 81-33.
- Cohen, Milton J. Container for preserving medicaments. 2,787,269, 4-2-57, Cl. 128-272.
- Cohen, Milton R.: *See*—
Hafekost, Frederick. 2,776,482.
- Cohen, Moe J., to Pyramid Leather Goods Co., Inc. Hand bags. 2,799,316, 7-16-57, Cl. 150-28.
- Cohen, Murray S.: *See*—
Brennan, Thomas W., and Cohen. 2,814,249.
- Cohen, Myron: *See*—
Gisser, Isidore, and Cohen. 2,787,492.
- Cohen, Nathaniel L., to the United States of America as represented by the Secretary of the Navy. Voltage amplitude control. 2,791,741, 5-7-57, Cl. 323-30.
- Cohen, Nathaniel L., and J. J. Turano, to Air Associates, Inc. Facsimile printer blade assembly. 2,801,149, 7-30-57, Cl. 346-139.
- Cohen, Oscar P., and J. F. Heaps, to Monsanto Chemical Co. Rosin sized paper prepared from cyanoalkylated wood pulp and method of producing same. 2,794,736, 6-4-57, Cl. 92-3.
- Cohen, Raymond. Device to train a dental patient to open and close his lower jaw in his terminal hinge position. 2,796,866, 6-25-57, Cl. 128-303.
- Cohen, Sidney J. Vacuum currycomb device. 2,780,829, 2-12-57, Cl. 15-365.
- Cohen, Stanley A.: *See*—
Berlin, Jack, Cohen, Fisch, and Zimet. 2,787,761.
- Cohen, Stanley L.: *See*—
Mazza, Harold, Cohen, and Schafer. 2,776,201.
Mazza, Harold, Cohen, and Schafer. 2,776,202.
- Cohen, Toby. Magnet carrying tooth brush. 2,798,241, 7-9-57, Cl. 15-143.
- Cohen & Turtz: *See*—
Mansfield, William R. 2,789,796.
- Cohen, William. Garment bag frame. 2,779,479, 1-29-57, Cl. 211-119.
- Cohen, William. Tracheal tube assembly and tracheal plug. 2,786,469, 3-26-57, Cl. 128-351.
- Cohn, Charles C. Method and apparatus for electrolytic treatment of slide fasteners. 2,790,756, 4-30-57, Cl. 204-23.
- Cohn, David, to T. Cohn Inc. Bowling game and pin retraction mechanism therefor. 2,776,137, 1-1-57, Cl. 273-41.
- Cohn, David, to T. Cohn Inc. Target game. 2,777,695, 1-15-57, Cl. 273-102.
- Cohn, David, to Model Plastic Corp. Joint structure for a doll limb. 2,804,721, 9-3-57, Cl. 46-173.
- Cohn, Eugene: *See*—
Cohn, Joseph, Walter, and Cohn. 2,792,615.
Cohn, Joseph, Walter, and Cohn. 2,797,086.
- Cohn, Henry I. Combination flashlight and compass. 2,810,821, 10-27-57, Cl. 240-64.
- Cohn, Irwin. Water pistol. 2,798,642, 7-9-57, Cl. 222-79.
- Cohn, Joseph, J. G. Walter, and E. Cohn, to Samcoe Holding Corp. Method and apparatus for handling textile fabric. 2,792,615, 5-21-57, Cl. 26-18.5.
- Cohn, Joseph, J. G. Walter, and E. Cohn, to Samcoe Holding Corp. Control apparatus. 2,797,086, 6-25-57, Cl. 271-23.
- Cohn, Joseph J. Motor control for awning apparatus. 2,789,263, 4-16-57, Cl. 318-207.
- Cohn, Seymour B., to Sperry Rand Corp. Servo regulated microwave energy source. 2,786,180, 3-19-57, Cl. 324-58.
- Cohn, Seymour B., to Sperry Rand Corp. Ultra high frequency impedance matching stub. 2,808,571, 10-1-57, Cl. 333-33.
- Cohn, Seymour B., to Sperry Rand Corp. Wave guide corner. 2,810,111, 10-15-57, Cl. 333-98.
- Cohn, Seymour B., and R. E. Henning, to Sperry Rand Corp. Power measuring instrument and method. 2,776,406, 1-1-57, Cl. 324-103.
- Cohn, T., Inc.: *See*—
Cohn, David. 2,776,137.
Cohn, David. 2,777,695.
- Cohrs, Arthur H. and H. A., and L. R. Smieja: said H. A. Cohrs to said A. H. Cohrs and said Smieja. Turf perforating and aerating machine. 2,800,066, 7-23-57, Cl. 97-44.
- Cohrs, Fred R., and W. R. Smith, to The Upjohn Co. Device for indexing and rotating articles. 2,791,317, 5-7-57, Cl. 198-33.
- Cohrs, Herbert A.: *See*—
Cohrs, Arthur H. and H. A., and Smieja. 2,800,066.
- Coil, Dale C. Refrigerated air water cooling system. 2,803,117, 8-20-57, Cl. 62-141.
- Coit, Burton C., Jr., to Tri-State Engineering Co. Shipping and storage crates. 2,780,381, 2-5-57, Cl. 220-1.
- Coit, Burton C., Jr., to Tri-State Engineering Co. Latch for crate like containers. 2,780,383, 2-5-57, Cl. 220-7.
- Coker, Frank B., and O. W. Schoenberg, to United Geophysical Corp. Magnetometer survey apparatus. 2,777,112, 1-8-57, Cl. 324-8.
- Coker, George T., Jr.: *See*—
Buck, Frank A. M., and Coker. 2,798,045.
- Colaiaco, August P.: *See*—
Antel, Damon C., Ricks, and Colaiaco. 2,795,040.
Boyer, John L., and Colaiaco. 2,780,759.
- Colaiaco, August P., to the United States of America as represented by the Secretary of the Navy. Vapor electric device. 2,776,392, 1-1-57, Cl. 313-171.
- Colander, Roy E., and W. H. Chester, to Bendix Aviation Corp. Bridge controlled oscillator. 2,782,311, 2-19-57, Cl. 250-36.
- Colaner, Louis, Sr. Bed having means for lifting helpless occupant. 2,809,381, 10-15-57, Cl. 5-87.
- Colarusso, Augustine L.: *See*—
Coleman, Didney, and Colarusso. 2,784,245.
- Colarusso, Augustine L., to Van Brode Milling Co., Inc. Brackets for desalting seawater. 2,785,136, 3-12-57, Cl. 252-179.
- Colarusso, Augustine L., to Van Brode Milling Co., Inc. Plastic containers for processing sea water. 2,794,553, 6-4-57, Cl. 210-482.
- Colber Corp., The: *See*—
Collett, Anthony. 2,782,385.
- Colbert, William H., and W. L. Morgan, to Libbey-Owens-Ford Glass Co. Electrically conducting coated glass or ceramic articles suitable for use as a lens, a window or a windshield, or the like. 2,803,351, 10-1-57, Cl. 117-211.
- Colburn, Richard R. Tractor mounted rotary disc mower. 2,801,510, 8-6-57, Cl. 56-25.4.
- Colby, John V. Litter. 2,801,124, 7-30-57, Cl. 294-15.
- Colby, Robert W., and R. J. Mesler, Jr., to The Dow Chemical Co. Poultry feed. 2,802,736, 8-13-57, Cl. 99-4.
- Colby, Robert W., and R. J. Mesler, Jr., to The Dow Chemical Co. Poultry feed. 2,805,949, 9-10-57, Cl. 99-4.
- Colby, Roy L., Jr., to National Steel Corp. Foundation unit and building including same. 2,801,716, 8-6-57, Cl. 189-1.
- Colclazier, Wayne G. Power mower with pneumatic conveying and collecting means. 2,777,270, 1-15-57, Cl. 56-25.4.
- Cole, Cornelius C. Trousers hanger with trigger and stay means. 2,792,979, 5-21-57, Cl. 223-96.
- Cole, E. K., Ltd.: *See*—
Cox, Victor J., and Reeves. 2,797,325.
- Cole, Edward L., and W. E. Skelton, to The Texas Co. Process for improving lubricating oils by hydrotreating in a first stage and then hydrofinishing under milder conditions. 2,779,713, 1-29-57, Cl. 196-35.
- Cole, Edward L., and W. E. Skelton, to The Texas Co. Lubricating oil additives. 2,799,657, 7-16-57, Cl. 252-45.
- Cole, Edward L., and W. E. Skelton, to The Texas Co. Sulfur-containing polymers. 2,817,653, 12-24-57, Cl. 260-139.
- Cole, Edward N., and E. J. Naudzius, to General Motors Corp. Fuel tank and fitting. 2,779,498, 1-29-57, Cl. 220-86.
- Cole, Elisha W. Tractor wheel power take-off for driving hitch supported implements. 2,792,065, 5-14-57, Cl. 180-53.
- Cole, Frank E., Jr., to Craig Machine, Inc. Drawer suspension apparatus for filing cabinets and the like. 2,780,510, 2-5-57, Cl. 312-336.
- Cole, Geneva. Chill chamber-cooling compartment. 2,807,939, 10-1-57, Cl. 62-2.
- Cole, George H., to Minneapolis-Honeywell Regulator Co. Electromagnetic switches. 2,797,372, 6-25-57, Cl. 317-182.
- Cole, Gordon E., Jr., to Air Reduction Co., Inc. Stabilization of chlorinated hydrocarbons with 3,3-dimethoxy-2-methylbutan-2-ol. 2,802,885, 8-13-57, Cl. 260-652.5.
- Cole, Gordon E., Jr., to Air Reduction Co., Inc. Stabilization of chlorinated hydrocarbons with 3-amino-2-methylbutan-2-ol. 2,802,886, 8-13-57, Cl. 260-652.5.
- Cole, Henry B.: *See*—
Ellis, Charles A., and Cole. 2,798,408.
- Cole, Herbert W.: *See*—
Bryant, John H., Cole, and McEwan. 2,798,981.
- Cole Hot Blast Mfg. Co.: *See*—
Cole, Hugh L. 2,808,495.
- Cole, Howard W., Jr. Self-locking shaft actuator. 2,812,044, 11-5-57, Cl. 192-8.
- Cole, Hugh L., to Cole Hot Blast Mfg. Co. Electrically operated incinerator. 2,808,495, 10-1-57, Cl. 219-19.
- Cole, James C. Leg traction device. 2,817,333, 12-24-57, Cl. 128-84.
- Cole, James E., to The Lamb Electric Co. Sub-assembly for electric motor fan unit. 2,786,624, 3-26-57, Cl. 230-117.
- Cole, Leonard A.: *See*—
Walker, Alec H. B., and Cole. 2,794,895.
- Cole, Nelson E., to Dana Corp. Truck trailer frame. 2,812,192, 11-5-57, Cl. 280-106.
- Cole, Norman, to York Modern Corp. Road grading rake. 2,787,876, 4-9-57, Cl. 55-17.

- Cole, Quintin P., to General Electric Co. Cyanoisopropylsilanes. 2,776,306, 1-1-57, Cl. 260-448.2.
- Cole, Raymond A.: *See*—
Fuller, Rufus W., and Cole. 2,807,917.
- Cole, Robert E.: *See*—
Houska, Lawrence, Cole, and Perl. 2,788,180.
- Cole, Thomas D., to Lockport Mills, Inc. Child's chair pad. 2,782,839, 2-26-57, Cl. 155-182.
- Cole, Thomas M., to Federal Electric Products Co. Thermal latching means, particularly for ambient temperature compensation of circuit breakers. 2,803,721, 8-20-57, Cl. 200-116.
- Cole, Thomas M., and P. M. Christensen, to Federal Pacific Electric Co. Face plate and dead front switches. 2,776,355, 1-1-57, Cl. 200-168.
- Cole, Thomas M., and P. M. Christensen, to Federal Electric Products Co. Automatic circuit breakers. 2,811,604, 10-29-57, Cl. 200-116.
- Cole, Thomas M., and P. M. Christensen, to Federal Pacific Electric Co. Metal-clad switchgear. 2,811,618, 10-29-57, Cl. 200-168.
- Cole, Ward: *See*—
Brown, William E., and Cole. 2,800,541.
- Cole, Ward, to General Motors Corp. Method of making an electrical connection. 2,782,491, 2-26-57, Cl. 29-155.5.
- Cole, William E., II: *See*—
Hudson, Russel O. 2,800,573.
- Colegrove, Nathaniel E., to White Sewing Machine Corp. Motor speed controller. Re. 24,308, 4-23-57, Cl. 318-346.
- Colegrove, Nathaniel E., to White Sewing Machine Corp. Sewing machine bobbin case. 2,802,438, 8-13-57, Cl. 112-231.
- Coleman, Charles F.: *See*—
Arendale, William F., and Coleman. 2,797,143.
- Coleman, Clarence B. Load handling and transporting vehicle. 2,812,873, 11-12-57, Cl. 214-515.
- Coleman Co., Inc.: *See*—
Kice, Jack W. 2,811,091.
- McCutchen, John E. 2,804,066.
- McCutchen, John E., and Hueston. 2,806,468.
- Newton, Alwin B. 2,803,951.
- Newton, Alwin B. 2,809,019.
- Newton, Alwin B. 2,811,223.
- Redmond, John M., Jr. 2,811,092.
- Coleman, Daniel B., to North American Aviation, Inc. Sound abatement device for jet engines. 2,810,449, 10-22-57, Cl. 181-43.
- Coleman Engineering Co.: *See*—
Feeney, Thomas A., and Adams. 2,809,369.
- Coleman, Eugene F.: *See*—
Plastaras, James C., and Coleman. 2,794,486.
- Coleman, George M.: *See*—
Ajioka, James S., and Coleman. 2,818,565.
- Coleman, Harold M.: *See*—
Zimont, Leonard J., Coleman, and Hopkins. 2,788,278.
- Coleman Instruments, Inc.: *See*—
Staunton, John J. J. 2,802,174.
- Coleman, James J., to The Patterson-Kelley Co., Inc. Self-cleaning screen device. 2,781,916, 2-19-57, Cl. 210-152.
- Coleman, John H., to Radiation Research Corp. Beam deflection electrometer amplifier tubes. 2,781,474, 2-12-57, Cl. 315-21.
- Coleman, John H., to Radiation Research Corp. Nuclear current converter. 2,809,306, 10-8-57, Cl. 310-3.
- Coleman, John H., W. Hayden, Jr., and C. J. O'Keefe, to The Norwich Pharmacal Co. Process of preparing 2-semicarbazidoacetic acid. 2,779,786, 1-29-57, Cl. 260-534.
- Coleman, John R. Mounting for steel window frames. 2,782,886, 2-26-57, Cl. 189-75.
- Coleman, Joseph J., and S. Kurlandsky, to Burgess Battery Co. Electrically conductive adhesive tape. 2,808,352, 10-1-57, Cl. 117-227.
- Coleman, Kenneth R., to Taylor, Taylor & Hobson Ltd. Refracting compound prism anamorphic optical systems. 2,792,751, 5-21-57, Cl. 88-57.
- Coleman, Kenneth R., to Taylor, Taylor & Hobson Ltd. Two member anamorphic prism systems having their operative planes at right angles and axial deviation directions parallel. 2,798,411, 7-9-57, Cl. 88-57.
- Coleman, Kenneth R., to Taylor, Taylor, & Hobson Ltd. Anamorphic optical systems. 2,810,323, 10-22-57, Cl. 88-57.
- Coleman, Lester L., and L. B. Spaulding, to The Upjohn Co. Process for the recovery of heparin. 2,797,184, 6-25-57, Cl. 167-74.
- Coleman, Lloyd B. Tool for removing bearings. 2,800,708, 7-30-57, Cl. 29-275.
- Coleman, Marvin W. Guide for power driven rotary tools. 2,789,594, 4-23-57, Cl. 143-47.
- Coleman, Marvin W. Ventilating louver assembly. 2,803,185, 8-20-57, Cl. 98-121.
- Coleman, Orville K.: *See*—
Road, Richard A., and Coleman. 2,788,472.
- Coleman, Orville K., to Duncan Electric Co., Inc. By-pass facilities for socket-type electric meters. 2,782,387, 2-19-57, Cl. 339-19.
- Coleman, Richard A., and L. H. Long, to J. D. Ferry Co., Inc. Vegetable peeling machine. 2,795,253, 6-11-57, Cl. 146-49.
- Coleman, Robert E., Jr., and G. N. Miles, to Jet-Heat, Inc. Humidifier for use with warm air furnaces. 2,805,660, 9-10-57, Cl. 126-113.
- Coleman, Robert H.: *See*—
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- Tadler, Thomas J., Jr., and Coleman. 2,789,885.
- Coleman, Sidney, and A. L. Colarusso, to Van Brode Milling Co., Inc. Storage battery supports. 2,784,245, 3-5-57, Cl. 136-166.
- Coleman, Sidney, and R. L. Nowak, to Van Brode Milling Co., Inc. Battery terminal protectors. 2,800,522, 7-23-57, Cl. 136-135.
- Coleman, Spencer A. Collapsible combination projector and enlarger. 2,797,615, 7-2-57, Cl. 88-24.
- Coleman, Walter T.: *See*—
Morris, John De L. S. 2,795,702.
- Coleman, William B., and F. A. Goff, to Victor Chemical Works. Protective film for ferrous metals. 2,811,456, 10-29-57, Cl. 106-14.
- Coleman, William E., to United States Steel Corp. Apparatus for gaging and classifying sheets. 2,788,896, 4-16-57, Cl. 209-82.
- Coleman, William E., and G. H. Rendel, to United States Steel Corp. Apparatus for conveying magnetizable sheets. 2,814,398, 11-26-57, Cl. 214-11.
- Coleman, William R., Jr. Flower pot collar plant protector. 2,785,508, 3-19-57, Cl. 47-34.
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- Colendar, Frederick J., to Sloan Valve Co. Diaphragm for flush valves. 2,776,812, 1-8-57, Cl. 251-40.
- Coler, Myron A.: *See*—
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- Coler, Myron A., and A. S. Louis, to the United States of America as represented by the Secretary of the Navy. Method for manufacturing resistance elements. 2,799,051, 7-16-57, Cl. 18-47.5.
- Coles, Fred A.: *See*—
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- Coles, Leon M. Hair trimmer. 2,778,104, 1-22-57, Cl. 30-30.
- Collette, Michael, to Hebel Enterprise Corp. Electric alarm device. 2,786,195, 3-19-57, Cl. 340-220.
- Coley, Nelson B.: *See*—
Albrighton, Reginald F., and Coley. 2,802,199.
- Coley, Nelson B., and R. F. Albrighton, to General Railway Signal Co. Code communication system. 2,786,938, 3-26-57, Cl. 246-3.
- Colgate-Palmolive Co.: *See*—
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- Gerecht, John F., Krems, and Weiss. 2,806,842.
- Gerecht, John F., Krems, and Weiss. 2,806,844.
- Gray, Frederick W. 2,809,937.
- Heald, Robert F., and Sweet. 2,812,018.
- Henkin, Hyman. 2,817,342.
- Henkin, Hyman, and Messina. 2,783,181.
- Lawrence, Edward A., and Becher. 2,801,257.
- Nelson, Manno F., Jr. 2,783,182.
- Richter, Virgil J. 2,806,814.
- Russell, Kenneth L., and Nelson. 2,779,708.
- Schulerud, Albert L. 2,776,544.
- Schurman, Jack V. 2,804,466.
- Sonntag, Norman O. V. 2,801,256.
- Wellman, William W. 2,778,773.
- Colibri Lighters Ltd.: *See*—
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- Colicel, Donato C. D. Slicing knife gauge. 2,793,435, 5-28-57, Cl. 30-284.
- Colket, William W., to Sun Oil Co. Tank cleaning portable separator. 2,782,929, 2-26-57, Cl. 210-60.
- Collar, Charles G., to Marconi's Wireless Telegraph Co. Ltd. Cooling systems for gas filled electron discharge devices. 2,818,530, 12-31-57, Cl. 315-117.
- Collar, Frank R., to Adams Rite Mfg. Co. Two-way door lock mechanism. 2,784,993, 3-12-57, Cl. 292-223.
- Collar, Harlan W.: *See*—
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- Collar, Lynn H. Machine for grinding and polishing gem facets. 2,779,138, 1-29-57, Cl. 51-124.
- Collar, Lynn H. Window construction. 2,798,264, 7-9-57, Cl. 20-62.
- Collard, John, to Electric & Musical Industries Ltd. Mechanism for converting angular movement into axial movement. 2,791,754, 5-7-57, Cl. 333-83.
- Collardin, Gerardo, and F. Von Rühling; said Von Rühling assor, to said Collardin. Method of and apparatus for spraying. 2,794,677, 6-4-57, Cl. 299-28.8.
- Collet, Marc A., to Paul Collet & Co. Ltd. Folding door. 2,802,522, 8-13-57, Cl. 160-84.
- Collet, Paul, & Co. Ltd.: *See*—
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- Collett, Anthony, to The Colber Corp. Electronic tuner. 2,782,385, 2-19-57, Cl. 336-136.
- Collett, Charles H. Apparatus for applying a sucker rod protector. 2,776,469, 1-8-57, Cl. 29-236.
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- Colley, Rowan H., to Rolls-Royce Ltd. Jet-nozzle arrangement with outlet-area varying means. 2,780,056, 2-5-57, Cl. 60-35.6.

- Collander, Carl T., $\frac{1}{2}$ to The High Standard Mfg. Corp., and $\frac{1}{2}$ to Sears, Roebuck and Co. Cartridge lifter biased by spring with toggle action. 2,817,917, 12-31-57, Cl. 42-17.
- Collier Carbon and Chemical Corp.: See—
- Collier, Robert T. 2,813,822.
- Collier, Charles W. Cow stanchion. 2,815,735, 12-10-57, Cl. 119-147.
- Collier, Henry O. J.: See—
- Austin, William C., Collier, Potter, and Taylor. 2,791,582.
- Collier, Henry O. J., M. D. Potter, and E. P. Taylor, to Allen & Hanburys Ltd. α -bisquinoxolinium compounds. 2,791,588, 5-7-57, Cl. 260-286.
- Collier Keyworth Co.: See—
- Sheldrick, Henry W., and Baumgartner. 2,783,053.
- Collier, Richard. Electric heat regulating switch. 2,798,131, 7-2-57, Cl. 200-122.
- Collier, Richard. Electric heat-regulating switches. 2,798,132, 7-2-57, Cl. 200-122.
- Collier, Robert T.: See—
- Keller, Philip B., and Kofford. 2,787,986.
- Collier, Robert T., to Collier Carbon and Chemical Corp. Apparatus and method for calcining petroleum coke, coal and similar substances containing volatile combustible material. 2,813,822, 11-19-57, Cl. 202-6.
- Collier, Theodore J., to Owens-Corning Fiberglas Corp. Glass fiber article and process of plural coated fiber and process of preparation. 2,801,189, 7-30-57, Cl. 117-72.
- Collier, William R.: See—
- Ambler, Geoffrey H., and Collier. 2,810,164.
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- Colling, Charles E., and J. S. Burney. Drill sorting machine. 2,794,551, 6-4-57, Cl. 209-99.
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- Grajek, Edwin J., Kalina, and Wagner. 2,785,042.
- McKee, Walter W. 2,793,034.
- Collins, Albert V., and L. C. Leopold, to The McGean Chemical Co. Manufacture of metallic soaps useful as driers. 2,793,962, 5-28-57, Cl. 106-310.
- Collins, Arthur E., to The Barr Rubber Products Co. Return ball packaging machine. 2,791,873, 5-14-57, Cl. 53-116.
- Collins, Arthur R., F. A. Ryder, and R. D. Randall, to Stewart-Warner Corp. Modulating control device for gas-fueled heating system. 2,811,166, 10-29-57, Cl. 137-100.
- Collins, Charles E. and M. E. Pneumatic yard cleaning machine. 2,809,389, 10-15-57, Cl. 15-339.
- Collins, Douglas. Oven door. 2,815,018, 12-3-57, Cl. 126-190.
- Collins, Earl E.: See—
- Mancuso, Joseph P. 2,804,262.
- Collins, Floyd Y., to Draper Corp. Shuttle for looms. 2,778,381, 1-22-57, Cl. 139-207.
- Collins, Froy L. Portable heater. 2,807,257, 9-24-57, Cl. 126-109.
- Collins, George: See—
- Kuttner, Warner L., Collins, Thomson, and Smith. 2,786,720.
- Collins, George J., to Midland Chemical Corp. Wrinkle drying coating compositions containing ethyl silicate. 2,798,057, 7-2-57, Cl. 260-19.
- Collins, George R. Keyhole saw with double parallel cutting edges. 2,804,110, 8-27-57, Cl. 145-31.
- Collins, Harold B. Holding means for calking gun plunger rods. 2,784,603, 3-12-57, Cl. 74-169.
- Collins, Harold B. Calking guns. 2,786,604, 3-26-57, Cl. 222-80.
- Collins, Harold B. Anti-drip calking gun and cartridge. 2,815,151, 12-3-57, Cl. 222-327.
- Collins, Howard W., to Westinghouse Electric Corp. Control systems for switching transistors. 2,809,303, 10-8-57, Cl. 307-88.
- Collins, Howard W., R. W. Roberts, and W. J. Dunnet, to the United States of America as represented by the United States Atomic Energy Commission. Magnetic amplifier circuits. 2,807,006, 9-17-57, Cl. 340-213.
- Collins, Irene: See—
- Snyder, James E., Swartz, and Collins. 2,781,900.
- Collins, John W., D. C. Cully, and W. J. Hampshire, to Good-year Aircraft Corp. Method of making reinforced plastic structure. 2,793,971, 5-28-57, Cl. 154-110.
- Collins, Joseph L., to Aerovox Corp. Electrical capacitor. 2,779,813, 1-29-57, Cl. 174-52.
- Collins, Leo E.: See—
- Rands, William E., and Collins. 2,816,186.
- Collins, Marguerite E.: See—
- Collins, Charles E. and M. E. 2,809,389.
- Collins, Neil R.: See—
- Clarke, Robert E., and Collins. 2,793,942.
- Collins Radio Co.: See—
- Anderson, Eldon. 2,777,992.
- Anderson, William G., Willis, and Hedgcock. 2,799,461.
- Arnold, David C., and McKinley. 2,786,179.
- Beardsley, Frank H. 2,791,328.
- Bolie, Victor W. 2,800,596.
- Brandt, William C., Couillard, Jacobson, Martin, and Perkins. 2,808,564.
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- Collins Radio Co.: See—Continued
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- Doelz, Melvin L. 2,802,992.
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- Gerks, Irvin H. 2,779,869.
- Gerks, Irvin H. 2,800,583.
- Giacoletto, John P., Goetz, and Wulfsberg. 2,800,618.
- Goetz, John L. 2,786,141.
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- Hathaway, James C. 2,777,999.
- Heston, John L. 2,813,679.
- Hileman, Dale L. 2,817,803.
- Hubbard, Merle R. 2,810,833.
- Ibsen, Lloyd M., and Whittington. 2,808,572.
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- Kennedy, Charles J. 2,791,842.
- Kleithoth, Warren G. 2,802,939.
- Lewis, Herbert O. 2,782,362.
- Lippisch, Alexander M. 2,810,512.
- Marner, Gene R., and McCreary. 2,802,965.
- Mayer, Abbott F., and Rooks. 2,810,875.
- Moseley, Francis L. 2,800,292.
- Ottaway, Charles E. 2,802,350.
- Patton, Henry W. 2,786,149.
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- Patton, Henry W. 2,817,818.
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- Stillwell, Harry F. 2,791,689.
- Stover, Harris A. 2,802,979.
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- Collins, Richard E., to Paramount Paper Products Co. Pest exterminator. 2,808,679, 10-8-57, Cl. 43-131.
- Collins, Robert H. Twine holder for knotting mechanism. 2,815,233, 12-3-57, Cl. 289-13.
- Collins, Robert H. Knotter for twine balers. 2,815,234, 12-3-57, Cl. 289-14.
- Collins, Samuel W. Apparatus for core drilling wells. 2,815,934, 12-10-57, Cl. 255-72.
- Collins, Theron T., Jr. Control method and apparatus for heat recovery condensers. 2,776,092, 1-1-57, Cl. 236-18.
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- Collins, Thomas M. Curtain holder. 2,812,811, 11-12-57, Cl. 160-38.
- Collins, Vernon L. Card games. 2,783,998, 3-5-57, Cl. 273-152.7.
- Collins, Whitney, to Continental Aviation & Engineering Corp. Ram jet engines. 2,775,867, 1-1-57, Cl. 60-39.72.
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- Collins, William F.: See—
- Raney, Russell R., Collins, and Schmied. 2,801,863.
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- Collins, William F., to International Harvester Co. Reciprocating sickle assembly with counterbalanced drive means. 2,790,295, 4-30-57, Cl. 56-296.
- Collins, William F., to International Harvester Co. Tilting, raising and lowering mechanism for windrow harvester platforms. 2,817,943, 12-31-57, Cl. 56-208.
- Collins, William F., and J. J. Dryan, to International Harvester Co. Spring tooth mounting. 2,790,538, 4-30-57, Cl. 198-198.
- Collins, William F., W. F. Schmied, and E. M. Sandahl, to International Harvester Co. Valve for hydraulic ram-control system. 2,806,485, 9-17-57, Cl. 137-624.
- Collins, William F., and E. J. Johnston, to International Harvester Co. Windrower with hydraulic platform operating means. 2,817,942, 12-31-57, Cl. 56-208.
- Collinson, Harold A., to Leicester, Lovell & Co. Ltd. Synthetic resin compositions and process for making same. 2,789,098, 4-16-57, Cl. 260-17.3.
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- Colliva, Dante, to Eternit Societa per Azioni. Valve with adjustable weight for automatically varying the moulding pressure in tube moulding machines. 2,813,544, 11-19-57, Cl. 137-532.
- Colliver, Ottis M., and F. E. Fuller. Method of recoring wire rope from the bottom. 2,794,313, 6-4-57, Cl. 57-3.4.
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- Collura, Peter C., to Container Corp. of America. Easy opening can carton. 2,804,204, 8-27-57, Cl. 206-65.
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- Colmol Co., The: See—
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- Moon, Sterling C. 2,799,386.
- Snyder, Clifford H. 2,776,040.
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- Cameron, George. 2,786,360.
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- Hanssler, Edward. 2,790,041.
- Colonna, Angelo. Filter leacher for coffee urns. 2,782,706, 2-26-57, Cl. 99—315.
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- Emary, Robert J. 2,792,876.
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- Colson, Edward A., and L. Fussell, Jr., to Edgerton, Germeshausen and Grier, Inc. Radiation-indicating method and system. 2,815,453, 12-3-57, Cl. 250—207.
- Colson, Glenn L. Cutting torch guide. 2,777,685, 1-15-57, Cl. 266—23.
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- Ramirez, Ernest, and Colt. 2,806,762.
- Colt, Edwin W., S. N. Pinhasik, and F. D. Sulc, to Armour and Co. Method of making compressed elastomer-bonded hair products. 2,803,577, 8-20-57, Cl. 154—110.
- Colt, Rutger B., to the United States of America as represented by the Secretary of the Navy. Air speed indicator. 2,805,410, 9-3-57, Cl. 340—282.
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- Colton, Frank B., to G. D. Searle & Co. 4,5,21-trihydroxy-pregnane-3,20-dione, 11-oxygenated derivatives and esters thereof. 2,782,213, 2-19-57, Cl. 260—397.45.
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- Columbia Basin Plastics Co.: See—
- De Shazor, James C., Jr. 2,777,615.
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- Columbia Broadcasting System, Inc.: See—
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- Marantz, Israel H. 2,804,337.
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- Robins, Erford E., Lerch, and Parker. 2,782,331.
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- Armcast, Wilbur H. 2,781,028.
- Armcast, Wilbur H., and Firl. 2,812,747.
- Armcast, Wilbur H., and Marshall. 2,781,746.
- Blaskowski, Henry J. 2,818,236.
- Blaskowski, Henry J., Hunter, and Cruise. 2,818,049.
- Chapman, Edward C. 2,805,315.
- Chapman, Edward C. 2,805,316.
- Crites, Joe. 2,815,903.
- Epley, Frederic I. 2,804,853.
- Gordon, Charles W. 2,807,450.
- Gordon, Charles W. 2,812,934.
- Harding, Walter L., and Reed. 2,817,499.
- Hochmuth, Frank W. 2,789,881.
- Huet, André. 2,780,000.
- Huet, André. 2,812,004.
- Lasater, John A., and Deakins. 2,778,164.
- Mabery, Thomas L. 2,817,384.
- Marshall, Leonard J. 2,803,227.
- Nalven, Robert M. 2,797,669.
- Patterson, Ward S. 2,797,667.
- Presdee, John J., and Tangard. 2,786,704.
- Tangard, Einar E. 2,797,017.
- Tangard, Einar E. 2,797,948.
- Tucker, Robert G. 2,788,585.
- Weigel, Albert C., and Meissner. 2,796,198.

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Schroth, Lawrence E. 2,806,780.
- Comer, Curtis G., and E. A. Billhimer. Automatic starting device. 2,817,022, 12-17-57, Cl. 290—2.
- Comer, Marvin H., to Alamance Industries, Inc. Stretch yarn and fabric and method of making same. 2,777,310, 1-15-57, Cl. 66—180.
- Comfort, John. Garment hanger. 2,805,013, 9-3-57, Cl. 223—96.
- Comins, James S., and P. J. Gallagher, to Sorensen & Co., Inc. Voltage regulator. 2,801,383, 7-30-57, Cl. 323—66.
- Comins, James S., and P. J. Gallagher, to Sorensen & Co., Inc. Voltage regulator. 2,814,773, 11-26-57, Cl. 323—66.
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Cox, Raymond S. 2,804,898.
- Commerce, United States of America as represented by the Secretary of: *See*—
Greenspan, Martin, and Tschiegg. 2,796,522.
Hermach, Francis L. 2,805,394.
Isbell, Horace S. 2,791,492.
Isbell, Horace S., and Schaffer. 2,779,760.
Isbell, Horace S., and Schaffer. 2,796,416.
Koch, William J. 2,781,273.
Rabinow, Jacob. 2,795,705.
Reaves, John H. 2,783,314.
Reaves, John H. 2,804,606.
Reggia, Frank. 2,798,207.
Rotkin, Israel. 2,806,155.
Selby, Myron C. 2,782,377.
Sorrells, John R. 2,817,073.
Swearingen, John J., and McFadden. 2,809,633.
Thompson, Moody C., Jr. 2,817,759.
- Commercial Controls Corp.: *See*—
Blodgett, Edwin O. 2,797,788.
Blodgett, Edwin O. 2,797,790.
- Commercial Shearing and Stamping Co., The: *See*—
Kane, Thomas C. 2,785,924.
- Commercial Solvents Corp.: *See*—
Brown, Weldon G. 2,784,226.
Chornock, Francis W. 2,809,892.
Chornock, Francis W. 2,811,481.
Cohen, Isadore R. 2,789,941.
Dale, Julian K. 2,797,215.
Dale, Julian K. 2,815,341.
Harned, Roger L. 2,789,983.
Hodge, Edward B. 2,803,649.
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Johnson, Arnold N. 2,803,673.
Kamlet, Jonas. 2,811,553.
Meighen, Arthur D. 2,803,603.
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Runge, Wallace F. 2,794,022.
Runge, Wallace F. 2,815,348.
Shorthridge, Robert W. 2,776,240.
Wehrmeister, Herbert L. 2,780,645.
Wieman, Robert L. 2,784,143.
Yalowitz, Harold I. 2,780,655.
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Taleb, Joseph. 2,789,163.
Taleb, Joseph. 2,793,256.
- Commisso, Nicholas D., R. D. Hayes, and R. M. Samuels, to
Textron Inc. Dispenser for storage bags. 2,811,280,
10-29-57, Cl. 221—48.
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- Commonwealth Color & Chemical Co.: *See*—
Fronmuller, George D. 2,803,558.
Fronmuller, George D., and Mirra. 2,798,085.
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Cayot, Lynn B. 2,814,130.
Cayot, Lynn B. 2,818,059.
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Ballard, James W., and Moorhead. 2,787,649.
Berger, Carl. 2,778,205.
Berger, Carl. 2,800,000.
Berger, Carl. 2,813,350.
Berger, Carl, and Hogue. 2,792,386.
Berger, Carl, and Hogue. 2,792,387.
Bishop, Alfred E. 2,789,915.
Blohm, Douglas C., and Ford. 2,785,441.
Bowers, Harold E. 2,776,210.
Brier, Hyman. 2,789,427.
Brier, Hyman. 2,813,709.
Drummond, Folsom E., and Hiler. 2,789,935.
Ernst, Walter. 2,794,583.
Ford, Marion D., and Novak. 2,787,562.
Hiler, Malvern J. 2,787,518.
Homer, Howard J., and Whitacre. 2,813,803.
Lippman, Alfred, Jr. 2,813,375.
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Nack, Herman R. 2,791,515.
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Novak, Leo J. 2,778,753.
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- Commonwealth Engineering Co. of Ohio, The: *See*—Continued
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Novak, Leo J., and Stoycos. 2,798,065.
Novak, Leo J., and Tyree. 2,786,786.
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Ostrofsky, Bernard, and Ballard. 2,793,140.
Ostrofsky, Bernard, and Ballard. 2,815,302.
Parker, James C., and Horst. 2,807,416.
Pawlyk, Peter. 2,780,553.
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Toulmin, Harry A., Jr. 2,785,440.
Toulmin, Harry A., Jr. 2,789,804.
Toulmin, Harry A., Jr. 2,790,721.
Toulmin, Harry A., Jr. 2,797,514.
Toulmin, Harry A., Jr. 2,799,317.
Toulmin, Harry A., Jr. 2,800,407.
Toulmin, Harry A., Jr. 2,806,787.
Toulmin, Harry A., Jr. 2,814,162.
Toulmin, Harry A., Jr. 2,817,141.
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Wenzelberger, Elwood F. 2,790,309.
Wenzelberger, Elwood F. 2,790,493.
Wenzelberger, Elwood F. 2,794,327.
Wenzelberger, Elwood F. 2,800,001.
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Allen, Murray W. 2,812,135.
Newnham, Ivan E. 2,791,485.
- Communications Patents Ltd.: *See*—
Cutler, Albert E. 2,783,552.
Ringham, Gordon B., and Staynes. 2,196,681.
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Maurin, Alexandre. 2,784,156.
- Compagnie de Pont-A-Mousson: *See*—
Barbier, Henri. 2,815,673.
Bram, Georges. 2,780,951.
Cavallier, Jean. 2,795,972.
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Beranger, Raymond H. E. M. 2,795,378.
Beranger, Raymond H. E. M. 2,797,868.
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Chaimowicz, Adam. 2,781,972.
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Chenus, Pierre J. C. 2,776,091.
Chenus, Pierre J. C. 2,781,968.
Feissel, Henri G. 2,777,945.
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Knutsen, Knut A. 2,781,971.
Knutsen, Knut A. 2,805,824.
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Le Clerc, Bruno M. J. 2,806,139.
Mathiere, Henri E. Y. 2,814,699.
Miossec, Jean, and Perret. 2,790,381.
- Compagnie des Metaux d'Overpelt-Lemmel et de Corphalia: *See*—
Quintin, Albert A. J. 2,797,987.
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Fassotte, Adolphe D. H. L. 2,779,671.
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Lantz, Robert L., and Kremer. 2,782,235.
Ratchewski, Rachel. 2,795,477.
Sureau, Robert F. M., and Blum. 2,795,575.
Sureau, Robert F. M., and Mingasson. 2,787,515.
Sureau, Robert F. M., and Obellianne. 2,789,132.
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Dangelzer, Paul E., and Trapied. 2,791,812.
Lantz, Robert L., and Kremer. 2,803,648.
- Compagnie Generale de Conduites d'Eau: *See*—
Doat, Robert, Heimberg, and Paschke. 2,787,535.
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Airgrain, Pierre. 2,777,975.
Berterottiere, René, and Convert. 2,807,739.
Bleuze, Jacques, and Dussaussoy. 2,808,448.
Broussaud, Georges. 2,804,599.
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Day, Jean, and Calis. 2,776,898.
Dufour, Charles. 2,803,780.
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 Huber, Harry. 2,786,957.
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 Leblond, André. 2,799,803.
 Lerbs, Alfred. 2,807,744.
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 Mourier, Georges. 2,812,473.
 Mourier, Georges, and Guilbaud. 2,794,935.
 Ortusi, Jean, and Robert. 2,789,285.
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 Youssov, Georges. 2,789,341.
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 Comte, Georges, and Boudier. 2,801,301.
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 Thevenon, Henri. 2,786,093.
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 Duche, Frederic J. 2,808,451.
- Compagnie Generale des Conduites d'Eau: *See*—
 Heimberg, Karl, and Lanzendoerfer. 2,802,731.
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 Bourdon, Pierre M. 2,811,998.
- Compagnie Generale pour l'Equipeement Aeronautique: *See*—
 Billon, Marcel. 2,790,387.
- Compagnie Geologique et Miniere des Ingenieurs et Industriels Belges "Geomines" Societe Par Actions a Responsabilite Limitee: *See*—
 Kroll, Adolphe V. 2,793,933.
 Kroll, Adolphe V. 2,816,007.
- Compagnie Industrielle de Procèdes et d'Applications S. A. (C. I. P. A.): *See*—
 Godel, Albert A. 2,813,351.
- Compagnie Industrielle des Telephones: *See*—
 Allizon, Etienne. 2,814,003.
 Harault, Jean L. 2,777,994.
 Lesigne, Henri L. 2,783,306.
 Oswald, Jacques. 2,794,072.
 Oswald, Jacques. 2,814,021.
 Oswald, Jacques R. V. 2,785,227.
- Compagnie Internationale de Brevets et Licences: *See*—
 Verbestel, Jean. 2,798,019.
- Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme: *See*—
 Delvaux, Jules A. M. 2,787,123.
 Jourdain, André P. 2,777,528.
 Pickman, Edgar. 2,779,161.
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 Bessiere, Pierre E. 2,796,541.
- Compagnies Reunies des Glaces & Verres Speciaux du Nord de la France: *See*—
 Long, Bernard. 2,780,032.
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 Filipowsky, Richard F. J. 2,814,448.
- Compania Salitrera Anglo-Lautaro (Anglo-Lautaro Nitrate Corp.): *See*—
 Ferris, Lockwood W. 2,783,885.
- Company "ARO": *See*—
 Rosenheimer, Max. 2,803,806.
- Company "Brevets Aero-Mecaniques" S. A.: *See*—
 Maillard, Bernard. 2,798,415.
- Compco Corp.: *See*—
 Belbes, George J., Hunt, and Kilpatrick. 2,800,574.
- Compo Shoe Machinery Corp.: *See*—
 Smith, John F. 2,804,360.
 Smith, John F. 2,813,281.
- Composite Steels, Inc.: *See*—
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- Compressed Products Corp.: *See*—
 Ade, William M. 2,795,909.
- Compression Ignition Ltd.: *See*—
 Chapman, Charles W. 2,782,893.
- Comptoir France Etranger: *See*—
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 Tournier, Paul. 2,808,645.
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- Compton, Arthur M., to Standard Steel Works, Inc. Resilient support for tank shells. 2,792,231, 5-14-57, Cl. 280—5.
- Compton, Arthur M., to Standard Steel Works, Inc. Multi-spring undercarriage for vehicles. 2,798,735, 7-9-57, Cl. 280—104.5.
- Compton, Charles E. Rotary mining machine cutter head with rear helically extending transverse opening. 2,784,955, 3-12-57, Cl. 262—9.
- Compton, Harold W. Working device controlling mechanism for materials handling and excavating machines. 2,776,060, 1-1-57, Cl. 214—136.
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- Compton, Jack, and R. P. Barber, to Institute of Textile Technology. Process for the treatment of cyanoethylated cotton textiles with amines. 2,787,516, 4-2-57, Cl. 8—129.
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- Compton, James A., and A. Paul, to Borg-Warner Corp. Fuel booster pump. 2,780,999, 2-12-57, Cl. 103—113.
- Compton, William A., J. W. Johnson, and R. A. Paetz, to Thompson Products, Inc. Pneumatic powered linear actuator. 2,778,344, 1-22-57, Cl. 121—39.
- Comptone Co., Ltd.: *See*—
 Nadel, Manuel R. 2,816,666.
- Compule Corp., The: *See*—
 Lockhart, Marshall L. 2,809,635.
- Comstock, Alfred E., to The Diamond Match Co. Apparatus for perforating hollow articles. 2,781,843, 2-19-57, Cl. 164—51.
- Comstock, George E. 3d: *See*—
 Thibault, Newman W., and Comstock. 2,805,197.
- Comstock, George E., 3rd, to Norton Co. Reinforced ceramic body of revolution. Re. 24,366, 10-1-57, Cl. 138—64.
- Comstock, George E., 3d, to Norton Co. Electrolytic grinding apparatus. 2,778,794, 1-22-57, Cl. 204—218.
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- Comstock, George E., 3d, to Norton Co. Method and apparatus for the electrolytic erosion of work pieces. 2,798,846, 7-9-57, Cl. 204—143.
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- Comstock, George E., 3d, to Norton Co. Machine tool carriage reciprocating mechanism. 2,804,735, 9-3-57, Cl. 51—233.
- Comstock, Jackson D. Pneumatic tire. 2,811,191, 10-29-57, Cl. 152—356.
- Comstock, Leslie H. Equalizing and control valve. Re. 24,352, 8-27-57, Cl. 166—145.
- Comstock, William J., Jr. Milk bottle carrier. 2,806,731, 9-17-57, Cl. 294—27.
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- Comte, Frederick, and W. J. Detroit, to Monsanto Chemical Co. Xanthine hydrobromides. 2,798,872, 7-9-57, Cl. 260—253.
- Comte, Georges: *See*—
 Oudin, Jean, and Comte. 2,800,627.
- Comte, Georges, and M. Boudier, to Compagnie Generale d'Electricite. Amplifier having variable characteristics. 2,801,301, 7-30-57, Cl. 179—171.
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- Conacher, James E.: *See*—
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- Conant, Louis A., to Union Carbide and Carbon Corp. Metal ceramic product. 2,783,530, 3-5-57, Cl. 29—182.5.
- Conason, Emil G., to Schenley Industries, Inc. Process for obtaining epinephrine free adrenal cortical hormones. 2,778,770, 1-22-57, Cl. 167—77.
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- Concentro-Drive Co., Inc., The: *See*—
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- Concrete Forms Corp.: *See*—
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- Concrete Grinding Corp.: *See*—
 Heaphy, William G. 2,809,473.
- Concut Sales Co., of California: *See*—
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- Cone Automatic Machine Co., Inc.: *See*—
 Brown, Roger W. 2,808,753.
 Gaynor, John. 2,817,992.
 Miller, Carroll E. 2,817,990.
 Rice, Melvin R. 2,799,076.
- Cone, Clarence N., and L. A. Hughes, to Levi Strauss and Co. Method for shrinking fabric. 2,792,616, 5-21-57, Cl. 26—18.5.
- Cone, Joseph H., to Casco Products Corp. Steam iron. 2,777,225, 1-15-57, Cl. 38—77.

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- Cone, Richard R., to Threads-Inc. Thread package winding apparatus. 2,815,178, 12-3-57, Cl. 242-23.
- Conescu, Sidney. Cardboard folding box construction. 2,777,628, 1-15-57, Cl. 229-31.
- Coney, Charles H., and F. M. Ball, to Eastman Kodak Co. Process for increasing the heat resistance of cellulose acetate butyrate coatings on flash bulbs. 2,787,559, 4-2-57, Cl. 117-85.
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- Conforto, Gaetano, to Pintsch Bamag A-B. Apparatus and method for decomposing an amalgam. 2,801,163, 7-30-57, Cl. 75-121.
- Congdon, Max: See—
Ward, Gerald E., Congdon, and Davis. 2,776,568.
- Congelli, Henry C., to American Machine & Foundry Co. Ball lift. 2,803,463, 8-20-57, Cl. 273-49.
- Conger, Charles G. Width gauge for vehicle wheel rims. 2,812,581, 11-12-57, Cl. 333-143.
- Conger, Joseph C.: See—
Herrick, Guy S., Conger, and Savio. 2,816,900.
- Congiundi, Nicholas R.: See—
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Ostrander, Charles W., Congiundi, and Pocock. 2,796,371.
- Congoleum-Nairn Inc.: See—
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Hess, Paul S. 2,801,937.
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- Conklin, Lewis H.: See—
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- Conkling, Roy F., and W. H. Myers. Split induction heating coil. 2,783,351, 2-26-57, Cl. 219-10.79.
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- Conley, Earl G. Method of preparing an organic adhered water-soluble knife-cut screen process printing stencil. 2,780,167, 2-5-57, Cl. 101-128.2.
- Conley, Frank, and J. H. Brinker, to The Globe-Wernicke Co. Hanging file support. 2,810,388, 10-22-57, Cl. 129-16.
- Conley, Genevieve I. Candle ring. 2,812,652, 11-12-57, Cl. 67-2.
- Conley, Robert T., and T. F. Rutledge, to Air Reduction Co., Inc. Preparation of allene. 2,818,456, 12-31-57, Cl. 260-681.
- Conlin, James R., and W. L. Schulz, to Hanksraft Co. Vaporizer. 2,806,932, 9-17-57, Cl. 219-40.
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- Conlon, Lawrence E., and W. H. Watanabe, to Rohm & Haas Co. Preparation of 2-methyl oxazolidines and tetrahydro-1,3-oxazines. 2,817,663, 12-24-57, Cl. 260-244.
- Connar Products Corp.: See—
Mikulas, William. 2,794,229.
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- Conn, C. G. Ltd.: See—
Eash, Edwin R. 2,795,162.
Greenleaf, Leland B. 2,790,345.
Krauss, Serge L. 2,806,953.
Tennes, Charles J. 2,806,954.
- Conn, Robert C., and G. M. Friese, to American Cyanamid Co. Method of preparing direct dyes. 2,812,322, 11-5-57, Cl. 260-143.
- Conn, William R., B. B. Kine, and W. C. Prentiss, to Rohm & Haas Co. Aqueous paint bases and water-base paints and process for preparing them. 2,795,564, 6-11-57, Cl. 260-29.6.
- Connally, Carl A., Jr.: See—
Reichert, Paul F., Sandberg, Connally, and Pollard. 2,784,677.
- Connecticut Hard Rubber Co., The: See—
Doede, Clinton M., and Kilbourne. 2,777,827.
Homeyer, Henry N., Jr. 2,811,471.
- Connecticut Metals, Inc.: See—
Mott, Lambert H. 2,792,302.
- Connecticut Metal Treating Co., Inc.: See—
Kappel, Victor V. 2,818,246.
- Connell, Edward F. Sectional toy figure. 2,815,605, 12-10-57, Cl. 46-123.
- Connell, Edwin L., to Chicago Pneumatic Tool Co. Power transmission. 2,797,782, 7-2-57, Cl. 192-30.5.
- Connell, George A.: See—
Taylor, Donald S., and Connell. 2,785,952.
- Connell, Maurice V. Single operation normally closed valve. 2,815,882, 12-10-57, Cl. 220-47.
- Connell, Willard B., to The J. B. Ehrsam & Sons Mfg. Co. Automatic inverter. 2,784,831, 3-12-57, Cl. 198-33.
- Connell, Willard B., to The J. B. Ehrsam & Sons Mfg. Co. Bundling machine. 2,814,397, 11-26-57, Cl. 214-6.
- Connellan, Peter A.: See—
Hayden, Peter J. 2,818,301.
- Connolly, Clarence M., to the United States of America as represented by the Secretary of the Navy. Signal generator. 2,790,168, 4-23-57, Cl. 343-17.7.
- Connolly, Eugene C.: See—
Case, Manna D., and Connolly. 2,808,490.
- Connolly, Robert E., to the United States of America as represented by the Secretary of the Army. Closure for containers. 2,783,934, 3-5-57, Cl. 229-46.
- Conner, Guy F.: See—
Strobel, Charles K., and Conner. 2,806,655.
- Conner, Patrick E. Non-run barrier for hosiery. 2,811,029, 10-29-57, Cl. 66-172.
- Connet, Alfred: See—
Connet, Bennet H., Sr. 2,814,490.
- Connet, Bennet H., Sr., to A. Connet and E. R. Hopper. Hobby horse. 2,814,490, 11-26-57, Cl. 272-52.
- Connolly, Charles E., to International Business Machines Corp. Fluid circuit interrupter. 2,786,919, 3-26-57, Cl. 200-152.
- Connolly, John E., to O. and S. Bearing and Mfg. Co. Combination radial and end-thrust bearing. 2,814,538, 11-26-57, Cl. 308-72.
- Connor Engineering Corp.: See—
Daninshirsch, Harry. 2,791,169.
- Connor, John A., to Leeds and Northrup Co. Adjustable electrical capacitor. 2,808,546, 10-1-57, Cl. 317-253.
- Connor, Ralph F., to Whirlpool-Seeger Corp. Air conditioner having electrostatic air filter therein. 2,786,544, 3-26-57, Cl. 183-7.
- Connor, Richard J., to High Voltage Engineering Corp. High-vacuum pump. 2,796,555, 6-18-57, Cl. 315-108.
- Connor, Thomas J., and R. Blumberg, to General Electric Co. Method of electroplating aluminum. 2,791,553, 5-7-57, Cl. 204-33.
- Connors, George H., to Highway Trailer Co. Brake and clutch adjusting mechanism. 2,796,159, 6-18-57, Cl. 192-18.
- Connors, John, to The Greist Mfg. Co. Presser foot attachment for sewing machines. 2,804,037, 8-27-57, Cl. 112-235.
- Connoy, Eugene N., to Continental Machines, Inc. Magnetizing and demagnetizing apparatus. 2,786,970, 3-26-57, Cl. 317-123.
- Conoflow Corp.: See—
Madison, James B. 2,800,771.
- Conord, André, to Societe Moderne d'Appareils Menagers Concord. Mechanical coupling means for the driving of a secondary appliance. 2,779,445, 1-29-57, Cl. 192-02.
- Conover, George D.: See—
Stier, George G., and Conover. 2,789,045.
- Conover, Lloyd H., to Chas. Pfizer & Co., Inc. Polyoxygenated cyclic compounds. 2,783,261, 2-26-57, Cl. 260-438.
- Conover, Loren P., 45% to R. Pfister. Drill press attachment. 2,784,614, 3-12-57, Cl. 74-421.
- Conover, Ulmer E., to Radio Corp. of America. Photoelectric registry of strip filters. 2,809,133, 10-8-57, Cl. 117-211.
- Conover, William B., and W. F. M. Gray, to General Electric Co. Noise reducing system for transformers. 2,776,020, 1-1-57, Cl. 181-31.
- Conquest, Victor: See—
Pircon, Ladislav J. 2,795,139.
Pircon, Ladislav J. 2,807,698.
- Conrad, Earl W. Porous walled conduit for fluid cooling. 2,785,878, 3-19-57, Cl. 257-1.
- Conrad, Earl W. Afterburner flame stabilization means. 2,799,991, 7-23-57, Cl. 60-39.72.
- Conrad, Edwin S. Test adapter for measuring current and voltage in electron tubes and electric cable connectors. 2,795,664, 6-11-57, Cl. 200-51.1.
- Conrad, Emmett: See—
De Shano, Alphonse D. 2,792,948.
- Conrad, Ernest L.: See—
Crown, Orman E., and Conrad. 2,782,600.
- Conrad, Franklin, to Ethyl Corp. Dehydrochlorination process. 2,803,678, 8-20-57, Cl. 260-656.
- Conrad, Franklin, to Ethyl Corp. Dehydrochlorination process. 2,803,679, 8-20-57, Cl. 260-656.
- Conrad, Franklin, to Ethyl Corp. Dehydrochlorination process. 2,803,680, 8-20-57, Cl. 260-656.
- Conrad, Granville R., to Motor Wheel Corp. Vertical adjusting mechanism between housing and drive wheels for self-propelled lawn mower. 2,786,541, 3-26-57, Cl. 180-41.
- Conrad, Ivan W.: See—
Magee, Joseph W., and Conrad. 2,809,020.
- Conrad, John R., to S & C Electric Co. Terminal construction. 2,806,919, 9-17-57, Cl. 200-115.5.
- Conrad, Julius M. F., to Briharr Research Corp. Device for forming annular enlargements on hollow members. 2,811,941, 11-5-57, Cl. 113-44.
- Conrad, Martin B.: See—
Baker, Reuben C., and Conrad. 2,778,428.
Baker, Reuben C., and Conrad. 2,781,774.
Baker, Reuben C., and Conrad. 2,799,346.
Baker, Reuben C., and Conrad. 2,806,532.
Baker, Reuben C., and Conrad. 2,806,536.
Burtner, James C., and Conrad. 2,802,532.
Kline, Albert K., and Conrad. 2,788,857.

- Conrad, Martin B., to Baker Oil Tools, Inc. Threaded joint and lock. 2,797,109, 6-25-57, Cl. 285-81.
- Conrad, Martin B., to Baker Oil Tools, Inc. Automatically vented fluid pressure operated apparatus. 2,799,843, 7-16-57, Cl. 166-63.
- Conrad, Martin B., to Baker Oil Tools, Inc. Fluid control valve. 2,799,350, 7-16-57, Cl. 166-226.
- Conrad, Martin B., to Baker Oil Tools, Inc. Retrievable double holding subsurface well tool. 2,802,534, 8-13-57, Cl. 166-138.
- Conrad, Martin B., to Baker Oil Tools, Inc. Releasable subsurface apparatus for moving tools longitudinally in well bores. 2,806,538, 9-17-57, Cl. 166-218.
- Conrad, Martin B., to Baker Oil Tools, Inc. Well packer and setting apparatus therefor. 2,815,817, 12-10-57, Cl. 166-187.
- Conrad, Matthew, to The Waters Corp. Resistance thermometer. 2,816,997, 12-17-57, Cl. 201-63.
- Conrad, Owen, to American Screen Products Co. Self-retaining latch. 2,776,002, 1-1-57, Cl. 160-369.
- Conrad, René A.: *See—*
- Webb, Floyd L., and Conrad. 2,800,409.
- Conrad, Wilbur. Apparatus for making, sizing and electrically treating a wire coil. 2,779,860, 1-29-57, Cl. 219-153.
- Conradi, Gerhard: *See—*
- Duffing, Paul, and Conradi. 2,777,098.
- Conradi, Henrik, to AB Svenska Flaktfabriken. Apparatus for air conditioning. 2,806,675, 9-17-57, Cl. 257-8.
- Conroy, Charles L.: *See—*
- Stranberg, Don F. 2,782,059.
- Conroy, Harold, to Merck & Co., Inc. Process and intermediates in the preparation of hydantoin. 2,786,848, 3-26-57, Cl. 260-309.5.
- Conroy, Harold, to Merck & Co., Inc. Method of preparing 5-(delta-chlorobutyl) hydantoin. 2,786,850, 3-26-57, Cl. 260-309.5.
- Conroy, Harold, to Merck & Co., Inc. Preparation of neopine. 2,797,222, 6-25-57, Cl. 260-285.
- Conroy, Harold, to Merck & Co., Inc. Preparation of 14-bromocodone. 2,797,223, 6-25-57, Cl. 260-285.
- Conroy, Harold, and W. J. Paleveda, to Merck & Co., Inc. Production of 5-(delta-hydroxybutyl) hydantoin. 2,786,849, 3-26-57, Cl. 260-309.5.
- Consani, Gino. Floating-roof type liquid storage tanks. 2,790,574, 4-30-57, Cl. 220-26.
- Conso Metal Products, Inc.: *See—*
- Loucony, Adolphe W. 2,781,091.
- Consoletti, Paul C., to Draper Corp. Molded bobbin. 2,793,822, 5-28-57, Cl. 242-118.32.
- Consolidated Diamond Tool Corp.: *See—*
- Schwarzkopf, Henry, and Van Otterloo. 2,815,746.
- Consolidated Edison Co. of New York, Inc.: *See—*
- Bogdanowski, John. 2,804,223.
- Nesbit, Robert M., and Molen. 2,794,189.
- Consolidated Electrodynamics Corp.: *See—*
- Bell, Norton W. 2,799,015.
- Burdorf, Donald L. 2,816,257.
- Dsenis, Harold L. 2,788,587.
- Gauger, Roy C., and Perkins. 2,784,361.
- Gerow, Gordon P. 2,797,043.
- Hall, Lawrence G., and Robinson. 2,806,956.
- Hall, Lawrence G., and Washburn. 2,810,075.
- Hamilton, Allen R. 2,786,181.
- Hardway, Edward V., Jr. 2,782,394.
- Kinkel, John F. 2,780,101.
- Kinkel, John F. 2,814,768.
- Lahti, Arvo A. 2,780,789.
- Langmuir, Robert V. 2,780,728.
- McDonald, Duncan N. 2,806,925.
- McCormick, Frederick S. 2,815,907.
- Marks, Monte L. 2,798,998.
- Robinson, Charles F. 2,782,316.
- Robinson, Charles F. 2,782,337.
- Robinson, Charles F. 2,784,317.
- Robinson, Charles F. 2,792,542.
- Robinson, Charles F. 2,794,126.
- Robinson, Charles F., Langmuir, Brubaker, and Perkins. 2,780,729.
- Sink, Robert L., Lahti, MacDonald, and Patrick. 2,818,557.
- Van Der Werff, Jacob B. 2,806,756.
- Warren, Horace G. 2,806,644.
- Warren, Horace G., and Johnson. 2,781,588.
- Washburn, Harold W., and Berry. 2,784,318.
- Consolidated Electronics Industries Corp.: *See—*
- Haydon, Arthur W. Re. 24,310.
- Consolidated Mining and Smelting Co. of Canada Ltd., The: *See—*
- Jackson, Harry E. 2,816,891.
- Consolidated Molded Products Corp.: *See—*
- Dickman, Carl H. 2,807,099.
- Consolidated Packaging Machinery Corp.: *See—*
- Dimond, George H. 2,805,531.
- Dimond, George H. 2,810,245.
- Dimond, George H. 2,810,248.
- Dimond, George H. 2,811,002.
- Dimond, George H. 2,817,934.
- Consolidated Products Co.: *See—*
- Stamberg, Olof E. 2,780,548.
- Consolidated Trimming Corp.: *See—*
- Bernhard, Joseph, and Polkasnik. 2,796,928.
- Consolidated Venetian Blind Co.: *See—*
- Hutchison, James F. 2,806,260.
- Consolidation Coal Co.: *See—*
- Gorin, Everett. 2,813,824.
- Consolo, Philip. Apparatus for forming and projecting bubbles. 2,813,361, 11-19-57, Cl. 40-126.
- Constan, Gus L., to Dow Corning Corp. Formyl end-blocked methyl hydrogen siloxane. 2,811,506, 10-29-57, Cl. 260-46.5.
- Constance, Harry S., Jr., to Revere Copper and Brass Inc. Extruded shapes for truck and truck trailer floors. 2,786,556, 3-26-57, Cl. 189-34.
- Constant, Peter R., to General Motors Corp. Electric clock drive. 2,800,799, 7-30-57, Cl. 74-142.
- Constantakis, George V., to United States Rubber Co. Apparatus for testing tires. 2,798,376, 7-9-57, Cl. 73-9.
- Constantikes, George J., to Phillips Petroleum Co. Vapor liquid contacting apparatus. 2,809,821, 10-15-57, Cl. 261-114.
- Constantine, Arthur R., and E. T. Carlson, to Electric Machinery Mfg. Co. Electrical distribution system. 2,786,908, 3-26-57, Cl. 200-50.
- Constantino, Constantine S., H. D. Hoffman, and W. C. Schaffer, to Curtiss-Wright Corp. Jet engine control system utilizing logarithmic signals. 2,792,685, 5-21-57, Cl. 60-39.28.
- Consterdine, Whiteley E.: *See—*
- Barlow, Ernest, and Consterdine. 2,811,659.
- Constock Liquid Methane Corp.: *See—*
- Beckwith, Sterling. 2,800,249.
- Beckwith, Sterling. 2,806,810.
- Beckwith, Sterling. 2,810,265.
- Beckwith, Sterling. 2,817,218.
- Morrison, Willard L. 2,783,624.
- Morrison, Willard L. 2,798,364.
- Morrison, Willard L. 2,799,997.
- Morrison, Willard L. 2,811,843.
- Morrison, Willard L. 2,814,936.
- Schnellhardt, William L. 2,807,143.
- Constructions Mecaniques S. A.: *See—*
- Allemand, Paul. 2,791,410.
- Grossmann, Paul. 2,814,119.
- Rousse, Robert. 2,784,496.
- Sigrist, Edouard. 2,804,185.
- Container Corp. of America: *See—*
- Chidsey, Francis A., Jr. 2,779,499.
- Collura, Peter C. 2,804,204.
- Collura, Peter C. 2,806,608.
- Cote, Raymond A. 2,807,404.
- Desmond, John D., and Cote. 2,781,898.
- Drnc, Harry F. 2,818,005.
- Foster, Thomas W. 2,817,473.
- Jones, Cecil T. 2,811,298.
- Nigrelli, Biagio J. 2,811,087.
- Parker, George H. 2,812,105.
- Roberts, Kenneth S. 2,786,339.
- Shanahan, Curtis M. 2,796,213.
- Wolowicz, Richard S. 2,801,001.
- Contant, Ira, to Hoffmann-La Roche Inc. Box. 2,790,587, 4-30-57, Cl. 229-11.
- Conte, Adriano E. Scope mount. 2,777,202, 1-15-57, Cl. 33-50.
- Contemporary Metals Inc.: *See—*
- Savage, Robert H. 2,776,678.
- Conti, John D., to American Viscose Corp. Apparatus for heatsealing. 2,785,611, 3-19-57, Cl. 93-36.8.
- Continental Assurance Co.: *See—*
- Otis, Herbert C. 2,784,789.
- Continental Aviation & Engineering Corp.: *See—*
- Collins, Whitney. 2,775,867.
- Collins, Whitney. 2,780,916.
- Hiersch, Frederick A. 2,798,361.
- Isley, Walter F. 2,809,622.
- Prescott, Ford L., and Bachle. 2,809,614.
- Continental Can Co., Inc.: *See—*
- Alexander, Paul. 2,812,270.
- Blume, LeRoy O. 2,818,483.
- Butz, James N. 2,805,810.
- Dodge, Merton L. 2,803,343.
- Fiala, Edward J. 2,818,015.
- Flugge, Sylvester L., and Henchert. 2,808,972.
- Geist, William J. 2,794,584.
- Gibbs, Thomas H., Jr. 2,798,654.
- Haase, Heinrich E. 2,778,176.
- Harkenrider, Robert J. 2,776,151.
- Henchert, John. 2,805,006.
- Henchert, John. 2,818,203.
- Henchert, John. 2,815,894.
- Henchert, John, and Punte. 2,818,204.
- Hillegas, Julian M. 2,799,045.
- Manizza, Gelfo A. 2,801,785.
- Nelbach, George N. 2,807,402.
- Pagels, Fred A. 2,818,194.
- Pearson, Paul E. 2,798,456.
- Piazze, Thomas E. 2,804,236.
- Punte, William F. 2,813,664.
- Richens, Arthur W. 2,782,694.
- Rueckberg, Herbert S., and Szajna. 2,784,452.
- Stephenson, Paul A. 2,780,388.
- Stone, Orison W. 2,814,385.
- Walter, Charles T., and Haase. 2,800,224.
- Weiss, Arthur J. 2,806,643.
- Zehr, William J. 2,784,918.

Continental Copper and Steel Industries, Inc.: *See—*

Hickson, William F. 2,811,729.
Hickson, William F. 2,813,050.
Hickson, William F. 2,814,058.

Continental Electrolog Corp.: *See—*

Kolisch, Emil. 2,812,904.

Continental Electronics Mfg. Co.: *See—*

Griffith, Benjamin W., Jr. 2,809,355.

Continental Gin Co.: *See—*

Brooks, Eugene H. 2,804,655.
Morgan, George C. 2,810,413.

Continental Gummi-Werke Aktiengesellschaft: *See—*

Bauermeister, Heinrich A., and Krug. 2,797,440.
Bauermeister, Heinrich A., and Krug. 2,797,441.
Krug, Hans D. 2,782,462.

Continental Illinois National Bank and Trust Co. of Chicago: *See—*

Pick, Joseph R., and Lasinski. 2,806,564.

Continental Machines, Inc.: *See—*

Connoy, Eugene N. 2,786,970.
Crane, Robert L. 2,815,561.
Crane, Robert L. 2,815,744.
Wilkie, Robert J., and Cruise. 2,815,562.

Continental Millwork Corp.: *See—*

Clay, William S. 2,795,327.

Continental Motors Corp.: *See—*

Bakke, Laurence D., and Altman. 2,799,265.
Carufel, Louis D. 2,781,056.
Druzynski, Frank C. 2,775,960.
Ginn, Earl. 2,806,752.
Kinney, David C., and Donovan. 2,775,963.
McGowen, Frank. 2,806,456.
Powell, Robert J. 2,818,047.
Powell, Robert J., and Champion. 2,787,257.
Teschendorf, Gerald P., Donovan, and Pohrt. 2,799,486.
Wiseman, William A. 2,782,644.

Continental Oil Co.: *See—*

Bauer, Robert F., McNeill, and Ledbetter. 2,808,229.
Brown, Jack L., and Landers. 2,779,735.
Clark, Roscoe C., Jr. 2,777,399.
Clark, Roscoe C., Jr. 2,811,207.
Clark, Roscoe C., Jr., Coffey, and Shock. 2,803,555.
Conwell, John W., and Popovac. 2,808,372.
Crawford, John M., and Doty. 2,808,577.
De Witte, Leendert. 2,813,980.
Feighner, George C. 2,806,055.
Geiser, Paul E. 2,806,875.
Higgins, Francis J. 2,796,355.
Kirk, James C. 2,808,109.
McDonald, Harold, and Anderson. 2,807,590.
McNeill, Robert C., Stratton, and Rhodes. 2,808,230.
Radd, Frederick J. 2,790,460.
Sharrah, Marion L. 2,779,784.
Sharrah, Marion L. 2,813,917.
Shock, D'Arcy A., and Sudbury. 2,785,127.

Continental Paper Co.: *See—*

Vines, Oscar L. 2,791,356.

Continental Radiant Glass Heating Corp.: *See—*

Petersen, Erwin P., and Whitney. 2,781,440.
Razlag, Emil W. 2,787,693.

Continental Say-When Corp.: *See—*

Sampson, Merritt B. 2,805,798.

Continental Steel Corp.: *See—*

Loop, James P. 2,789,779.
Schreiner, Paul E. 2,786,639.

Continental Transport Appliances, Ltd.: *See—*

Dorey, George B. 2,782,879.

Continental X-Ray Corp.: *See—*

Raska, Edward J., and Baldino. 2,799,542.

Continuous Metalcast Co., Inc.: *See—*

Rossi, Irving. 2,792,602.

Contois, Leo L., Jr., to Monsanto Chemical Co. Low molecular weight heteropolymers of styrene and alkyl esters of maleic acid and process for preparing the same. 2,798,062, 7-2-57, Cl. 260—78.5.

Contois, Leo L., Jr., to Monsanto Chemical Co. Cationic polyelectrolytes. 2,817,649, 12-24-57, Cl. 260—85.5.

Control Cells Corp., Inc.: *See—*

Safford, Edward S., and Swanson. 2,786,669.
Swanson, Willis R. 2,805,055.

Control Instrument Co.: *See—*

Lehde, Henry C. 2,807,734.
Lehde, Henry C. 2,813,430.

Control Mfg. Co.: *See—*

Hollinshead, William H. 2,792,467.

Control Products, Inc.: *See—*

Moodie, William C., Sr. 2,814,694.

Control Specialists, Inc.: *See—*

Henry, Augustus P. 2,781,027.

Controlled Heat & Air Ltd.: *See—*

MacMillan, Robert D., McKeown, and Rosin. 2,817,907.
McKeown, Charles G. 2,781,188.

Controlled Heat Transfer Corp.: *See—*

Vanl, James. 2,791,888.

Controls Co. of America: *See—*

Beller, Wilbert E. 2,813,541.
Biermann, William A. 2,793,654.
Biermann, William A., and Rowland. 2,813,579.
Ehke, Edward C. 2,794,600.
Fisher, Hardin Y. 2,798,916.
Gebel, Irving. 2,789,279.
Gebel, Irving. 2,805,298.
McCarty, Lourdes V., and Vicenzi. 2,807,422.
Soreng, Edgar M. 2,789,278.
Teasdale, James F. 2,798,436.

Contur Abrasive Co., Inc.: *See—*

Larson, Adolph J. 2,781,618.

Converse, Donald R., to Converse Products, Inc. Method and means for cleaning type. 2,800,215, 7-23-57, Cl. 197—185.

Converse Products, Inc.: *See—*

Converse, Donald R. 2,800,215.

Converse, Sherman, to Graniteville Co. Process for bonding a preformed non-woven bat to a woven textile sheet. 2,791,529, 5-7-57, Cl. 154—137.

Convert, Guy: *See—*

Berterottiere, René, and Convert. 2,807,739.

Converted Rice, Inc.: *See—*

Keaneaster, Kenneth K., and Newlin. 2,813,796.

Conveyor Co., Inc., The: *See—*

Saxe, Walter E. 2,782,926.

Conveyor Specialties Co.: *See—*

Kampier, Richard H. 2,805,762.

Conway, Hugh G., to British Messier Ltd. Hydraulically actuated linkages. 2,799,992, 7-23-57, Cl. 60—51.

Conway, Lowell F., to Osceola Foods, Inc. Plastic materials cutting machine. 2,787,832, 4-9-57, Cl. 31—14.

Conway, Martin J., to Bendix Aviation Corp. Rate gyroscope. 2,794,345, 6-4-57, Cl. 74—56.

Conwell, John W., and D. O. Popovac, to Continental Oil Co. Electrolytic bleaching of alkaryl sulfonates. 2,808,372, 10-1-57, Cl. 204—131.

Cook, Aaron L., to Allis-Chalmers Mfg. Co. Spline adapter. 2,815,229, 12-3-57, Cl. 287—52.05.

Cook, Allen, J. A. Martell, and A. E. Whitecar, to Smith, Kline & French Laboratories. Capsule closing and ejecting mechanism. 2,799,983, 7-23-57, Cl. 53—299.

Cook Bros. Equipment Co.: *See—*

Harbers, Henry C. 2,777,529.
Harbers, Henry C., and Merchant. 2,794,673.
Harbers, Henry C., and Merchant. 2,815,980.
Harbers, Henry C., and Sharpe. 2,781,186.
Prichard, Evan S. 2,781,102.

Cook, Charles A., to Clark Equipment Co. Transmission control system. 2,786,368, 3-26-57, Cl. 74—732.

Cook, Charles C., Jr., and J. E. Lawver, to International Minerals & Chemical Corp. Method and apparatus for beneficiating ore. 2,782,923, 2-26-57, Cl. 209—127.

Cook, Charles D., to Hickson's Timber Impregnation Co. (G. B.) Ltd. Wood preserving composition. 2,816,057, 12-10-57, Cl. 167—38.5.

Cook, Charles J., to Clark Equipment Co. Overhead guard for industrial lift trucks. 2,806,618, 9-17-57, Cl. 214—672.

Cook, Cleo H.: *See—*

Cook, Simon H. 2,785,815.

Cook, Earle S.: *See—*

McClure, Glenn T., Rush, and Cook. 2,785,933.

Cook, Earle S., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,785,932, 3-19-57, Cl. 303—60.

Cook, Earle S., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,789,018, 4-16-57, Cl. 303—60.

Cook, Earle S., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,804,354, 8-27-57, Cl. 303—60.

Cook, Edward G.: *See—*

Van Valkenburg, Howard E., and Cook. 2,787,158.

Cook Electric Co.: *See—*

Hasselhorn, Walter C. 2,799,808.
Hasselhorn, Walter C. 2,810,800.
McDonald, Donald. 2,777,285.
McDonald, Donald C. 2,796,468.
McDonald, Donald C., and Schmid. 2,796,569.
McDonald, Donald C., and Shuttler. 2,810,103.

Cook, Emory G. Binaural sound reproduction. 2,785,226, 3-12-57, Cl. 179—1.

Cook, Ernest E.: *See—*

Dingman, Thomas C., and Cook. 2,789,622.
Sadler, Harry J., and Cook. 2,781,163.

Cook, Ernest E., and H. J. Sadler. Rotary pump roller. 2,776,625, 1-8-57, Cl. 103—136.

Cook, Francis W., Jr.: *See—*

Carlson, Gustav R., and Cook. 2,814,215.

Cook, Frederick J., and J. Knowles, to Brevets Aero-Mecaniques S. A. Suspended stowage magazines. 2,811,084, 10-29-57, Cl. 89—34.

Cook, Frederick L. Automatic moulding machine. 2,803,852, 8-27-57, Cl. 18—16.

Cook, George W. D. Holder for a conventional set of L-shaped wrenches. 2,776,744, 1-8-57, Cl. 206—16.

Cook, Gerald R. Passenger safety bar for automobile windows. 2,793,050, 5-21-57, Cl. 280—150.

Cook, Gordon H., to Taylor, Taylor & Hobson Ltd. Inverted telephoto optical objectives having a divergent front member widely separated from a convergent rear member. 2,785,603, 3-19-57, Cl. 88—57.

- Cook, Graham, F. A. Lory, and F. W. Jenkins, to Union Carbide and Carbon Corp. Stratoscope reference signal adjusting means. 2,790,968, 4-30-57, Cl. 340-261.
- Cook, Harold C., Sr. Garment hanger. 2,777,619, 1-15-57, Cl. 223-90.
- Cook, Harry: *See*—
- Hronek, Robert L., and Cook. 2,797,323.
- Cook, Henry., to Rolls-Royce Ltd. Fuel system with means to compensate for variations in liquid head due to accelerations acting on the fuel system. 2,806,354, 9-17-57, Cl. 60-39.36.
- Cook, Henry, to Rolls-Royce Ltd. Fuel control means responsive to rate of change of by-pass duct pressures in by-pass gas turbine engines. 2,810,358, 10-22-57, Cl. 60-35.6.
- Cook, Jay E. Ball throwing machine. 2,793,636, 5-28-57, Cl. 124-6.
- Cook, John, deceased: J. R. and P. M. Cook, executors, to Cook Mfg. Co. Wire stranding machine. 2,817,948, 12-31-57, Cl. 57-67.
- Cook, John A. and J. A., Jr. Machine to simultaneously effect a plurality of bends in a rod. 2,815,062, 12-3-57, Cl. 153-20.
- Cook, John A., Jr.: *See*—
- Cook, John A. and J. A., Jr. 2,815,062.
- Cook, John F. Automatic door control. 2,801,844, 8-6-57, Cl. 268-59.
- Cook, John R.: *See*—
- Cook, John. 2,817,948.
- Cook, John S., K. M. Poole, and J. W. Sullivan, to Bell Telephone Laboratories, Inc. Periodic focusing in traveling wave tubes. 2,812,470, 11-5-57, Cl. 315-3.5.
- Cook, Leon A., and C. F. Hutcheon, to World Plastex. Unplasticized resin protective lining for heat exchanger tube. 2,806,718, 9-17-57, Cl. 285-55.
- Cook, Lloyd A., to Kaiser Aluminum & Chemical Corp. Aluminum-dissimilar metal joint and method of making same. 2,790,656, 4-30-57, Cl. 287-20.2.
- Cook, Loren C. Gas system for firearms. 2,777,366, 1-15-57, Cl. 89-191.
- Cook, Loren C. Rotatably mounted sear safety. 2,786,293, 3-26-57, Cl. 42-70.
- Cook, Loren, Co.: *See*—
- Rudy, Emil. 2,805,615.
- Cook Mfg. Co.: *See*—
- Cook, John, J. R., and P. M. 2,817,948.
- Cook, Maxwell: *See*—
- Cook, John. 2,817,948.
- Cook, Newell C.: *See*—
- Wolfe, John K., and Cook. 2,786,862.
- Cook, Newell C., and J. K. Wolfe, to General Electric Co. Transient arc method of preparing fluorocarbons. 2,785,119, 3-12-57, Cl. 204-169.
- Cook, Paul E., II, and P. R. Sollars. Ground enclosure. 2,797,896, 7-2-57, Cl. 256-25.
- Cook, Paul W. Wheel attaching brackets. 2,807,507, 9-24-57, Cl. 301-36.
- Cook, Philip S.: *See*—
- Pfundt, Frederick H. 2,789,877.
- Cook, Ralph L., to Olin Mathieson Chemical Corp. Propellant powder. 2,799,566, 7-16-57, Cl. 52-11.
- Cook, Raymond M. Container operable as bellows to dispense dust. 2,779,126, 1-29-57, Cl. 43-146.
- Cook, Richard H., and C. A. Berlepsch. Electric ironer. 2,810,971, 10-29-57, Cl. 38-99.
- Cook, Richard S., and W. E. Craig, to Rohm & Haas Co. Bis(acrylthiomidazolynyl)ethyl ethers. 2,806,854, 9-17-57, Cl. 260-309.6.
- Cook, Robert N. Coupler assembly for davit-falls or the like. 2,818,297, 12-31-57, Cl. 294-84.
- Cook, Robert S. Method and apparatus for concentrating solutions. 2,798,543, 7-9-57, Cl. 159-27.
- Cook, Robert S. Crystallizing evaporators, vertical current classifiers and the like. 2,808,103, 10-1-57, Cl. 159-45.
- Cook, Sidney A., to Aldis Brothers Ltd. Signalling lamps. 2,811,714, 10-29-57, Cl. 340-366.
- Cook, Simon H., 50% to C. H. Cook. Boat trailer. 2,785,815, 3-19-57, Cl. 214-396.
- Cook, Tippy K. Method of holding socks in pairs for laundering. 2,785,413, 3-19-57, Cl. 2-240.
- Cook, Walter. Bottle identifying device. 2,810,490, 10-22-57, Cl. 215-9.
- Cook, Walter A.: *See*—
- Rueggeberg, Walter H. C., and Cook. 2,810,687.
- Cook, Wesley R. Denture. 2,803,879, 8-27-57, Cl. 32-2.
- Cook, Willard E. Magnetically-operated tool. 2,815,457, 12-3-57, Cl. 310-32.
- Cook, William. Neck and spine traction device. 2,813,527, 11-19-57, Cl. 128-87.
- Cook, William S., to West Virginia Pulp and Paper Co. Process for monosulfite recovery. 2,789,883, 4-23-57, Cl. 23-129.
- Cooke, David A., to the United States of America as represented by the Secretary of the Navy. Electrical relay circuit. 2,781,478, 2-12-57, Cl. 317-142.
- Cooke, Edward P., to International Harvester Co. Method and apparatus for supporting shell type molds for metal pouring. 2,800,692, 7-30-57, Cl. 22-90.
- Cooke, Francis C. Floor wax applicator. 2,803,027, 8-20-57, Cl. 15-131.
- Cooke, Giles B., and W. C. Rainer, to Crown Cork & Seal Co., Inc. Closures. 2,796,189, 6-18-57, Cl. 215-40.
- Cooke, Harold G., Jr., to Devco & Reynolds Co., Inc. Process for making polyglycidyl cyanurates. 2,809,942, 10-15-57, Cl. 260-2.
- Cooke, Helen. Growing doll. 2,789,393, 4-23-57, Cl. 46-90.
- Cooke, Theodore F.: *See*—
- Eastes, John W., and Cooke. 2,789,919.
- Cooke, Theodore F., L. A. Pluck, and P. B. Roth, to American Cyanamid Co. Silicate-aminoplast compositions and textiles coated therewith. 2,785,145, 3-12-57, Cl. 260-29.4.
- Cooke, Theodore F., and E. S. Pierce, to American Cyanamid Co. Process for treating textile fibers and the products produced thereby. 2,788,295, 4-9-57, Cl. 117-169.
- Cookerly, Jack C., and G. R. Hall. Illuminator for musical instruments. 2,777,941, 1-15-57, Cl. 240-4.
- Cooke-Yarborough, Edmund H.: *See*—
- Thomas, David G. A., and Cooke-Yarborough. 2,783,415.
- Cook 'N' Tools, Inc.: *See*—
- Alter, Winfield S. 2,787,995.
- Cooksley, Bernard: *See*—
- Penlington, Thomas E., and Cooksley. 2,798,173.
- Cooksley, Ralph D., and W. M. Lester. Automatic pressure container vacuumizing filling and charging machine. 2,804,102, 8-27-57, Cl. 141-20.
- Cookson, Arthur I., deceased, and F. M. De Mont; N. M. Cookson, administratrix, to Thomas Tool & Die Co. Electrical outlet box support. 2,788,187, 4-9-57, Cl. 248-27.
- Cookson, Leonard T., to The Upjohn Co. Intermittent drive for a counting device. 2,778,464, 1-22-57, Cl. 192-12.
- Cookson, Leonard T., to The Upjohn Co. Bottle stoppering apparatus. 2,797,541, 7-2-57, Cl. 53-306.
- Cookson, Leonard T., and W. R. Smith, to The Upjohn Co. Counter with disk device. 2,801,025, 7-30-57, Cl. 221-203.
- Cookson, Nita M.: *See*—
- Cookson, Arthur I., and De Mont. 2,788,187.
- Cookson, William. Closure ring for container. 2,776,159, 1-1-57, Cl. 292-256.6.
- Cookson, William, 1/2 to J. C. Vredenburg-Englesby. Releasable fastening means for resilient sheet material parts. 2,797,777, 7-2-57, Cl. 189-36.
- Cool, Harold L. Can perforator. 2,788,917, 4-16-57, Cl. 222-83.5.
- Cooley, Austin G., to Times Facsimile Corp. Continuous or flat-type facsimile recorder. 2,796,316, 6-18-57, Cl. 346-74.
- Cooley, Austin G., to Times Facsimile Corp. Facsimile recorder of the stylus type. 2,814,547, 11-26-57, Cl. 346-74.
- Cooley, Hal, to W. L. Thompson. Magnetic switch. 2,804,518, 8-27-57, Cl. 200-87.
- Cooley, Jake C. Mine truck. 2,818,187, 12-31-57, Cl. 214-505.
- Cooley, Nathan. Paint brush assembly. 2,791,790, 5-14-57, Cl. 15-246.
- Coolidge, William N. Utilities meter structure. 2,815,258, 12-3-57, Cl. 346-95.
- Coombes, John E. M.: *See*—
- Walker, John R. D., Oates, and Coombes. 2,803,221.
- Coombs, Clarence T. Trash receptacle holder. 2,805,035, 9-3-57, Cl. 248-361.
- Coombs, Edward M., to Radio Corp. of America. Electron tube protective system. 2,815,446, 12-3-57, Cl. 250-27.
- Cooney, George R., to the United States of America as represented by the Secretary of the Navy. Waveguide switch. 2,798,208, 7-2-57, Cl. 333-98.
- Coonrad, Harry L., and W. K. Leaman, to Socony Mobil Oil Co., Inc. Demethylation of methylbenzenes. 2,786,876, 3-26-57, Cl. 260-672.
- Coonrad, Harry L., W. K. Leaman, and B. W. Rope, to Socony Mobil Oil Co., Inc. Demethylation process. 2,795,633, 6-11-57, Cl. 260-672.
- Coonrad, Harry L., C. J. Plank, and B. W. Rope, to Socony Mobil Oil Co. Demethylation of aromatic hydrocarbons. 2,805,267, 9-3-57, Cl. 260-672.
- Coons, Curtis C., to The Hoover Co. Suction cleaning tools. 2,807,824, 10-1-57, Cl. 15-359.
- Coons, Curtis C., and J. C. Montgomery, to The Hoover Co. Air supported cleaner. 2,780,826, 2-12-57, Cl. 15-327.
- Coons, James T. and R. J. Animated display. 2,791,853, 5-14-57, Cl. 40-139.
- Coons, Ronald J.: *See*—
- Coons, James T. and R. J. 2,791,853.
- Cooper, Albert S., Jr.: *See*—
- Keating, Esmond J., Cooper, and Buras. 2,816,003.
- Cooper, Benjamin. Treadle controlled toll checking systems. 2,784,911, 3-12-57, Cl. 235-99.
- Cooper, Benjamin. Treadle and treadle process. 2,796,488, 6-18-57, Cl. 200-86.
- Cooper-Bessemer Corp., The: *See*—
- Bovard, Charles M. 2,793,077.
- Gehres, Hewitt A. 2,799,255.
- Gehres, Hewitt A. 2,806,750.
- Ramsey, Robert P., and Morain. 2,815,641.
- Cooper, Charles M., to the United States of America as represented by the United States Atomic Energy Commission. Reactor unloading means. 2,803,601, 8-20-57, Cl. 204-193.2.
- Cooper, Duluth G. Control apparatus and proportioning device for fuel and combustion air. 2,777,513, 1-15-57, Cl. 158-119.
- Cooper, Eugene R. Damper assembly. 2,790,372, 4-30-57, Cl. 98-41.

- Cooper, Evelyn G. Method for the preparation of mashed potatoes. 2,802,742, 8-13-57, Cl. 99—100.
- Cooper, Fernore B.: *See—*
- Holman, Keith M., Cooper, and Bergman. 2,796,508.
- Cooper, Francis C. Mixing valve device for cold water and hot water. 2,808,848, 10-8-57, Cl. 137—100.
- Cooper, Franklin D. Adjustable curve. 2,798,299, 7-9-57, Cl. 33—177.
- Cooper, Frederic M.: *See—*
- Moore, George E., and Cooper. 2,791,883.
- Cooper, Frederick D.: *See—*
- Senkowski, Alexander, and Cooper. 2,786,402.
- Senkowski, Alexander, Czarnocki, and Cooper. 2,786,403.
- Senkowski, Alexander, and Cooper. 2,816,515.
- Cooper, George P., and K. O. Kelly, to Mercu-Ray Industries, Inc. Luminous signs. 2,801,483, 8-6-57, Cl. 40—130.
- Cooper, Gladys W. Fountain sponge. 2,779,962, 2-5-57, Cl. 15—130.
- Cooper, Glenn D., to General Electric Co. Chlorosulfonation of organosilicon compounds. 2,789,121, 4-16-57, Cl. 260—448.2.
- Cooper, Glenn D., to General Electric Co. Organopolysiloxane lubricants and their preparation. 2,811,540, 10-29-57, Cl. 260—448.2.
- Cooper, Harold G. Appliance protector. 2,777,916, 1-15-57, Cl. 200—115.5.
- Cooper, Hugh E.: *See—*
- Fulper, John H., Cooper, and Glidden. 2,818,008.
- Cooper, Hugh S., to W. M. Weil. Production of titanium tetrachloride. 2,802,721, 8-13-57, Cl. 23—87.
- Cooper, Hugh S., to W. M. Weil. Recovery of manganese values from metallurgical slags and tailings. 2,802,729, 8-13-57, Cl. 75—24.
- Cooper, Hugh S. Process for making alkali metals and apparatus therefor. 2,810,635, 10-22-57, Cl. 75—66.
- Cooper, Hugh S., to William F. Jobbins, Inc. Aluminum casting alloys. 2,811,439, 10-29-57, Cl. 75—143.
- Cooper, Jack, to Ciba Pharmaceutical Products, Inc. Reserpine composition for parenteral administration. 2,788,309, 4-9-57, Cl. 167—67.
- Cooper, Jack B.: *See—*
- Bagno, Samuel M., and Cooper. 2,794,974.
- Cooper, Jack E. Process of recovering iron values from blast furnace dust. 2,810,633, 10-22-57, Cl. 75—5.
- Cooper, James M., to General Electric Co. Signal voltage amplitude limiter. 2,802,167, 8-6-57, Cl. 323—9.
- Cooper, John N. Tree puller. 2,803,431, 8-20-57, Cl. 254—128.
- Cooper, John R., $\frac{1}{2}$ to S. Gross. Floodlight. 2,795,690, 6-11-57, Cl. 240—3.
- Cooper, Joseph H., to The Taylor-Winfield Corp. Narrow lap or semi-mash type travel head seam welder. 2,800,567, 7-23-57, Cl. 219—82.
- Cooper, Joseph H., to The Taylor-Winfield Corp. Method and apparatus for narrow lap or semi-mash seam welding. 2,800,568, 7-23-57, Cl. 219—82.
- Cooper, Joseph H., and A. J. Stratton, to E. I. du Pont de Nemours & Co. Phthalocyanine pigments. 2,816,045, 12-10-57, Cl. 106—288.
- Cooper, Kenneth K.: *See—*
- Bosch, Robert E., and Cooper. 2,812,128.
- Cooper, Kenneth K., to General Electric Co. Motor cooling means for hermetically sealed refrigerant compressor unit. 2,776,542, 1-8-57, Cl. 62—3.
- Cooper, Leon. Collapsible window for flexible panels. 2,785,004, 3-12-57, Cl. 296—145.
- Cooper, Louis: *See—*
- Natale, Joseph A. 2,782,085.
- Cooper, Nathan, and C. S. Schwartz. Klystron tube tester. 2,796,582, 6-18-57, Cl. 324—22.
- Cooper, Ralph M., Jr., to Sterling Drug Inc. Stabilized analgesic compositions. 2,801,951, 8-6-57, Cl. 167—55.
- Cooper, Robert, to Awica Products, Inc. Clamp assembly. 2,806,276, 9-17-57, Cl. 24—279.
- Cooper, Robert H., and J. J. D'Amico, to Monsanto Chemical Co. Manufacture of branched chain sulfenamides. 2,807,620, 9-24-57, Cl. 260—306.6.
- Cooper, Robert H., and J. J. D'Amico, to Monsanto Chemical Co. Manufacture of tertiary-octyl-2-benzothiazolesulfenamide. 2,807,621, 9-24-57, Cl. 260—306.6.
- Cooper, Roland S., to The Air Preheater Corp. Zoned air heater. 2,795,213, 6-11-57, Cl. 122—1.
- Cooper, Roland S., and J. R. McEntee, to The Air Preheater Corp. Precipitator intermediate series air heaters. 2,795,401, 6-11-57, Cl. 257—2.
- Cooper, Theodore W., to Hughes Aircraft Co. Junction type semiconductor devices and method of making the same. 2,794,942, 6-4-57, Cl. 317—235.
- Cooper, Theodore W., to Hughes Aircraft Co. Mounting means for semiconductor crystal body. 2,808,543, 10-1-57, Cl. 317—235.
- Cooper, William M., Jr., E. F. Upchurch, B. L. Schulman, and W. G. May, to Esso Research and Engineering Co. Fluid coking process. 2,789,942, 4-23-57, Cl. 202—28.
- Coöperatieve Verkoop-en Productievereniging van Aardappelmeel en Derivaten "Avebe" G. A.: *See—*
- Bus, Willem C., and Muetgeert. 2,803,568.
- Cooperative Grange League Federation Exchange, Inc.: *See—*
- Maxwell, Rodney L. 2,802,435.
- Co-Operative Industries, Inc.: *See—*
- Lamb, John M. 2,785,382.
- Cooperman, Philip: *See—*
- Armstrong, John A., Cooperman, and White. 2,815,824.
- Cooperrider, Myron T.: *See—*
- Swenson, Paul F. 2,815,175.
- Coopridge, Rex C., and J. U. Stewart, to The Drackett Co. Dispenser for liquids. 2,815,890, 12-10-57, Cl. 222—207.
- Coors, Georg, to Westofen G. m. b. H. Device for removing and replacing the cover of a furnace or the like. 2,815,203, 12-8-57, Cl. 268—10.
- Coover, Harry W., Jr.: *See—*
- Dickey, Joseph B., and Coover. 2,780,616.
- Joyner, Frederick B., and Coover. 2,784,127.
- Shearer, Newton H., Jr., and Coover. 2,776,232.
- Shearer, Newton H., Jr., and Coover. 2,790,744.
- Shearer, Newton H., Jr., and Coover. 2,790,745.
- Touey, George P., and Coover. 2,805,205.
- Coover, Harry W., Jr., to Eastman Kodak Co. Mixtures comprising acrylonitrile polymers with polyvinylpyrrolidone and fibers thereof. 2,790,783, 4-30-57, Cl. 260—30.2.
- Coover, Harry W., Jr., to Eastman Kodak Co. Modified gelatins obtained by polymerizing an alkenyl carbonamide in an aqueous gelatin solution. 2,794,787, 6-4-57, Cl. 260—8.
- Coover, Harry W., Jr., to Eastman Kodak Co. Copolymerization of ethenoid monomers in the presence of polyacrylonitrile. 2,794,793, 6-4-57, Cl. 260—45.5.
- Coover, Harry W., Jr., to Eastman Kodak Co. Modified polyvinyl alcohol polymers and their preparation. 2,816,087, 12-10-57, Cl. 260—45.5.
- Coover, Harry W., Jr., to Eastman Kodak Co. Mixed adhesive compositions including α -cyanoacrylate esters. 2,816,093, 12-10-57, Cl. 260—78.5.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Mixtures comprising acrylonitrile polymers with polyacrylonitrile. 2,776,270, 1-1-57, Cl. 260—32.6.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Mixtures comprising acrylonitrile polymers containing alkenyl carbonamides and polyacrylonitrile. 2,776,271, 1-1-57, Cl. 260—45.5.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Reaction product of trialkyl phosphite and acetic anhydride. 2,784,209, 3-5-57, Cl. 260—461.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Polymerization of acrylonitrile in the presence of preformed homopolymers. 2,787,606, 4-2-57, Cl. 260—45.5.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Bis (chloromethane alkyl) phosphonic acid anhydrides. 2,787,629, 4-2-57, Cl. 260—461.
- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Inhibition of autopolymerization in vinyl-type compounds. 2,787,634, 4-2-57, Cl. 260—465.9.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Polymerization of acrylonitrile in the presence of ester-amide polymers. 2,790,784, 4-30-57, Cl. 260—45.5.
- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Acrylic acid esters containing a phosphonamido group. 2,790,823, 4-30-57, Cl. 260—482.
- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Adhesive compositions containing alkyl esters of cyanoacrylic acid. 2,794,788, 6-4-57, Cl. 260—17.
- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Graft copolymers containing N-acrylyl and N-methacrylyl substituted nitrogen heterocyclic components. 2,798,061, 7-2-57, Cl. 260—45.5.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Amides and esters of iminodiphosphoric acid and nitrilotriphosphoric acid. 2,798,086, 7-2-57, Cl. 260—461.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Phosphorothiolates having insecticidal properties, and method of making same. 2,811,543, 10-29-57, Cl. 260—461.
- Copar, Inc.: *See—*
- Sorrell, Richard A. 2,780,107.
- Copco Trailer Division, a division of Copco Steel & Engineering Co.: *See—*
- Tenenbaum, Paul. 2,793,068.
- Cope, Appleton D., and R. R. Goodrich, to Radio Corp. of America. Method of forming a photoconductive target electrode. 2,783,117, 2-26-57, Cl. 316—8.
- Cope, Arthur C., and M. Burg, to Merck & Co., Inc. Cycloctatetraene derivatives. 2,784,240, 3-5-57, Cl. 260—648.
- Cope, Charles H.: *See—*
- Cope, Oliver H. 2,796,042.
- Cope, Oliver, H., to G. W. Sidwell and C. H. Cope. Bathing device for birds. 2,796,042, 6-18-57, Cl. 119—1.
- Copease Mfg. Co., Inc.: *See—*
- Unterberger, Ernst. 2,793,574.
- Copeland, Calvin C.: *See—*
- Copeland, Edwin A. 2,811,026.
- Copeland, Clayton S. Resilience adjusting means for coil springs. 2,807,459, 9-24-57, Cl. 267—33.
- Copeland, Edwin A., $\frac{1}{2}$ to C. C. Copeland, and $\frac{1}{2}$ to Quality Hosiery Mills, Inc. Circular knitting machine attachment. 2,811,026, 10-29-57, Cl. 66—48.
- Copeland, Jacob C. Magnifying reflection viewer for stereoscopic pictures. 2,782,681, 2-26-57, Cl. 88—29.
- Copeland, Kenneth B.: *See—*
- Slack, George H., and Copeland. 2,810,738.
- Copeland Refrigeration Corp.: *See—*
- Buschmann, Oskar H. 2,796,744.

- Copeland & Slack, Inc.: *See*—
Slack, George H., and Copeland. 2,810,738.
- Copeland, William M.: *See*—
Russer, Harold G., and Copeland. 2,811,304.
- Copelin, Harry B., to E. I. du Pont de Nemours and Co. Composition and process for phosphatizing metal. 2,789,070, 4-16-57, Cl. 148—6,15.
- Copelin, Harry B., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,797,250, 6-25-57, Cl. 260—652.5.
- Copelin, Harry B., and A. Sledd, to E. I. du Pont de Nemours and Co. Stabilization of pyrrole. 2,779,765, 1-29-57, Cl. 260—313.
- Copelin, Harry B., and G. B. Crane, to E. I. du Pont de Nemours & Co. Cyanidation catalysts. 2,779,781, 1-29-57, Cl. 260—465.8.
- Copelin, Harry B., and F. J. Feldhausen, Jr., to E. I. du Pont de Nemours & Co. Production of adiponitrile. 2,783,268, 2-26-57, Cl. 260—465.8.
- Copelin, Harry B., and F. J. Feldhausen, Jr., to E. I. du Pont de Nemours & Co. Production of adiponitrile. 2,786,072, 3-19-57, Cl. 260—465.8.
- Copeman, Lloyd G., deceased; E. J. Gerlock, executrix. Moisture impervious container. 2,781,159, 2-12-57, Cl. 229—16.
- Copenhaver, Elmer L., and F. Cantabery. Apparatus for moulding dough. 2,791,974, 5-14-57, Cl. 107—12.
- Copenhaver, John W., to The M. W. Kellogg Co. Alpha-oximino sulfides and their preparation. 2,786,865, 3-26-57, Cl. 260—453.
- Copenhefer, John B., and H. L. Scott, to Brown-Forman Distillers Corp. Method for quantitatively testing for thio-sulfate radical. 2,785,958, 3-19-57, Cl. 23—230.
- Coplen, Herman L., Jr.: *See*—
Zucrow, Maurice J., and Coplen. 2,794,318.
- Copleston, Francis W., to The British Oxygen Co. Ltd. Welding torches. 2,797,301, 6-25-57, Cl. 219—75.
- Copley, Walter H.: *See*—
Davies, William A., and Copley. 2,815,664.
- Coplin, Bernard L. Exercising apparatus. 2,803,461, 8-20-57, Cl. 272—57.
- Copold, Milburn C., to General Dynamics Corp. Work holder. 2,782,574, 2-26-57, Cl. 51—235.
- Coppage, Avery S., $\frac{1}{4}$ to L. Coppage and $\frac{1}{4}$ to W. C. Bowsher. Pump-type toothpaste dispenser. 2,792,856, 5-21-57, Cl. 141—362.
- Coppage, Lela: *See*—
Coppage, Avery S. 2,792,856.
- Coppard, Anthony H.: *See*—
Meadows, Stanley G., Hallas, Coppard, and King. 2,805,391.
- Copper Research: *See*—
Furness, William H. Re. 24,324.
- Copping, Brian G., to Atkron, Inc. Conveying and unloading apparatus. 2,812,085, 11-5-57, Cl. 214—311.
- Copping, Bruce G., to Atkron, Inc. Power transmission devices. 2,792,695, 5-21-57, Cl. 64—29.
- Coppola, John J. Gas washing device. 2,787,454, 4-2-57, Cl. 261—122.
- Coppola, Patrick P., to North American Philips Co. Indirectly heated cathode. 2,813,220, 11-12-57, Cl. 313—346.
- Copsey, William E.: *See*—
Cressell, Ian G. A., Madigan, and Copsey. 2,814,852.
- Coquelet, Jules, to Ateliers de Constructions Electriques de Charleroi. Teleprinter receiver. 2,794,068, 5-28-57, Cl. 178—51.
- Coquyt, Camiel J. Egg washing machine. 2,775,974, 1-1-57, Cl. 134—139.
- Corbett, James P., R. W. Sutton, and R. D. Ball, to The English Electric Co. Ltd. Servo control systems. 2,807,763, 9-24-57, Cl. 318—28.
- Corbett, Joseph R., and L. H. Sprague, to NuTone, Inc. Culinary mixer. 2,798,700, 7-9-57, Cl. 259—85.
- Corbett, Lawrence W., to James Smith & Son, Inc. Brush reciprocating mechanism for combing machines. 2,786,239, 3-26-57, Cl. 19—115.
- Corbett, Marshall J., to Thompson Products, Inc. Flow meter. 2,800,020, 7-23-57, Cl. 73—228.
- Corbett, William H.: *See*—
Schmitt, Joy B., and Corbett. 2,777,935.
Schmitt, Joy B., and Corbett. 2,818,486.
- Corbiere, Robert L., to Societe des Forges et Ateliers du Creusot. Hydro-electric turbo-generator. 2,783,392, 2-26-57, Cl. 290—52.
- Corbin, Elbert A., Jr. Float valve. 2,795,237, 6-11-57, Cl. 137—433.
- Corbin, Wesley S.: *See*—
Wisner, Isle R., Corbin, and Walden. 2,799,209.
- Corbitt, Robert W.: *See*—
Fletcher, Arthur H., Corbitt, and Knowles. 2,802,334.
- Corcoran, John W. Apparatus for shock testing. 2,809,514, 10-15-57, Cl. 73—12.
- Corcoran, Lyle S. Shot measuring device. 2,778,528, 1-22-57, Cl. 222—46.
- Corcoran, Richard S. Pipe coupling with detent means. 2,784,987, 3-12-57, Cl. 285—87.
- Corcoran, Thomas M., to Standard Electronics Corp. Rotor. 2,788,038, 4-9-57, Cl. 146—68.
- Corda, Charles L.: *See*—
Klein, Raymond N., and Corda. 2,818,293.
- Corde De Parie Corset Co., Inc.: *See*—
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- Cordiee-Roy, Guy G. J.: *See*—
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- Cordier, Arthur E. Brick mason's gable clamp. 2,809,434, 10-15-57, Cl. 33—85.
- Cordier, David E., to Allied Chemical & Dye Corp. Polymerizable diallyl phthalate compositions containing, as a filler, kaolin coated with a thermosetting amine formaldehyde resin. 2,811,500, 10-29-57, Cl. 260—39.
- Cordill, Allen T.: *See*—
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Gillespie, Joseph, and Cordill. 2,809,661.
- Cording, James, Jr.: *See*—
Williard, Miles J., Jr., and Cording. 2,780,552.
- Cording, James, Jr., and M. J. Willard, Jr., to the United States of America as represented by the Secretary of Agriculture. Method for control of texture of dehydrated potatoes. 2,787,553, 4-2-57, Cl. 99—207.
- Cordingly, Norman C., to General Electric Co. X-ray tube housing. 2,808,517, 10-1-57, Cl. 250—90.
- Cordis, Nat.: *See*—
Martin, Maynar S., and M. L. 2,782,761.
- Cordis, Nat. Milking apparatus. Re. 24,337, 7-16-57, Cl. 119—14.9.
- Cordis, Nat. $\frac{1}{2}$ to G. L. Kitson. Reciprocating paddle-type trough feeder. 2,785,791, 3-19-57, Cl. 198—224.
- Cordis, Nat. $\frac{1}{2}$ to G. L. Kitson. Paddle-type reciprocating trough feeders. 2,785,792, 3-19-57, Cl. 198—224.
- Cordo Chemical Corp.: *See*—
Homan, Edward C. M. 2,783,214.
- Cordoba, Felix: *See*—
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- Cordon, Theone C.: *See*—
Krider, Merle M., Cordon, and Wall. 2,784,144.
- Cordon, Theone C., to the United States of America as represented by the Secretary of Agriculture. Process for unhairing of hides. 2,791,535, 5-7-57, Cl. 195—6.
- Cordova, Frederick B., Jr.: *See*—
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- Cordray, Richard E., to General Electric Co. Quick reset induction time delay device. 2,797,369, 6-25-57, Cl. 317—36.
- Core, Jesse F., and A. R. Werft, to United States Steel Corp. Method of mining coal. 2,780,448, 2-5-57, Cl. 262—1.
- Corey, Edward A., Jr. Golf ball warmer. 2,779,578, 1-29-57, Cl. 263—5.
- Corey, Flournoy: *See*—
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Pitts, Robert D., and Corey. 2,777,159.
- Corey, Frank J., to Raytheon Mfg. Co. Bushings. 2,806,080, 9-10-57, Cl. 174—153.
- Corey, John W.: *See*—
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- Corey, Loris: *See*—
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- Corin, Irving and M. Battery operated closet light. 2,817,753, 12-24-57, Cl. 240—10.6.
- Corin, Morris: *See*—
Corin, Irving and M. 2,817,753.
- Cork, Bruce: *See*—
Jacobi, William J., and Cork. 2,803,006.
- Cork, Bruce B., and M. Clark, Jr., to the United States of America as represented by the Secretary of the Navy. Cavity resonator devices. 2,781,493, 2-12-57, Cl. 333—13.
- Cork, Gordon H., to Process Gear and Machine Co. Universal joint. 2,780,080, 2-5-57, Cl. 64—21.
- Cork, Herbert V., Jr., $\frac{1}{2}$ to H. V. Cork, Sr., and $\frac{1}{2}$ to S. Penrod. Adjustable snow plow. 2,811,792, 11-5-57, Cl. 37—53.
- Cork, Herbert V., Sr.: *See*—
Cork, Herbert V., Jr. 2,811,792.
- Corkery, Leon J., to Deere & Co. Power adjusting mechanism for harvester reels. 2,791,084, 5-7-57, Cl. 56—222.
- Corkery, Leon J., to Deere & Co. Clutch. 2,801,535, 8-6-57, Cl. 64—30.
- Corl, Cady S., to Hanson Equipment Co. Spraying apparatus. 2,778,688, 1-22-57, Cl. 299—154.
- Corley, Burley W. Apparatus for continuous metal casting. 2,789,327, 4-23-57, Cl. 22—57.2.
- Corley, Charles B., Jr.: *See*—
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- Corley, Gale C. Panel cart. 2,785,814, 3-19-57, Cl. 214—390.
- Cormack, Clarence E., to Union Carbide and Carbon Corp. Wear-resistant alloy. 2,780,542, 2-5-57, Cl. 75—134.
- Cormack, Marjorie J.: *See*—
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Adams, Clyde S., Cormack, and Frazier. 2,783,228.
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- Cormack, Marjorie J., and N. A. Thacker, to The National Cash Register Co. Method of desensitizing clay-coated record sheet. 2,777,780, 1-15-57, Cl. 117—36.
- Corman, Julian: *See*—
Sharpe, Eugene S., and Corman. 2,776,926.
- Corman, Julian, and H. M. Tsuchiya, to the United States of America as represented by the Secretary of Agriculture. Enzymic production of dextran of intermediate molecular weights. 2,776,925, 1-8-57, Cl. 195—31.

- Corn Products Refining Co.:** *See—*
 Baldwin, Arthur R., Blatter, and Gallagher. 2,815,360.
 Gilkison, John S., and Kooi. 2,810,677.
 Gottfried, Jacob B., Luby, and Newkirk. 2,797,176.
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 Kooi, Earl R. 2,801,205.
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 Paschall, Eugene F. 2,806,857.
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- Corne, Dustin C.** Joint for wires. 2,802,044, 8-6-57, Cl. 174-84.
- Corneil, Ernest R., to E. I. du Pont de Nemours and Co.** Determination of solids in liquids. 2,779,189, 1-29-57, Cl. 73-61.
- Corneil, Ernest R.** Impact spraying of slurries. 2,786,656, 3-26-57, Cl. 259-151.
- Corneil, Ernest R., to E. I. du Pont de Nemours and Co.** Thermocouple for thermal analysis of salt baths. 2,794,844, 6-4-57, Cl. 136-4.
- Corneil, Ernest R., to E. I. du Pont de Nemours and Co.** Sodium container. 2,809,749, 10-15-57, Cl. 206-84.
- Corneil, Hampton G.:** *See—*
 Boynton, Harry G., Corneil, Lewis and Watson. 2,807,640.
- Corneil, Hampton G., G. T. Gwin, and P. F. Korbach, to Esso Research and Engineering Co.** Method for solvent de-asphalting of residual oil. 2,793,168, 5-21-57, Cl. 196-14.46.
- Cornelius, Edward B., T. H. Milliken, Jr., and G. A. Mills, to Houdry Process Corp.** Extruding attrition resistant alumina particles. 2,809,170, 10-8-57, Cl. 252-465.
- Cornelius, Gail, to R. M. Wade & Co.** Irrigation sprinkler mounting. 2,795,459, 6-11-57, Cl. 299-58.
- Cornelius, George W.** Speed regulating apparatus for use with an internal combustion engine. 2,796,053, 6-18-57, Cl. 123-103.
- Cornelius, Paul D., to Vlier Engineering Inc.** Spring plunger. 2,791,914, 5-14-57, Cl. 74-527.
- Cornelius Printing Co.:** *See—*
 Tufts, Ralph B. 2,784,493.
- Cornelius, Richard T.** Switch mechanisms. 2,782,272, 2-19-57, Cl. 200-82.
- Cornelius, Richard T.** Universal joints. 2,787,143, 4-2-57, Cl. 64-6.
- Cornelius, Richard T.** Shaft seals. 2,807,483, 9-24-57, Cl. 286-11.16.
- Cornell Aeronautical Laboratory, Inc.:** *See—*
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 Dye, Edward R., and Shoemaker. 2,783,006.
- Cornell, Archie R.:** *See—*
 Oglesbee, Wendell, and Cornell. 2,797,366.
 Oglesbee, Wendell, and Cornell. 2,797,395.
- Cornell-Dubilier Electric Corp.:** *See—*
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- Cornell, Edward S., Jr., to Burndy Corp.** Socket connector. 2,813,257, 11-12-57, Cl. 339-258.
- Cornell, Frank J., to The Ohio Crankshaft Co.** High-frequency transformer construction. 2,782,386, 2-19-57, Cl. 336-220.
- Cornell, Fritz G., Jr.** Mixer. 2,795,404, 6-11-57, Cl. 259-14.
- Cornell Machine Co.:** *See—*
 Cornell, Mead. 2,785,765.
- Cornell, Mead, to The Cornell Machine Co.** Degasser. 2,785,765, 3-19-57, Cl. 183-2.5.
- Cornell Paperboard Products Co.:** *See—*
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- Cornell, Paul W., and R. S. Knappen, to Gulf Oil Corp.** Storage apparatus. 2,798,633, 7-9-57, Cl. 220-26.
- Cornell Research Foundation. The:** *See—*
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- Cornell, Suzanne H.:** *See—*
 Herrick, Gerard P. 2,807,427.
- Cornell University:** *See—*
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- Corner, Eugene S., and C. S. Lynch, to Esso Research and Engineering Co.** Olefin polymerization catalyst and process. 2,778,804, 1-22-57, Cl. 252-435.
- Cornett, Walter V.** Pneumatically operated hammer device. 2,806,657, 9-17-57, Cl. 241-271.
- Corney, John V., to Ferguson Radio Corp. Ltd.** Sound reproducing apparatus. 2,802,064, 8-6-57, Cl. 179-1.
- Corning, Erastus, 2nd.** Fly rod lure. 2,786,295, 3-26-57, Cl. 43-42.32.
- Corning Glass Works:** *See—*
 Andrysick, Chester A., and Palmer. 2,799,974.
 Armistead, William H. 2,799,590.
 Crawford, Clark A. 2,790,669.
 Dalton, Robert H., and Voss. 2,782,952.
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 Hood, Harrison P., and Stookey. 2,779,136.
 Jenkins, Weston H., and Schelby. 2,799,765.
 Littleton, Jesse T. 2,795,084.
 Nordberg, Martin E. 2,779,688.
 Randels, Robert B., Orr, and Sheldon. 2,787,101.
 Shaw, Morton R. 2,795,018.
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- Cornish, Edward J.:** *See—*
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- Cornish, Harry E.:** *See—*
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 Bloom, John C., and Cornish. 2,803,718.
- Cornish, Irving R.** Filing cabinet. 2,814,544, 11-26-57, Cl. 312-271.
- Cornish, Irving R.** Filing cabinet. 2,814,545, 11-26-57, Cl. 312-271.
- Cornock, Edward F., F. B. Roberts, and N. W. Lyon, to Package Machinery Co.** Wrapping machine. 2,810,246, 10-22-57, Cl. 53-228.
- Corns, Marshall C.** Utensil handle-changing device. 2,818,291, 12-31-57, Cl. 287-99.
- Cornwall, Leo W.** Hydraulic power transmissions. 2,778,244, 1-22-57, Cl. 74-687.
- Cornwall & Patterson Co. The:** *See—*
 Rosenberg, William F. 2,804,894.
- Cornwell, Richard E., to American Viscose Corp.** Method and apparatus for processing plastic tubing. 2,781,589, 2-19-57, Cl. 34-12.
- Coro, Inc.:** *See—*
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- Coronet of Palm Beach, Inc.:** *See—*
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- Corper, Harry J., and C. Clark.** Procedure for intracorporal intra- and subcutaneous test, therapy, immunization, vaccination, and drug administration. 2,779,332, 1-29-57, Cl. 128-253.
- Corr, John E., and J. H. Ouellette, to General Electric Co.** Turbine nozzle structure. 2,777,666, 1-15-57, Cl. 253-78.
- Corr, Mark S.** Collapsible bread box. 2,782,950, 2-26-57, Cl. 217-15.
- Correll, Francis M.** Autographic recording apparatus. 2,783,119, 2-26-57, Cl. 346-118.
- Correll, Weldon R.** Lens measuring apparatus. 2,798,410, 7-9-57, Cl. 88-56.
- Correll, William L., 1/2 to D. V. Groff.** Radiator filling device. 2,811,181, 10-29-57, Cl. 141-340.
- Correy, Thomas B., and M. H. Taylor, to the United States of America as represented by the United States Atomic Energy Commission.** Marking fluoroscope head. 2,800,588, 7-23-57, Cl. 250-59.
- Corrick, Denis W., and C. H. Russell, to The Bristol Aeroplane Co. Ltd.** Prime movers. 2,792,784, 5-21-57, Cl. 102-49.
- Corrigan, John:** *See—*
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- Corrin, Myron L., to General Electric Co.** Process of preparing organopolysiloxane in particulate form. 2,803,617, 8-20-57, Cl. 260-37.5.
- Corrington, Murlan S., to Radio Corp. of America.** Transient correcting network. 2,790,954, 4-30-57, Cl. 333-20.
- Corsaw, Harry B.** Key holder. 2,789,613, 4-23-57, Cl. 150-40.
- Corser, John, and F. A. Grooss, to Caterpillar Tractor Co.** Safety latch for earthmoving scraper bowl. 2,804,702, 9-3-57, Cl. 37-126.
- Corsette, William T., to The Youngstown Sheet and Tube Co.** Swivel connection having split bearing ring and means for retaining the same. 2,817,543, 12-24-57, Cl. 285-281.
- Cortat, Baldomero C.** Bottle stoppers. 2,801,017, 7-30-57, Cl. 215-55.
- Cortegiano, William L., and P. F. Good, to Westinghouse Electric Corp.** Work handling apparatus. 2,812,870, 11-12-57, Cl. 214-340.
- Cortelli, John A., and R. H. Hoge, to The Clark Controller Co.** Control devices and systems. 2,794,523, 6-4-57, Cl. 192-12.
- Coru-Ply Corp.:** *See—*
 Knowles, William L. 2,785,717.
- Corwin, Alfred W., to McGraw-Edison Co.** Power accumulating intermittent driving mechanism. 2,791,908, 5-14-57, Cl. 74-84.
- Corwin, Alfred W., to McGraw-Edison Co.** Electrical switch. 2,799,747, 7-16-57, Cl. 200-118.
- Corwin, Jerome:** *See—*
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- Corwin, Sylvan E.** Coin receptacle. 2,799,447, 7-16-57, Cl. 232-13.
- Cory Corp.:** *See—*
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- Cory, Samuel I., to Bell Telephone Laboratories, Inc.** Telegraph transmission error register. 2,813,149, 11-12-57, Cl. 178-23.
- Corydon, Jeff, II.** Bumper guards. 2,798,756, 7-9-57, Cl. 293-67.
- Cosby, John N., R. K. Eberts, and N. S. Raynsford, to Allied Chemical & Dye Corp.** Synthesis of carbonyl compounds. 2,808,429, 10-1-57, Cl. 260-488.
- Coselman, C. B., Inc.:** *See—*
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- Coselman, Clinton B., to C. B. Coselman, Inc.** Thermostatic damper control. 2,793,811, 5-28-57, Cl. 236-10.
- Cosentino, Victor M.** Suction operated cleaning brush. 2,777,152, 1-15-57, Cl. 15-387.
- Cosgrove, Francis N.** Collapsible lectern. 2,786,299, 3-26-57, Cl. 45-57.
- Cosgrove, John C.:** *See—*
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- Cosgrove, Stanley L.: *See*—
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- Cosier, John E. G., and R. J. Cave, to Hartford National Bank and Trust Co., as trustee. High-frequency electrical apparatus. 2,782,281, 2-19-57, Cl. 200—98.
- Coskun, Mehmet K.: *See*—
Bachman, Fred E., Buchholz, and Coskun. 2,791,294.
Bachman, Fred E., and Coskun. 2,786,151.
- Coskun, Mehmet K., to American Steel Foundries. Rotor brake actuator and automatic slack adjuster therefor. 2,812,831, 11-12-57, Cl. 188—59.
- Cosler, Horace B. Method of producing zein-coated confectionery. 2,791,509, 5-7-57, Cl. 99—166.
- Cosmopolitan A. G.: *See*—
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- Cosmos, William J. Contact wheel and rim for the same. 2,778,166, 1-22-57, Cl. 51—141.
- Cosner, Robert R.: *See*—
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- Coss, Harold T., to Johns-Manville Corp. Refrigerator floor insulation. 2,789,322, 4-23-57, Cl. 20—6.
- Coss, William. Decorating model. 2,792,647, 5-21-57, Cl. 35—50.
- Coss, William. Electrical decorating model. 2,792,648, 5-21-57, Cl. 35—53.
- Cossock, Ralph. Floor covering marker. 2,796,665, 6-25-57, Cl. 33—23.
- Cossor, A. C., Ltd.: *See*—
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- Costa, Siegfried: *See*—
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- Costa, Siegfried, to Siemens & Halske Aktiengesellschaft. Dispenser cathode having heater embedded in densely sintered receptacle wall. 2,798,182, 7-2-57, Cl. 313—340.
- Costantino, Anthony R.: *See*—
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- Costanzo, Kathryn N. Deodorizing dog collar. 2,808,030, 2,808,030, 10-1-57, Cl. 119—106.
- Costello, Arlen W.: *See*—
Casey, Harry L., and Costello. 2,781,763.
- Costello, George T.: *See*—
Costello, Timothy J. and G. T. 2,800,126.
- Costello, James P. Tricycle guider. 2,816,775, 12-17-57, Cl. 280—289.
- Costello, James R., to Victor Chemical Works. Fabric flameproofing process. 2,811,469, 10-29-57, Cl. 117—136.
- Costello, Timothy J. and G. T., to National Heater Co., Inc. Space heater. 2,800,126, 7-23-57, Cl. 126—110.
- Costolow, John J., to Phillips Petroleum Co. Ammonium sulfate production. 2,782,097, 2-19-57, Cl. 23—119.
- Cosulich, Donna B., to American Cyanamid Co. Substituted nitrosopyrroles and method of preparing the same. 2,805,227, 9-3-57, Cl. 260—326.3.
- Cota, Joe C. Rotary photographic film driers. 2,782,526, 2-26-57, Cl. 34—82.
- Cotchett, Louis M. Top roll for drawing mechanism. 2,775,793, 1-1-57, Cl. 19—142.
- Cote, Berthe. Pants hanger. 2,799,438, 7-16-57, Cl. 223—95.
- Cote, Omer E., to United States Automatic Box Machinery Co. Method and apparatus for spot coating box blanks. 2,776,224, 1-1-57, Cl. 117—38.
- Cote, Raymond A.: *See*—
Desmond, John D., and Cote. 2,781,898.
- Cote, Raymond A., to Container Corp. of America. Window carton with cushioning structure. 2,807,404, 9-24-57, Cl. 229—27.
- Cote, Robert E. Light-containing handle for fishing equipment. 2,791,676, 5-7-57, Cl. 240—6.4.
- Cotesworth, Harry A.: *See*—
Anjeskey, Alphonse F., and Coteworth. 2,802,910.
- Cotney, Alva C., Jr.: *See*—
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- Cotroneo, Edoardo, to General Telephone Laboratories, Inc. Switching selector repeater systems. 2,804,503, 8-27-57, Cl. 179—18.
- Cottar, Robert. Adhesive spreader. 2,806,240, 9-17-57, Cl. 15—236.
- Cotte, Maurice J.: *See*—
Davy, John C., and Cotte. 2,797,920.
- Cotter, George L., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,796,300, 6-18-57, Cl. 303—35.
- Cotter, George L., to Westinghouse Air Brake Co. Combined air exhaustor and compressor. 2,812,893, 11-12-57, Cl. 230—46.
- Cotter, George L., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,812,982, 11-12-57, Cl. 303—14.
- Cotterman, Frank D.: *See*—
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- Cottle, Delmer L.: *See*—
Matuszak, Alfred H., Gleason, Young, and Cottle. 2,800,500.
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Young, David W., Morway, and Cottle. 2,795,546.
- Cottle, Delmer L., and D. W. Young, to Esso Research and Engineering Co. Process for the preparation of synthetic lubricants. 2,787,644, 4-2-57, Cl. 260—615.
- Cottle, Delmer L., and D. W. Young, to Esso Research and Engineering Co. Formalds of lubricating grade. 2,796,423, 6-18-57, Cl. 260—410.9.
- Cottle, Delmer L., and D. W. Young, to Esso Research and Engineering Co. Catalytic hydration of olefins. 2,810,759, 10-22-57, Cl. 260—597.
- Cottle, Delmer L., D. W. Young, and A. J. Morway, to Esso Research and Engineering Co. Lubricating grease compositions containing acyl derivatives of dihydroxy diamino anthracene. 2,810,074, 12-10-57, Cl. 252—40.7.
- Cottle, Harry N., Jr., to Textron, Inc. One-piece clamping construction. 2,810,869, 10-22-57, Cl. 317—158.
- Cotton, Kenneth C.: *See*—
Ipsen, Peter G., and Cotton. 2,809,010.
- Cotton, Robert B., to All American Engineering Co. System for aerial pick-up from surface vessels. 2,778,611, 1-22-57, Cl. 258—1.2.
- Cotton, Robert B., to All American Engineering Co. Aerial towed targets. 2,805,065, 9-3-57, Cl. 273—105.3.
- Cotton, Robert B., and D. B. Doolittle, to All American Engineering Co. Expeditionary aircraft arresting system. 2,777,653, 1-15-57, Cl. 244—110.
- Cotton, Robert B., and D. B. Doolittle, to All American Engineering Co. Aircraft arresting system. 2,789,780, 4-23-57, Cl. 244—110.
- Cotton, William J. Temperature-time integration system. 2,814,201, 11-26-57, Cl. 73—339.
- Cotton, William S., P. C. Kupa, and G. W. Taylor, to Polymer Corp., Ltd. Removal and recovery of impurities from diolefin streams. 2,788,378, 4-9-57, Cl. 260—681.5.
- Cottrell, C. B., & Sons Co.: *See*—
Luehrs, Hans J. 2,811,105.
- Cottrell Co.: *See*—
Luehrs, Hans J. 2,792,221.
Luehrs, Hans J., and Clarke. 2,775,934.
- Cottrell, Herbert T. Steering gear for knee action suspensions in motor vehicles. 2,806,712, 9-17-57, Cl. 280—93.
- Cottrell, Irene.: *See*—
Patrick, Benjamin E. 2,806,599.
- Cottrell, Robert B., to American Steel Foundries. Snubbed bolster truck. 2,781,003, 2-12-57, Cl. 105—197.
- Cottrell, Robert B., to American Steel Foundries. Brake rotor. 2,800,982, 7-30-57, Cl. 188—218.
- Cottrell, Robert B., to American Steel Foundries. Package spring group. 2,813,711, 11-19-57, Cl. 267—9.
- Cotty, William F. Electrical detecting apparatus. 2,806,145, 9-10-57, Cl. 250—83.3.
- Coty, Inc.: *See*—
Croce, Santy M. 2,779,628.
Croce, Santy M. 2,798,599.
Martin, Jean R. L. 2,776,924.
- Coubourn, William C., and H. J. Sandberg, to Norden-Ketay Corp. Fluid pressure meter. 2,788,664, 4-16-57, Cl. 73—398.
- Couch, Dwight E., to the United States of America as represented by the Secretary of the Navy. Deposition of cadmium by chemical reduction. 2,790,733, 4-30-57, Cl. 117—130.
- Couch, George R., and W. E. Mooz, to National Lead Co. Method for treating titanium metal. 2,779,727, 1-29-57, Cl. 204—146.
- Couch, Glenn F., to The Symington-Gould Corp. Slack adjuster. 2,777,547, 1-15-57, Cl. 188—198.
- Couch, Glenn F., to The Symington-Gould Corp. Railway car truck. 2,787,226, 4-2-57, Cl. 105—178.
- Couch, Glenn F., to Symington-Gould Corp. Axle stop for journal boxes. 2,793,918, 5-28-57, Cl. 308—40.
- Couch, Glenn F., to The Symington-Gould Corp. Quick wheel change truck. 2,805,630, 9-10-57, Cl. 105—197.
- Couch, Glenn F., to The Symington-Gould Corp. Coupler support. 2,806,612, 9-17-57, Cl. 213—61.
- Couch, William M., Jr., to Machlett Laboratories, Inc. Getter structure. 2,804,564, 8-27-57, Cl. 313—180.
- Couch, William M., Jr., to Machlett Laboratories, Inc. Filament support structure. 2,804,567, 8-27-57, Cl. 313—276.
- Couchman, Stephen E. Contrivance for use in pressing pleats in skirts and the like. 2,810,970, 10-29-57, Cl. 38—12.
- Couchot, Maurice J.: *See*—
Hubbard, Harry V., Couchot, and Hawley. 2,813,197.
- Couëlle, Jacques. Molding of building elements of elongated shape. 2,809,415, 10-15-57, Cl. 25—155.
- Coughlin, Francis G. Worm-latch means for a slidable side-jaw wrench. 2,804,793, 9-3-57, Cl. 81—165.
- Coughlin, Harry A., to John S. Swift Co., Inc. Machine for finishing photolithographic plates. 2,803,078, 8-20-57, Cl. 41—9.
- Coughlin, Luke T. Fish hook assembly. 2,808,673, 10-8-57, Cl. 43—15.
- Coughtrie, Thomas R., to M. Mole & Son Ltd. Toggle release means for a pivoted jaw wrench. 2,799,195, 7-16-57, Cl. 81—370.
- Couillard, Luther W.: *See*—
Brandt, William C., Couillard, Jacobson, Martin, and Perkins. 2,808,564.
- Coulbourn, William C., and H. J. Sandberg, to Norden Ketay Corp. Manostat. 2,816,570, 12-17-57, Cl. 137—487.5.
- Coulliette, James H., to Industrial Research Institute of the University of Chattanooga. Textile machine device. 2,812,553, 11-12-57, Cl. 19—130.

- Coulson, Robert B., to English Electric Valve Co. Ltd. Electric discharge devices. 2,784,340, 3-5-57, Cl. 315-3.5.
- Coulson, Walter. Automatic check valve for drain pipe. 2,787,376, 4-2-57, Cl. 210-119.
- Coulter, Albert L.: *See—*
Klaas, John W. 2,807,173.
- Coulter, Harley D. Rotary lawn edger. 2,798,355, 7-9-57, Cl. 56-256.
- Coulter, Marvin K., to American Zinc, Lead & Smelting Co. Method of surface treating zinc oxide. 2,785,990, 3-19-57, Cl. 106-296.
- Coulter, Meade S. Reject mechanism for coil handling apparatus. 2,801,812, 8-6-57, Cl. 242-79.
- Coulter, Wallace H. Apparatus for treatment of fluids requiring sterilization or pasteurization. 2,799,216, 7-16-57, Cl. 99-253.
- Council for Scientific and Industrial Research: *See—*
Bradfield, Geoffrey. 2,803,129.
Damodaran, Manayath, and Babbar. 2,801,954.
- Counos, George, to Monsanto Chemical Co. Plasticized nuclear alkylphenol-formaldehyde resins and paper laminates prepared therefrom. 2,817,386, 12-24-57, Cl. 154-2.6.
- Counter and Control Corp.: *See—*
Geder, Harold J. 2,818,473.
- Counts, James C., R. T. Nelson, and W. R. Trutna, to E. I. du Pont de Nemours and Co. Preparation of tetraethylthiuramdisulfide. 2,777,878, 1-15-57, Cl. 260-567.
- Coup, Clarence A. Dressing device for grinding wheels. 2,804,868, 9-3-57, Cl. 125-11.
- Coupette, Werner, A. Sickbert, and R. Westib, to Leybold-Hochvakuum-Analagen, G. m. b. H. Metal container adapted to receive high-melting point liquid metals. 2,784,961, 3-12-57, Cl. 266-42.
- Couplet, Jean. Screener for beets and similar goods. 2,787,375, 4-2-57, Cl. 209-350.
- Coursey, Rudell, to G. Miller. Paddle-ball game. 2,792,225, 5-14-57, Cl. 273-97.
- Court, Benjamin F. Motor exhaust gas clarifier. 2,792,909, 5-21-57, Cl. 183-63.
- Court, Leslie W., to International Harvester Co. Portable gas heat treating machine. 2,795,411, 6-11-57, Cl. 266-5.
- Courtaulds Ltd.: *See—*
Edwards, John H. 2,813,038.
Edwards, John H., and Tallis. 2,777,775.
Entwistle, Donald, and Robertson. 2,783,158.
Evans, Bernard H. H. 2,777,161.
Lowther, Alan G., and Reeder. 2,796,414.
Rakowski, Lech, Williams, and Wilson. 2,782,089.
Smith, John O., and Weigham. 2,805,924.
Tallis, Ernest E., and Edwards. 2,784,107.
Wale, John, and Edgington. 2,783,954.
Weigham, William R. 2,787,615.
- Courteuisse, Jacques P., to Les Piles Wonder, Electric battery of the flat cell type. 2,797,253, 6-25-57, Cl. 136-111.
- Courtier, Armand J., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method of cleaning deposits from hard surfaces. 2,816,077, 12-10-57, Cl. 252-155.
- Courtland Laboratories: *See—*
Barr, Courtland H. 2,784,543.
- Courtley, Alan: *See—*
Richardson, George W. 2,791,076.
Richardson, George W. 2,791,083.
- Courtney, Arthur W., Jr., to Westinghouse Electric Corp. Overload protection circuits for motors of refrigerant compressors. 2,811,019, 10-29-57, Cl. 62-4.
- Courtney, Gilbert Y. Regenerating coffee cooker. 2,814,245, 11-26-57, Cl. 99-300.
- Courtney, John F. Plural horizontal axes roundabout. 2,800,328, 7-23-57, Cl. 272-38.
- Courtney, John W., to Electro Refractories & Abrasives Corp. Crucible for melting metal. 2,793,021, 5-21-57, Cl. 263-48.
- Courtrot, Louis B., to The Weatherhead Co. Hose coupling with contractable metallic wire sleeve. 2,813,730, 11-19-57, Cl. 285-242.
- Courtrot, Louis B., to The Weatherhead Co. Pressure sensitive switch. 2,813,945, 11-19-57, Cl. 200-83.
- Courtrot, René C., to Societe: Maglum. Latch for vehicle doors. 2,804,331, 8-27-57, Cl. 292-221.
- Couse, Kibbey W. Motor vehicle cooling system with auxiliary radiator. 2,789,647, 4-23-57, Cl. 180-53.
- Couse, Kibbey W. Plastic board and method of making it. 2,791,264, 5-7-57, Cl. 154-41.
- Couse, Kibbey W. Power take-off apparatus with means for locking it in driving positions. 2,791,309, 5-7-57, Cl. 192-114.
- Couse, Kibbey W. Super-expandable vehicular body. 2,793,067, 5-21-57, Cl. 296-23.
- Couse, Kibbey W. Hinge construction for plastic molded parts. 2,804,137, 8-27-57, Cl. 160-231.
- Couser, James G. Automatic handling devices. 2,807,373, 9-24-57, Cl. 212-42.
- Cousino, Bernard A. Sound tape splicing kit. 2,796,983, 6-25-57, Cl. 206-47.
- Cousino, Bernard A. Magnetic sound tape. 2,804,401, 8-27-57, Cl. 117-138.8.
- Cousino, Walter F., to Ex Corp. Method for producing finished articles directly from material blanks. 2,787,828, 4-9-57, Cl. 29-553.
- Cousins, Edwin R.: *See—*
Feige, Reuben O., and Cousins. 2,802,844.
- Cousy, Edwin V.: *See—*
Williams, Everard M., and Cousy. 2,801,815.
- Coutant, André C., and J. Mathot. Coaxial head arrangement for recording latent images on a magnetic film and visibly reproducing the same. 2,813,924, 11-19-57, Cl. 173-8.6.
- Coutant, Edward R., to General Electric Co. Mercury switch. 2,784,279, 3-5-57, Cl. 200-152.
- Coutor, Charles, to Lambotte & Co. Dehydration of volatile fatty acids through solvents. 2,801,265, 7-30-57, Cl. 260-541.
- Couture, Albert P. Gutter screen fastener. 2,805,632, 9-10-57, Cl. 108-30.
- Couvillon, Louis J., to Monsanto Chemical Co. Stabilization of unsaturated nitriles. 2,784,219, 3-5-57, Cl. 260-465.9.
- Couzens, Sydney N.: *See—*
Hibbitt, Alec E. W., Couzens, Watler, and Batchelor. 2,810,086.
Sieber, Peter W., and Couzens. 2,807,767.
- Covel, Ralph. Paper dispenser. 2,802,567, 8-13-57, Cl. 206-57.
- Covely, Frank D., and R. E. Baker, to Radio Corp. of America. Electrical signal storage. 2,781,473, 2-12-57, Cl. 315-13.
- Covely, Frank D., and R. E. Baker, to Radio Corp. of America. Electrical signal storage. 2,802,967, 8-13-57, Cl. 315-22.
- Covely, Frank D., 3rd: *See—*
Pensak, Louis, Stocker, and Covely. 2,794,122.
- Covely, Frank D., 3rd, to Radio Corp. of America. Light dividing apparatus. 2,817,265, 12-24-57, Cl. 88-14.
- Coven, Murray. Platform rocker. 2,802,515, 8-13-57, Cl. 155-71.
- Cover, Martin L. System and apparatus for treating sinter sludge. 2,788,899, 4-16-57, Cl. 210-124.
- Cover, Martin L. Settler for liquid-suspended particles. 2,796,175, 6-18-57, Cl. 210-73.
- Cover, Ralph. Cut corn de-silking apparatus. 2,784,842, 3-12-57, Cl. 209-254.
- Covert, Calvin C.: *See—*
Berninger, Kenneth L., and Covert. 2,781,053.
- Covert, John R. G., to Canadian General Electric Co., Ltd. Surface heating unit. 2,802,927, 8-13-57, Cl. 219-37.
- Covert, Robert J., to Bowes Seal Fast Corp. Universal vulcanizer. 2,795,007, 6-11-57, Cl. 18-18.
- Coviello, Anthony R. Agricultural implement. 2,791,952, 5-14-57, Cl. 97-13.
- Covill, Dennis H., to A. C. Cossor Ltd. Magnetic focussing field arrangements for cathode ray tubes. 2,817,034, 12-17-57, Cl. 313-84.
- Covington, Carl A. Ball detent coupling. 2,797,110, 6-25-57, Cl. 285-86.
- Covington, Luther J. Tobacco stringing machine. 2,776,760, 1-8-57, Cl. 214-5.5.
- Covington, Robert A., Jr., and V. H. Waldin, to E. I. du Pont de Nemours and Co. Tubular film advancer. 2,781,894, 2-19-57, Cl. 203-270.
- Covitt, Jack G., and G. F. Putnam, to International Harvester Co. Rotating table device and turning means therefor. 2,780,372, 2-5-57, Cl. 214-89.
- Covitt, Jack G., and G. F. Putnam, to International Harvester Co. Centrifugal mold for making torque converter castings. 2,814,084, 11-26-57, Cl. 22-113.5.
- Cowan, Clifton J.: *See—*
Anderson, Alvan M., and Cowan. 2,787,117.
- Cowan, Eugene W., to the United States of America as represented by the Secretary of the Navy. Pulse width selecting filter. 2,784,310, 3-5-57, Cl. 250-27.
- Cowan, Frank A., to American Telephone and Telegraph Co. Reduction of quadrature distortion. 2,777,900, 1-15-57, Cl. 179-15.5.
- Cowan, Jack: *See—*
Brunner, James W., and Cowan. 2,817,289.
- Cowan Pressroom Products, Inc.: *See—*
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- Cowburn, Clarence D., and F. W. Proudlove, to The English Electric Co. Ltd. Automatic gun link chutes. 2,817,999, 12-31-57, Cl. 89-33.
- Cowden, Lewis M.: *See—*
Olson, Malven L., Ireland, and Cowden. 2,804,380.
- Cowdery, Charles E.: *See—*
Wagner, William F., and Cowdery. 2,788,997.
- Cowdrey, Cecil L., and J. Kinsella, to D. Napier & Son Ltd. Electrically heated de-icing or anti-freezing apparatus. 2,791,668, 5-7-57, Cl. 219-19.
- Cowland, William G., to D. Napier & Son Ltd. Power units, including reciprocating internal combustion engines and turbo compressors utilizing exhaust gases from such engines. 2,780,053, 2-5-57, Cl. 60-13.
- Cowle, Walter, D. E. Mansfield, P. Spiro, and G. C. Wood, to S. A. Vickers Ltd. Electrodeposition of nickel and nickel alloys. 2,802,779, 8-13-57, Cl. 204-43.
- Cowles Chemical Co.: *See—*
MacMullen, Clinton W., and Marzocchi. 2,813,085.
Smith, Fred E. A. 2,797,984.
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- Cowles, Edwin, to John W. Bolton & Sons, Inc. Apparatus for removing trash from beaters, pulpers and the like. 2,776,765, 1-8-57, Cl. 214-95.

- Cowles, James R. Method and apparatus for indicating cathodic protection. 2,803,797, 8-20-57, Cl. 324—29.
- Cowles, Raymond H., to The General Tire and Rubber Co. Chair back support. 2,796,920, 6-25-57, Cl. 155—156.
- Cowles, Roderick J., and M. Dubitzky, to Lebanon Steel Foundry. Method and apparatus for making lightweight molds. 2,803,859, 8-27-57, Cl. 22—9.
- Cowley, Clayton R., to Sylvania Electric Products, Inc. Process for making stems. 2,817,927, 12-31-57, Cl. 49—78.
- Cowley, William E., to American Saw & Tool Co. Corner clamp with guide means for use with power tools. 2,776,633, 1-8-57, Cl. 144—293.
- Cowsert, William W. Drive mechanism for feed mixers. 2,786,655, 3-26-57, Cl. 259—41.
- Cox, Arthur: *See*—
- Tripp, Robert W., and Cox. 2,813,458.
- Cox, Bonnar: *See*—
- Goldberg, Jacob, and Cox. 2,798,216.
- Goldberg, Jacob, and Cox. 2,799,222.
- Cox, Charles L., Jr., to Hetherington, Inc. Hill-and-valley switch. 2,777,911, 1-15-57, Cl. 200—77.
- Cox, Claude E., to George L. Nankervis Co. Flowmeter. 2,812,661, 11-12-57, Cl. 73—231.
- Cox, Daniel W.: *See*—
- Cox, James H. and D. W. 2,776,093.
- Cox, David C., to Electric Sorting Machine Co. Sequential delivery of articles. 2,787,358, 4-2-57, Cl. 198—30.
- Cox, David C., to Mandrel Industries, Inc. Rugged normalizer for sorting circuit. 2,803,754, 8-20-57, Cl. 250—214.
- Cox, David C., to Mandrel Industries, Inc. Viewing chamber for gravity sorter. 2,803,756, 8-20-57, Cl. 250—239.
- Cox, Elza A., to Cox Engineering and Development Corp. System of sewage treatment and process. 2,798,042, 7-2-57, Cl. 210—15.
- Cox Engineering and Development Corp.: *See*—
- Cox, Elza A. 2,798,042.
- Cox, Eugene H. Television or similar tower. 2,806,560, 9-17-57, Cl. 189—13.
- Cox, Frank G., Jr. Package dispenser. 2,793,745, 5-28-57, Cl. 206—56.
- Cox, Freddie D. Extension device for ladders. 2,783,928, 3-5-57, Cl. 228—63.
- Cox, Herald R.: *See*—
- Markham, Floyd S., and Cox. 2,798,835.
- Cox, Herbert F., Jr. Screen stand and case. 2,780,282, 2-5-57, Cl. 160—24.
- Cox, Irvin W., to Cutler-Hammer, Inc. Electric circuit-breakers and parts therefor. 2,789,180, 4-16-57, Cl. 200—116.
- Cox, Irvin W., to Cutler-Hammer, Inc. Electric switch devices. 2,798,130, 7-2-57, Cl. 200—83.
- Cox, Irvin W., to Cutler-Hammer, Inc. Circuit breakers. 2,813,946, 11-19-57, Cl. 200—88.
- Cox, Isaac E., to American Brake Shoe Co. Journal bearing lubricator. 2,777,738, 1-15-57, Cl. 308—85.
- Cox, Ivan E. Weight distributing shoe shank. 2,811,791, 11-5-57, Cl. 36—76.
- Cox, James H. and D. W. Hose retriever. 2,776,093, 1-1-57, Cl. 242—47.5.
- Cox, James L., to Duro-Test Corp. Fluorescent lamp. 2,814,748, 11-26-57, Cl. 313—109.
- Cox, Joe L.: *See*—
- Phillips, Alger W. 2,776,070.
- Cox, John R. Pusher device. 2,817,534, 12-24-57, Cl. 279—50.
- Cox, Norman, and G. R. Hoover, to Armco Steel Corp. Process of retarding corrosion of coated metal articles and coated metal article. 2,784,122, 3-5-57, Cl. 148—6.2.
- Cox, Norman B.: *See*—
- Powell, Burnet J., and Cox. 2,814,958.
- Cox, Patrick C., to The Osborn Mfg. Co. Ltd. Paint removing tools. 2,797,294, 6-25-57, Cl. 219—29.
- Cox, Raymond S., to Conmar Products Corp. Laundry bag. 2,804,898, 9-3-57, Cl. 150—3.
- Cox, Robert E.: *See*—
- Silver, Walter H., and Cox. 2,818,007.
- Cox, Robert G., to Aeroquip Corp. Self aligning hose fitting for hoses having an eccentric bore. 2,790,654, 4-30-57, Cl. 285—251.
- Cox, Robert P., L. L. Yaeger, and R. W. Buetow, to Pittsburgh Plate Glass Co. Surface treatment of halogenated fluoroethylenes and laminates thereof. 2,788,306, 4-9-57, Cl. 154—139.
- Cox, Robert P., and R. M. Brice, to Archer-Daniels-Midland Co. Method of making refined fatty acids from soap stocks. 2,812,343, 11-5-57, Cl. 260—413.
- Cox, Victor J., and R. J. D. Reeves, to E. K. Cole Ltd. Automatic frequency control systems. 2,797,325, 6-25-57, Cl. 250—36.
- Cox, William K.: *See*—
- Slee, Alfred G., and Cox. 2,781,114.
- Coyle, William J., to United-Carr Fastener Corp. Rectifier. 2,817,797, 12-24-57, Cl. 317—234.
- Coyne, John F.: *See*—
- Marriott, Ronald J., and Coyne. 2,790,047.
- Coyne, William R., C. W. Brabender, and E. C. Swanson, to Pillsbury Mills, Inc. Timing control mechanism for food mixers and the like. 2,782,012, 2-19-57, Cl. 259—24.
- Cozart, David R. Carburetor adjusting tool. 2,794,354, 6-4-57, Cl. 81—3.
- Cozzo, Giuseppe, to Baldwin-Lima-Hamilton Corp. Metal forming. 2,792,730, 5-21-57, Cl. 80—56.
- Cozzoli, Joseph M. Ampul washing device. 2,803,257, 8-20-57, Cl. 134—143.
- Crabbe, John D., and F. W. Warren, to Dunlop Rubber Co. Ltd. Apparatus for forming thermoplastic conveyor belt. 2,788,838, 4-16-57, Cl. 154—3.
- Crabbs, Herbert J.: *See*—
- Owens, James B., and Crabbs. 2,809,244.
- Crabtree, George W. Piston valve for hydraulic dampers. 2,782,876, 2-26-57, Cl. 188—88.
- Crabtree, George W. Spring controlling unit. 2,782,877, 2-26-57, Cl. 188—88.
- Crabtree, J. A., and Co. Ltd.: *See*—
- Wintle, Thomas D. G. 2,809,247.
- Crabtree, John I.: *See*—
- Baxendale, Ralph W., Rasch, and Crabtree. 2,816,026.
- Crabtree, Leonard F., to Automatic Electric Laboratories, Inc. Telephone dictating and transcribing system. 2,783,304, 2-26-57, Cl. 179—6.
- Crabtree, Leonard F., to General Telephone Laboratories, Inc. Preset counter for weaving machine. 2,802,627, 8-13-57, Cl. 235—132.
- Crabtree, Leonard F., to General Telephone Laboratories, Inc. Electrical control system. 2,803,192, 8-20-57, Cl. 103—11.
- Crabtree, Toby C., Jr., $\frac{1}{2}$ to W. L. Murphy. Ground meat knitting device. 2,811,743, 11-5-57, Cl. 17—26.
- Cracchiolo, Ray M., to Burns Automatic Corp. Bar stock pusher. 2,810,585, 10-22-57, Cl. 279—43.
- Craddock, Charles L., to M. Rubin and L. Scherer. Direct current pulser device. 2,798,171, 7-2-57, Cl. 307—132.
- Craddock, Charles L. Flashing light for signalling. 2,804,611, 8-27-57, Cl. 340—366.
- Craemer, Karl. Textile printing compositions. 2,813,083, 11-12-57, Cl. 260—8.
- Craft, Charles L., R. R., and S. M. Hosiery display device. 2,800,222, 7-23-57, Cl. 206—45.33.
- Craft, Lewis J., Jr.: *See*—
- Jepson, Ivar, and Craft. 2,778,961.
- Craft, Randal R.: *See*—
- Craft, Charles L., R. R., and S. M. 2,800,222.
- Craft, Sidney M.: *See*—
- Craft, Charles L., R. R., and S. M. 2,800,222.
- Crafts, Curtis S., to Miehle-Goss-Dexter, Inc. Combination folder for printing press. 2,797,085, 6-25-57, Cl. 270—65.
- Crafts, Walter, to Union Carbide Corp. Exothermic manganese addition agent. 2,806,778, 9-17-57, Cl. 75—27.
- Craham, Jack B., to Northome Furniture Industries, Inc. Spring structures. 2,788,844, 4-16-57, Cl. 155—179.
- Craig, Albert F.: *See*—
- Stovall, John R., Jr., Lawrie, and Craig. 2,779,217.
- Craig, Burnie J. Combined vehicle lock and door control. 2,796,755, 6-25-57, Cl. 70—264.
- Craig, Burnie J. Apparatus for making a threadlike member. 2,806,248, 9-17-57, Cl. 18—4.
- Craig, Burnie J. Apparatus for making a composition containing covered particles. 2,806,249, 9-17-57, Cl. 18—5.
- Craig, Burnie J. Method of making a composition of independently covered particles. 2,806,254, 9-17-57, Cl. 18—47.5.
- Craig, Burnie J. Vehicle door lock. 2,813,418, 11-19-57, Cl. 70—135.
- Craig, Burnie M. Desk set. 2,814,276, 11-26-57, Cl. 120—108.
- Craig, Francis A., to The Wittmann Co., Inc. Apparatus for straining liquids. 2,776,755, 1-8-57, Cl. 210—150.8.
- Craig, Leonard J., to Hughes Aircraft Co. D. C. multiplier employing magnetic amplifier. 2,784,324, 3-5-57, Cl. 307—72.
- Craig, Loren J.: *See*—
- Harvey, Douglass C., and Craig. 2,780,152.
- Craig, Louis E., to General Aniline & Film Corp. Compositions for a method of whitening fine fabrics. 2,785,133, 3-12-57, Cl. 252—152.
- Craig, Louise. Method of ironing tubular articles. 2,810,219, 10-22-57, Cl. 144—38.
- Craig Machine, Inc.: *See*—
- Cole, Frank E., Jr. 2,780,510.
- Craig, Milton E.: *See*—
- Engstrom, Ralph W., Craig, and Thuler. 2,818,520.
- Craig, Nina C. Foldable gardening cart. 2,798,732, 7-9-57, Cl. 280—41.
- Craig, Ollison: *See*—
- Miller, Earle C., and Craig. 2,800,888.
- Craig Systems, Inc.: *See*—
- Chase, Ernest E., and Tibbetts. 2,800,958.
- Craig, W E.: *See*—
- Cook, Richard S., and Craig. 2,806,854.
- Wilson, Harold F., Shropshire, and Craig. 2,812,280.
- Craig, W E., E. Y. Shropshire, and H. F. Wilson, to Rohm & Haas Co. Esters of α -dichloromethyl benzhydrols and process. 2,776,988, 1-8-57, Cl. 260—487.
- Craig, W E., E. Y. Shropshire, and H. F. Wilson, to Rohm & Haas Co. Process of preparing α -dichloromethyl benzhydrol esters. 2,776,989, 1-8-57, Cl. 260—487.
- Craig, W E., E. F. Riener, and H. F. Wilson, to Rohm & Haas Co. Chlorination of bis(chlorophenyl) methane. 2,783,284, 2-26-57, Cl. 260—649.
- Craig, W E., E. Y. Shropshire, and H. F. Wilson, to Rohm & Haas Co. α -Chloromethylbenzhydrol ethers. 2,794,054, 5-28-57, Cl. 206—611.

- Craig, Willis G.: *See*—
Higging, William A., Norman, and Craig. 2,779,787.
- Craig, Willis G., to The Lubrizol Corp. Organic phosphino-dithioic compounds and methods for preparing same. 2,809,979, 10-15-57, Cl. 260—429.9.
- Craig, Willis G., to Lubrizol Corp. Process for preparing an asphalt-bonded glass fiber mat. 2,811,769, 11-5-57, Cl. 28—72.3.
- Crain, Chester J. Oil distributing device. 2,776,863, 1-8-57, Cl. 308—86.
- Crain, James A. Adjustable work supports for milling machines. 2,814,974, 12-3-57, Cl. 90—59.
- Cramp, George B. Wet gas washing apparatus. 2,785,879, 3-19-57, Cl. 261—8.
- Cramer, Charles: *See*—
Buck, Alfred, and Cramer. 2,808,125.
- Cramer, Charlotte A. Lap tray. 2,808,191, 10-1-57, Cl. 229—30.
- Cramer Chemical Co., The: *See*—
Thomen, Bina K. 2,806,633.
- Cramer, Clifford H.: *See*—
Wells, Philip H., and Cramer. 2,794,853.
- Cramer, George L., A. Raffensberger, and E. R. Strine, to Side-O-Matic Unloader Corp. Self-loading vehicle hoist. Re. 24,334, 6-25-57, Cl. 214—75.
- Cramer, James W. Micrometer with rotary base and plural anvils. 2,816,363, 12-17-57, Cl. 33—164.
- Cramer, John J., and K. Narscius, to Wyandotte Chemicals Corp. Method of sizing textiles and sizing composition therefor. 2,811,462, 10-29-57, Cl. 106—193.
- Cramer, Leonard F., and R. A. Maher, to Avco Mfg. Corp. Color cathode-ray tube and assembly process. 2,813,213, 11-12-57, Cl. 313—78.
- Cramer, Marco J., to Parker Rust Proof Co. Vitreous enameling. 2,809,907, 10-15-57, Cl. 148—6.15.
- Cramer Posture Chair Co., Inc.: *See*—
Cramer, Roy A. 2,807,042.
- Cramer, Robert, Jr., to Nordberg Mfg. Co. Piston head for internal combustion engines. 2,807,247, 9-24-57, Cl. 123—41.38.
- Cramer, Roy A., to Cramer Posture Chair Co., Inc. Bumper for furniture legs. 2,807,042, 9-24-57, Cl. 16—42.
- Cramer, Sterling, to Sinko Mfg. & Tool Co. Automobile wind deflector with air speed indicator. 2,793,528, 5-28-57, Cl. 73—186.
- Cran, William B. G., A. A. Ireland, H. K. Pritchard, and F. Spreckley. Folding machines for laundry use. 2,811,350, 10-29-57, Cl. 270—68.
- Cran, William B. G., to Thomas Broadbent & Sons Ltd. Folding machines for laundry use. 2,815,946, 12-10-57, Cl. 270—68.
- Crandall, Charles R. Attachment for boat trailers. 2,795,345, 6-11-57, Cl. 214—506.
- Crandall, Eugene L., to General Electric Co. Electrical cable subject to irradiation. 2,795,640, 6-11-57, Cl. 174—120.
- Crandall, Eugene L., to General Electric Co. Insulated electric cable and method of making same. 2,798,899, 7-9-57, Cl. 174—121.
- Crandell, Robert B., B. R. Shepard, and H. C. Maulshagen, to General Electric Co. Capacitive scanning apparatus. 2,818,540, 12-31-57, Cl. 333—24.
- Crane, Carl J.: *See*—
Griner, Gladys M., and Crane. 2,791,907.
- Crane, Carl J. Resilient disc type seed sheller. 2,791,254, 5-7-57, Cl. 146—298.
- Crane Co.: *See*—
Bredtschneider, Kurt E. B. 2,787,439.
- Bredtschneider, Kurt B., and Fennema. 2,778,600.
- Carr, Edward W., Hansen, and Adelman. 2,791,228.
- Fredrickson, Edward A., Ashby, and Johnson. 2,806,740.
- Hauck, George W. 2,802,092.
- Hansen, George E. 2,777,662.
- Hansen, George E. 2,780,434.
- Hjulian, Julius A. 2,780,239.
- Hjulian, Julius A. 2,784,453.
- Hoeh, Earl A. 2,788,570.
- Laird, Hubert C., and Bredtschneider. 2,815,038.
- Paulius, John A., Jr., Brown, and Cotterman. 2,784,934.
- Paulius, John A., Jr., and Roush. 2,776,810.
- Schmidt, Edward G., and Nelson. 2,781,521.
- Swabek, John E., Jr. 2,797,578.
- Witek, Stanley P. 2,781,233.
- Zinkil, Roy H. 2,787,005.
- Zinkil, Roy H. 2,810,915.
- Zinkil, Roy H., and Stone. 2,787,004.
- Whitesell, John C. 2,805,455.
- Crane, Denis P.: *See*—
Ford, Ronald M., and Crane. 2,785,893.
- Ford, Ronald M., and Crane. 2,791,425.
- Crane, Edward J.: *See*—
Barker, Seth S., Crane, and Sharp. 2,813,298.
- Crane, George B.: *See*—
Copelin, Harry B., and Crane. 2,779,781.
- Cutler, Burton, and Crane. 2,791,688.
- Crane, Hewitt D., to Radio Corp. of America. Magnetic logic systems. 2,810,901, 10-22-57, Cl. 340—174.
- Crane, Horace L., and P. Wang, to Sylvania Electric Products Inc. Methods of treating germanium. 2,793,146, 5-21-57, Cl. 148—13.1.
- Crane, Hubert R., to Flexible Mfg. Corp. Pipe cleaning tool. 2,794,197, 6-4-57, Cl. 15—104.06.
- Crane, J. Burleigh: *See*—
Walker, Harry E. 2,799,043.
- Crane, Moses S. Segmented measuring cup. 2,787,162, 4-2-57, Cl. 73—429.
- Crane, Norton B., and N. H. Dunn. Gizzard splitter and washer. 2,812,540, 11-12-57, Cl. 17—11.
- Crane Packing Co.: *See*—
Boettcher, Stephen A., and Gould. 2,779,139.
- Hawxhurst, Stephen. 2,807,215.
- Payne, Franke E., and Haake. 2,815,967.
- Solari, Archie J. 2,785,913.
- Tankus, Harry. 2,798,750.
- Crane, Robert A.: *See*—
Thayer, Louis C., Robinson, Crane, and Lewis. 2,807,755.
- Crane, Robert, Jr., and W. H. Swain, to General Precision Laboratory Inc. Amplifier volume control attenuator. 2,801,300, 7-30-57, Cl. 179—171.
- Crane, Robert L., to Continental Machines, Inc. Automatic feed control apparatus for machine tools. 2,815,561, 12-10-57, Cl. 29—68.
- Crane, Robert L., to Continental Machines, Inc. Surface grinder equipped with motorized crush roller. 2,815,744, 12-10-57, Cl. 125—11.
- Crane, Samuel P., to R. O. Kent Co. Ventilating spring cushion. 2,781,085, 2-12-57, Cl. 155—182.
- Crane, Samuel P., to R. O. Kent Co. Ventilating spring cushion. 2,801,679, 8-6-57, Cl. 155—182.
- Crane, Samuel P., to R. O. Kent Co. Ventilating spring unit. 2,801,680, 8-6-57, Cl. 155—182.
- Crane, Samuel P., to R. O. Kent Co. Ventilating cushion. 2,801,681, 8-6-57, Cl. 155—182.
- Crane, Walton B., to Allied Plastics Co. Paperboard shipping crate and interlocked crate unit. 2,777,627, 1-15-57, Cl. 229—27.
- Cranes (Dereham) Ltd.: *See*—
Chaplin, William D. 2,778,657.
- Cranford, Herbert K.: *See*—
Slotterbeck, Ober C., Wiese, and Hubbard. 2,818,430.
- Crankshaw, Edwin J. Fluid brake. 2,790,519, 4-30-57, Cl. 188—90.
- Crankshaw, John H., to American Flexible Coupling Co. Spacer coupling. 2,796,750, 6-25-57, Cl. 64—8.
- Cranmer, Harry F. Supporting bracket. 2,794,263, 6-4-57, Cl. 33—207.
- Cranston Print Works Co.: *See*—
Smith, Graydon. 2,816,504.
- Cranz, J. M., Co., Inc.: *See*—
Taylor, Franklin P. 2,779,619.
- Crapuchettes, Paul W.: *See*—
Litton, Charles V., and Crapuchettes. 2,806,178.
- Crapuchettes, Paul W., to Litton Industries, Inc. Electron discharge device with toroidal permanent magnet. 2,787,728, 4-2-57, Cl. 315—39.71.
- Crary, Jay D., and V. T. Burleigh, to Paper Strap, Inc. Handled open end can carton. 2,783,690, 3-5-57, Cl. 93—1.
- Craton, R. Elizabeth: *See*—
Wickstrom, Svante T. 2,788,698.
- Craven, Paul M.: *See*—
Pye, David J., West, Craven, and Patterson. 2,809,943.
- Craven, Royston A. F.: *See*—
Gascoine, Arthur C., and Craven. 2,784,274.
- Craven, Wilbur J., to The Capewell Mfg. Co. Saw blade. 2,799,078, 7-16-57, Cl. 29—95.
- Craver, Albert F., to The Patrol Valve Co. Mold for locating thin inserts in elongated castings. 2,806,266, 9-17-57, Cl. 22—116.
- Craver, Albert F., to The Patrol Valve Co. Method of locating thin inserts in elongated castings. 2,806,272, 9-17-57, Cl. 22—204.
- Crawford, Arthur R., to International Research and Development Corp. Balancing blocks. 2,812,457, 11-5-57, Cl. 310—91.
- Crawford, Carl F., J. R. Ford, and E. S. Lewis, to the United States of America as represented by the Secretary of the Navy. Shielding for microwave lens apparatus. 2,795,784, 6-11-57, Cl. 343—84.
- Crawford, Carl F., and J. R. Ford, to Radio Corp. of America. Microwave phase compensation system. 2,810,908, 10-22-57, Cl. 343—786.
- Crawford, Clark A., to Corning Glass Works. Handle assemblies. 2,790,669, 4-30-57, Cl. 294—31.2.
- Crawford, Claud F., to The Scholl Mfg. Co., Inc. Cushioning device with digit loop and method of making the same. 2,797,686, 7-2-57, Cl. 128—80.
- Crawford, Claud F., to The Scholl Mfg. Co., Inc. Surgical cushioning device for the foot. 2,797,687, 7-2-57, Cl. 128—80.
- Crawford, Claud F., to The Scholl Mfg. Co., Inc. Composite corrective appliance for the foot. 2,797,688, 7-2-57, Cl. 128—80.
- Crawford & Co. (Tottenham) Ltd.: *See*—
Linzell, Cecil J. 2,817,535.
- Crawford Door Co.: *See*—
Van De Warker, Merle M., and Butler. 2,805,107.
- Crawford, Duffer B.: *See*—
Abbott, John A., Jr., Crawford, and Kelly. 2,781,268.
- Crawford, Duffer B., to American Machine & Foundry Co. Continuous mixer. 2,787,447, 4-2-57, Cl. 259—8.

- Crawford, Duffer B., and C. W. Hirsch, to American Machine & Foundry Co. Manufacture of mayonnaise. 2,781,270, 2-12-57, Cl. 99-144.
- Crawford, Earl A., to Bird & Son, Inc. Machine and method for processing webs of paper base and similar materials. 2,809,582, 10-15-57, Cl. 101-181.
- Crawford, George S., Jr. Cup and saucer combination. 2,799,147, 7-16-57, Cl. 65-13.
- Crawford, James H.: *See*—
Christian, Raymond A., Colley, Crawford, Ganger, and Mitchell. 2,805,748.
- Crawford, John M., and W. E. N. Doty, to Continental Oil Co. Method of and apparatus for determining the travel time of signals. 2,808,577, 10-1-57, Cl. 340-15.
- Crawford, Joseph V., to Laurel Plastics, Inc. Treatment of woven paper materials. 2,787,045, 4-2-57, Cl. 28-74.
- Crawford, Kenneth Z.: *See*—
Fisher, John V. 2,815,855.
- Crawford, Kenneth Z., and Crawford. 2,782,531.
- Crawford, Kenneth Z., to Plastone Corp. Flashlight. 2,805,325, 9-3-57, Cl. 240-10.65.
- Crawford, Lattie L.: *See*—
Wolcott, Harold D. 2,813,409.
- Crawford Mfg. Co., Inc.: *See*—
Armbrrecht, Howard R. 2,782,840.
- Armbrrecht, Howard R. 2,800,169.
- Crawford, Paul B. Recovery of petroleum oil from partially depleted subterranean reservoirs. 2,804,146, 8-27-57, Cl. 166-11.
- Crawford, Richard B.: *See*—
Ruby, Lawrence, Crawford, and Pon. 2,786,143.
- Crawford, Robert J., and F. Alfieri, to American Can Co. Method of producing semiperforated sifter openings in containers. 2,789,524, 4-23-57, Cl. 113-116.
- Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Tow for use in the production of tobacco smoke filters. 2,794,239, 6-4-57, Cl. 28-81.
- Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Apparatus for the manufacture of filters composed of cellulose acetate. 2,794,480, 6-4-57, Cl. 154-1.7.
- Crawford, Thomas J.: *See*—
Caputo, James V., and Crawford. 2,790,100.
- Crawford, Thomas J. Induction welding. 2,794,893, 6-4-57, Cl. 219-8.5.
- Crawford, Thomas J. Welded tubing. 2,817,364, 12-24-57, Cl. 138-74.
- Crawford, Walter C. Cigarette holder and ash tray. 2,800,132, 7-23-57, Cl. 131-235.
- Crawford, Wayland H., to Modern Village Stores, Inc. Check stand. 2,776,730, 1-8-57, Cl. 186-1.
- Crawford, Wayland H., and F. W. Hartup, to Modern Village Stores, Inc. Improved check stand. 2,784,043, 3-5-57, Cl. 312-140.3.
- Crawley, Glen W., by decree of court of $\frac{1}{2}$ to M. Webster. Automatic shower and sink temperature control. 2,814,445, 11-26-57, Cl. 236-12.
- Crea, Louis N.: *See*—
Gassin, George, and Crea. 2,803,982.
- Creamery Package Mfg. Co., The: *See*—
Christensen, Robert F. 2,778,195.
- Wakeman, Alden H. 2,777,674.
- Wakeman, Alden H. 2,790,627.
- Creative Metals Corp.: *See*—
Nave, Earl E. 2,785,840.
- Creative Plastics Corp.: *See*—
Harris, Todd. 2,813,349.
- Creech, Jesse J. Carburetor. 2,802,651, 8-13-57, Cl. 261-50.
- Creed & Co. Ltd.: *See*—
Salmon, Reginald D., and Turner. 2,818,116.
- Creed, Kenneth E., Jr., and J. J. D'Amico, to Monsanto Chemical Co. Rubber vulcanization process. 2,817,694, 12-24-57, Cl. 260-787.
- Creed, Murrel L. Pump plunger ring and spacer. 2,779,646, 1-29-57, Cl. 309-32.
- Creedon, Ronald D., to United-Carr Fastener Corp. Resilient socket buckle. 2,790,222, 4-30-57, Cl. 24-77.
- Creek, Frederick R. L., to Metropolitan-Vickers Electrical Co. Ltd. Liquid seals for gas-cooled dynamo electric machines. 2,805,090, 9-3-57, Cl. 286-10.
- Creelman, Raymond C. Surgical operating table for small infants. Re. 2,347,7, 10-15-57, Cl. 311-5.
- Creelman, Raymond C. Trolling devices. 2,789,386, 4-23-57, Cl. 43-43.03.
- Creighton, Ethel C.: *See*—
Creighton, Thomas A. 2,786,532.
- Creighton, Thomas A., $\frac{1}{2}$ to V. N. Creighton and $\frac{1}{2}$ to E. C. Creighton. Floating support for well tubings. 2,786,532, 3-26-57, Cl. 166-73.
- Creighton, Vera N.: *See*—
Creighton, Thomas A. 2,786,532.
- Creighton, William W. Handkerchief. 2,803,831, 8-27-57, Cl. 2-279.
- Cremer, Gottfried, Suction-head for use with a vacuum conveyor plant. 2,776,163, 1-1-57, Cl. 294-64.
- Cremer, Gottfried, and H. Behrens. Method of operation of tunnel kilns combined with drying chambers. 2,775,823, 1-1-57, Cl. 34-35.
- Cremer, Michel, to Forges et Ateliers de Constructions Electriques de Jeumont. Remote control apparatus for electric motors and other machines. 2,814,011, 11-19-57, Cl. 318-314.
- Cremer, Michel, and R. Pedoussaut, to "Forges et Ateliers de Constructions Electriques de Jeumont." Railroad impedance bond connection. 2,806,943, 9-17-57, Cl. 246-37.
- Cremonini, Luigi: *See*—
Mulatti, Ivano, and Cremonini. 2,801,649.
- Creo-Dipt Co., Inc.: *See*—
Fink, Carl J., and Heintz. 2,816,367.
- Crescent Paper Box Factory, Inc.: *See*—
Burton, Howard J. 2,816,651.
- Crescent Puritan Laundry, Inc.: *See*—
Strogen, William A. 2,810,217.
- Creson, William K., and M. W. Berghoff, to Ross Gear & Tool Co. Valve. 2,785,699, 3-19-57, Cl. 137-622.
- Cress, Keith E. Bow fishing adapter. 2,817,919, 12-31-57, Cl. 43-22.
- Cressell, Ian G. A., M. F. Madigan, and W. E. Copsey, to Marconi's Wireless Telegraph Co. Ltd. Semi-conductor amplifiers and transmitters. 2,814,852, 12-3-57, Cl. 29-25.3.
- Cressman, George W., to General Electric Co. Flash lamp and ignition means therefor. 2,791,114, 5-7-57, Cl. 67-31.
- Cresson, George M., to International Standard Electric Corp. Pressure connector. 2,780,794, 2-5-57, Cl. 339-276.
- Cresswell, Arthur, to American Cyanamid Co. Bulky fabrics. 2,789,340, 4-23-57, Cl. 28-76.
- Cresswell, Arthur, and P. W. Cummings, Jr., to American Cyanamid Co. Process for spinning aqueous-saline solutions of acrylonitrile polymer. 2,777,751, 1-15-57, Cl. 18-34.
- Crest Research Laboratories, Inc.: *See*—
Rohrbach, Gilson H. 2,801,697.
- Rohrbach, Gilson H. 2,805,915.
- Crest Specialty (Not Inc.): *See*—
Eliot, Sol. 2,809,468.
- Cretors, C., & Co.: *See*—
Cretors, Charles J. 2,803,891.
- Cretors, Charles J., to C. Cretors & Co. Device for storing and dispensing popcorn and the like. 2,803,891, 8-27-57, Cl. 34-214.
- Creusere, Melville C., to the United States of America as represented by the Secretary of the Navy. Magnetic amplifier. 2,810,519, 10-22-57, Cl. 235-61.
- Creutz, Edward C., and W. H. Zinn, to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor control. 2,781,308, 2-12-57, Cl. 204-193.
- Creutz, Edward C., L. A. Ohlinger, E. P. Wigner, and G. J. Young, to the United States of America as represented by the United States Atomic Energy Commission. Means for sustaining a nuclear fission chain reaction. 2,796,398, 6-18-57, Cl. 204-193.
- Creuzburg, Richard, to Kurt Korber & Co. K. G. Producing filter mouthpiece cigarettes, cigarillos and the like. 2,786,472, 3-26-57, Cl. 131-94.
- Creuzburg, Richard, to Kurt Korber & Co. K. G. Device for mixing and loosening of tobacco. 2,796,066, 6-18-57, Cl. 131-108.
- Creveling, Catherine B., and E. V. Pennell. Convertible hassock and bed. 2,786,213, 3-26-57, Cl. 5-31.
- Creveling, Robert, to the United States of America as represented by the United States Atomic Energy Commission. Shock-excited oscillator. 2,817,019, 12-17-57, Cl. 250-36.
- Crever, Frederick E., to General Electric Co. Load division control for prime movers. 2,783,391, 2-26-57, Cl. 290-4.
- Crevison, Robert L. Denture fastener. 2,775,816, 1-1-57, Cl. 32-2.
- Crew, Morris W. Hot gas defroster control for refrigerators. 2,800,773, 7-30-57, Cl. 62-4.
- Crew, Morris W., and W. G. Wheeler. Liquid fuel feeder for a vaporizing type burner. 2,802,628, 8-13-57, Cl. 236-73.
- Crew Mfg., Inc.: *See*—
Crew, Samuel. 2,788,159.
- Crew, Samuel, to Crew Mfg., Inc. Caulk gun. 2,788,159, 4-9-57, Cl. 222-326.
- Crews, Lowell T.: *See*—
Kalinowski, Mathew L., and Crews. 2,812,339.
- Crowson, George G., and J. R. Ryan, to Food Machinery and Chemical Corp. Method of fractionating solutes dissolved in a mutual solvent. 2,798,796, 7-9-57, Cl. 23-310.
- Cribben and Sexton Co.: *See*—
Kamin, George W. 2,779,326.
- Criddle, Linden G., to American Machine & Foundry Co. Anti-hunting system for electrical regulators. 2,796,197, 6-18-57, Cl. 222-55.
- Crile, Eugene E., to Builders Equipment Co. Loading and unloading device for trucks. 2,812,868, 11-12-57, Cl. 214-75.
- Crimi, Vincent J., to Safo-Matic Brake Co., Inc. Motor control and brake pedal device. 2,814,370, 11-26-57, Cl. 192-3.
- Crimmins, William C., to Appliance Mfg. Co. Inc. Electric switches. 2,777,908, 1-15-57, Cl. 200-11.

- Criner, Charles B., to Aluminum Co. of America. Aluminum base alloy. 2,784,126, 3-5-57, Cl. 148—32.5.
- Cripe, Gene H., and R. J. Petersen, to Utility Appliance Corp. Illuminated stove. 2,809,282, 10-8-57, Cl. 240—2.
- Cripps, Harry N.: *See—*
- Coffman, Donald D., and Cripps. 2,811,551.
- Cripps, John: *See—*
- Chilman, John A., Mapp, and Cripps. 2,791,700.
- Chilman, John A., Mapp, and Cripps. 2,791,710.
- Chilman, John A., Mapp, and Cripps. 2,793,302.
- Crisafulli, Angelo J., 49% to H. C. Hodous. Granular material dispenser. 2,805,793, 9-10-57, Cl. 222—81.
- Crisp, Alvin H. Air cleaner. 2,810,451, 10-22-57, Cl. 183—13.
- Crisp, Harold G. Lawn sprinkler with integral coupling means. 2,791,466, 5-7-57, Cl. 299—75.
- Crisp, Lonnie R. Nursing bottle and nipple construction. 2,812,764, 11-12-57, Cl. 128—252.
- Crispen, Clarence C. Hydraulic lift for bath tubs. 2,779,949, 2-5-57, Cl. 4—185.
- Crissinger, Woodrow W., to North Electric Co. Switch member. 2,779,900, 1-29-57, Cl. 317—177.
- Crissinger, Woodrow W., to The North Electric Co. Methods of and means for effecting magnetic armature actuation. 2,793,265, 5-21-57, Cl. 200—87.
- Crissinger, Woodrow W., to North Electric Co. Switch members. 2,809,249, 10-8-57, Cl. 200—87.
- Crist, Philip W., to Sperry Rand Corp. Pulse synchronizer. 2,778,012, 1-15-57, Cl. 343—103.
- Crist, Philip W., to Sperry Rand Corp. Amplitude modulation detector which is phase responsive. 2,778,933, 1-22-57, Cl. 250—20.
- Crist, Philip W., to Sperry Rand Corp. Phase-responsive apparatus. 2,811,716, 10-29-57, Cl. 343—103.
- Crist, Ray H., and I. Kirshenbaum, to the United States of America as represented by the United States Atomic Energy Commission. Method of separating and concentrating isotopes of boron and oxygen. 2,796,330, 6-18-57, Cl. 23—205.
- Critchley, William C.: *See—*
- Carlsen, Leonard O., and Critchley. 2,778,353.
- Carlsen, Leonard O., Critchley, and Pedersen. 2,792,672.
- Crites, Joe, to Combustion Engineering, Inc. Spring means for roller mills and the like. 2,815,903, 12-10-57, Cl. 241—118.
- Crites, Nelson A., to Standard Steel Spring Co. Spring structures. 2,801,100, 7-30-57, Cl. 267—49.
- Crites, Nelson A., to Rockwell Spring and Axle Co. Spring and spring assembly. 2,817,390, 12-24-57, Cl. 155—179.
- Critten, Wayne L. Wood burning hot air furnace. 2,810,380, 10-22-57, Cl. 126—104.
- Crittendon, Lexie R., and P. R. Haskell, to Remington Arms Co., Inc. Firearm ejector. 2,780,881, 2-12-57, Cl. 42—25.
- Croce, Eraldo N. Continuous-flow dropper device. 2,783,923, 3-5-57, Cl. 222—420.
- Croce, Karl, and F. Schallert. Rotary type snow removal device. 2,785,482, 3-19-57, Cl. 37—43.
- Croce, Santy M., to Coty, Inc. Atomizer construction. 2,779,628, 1-29-57, Cl. 299—88.
- Croce, Santy M., to Coty, Inc. Cup holder for lipstick containers. 2,798,599, 7-9-57, Cl. 206—56.
- Crocker, Burton B.: *See—*
- Schilb, Theodore W., and Crocker. 2,792,074.
- Crocker, Warren E., $\frac{1}{2}$ to Ben Gustan. Fireproof pad. 2,801,427, 8-6-57, Cl. 5—354.
- Crockett, Douglas: *See—*
- Oden, Earl F., and Crockett. 2,810,473.
- Crockett, Samuel J. Power transmission. 2,790,338, 4-30-57, Cl. 74—687.
- Crockett, Sydney R. Magnetic clutch camera. 2,791,933, 5-14-57, Cl. 88—16.
- Crockett, Thomas E. Toilet tank float valve. 2,787,793, 4-9-57, Cl. 4—57.
- Crockett, William P., Jr., to The Setwell Co. Tie rack. 2,818,181, 12-31-57, Cl. 211—96.
- Croco, Charles P.: *See—*
- Hixson, Roy N., and Croco. 2,809,334.
- Crofoot, Pernie P. Portable hose guide. 2,816,734, 12-17-57, Cl. 254—190.
- Croft, Luther T. Hurricane brace for windows. 2,794,217, 6-4-57, Cl. 20—40.
- Croft, Paul H., to Croft Trailer Co. Universal trailer hitch bumper clamp. 2,814,506, 11-26-57, Cl. 280—502.
- Croft, Richard D., and F. Veatch, to The Standard Oil Co. Floating matter thickness measuring apparatus. 2,782,640, 2-26-57, Cl. 73—425.4.
- Croft Trailer Co.: *See—*
- Croft, Paul H. 2,814,506.
- Crofton, George F.: *See—*
- Mitchell, James S., and Crofton. 2,804,091.
- Crofts, George B., to National Union Electric Corp. Super-heterodyne receiver with common variable saturating means having tracking provision for tuning inductances. 2,786,940, 3-26-57, Cl. 250—20.
- Crofutt, George B., Jr.: *See—*
- Barlow, Dick S., and Crofutt. 2,808,459.
- Crohn, Frank. Buckle-type adjusting devices for dress forms. 2,817,469, 12-24-57, Cl. 223—68.
- Croil, George M. Tire chain and applicator. 2,782,828, 2-26-57, Cl. 152—214.
- Croix, Louise S., to Air Reduction Co., Inc. Trifluoroethyl alkyl acetals. 2,809,218, 10-8-57, Cl. 260—615.
- Croix, Louise S., and A. J. Buselli, to Air Reduction Co., Inc. Fluorovinyl ethers. 2,799,712, 7-16-57, Cl. 260—612.
- Crollius, Frederick J. Slag producing material and metallurgical method employing same to recover metal valves from steel. 2,802,732, 8-13-57, Cl. 75—44.
- Croll, John L. Impact wrench. 2,795,158, 6-11-57, Cl. 81—52.3.
- Crom, John M., Jr. Apparatus for applying a tensioned wire wrapping to concrete articles. 2,797,878, 7-2-57, Cl. 242—7.
- Crome, Lester C., to The Dayton Malleable Iron Co. Method for producing cast iron. 2,789,898, 4-23-57, Cl. 75—130.
- Cromeans, John S.: *See—*
- Carter, Norman C., and Cromeans. 2,805,269.
- Cromeens, Jeff Y.: *See—*
- Spanhel, Walter, and Cromeens. 2,815,051.
- Cromer, Charles F.: *See—*
- Baker, Benjamin P., Cromer, and Sucha. 2,809,259.
- Cromer, Logan J.: *See—*
- Barth, Luther B. 2,800,153.
- Crompton, George, Jr., to Norton Co. Centric and centerless grinders with magnetic workrests. 2,790,274, 4-30-57, Cl. 51—103.
- Crompton & Knowles Loom Works: *See—*
- Bergstrom, Carl P. 2,817,369.
- Bergstrom, Carl P., and Howe. 2,799,297.
- Bordewick, Robert W., and Sepavich. 2,781,794.
- Holmes, Elbridge R. 2,809,670.
- Hutchins, Allan S. 2,781,790.
- Kimmel, William E. 2,781,793.
- Kimmel, William E., and Darwin. 2,781,792.
- Kronoff, Clarence R., and Peterson. 2,808,074.
- Peterson, George N. 2,777,471.
- Robb, Walter Y. 2,785,703.
- Robb, Walter Y. 2,798,511.
- Robb, Walter Y., and Blanchard. 2,809,600.
- Turner, Richard G. 2,781,795.
- Waterhouse, Lewis O., Cederlund, and Hall. 2,788,025.
- Crompton, Leroy. Winking doll. 2,803,089, 8-20-57, Cl. 46—135.
- Cromwell, Harold J., to General Motors Corp. Windshield wiper motor. 2,808,815, 10-8-57, Cl. 121—164.
- Cromwell, Harold J., and B. H. Short, to General Motors Corp. Electric switch. 2,788,414, 4-9-57, Cl. 200—113.
- Cromwell, Robert H., and W. A. Parsons, to Foote Mineral Co. Diaphragm for manganese electrowinning. 2,810,684, 10-22-57, Cl. 204—105.
- Croname, Inc.: *See—*
- Dahlberg, Leroy E. 2,816,025.
- Sobol, Charles J. 2,778,790.
- Cronin, Charles T., Jr.: *See—*
- Fryer, James J., and Cronin. 2,807,877.
- Cronin, Eugene J., to Menlo Research Corp. Ultrasonic magnetostrictive nozzle. 2,789,008, 4-16-57, Cl. 299—1.
- Cronin, Leo J., to Raytheon Mfg. Co. Molded cathodes. 2,795,033, 6-11-57, Cl. 29—25.18.
- Cronin, William F., to Sperry Rand Corp. Inductive distributor. 2,807,756, 9-24-57, Cl. 317—123.
- Cronite Co., Inc.: *See—*
- Gillis, Edmund A. 2,788,739.
- Cronk, John L., to Worthington Corp. Feed-back mechanism leaf spring clamp. 2,793,540, 5-28-57, Cl. 74—522.
- Cronland, Blythe M. Warp beam. 2,784,920, 3-12-57, Cl. 242—124.
- Cronquist, N. Russell. Storage and shipping receptacle. 2,784,899, 3-12-57, Cl. 229—34.
- Crook, Archie W.: *See—*
- Young, Arthur J., Esterson, Pickering, and Crook. 2,813,994.
- Crooke, Raymond E., to Sperry Rand Corp. Creasing device. 2,806,413, 9-17-57, Cl. 93—58.1.
- Crooker, David E., and E. A. Frary; said Frary to L. L. Felker. Skid resisting tire treads. 2,777,498, 1-15-57, Cl. 152—211.
- Crookes-Barnes Laboratories, Inc.: *See—*
- Locke, Arthur P., and Messer. 2,785,153.
- Locke, Arthur P., and Messer. 2,785,154.
- Crookes Laboratories, Inc.: *See—*
- King, Edward A. H. 2,789,079.
- Crooks, Horatio N., L. C. Hobbs, and B. A. Kaelin, Jr., to Radio Corp. of America. Signal responsive circuit. 2,785,305, 3-12-57, Cl. 250—27.
- Crooks, Sheridan R.: *See—*
- Reed, William A., and Crooks. 2,799,570.
- Crookshank, Fred T., W. E. Jordan, G. S. Bright, and R. F. Nelson, to The Texas Co. Traction motor gear lubricant. 2,789,091, 4-16-57, Cl. 252—42.
- Crookston, Robert R., to Esso Research and Engineering Co. Device for transmitting pressure and pumping fluids. 2,811,925, 11-5-57, Cl. 103—44.
- Crookston, Robert R., and L. Blagg, to Esso Research and Engineering Co. Pump for abrasive fluids. 2,778,315, 1-22-57, Cl. 103—44.
- Crosby, Clyde D. Rear vision mirror support. 2,812,917, 11-12-57, Cl. 248—276.
- Crosby, Edward L., Jr.: *See—*
- Hedeman, Walter R., Jr., and Crosby. 2,777,122.
- Crosby, Edward L., Jr., to Bendix Aviation Corp. Push-pull series amplifier. 2,787,672, 4-2-57, Cl. 179—171.

- Crosby, Edward L., Jr. Pneumatic vehicle tire incorporating a low air pressure alarm. 2,800,098, 7-23-57, Cl. 116-34.
- Crosby, George A., and R. J. Frey, to Signode Steel Strapping Co. Joint forming mechanism. 2,801,558, 8-6-57, Cl. 81-9.1.
- Crosby, Gifford W.: See—
Hutchings, Le Roi E., and Crosby. 2,815,370.
- Crosby, Gifford W., L. E. W. Holm, R. W. Morrison, and W. J. Sandner, to The Pure Oil Co. Contact filtration of lubricating oils. 2,795,535, 6-11-57, Cl. 196-147.
- Crosby, Gifford W., and L. R. E. Hutchings, to The Pure Oil Co. Purification of neutral or basic organic sulfonates. 2,800,503, 7-23-57, Cl. 260-504.
- Crosby, Gilmore E.: See—
Edwards, Thomas W., and Crosby. 2,817,599.
- Crosby, Gilmore E., to Radio Corp. of America. Preparation of selenide phosphors. 2,818,391, 12-31-57, Cl. 252-301.6.
- Crosby, Gilmore E., and J. A. Markoski, to Radio Corp. of America. Tri-color kinescope screen. 2,802,753, 8-13-57, Cl. 117-33.5.
- Crosby, Hartzell L.: See—
Gray, Kenneth R., and Crosby. 2,782,241.
Gray, Kenneth R., and Crosby. 2,801,994.
- Crosby, John D., Jr., to A. Y. Dowell. End dog and multiple saw sawmill. 2,803,272, 8-20-57, Cl. 143-37.
- Crosby Laboratories, Inc.: See—
Kahn, Leonard R. 2,784,311.
- Crosby, Larry: See—
Fisher, John V. 2,815,855.
- Crosby, Laurel R. Stringed musical instrument with movable bridge. 2,802,386, 8-13-57, Cl. 84-1.16.
- Crosby, Murray G. Sideband transmitter. 2,793,349, 5-21-57, Cl. 332-41.
- Croset, Louis P. Couplings for rotary members. 2,812,648, 11-12-57, Cl. 64-26.
- Crosetto, John B., Jr., and G. C. Newell, Jr., to Boeing Airplane Co. Snubber for double-acting hydraulic actuators. 2,778,343, 1-22-57, Cl. 121-38.
- Crosfield, J. F., Ltd.: See—
Crosfield, John F. 2,802,666.
- Crosfield, John F., to J. F. Crosfield Ltd. Register control systems for moving webs. 2,802,666, 8-13-57, Cl. 271-2.6.
- Crosbier, Walter J.: See—
Aldeborgh, Erik, and Crosbier. 2,785,471.
- Crosbier, Walter J., to Standard Gage Co., Inc. Combination dial snap and thickness gage. 2,784,495, 3-12-57, Cl. 33-147.
- Crosley Broadcasting Corp.: See—
Rockwell, Ronald J. 2,817,718.
- Crosley, Powell, Jr., and S. E. Kess. Outdoor cooking grill. 2,797,681, 7-2-57, Cl. 126-25.
- Crosman, Loring P., and F. B. Hannon, to Sperry Rand Corp. Electronic accumulator. 2,780,408, 2-5-57, Cl. 235-61.
- Crosman Seed Corp.: See—
Mapstone, Herbert W. 2,792,126.
- Crosnoe, Ted F.: See—
Crouch, Willie W., and Crosnoe. 2,787,647.
- Cross, August B., to Moccasin Sporting Goods, Inc. Self-propelled fishing lure. 2,813,365, 11-19-57, Cl. 43-26.2.
- Cross, Bert S., and M. L. Gebhard, to Minnesota Mining & Mfg. Co. Printing accessory. 2,804,417, 8-27-57, Cl. 154-54.5.
- Cross, Carroll N. Stiff-sided collapsible pocket and method of making such pockets. 2,791,866, 5-14-57, Cl. 45-64.
- Cross, Chester A., to Machine Tool Control Corp. Work-load indicator. 2,790,340, 4-30-57, Cl. 77-32.7.
- Cross, Dale: See—
Rider, Clifford M. 2,811,755.
- Cross, Forbes: See—
Cross, Walter M., Jr., and F. Cross. 2,805,972.
- Cross, Fred H. Liquid fuel burner. 2,796,924, 6-25-57, Cl. 158-91.
- Cross, James M., to General Aniline & Film Corp. Water-soluble compositions containing water-insoluble organic amines. 2,779,741, 1-29-57, Cl. 252-357.
- Cross, Lawrence P. Sausage linking machine. 2,776,449, 1-8-57, Cl. 17-34.
- Cross, Reginald J., and F. G. Hughes; said Hughes assor. to Essex Aero Ltd. Crates for bottles and like containers. 2,804,985, 9-3-57, Cl. 220-21.
- Cross, Walter M., Jr., and F. Cross, to Kansas City Testing Laboratory. Pipe lines and sheathing material therefor. 2,805,972, 9-10-57, Cl. 154-45.
- Crossan, Clifford G. Landing nets. 2,800,737, 7-30-57, Cl. 43-12.
- Crossan, Jesse R.: See—
Pfeiffer, Fred B. 2,788,626.
- Crossan, Jesse R., to The Firestone Tire & Rubber Co. Pneumatic tire. 2,779,381, 1-29-57, Cl. 152-342.
- Crossley, Alfred, to Electro Products Laboratories, Inc. Fire and intrusion detector system. 2,810,902, 10-22-57, Cl. 340-228.
- Crossley, Arthur, H. M., and H.; said H. Crossley assor. to said A. and H. M. Crossley. Braiding machine. 2,788,700, 4-16-57, Cl. 87-50.
- Crossley, Frank A., and J. J. Rausch, to Armour Research Foundation of Illinois Institute of Technology. Titanium base alloy. 2,798,807, 7-9-57, Cl. 75-175.5.
- Crossley, Frank A., and W. F. Carew, to Armour Research Foundation of Illinois Institute of Technology. Titanium alloy. 2,801,167, 7-30-57, Cl. 75-175.5.
- Crossley, Harold: See—
Crossley, Arthur, H. M., and H. 2,788,700.
- Crossley, Henry M.: See—
Crossley, Arthur, H. M., and H. 2,788,700.
- Crossley, Richard A. Stereo viewer. 2,814,966, 12-3-57, Cl. 88-31.
- Crossley, Robert B. Automatic fishing line puller. 2,781,601, 2-19-57, Cl. 43-15.
- Crossot, Eugene A., 1/4 to A. Berkowitz. Golf instruction device. 2,777,697, 1-15-57, Cl. 273-187.
- Croswell, Althos M., to A. O. Smith Corp. Internal back-up clamp for girth welding. 2,780,194, 2-5-57, Cl. 113-103.
- Croty Corp.: See—
Crotty, Willard E. 2,776,652.
- Crotty, John V. Rotary cutting mechanism including cooperating toothed stationary cutter bar. 2,790,293, 4-30-57, Cl. 56-249.
- Crotty, Willard E., to Crotty Corp. Device for reducing wear between poppet valves and their actuating devices. 2,776,652, 1-8-57, Cl. 123-188.
- Crouch, Fred P., to P. H. Hanes Knitting Co. Knitting machine needle retainer. 2,814,189, 11-26-57, Cl. 66-115.
- Crouch, Willie W., to Phillips Petroleum Co. Mixtures of a resinous sulfur dioxide-unsaturated organic compound and a conjugated diene-unsaturated nitrile rubbery copolymer. 2,797,205, 6-25-57, Cl. 260-45.5.
- Crouch, Willie W., and L. D. Goodhue, to Phillips Petroleum Co. Fungicidal mercury tertiary butyl mercaptide compositions and method of applying the same. 2,779,703, 1-29-57, Cl. 167-22.
- Crouch, Willie W., and T. F. Crosnoe, to Phillips Petroleum Co. Removal of alkali metals from viscous hydrocarbon liquids. 2,787,647, 4-2-57, Cl. 260-666.
- Crouse-Hinds Co.: See—
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Lester, Ray F. 2,777,942.
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Parich, Willard E. 2,784,741.
Petree, Jay R. 2,806,213.
Stier, Howard J. 2,809,329.
- Crouzet, Henri, to Ateliers Roannais de Constructions Textiles. Twist arresters for yarn twistors. 2,788,634, 4-16-57, Cl. 57-106.
- Crovella, Christian C., to Societe a responsabilite Limitee dite Laboratories R. Derveaux. Method for the remote transmission of intelligence and particularly of pictures and apparatus for carrying out that method. 2,816,158, 12-10-57, Cl. 178-5.2.
- Crow, Amos E. Hydraulic pump and gas anchor associated therewith. 2,805,625, 9-10-57, Cl. 103-46.
- Crow, Edgar W., to Northrop Aircraft, Inc. Automatic arc welder. 2,794,112, 5-28-57, Cl. 219-125.
- Crow, Howard M. Conduit coupling having internal fluid expansible seal. 2,788,231, 4-9-57, Cl. 285-107.
- Crow, Robert P.: See—
Doremus, John A., Crow, and Korn. 2,811,590.
Stewart, James R., and Crow. 2,809,236.
- Crow, Robert P., to Motorola, Inc. Transistor amplifier. 2,784,262, 3-5-57, Cl. 179-171.
- Crow, Robert P., and J. A. Doremus, to Motorola, Inc. Transistor circuit. 2,808,469, 10-2-57, Cl. 179-171.
- Crowder, Jess S. Can opener. 2,797,020, 6-25-57, Cl. 220-52.
- Crowder, John A., E. E. Gilbert, and H. R. Nychka, to Allied Chemical & Dye Corp. Manufacture of xanthene. 2,783,246, 2-26-57, Cl. 260-335.
- Crowe, Fred C., and P. F. Strobel. Fishing indicator and switch therefor. 2,816,387, 12-17-57, Cl. 43-17.
- Crowe, Matthew R. Water hammer cushioning device. 2,809,665, 10-15-57, Cl. 138-30.
- Crowe, Stanley G. Calculating devices. 2,793,809, 5-28-57, Cl. 235-88.
- Crowell, A. Harry: See—
Dorsey, Charles A. 2,812,727.
- Crowell, Ernest M., and F. Seabury, II, to United Shoe Machinery Corp. Method of providing shoe with molded tread member. 2,799,034, 7-16-57, Cl. 12-142.
- Crowl, Paul S. Stone cutting machine. 2,778,354, 1-22-57, Cl. 125-23.
- Crowley, Cornelius J., to The Seamless Rubber Co. Inflatable ball having a carcass, including a synthetic thread winding. 2,789,821, 4-23-57, Cl. 273-65.
- Crowley, Edgar I.: See—
Brown, George P., Jr., Crowley, and Franke. 2,791,598.
- Crowley, Edgar I., and N. W. Franke, to Gulf Research & Development Co. Preparation and use of drilling fluid treating agents. 2,813,826, 11-19-57, Cl. 252-8.5.
- Crowley, Edgar I., and N. W. Franke, to Gulf Research & Development Co. Drilling fluids incorporating derivatives of lignitic materials. 2,813,827, 11-19-57, Cl. 252-8.5.
- Crowley, Edgar I., H. J. Elder, and N. W. Franke, to Gulf Research and Development Co. Esters of oxidized hydrocarbon carboxylic acids and processes for preparing the same. 2,815,358, 12-3-57, Cl. 260-452.
- Crowley, George C., to General Electric Co. Heating device control circuit. 2,801,318, 7-30-57, Cl. 219-20.
- Crowley, Henry L., to Aerovox Corp. Magnetically hard materials. 2,778,803, 1-22-57, Cl. 252-62.5.
- Crowley, James E., to Bethlehem Steel Co. Method and means for treating wire. 2,793,144, 5-21-57, Cl. 134-9.

- Crowley, John C., to Bell Telephone Laboratories, Inc. H-plane hinge joint. 2,805,401, 9-3-57, Cl. 333-98.
- Crowley, John L., W. Swift, and E. V. Larsen, to The Cudahy Packing Co. Bacon packing machine. 2,817,198, 12-24-57, Cl. 53-66.
- Crowley, Michael S., H. A. Birkness, and J. F. Wygant, to Standard Oil Co. Roll feeder. 2,792,152, 5-14-57, Cl. 222-197.
- Crowley-Milling, Michael C.: *See*—
Miller, Charles W., and Crowley-Milling. 2,810,855.
- Crowley-Milling, Michael C., to Metropolitan-Vickers Electrical Co. Ltd. Waveguide impedance matching system. 2,786,980, 3-26-57, Cl. 333-9.
- Crown Controls Co., Inc.: *See*—
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- Crown Cork and Seal Co.: *See*—
Day, Carl L., and Fauth. 2,815,148.
McKinley, Walter E. 2,818,167.
- Crown Cork & Seal Co., Inc.: *See*—
Breeback, Rudolph H. 2,801,650.
Cooke, Giles B., and Rainer. 2,796,189.
Day, Carl L., and Albrecht. 2,786,355.
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Day, Carl L., Lynch, and Freeze. 2,786,601.
Day, Carl L., and Voelker. 2,783,787.
Evelyn, Harry C. 2,777,189.
Pahl, Leo F., and Albrecht. 2,784,948.
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Stewart, Robert J., and Albrecht. 2,803,441.
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- Crown Machine & Tool Co.: *See*—
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Smucker, Robert E. 2,805,790.
- Crown, Orman E., and E. L. Conrad. Hydraulic brake safety device. 2,782,600, 2-26-57, Cl. 60-54.5.
- Crown Wire Mfg. Corp.: *See*—
Cafarella, Domenic L. and C. R. 2,791,075.
- Crown Zellerbach Corp.: *See*—
Barton, John S., Follette, and Schmidt. 2,804,205.
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Buhrmaster, Fred R., and Hunt. 2,808,190.
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George, Walter C., and Fallert. 2,794,588.
German, Michael, Jr. 2,788,932.
Herschler, Robert J. 2,786,008.
Kamlet, Jonas. 2,815,375.
King, Glengarry D. 2,804,418.
Leaming, Morrell Q. 2,797,661.
Martin, John B., and Funk. 2,803,557.
Strauss, Herman H. 2,807,389.
Thomas, Seymour, Jr. 2,794,299.
- Crownover, Joseph W., to Electric Machinery Mfg. Co. Relay. 2,800,551, 7-23-57, Cl. 200-87.
- Crownover, Joseph W., to Electric Machinery Mfg. Co. Electrostrictive capacitive relay flasher circuit. 2,802,147, 8-6-57, Cl. 315-209.
- Crownover, Joseph W. Electrostatic generator and ignition system. 2,814,660, 11-26-57, Cl. 123-148.
- Crowther, Albert F., to Imperial Chemical Industries Ltd. New triazine derivatives. 2,803,628, 8-20-57, Cl. 260-249.9.
- Crowther, Gerald O.: *See*—
Tosswill, Christopher H., Crowther, and Light. 2,794,939.
- Crowther, Gerald O., to Hartford National Bank and Trust Co. as trustee. Voltage stabilizer circuit arrangement. 2,776,400, 1-1-57, Cl. 323-22.
- Crowther, Milton, and W. R. Nummy, to Arnold, Hoffman & Co., Inc. Preparation of polyimines from 2-oxazolidone. 2,806,839, 9-17-57, Cl. 260-77.5.
- Croxall, Willard J., and J. Mirza, to Miles Laboratories, Inc. N-acylation of *p*-aminophenols. 2,799,692, 7-16-57, Cl. 260-404.
- Crozier, Michael A.: *See*—
Fiske, Edward R., and Crozier. 2,796,923.
- Crozier, Michael A., to National Fuel Conservation Co., Inc. Combined flue and check draft damper unit. 2,783,756, 3-5-57, Cl. 126-292.
- Crozier, Robert N., A. N. MacDonald, and A. F. Price, to Shawinigan Resins Corp. Low adhesion coatings on adhesive tapes and liners. 2,816,655, 12-17-57, Cl. 206-59.
- Crucible Steel Co. of America: *See*—
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Payson, Peter. 2,805,942.
Payson, Peter, and Bowne. 2,783,144.
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- Cruikshanks, John, to Bertrams Ltd. Automatic guides for travelling bands or belts. 2,777,331, 1-15-57, Cl. 74-241.
- Cruikshank, Stewart S.: *See*—
Rush, Cecil A., Cruikshank, Sass, and Zenk. 2,807,565.
- Cruikshank, Stewart S. Conductivity cells of Thomas Samplers. 2,789,987, 4-23-57, Cl. 23-254.
- Cruise, Laurence L.: *See*—
Wilkie, Robert J., and Cruise. 2,815,562.
- Crum, Ferris B., and J. F. Wilkes, to Dearborn Chemical Co. Sludge conditioning and dispersing agents for boiler water treatment. 2,783,200, 2-26-57, Cl. 210-23.
- Crum, John P., to D. Napier & Son Ltd. Method of producing a silver catalyst. 2,809,940, 10-15-57, Cl. 252-477.
- Crumb, Carlton W., to Dorr-Oliver Inc. Sealed horizontal filter. 2,798,612, 7-9-57, Cl. 210-393.
- Crump, Clifford D. Burial vault. 2,806,278, 9-17-57, Cl. 27-35.
- Crump, Elmo E.: *See*—
Foster, Harry R., and Crump. 2,779,002.
- Crump, Joseph R.: *See*—
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- Crump, Lloyd R. Junction pickup device. 2,807,666, 9-24-57, Cl. 179-1.
- Crump, Lloyd R. Powering electrical devices with energy abstracted from the atmosphere. 2,813,242, 11-12-57, Cl. 321-2.
- Crump, Luis W. Portable cropping machine for tree-fruits. 2,789,409, 4-23-57, Cl. 56-330.
- Crumrine, Herbert E.: *See*—
Hayford, Richard E., and Crumrine. 2,811,135.
- Crumrine, Herbert E., W. G. Lewis, and C. R. Mayo. Paper handling mechanism for xerographic copying machine. 2,781,705, 2-19-57, Cl. 95-1.7.
- Crumrine, Herbert E., and C. R. Mayo, to The Haloid Co. Segmented development electrode. 2,784,694, 3-12-57, Cl. 118-51.
- Crutcher-Rolfs-Cummings, Inc.: *See*—
Cummings, James D. 2,791,198.
Cummings, James D. 2,792,807.
- Cruz, Ruben A. Folding flashlight holder. 2,778,931, 1-22-57, Cl. 240-52.5.
- Cruzan, Charles C., to Wire-O Corp. Automatic lift separating and feeding mechanism. 2,788,156, 4-9-57, Cl. 221-251.
- Cruzan, Orval R., to the United States of America as represented by the Secretary of the Army. Turbine speed regulators. 2,804,824, 9-3-57, Cl. 102-70.2.
- Cryderman, Warner L., to Shaft Machines Ltd. Mucking machine. 2,781,140, 2-12-57, Cl. 214-657.
- Crylor: *See*—
Stuchlik, René E. F., and Rosset. 2,788,563.
- Cryslar, John B., G. T. Gaddis, and E. C. Hallanger, to Minneapolis-Honeywell Regulator Co. Multi-zone control apparatus. 2,788,941, 4-16-57, Cl. 236-1.
- Csorgo, Alexander. Folding camp chair. 2,779,394, 1-29-57, Cl. 155-147.
- Cubberley, Richard H., and M. B. Dell, to The Patent and Licensing Corp. Process for producing a water vapor impermeable board. 2,803,171, 8-20-57, Cl. 92-41.
- Cubellis, Guido. Contact switch for material guiding device. 2,801,308, 7-30-57, Cl. 200-61.18.
- Cuccia, Carmen L., to Radio Corp. of America. High frequency coupling and modulating apparatus. 2,806,172, 9-10-57, Cl. 315-5.16.
- Cuccia, Carmen L., to Radio Corp. of America. Magnetron. 2,808,568, 10-1-57, Cl. 332-5.
- Cuccio, Vincent C. Raising and lowering mechanism for use with standards. 2,789,687, 4-23-57, Cl. 203-75.
- Cuchet, Roger. Camera release grip. 2,793,573, 5-28-57, Cl. 95-53.
- Cudahy Packing Co., The: *See*—
Crowley, John L., Swift, and Larsen. 2,817,198.
- Cudd, Joseph D. Pants hanger. 2,792,978, 5-21-57, Cl. 223-95.
- Cudd, Joseph D. Basket. 2,818,099, 12-31-57, Cl. 150-28.
- Cue Fastener Corp.: *See*—
Neitlich, Irving M. 2,776,466.
Schwartz, Lawrence. 2,817,206.
- Cueno, Donald F., and J. Barrera. Bracket means for mounting prompting machines on cameras. 2,796,814, 6-25-57, Cl. 95-12.
- Culbertson, Oran L., and W. A. Pardee, to Gulf Research & Development Co. Carbon impregnated solids and method of preparing the same. 2,812,249, 11-5-57, Cl. 75-4.
- Culbertson, James B.: *See*—
Jacobs, James H., Carosella, and Culbertson. 2,805,195.
- Culcasi, Anne: *See*—
Vaccaro, Adelaide, and Culcasi. 2,814,229.
- Culemeyer, Karl: *See*—
Spangenberg, Willy, and Culemeyer. 2,789,060.
- Culemeyer, Karl, to Willy Spangenberg & Co. Manufacturing drying paints. 2,781,386, 2-12-57, Cl. 260-410.9.
- Culemeyer, Karl, to Willy Spangenberg & Co. Paints and methods of manufacturing same. 2,812,337, 11-5-57, Cl. 260-404.
- Culkosky, Martin. Restraining device for electric contact finger. 2,814,700, 11-26-57, Cl. 200-166.
- Cull, Neville L.: *See*—
Ernst, John L., and Cull. 2,810,762.
Pasce, Egi V., and Cull. 2,802,024.
- Cullen, Alexander L., to Wayne Kerr Laboratories Ltd. Microwave wattmeters. 2,810,884, 10-22-57, Cl. 324-95.
- Cullen, Carroll G.: *See*—
Willke, Louis G., and Cullen. 2,776,318.
- Cullen, Harry A., Jr. Alphabetical sorter. 2,812,862, 11-12-57, Cl. 211-11.
- Cullen, John J. Lavatory. 2,810,916, 10-29-57, Cl. 4-166.
- Cullen, Roy H., and L. D. Richards, said Richards to said Cullen. Pre-positioned coupling for swaged connections. 2,815,227, 12-3-57, Cl. 285-23.

- Cullerton, James F., Jr.: *See*—
Biba, Edward A., Jr., and Cullerton. 2,802,193.
- Culleton, Robert J.: *See*—
Mittell, Frank C., and Culleton. 2,809,080.
- Culligan, Inc.: *See*—
Klumb, George H., Sailsbury, and Schulze. 2,778,798.
Klumb, George H., Schulze, Roach, and Sailsbury. 2,781,312.
- Cullison, Frederick H.: *See*—
Wiley, Bruce F., and Cullison. 2,803,197.
- Cullison, Harvey L. Mechanical sculling machine. 2,785,647, 3-19-57, Cl. 115-30.
- Cullmann, Ernst. Battery mounting apparatus. 2,817,409, 12-24-57, Cl. 180-68.5.
- Cullor, Glen D.: *See*—
Dannevig, Tord, and Cullor. 2,796,081.
- Cully, Donald C.: *See*—
Collins, John W., Cully, and Hampshire. 2,793,971.
- Culpepper, Emmett L., ½ to A. S. Barbera. Chair tray having pivoted, spring biased, arm-engaging clamps. 2,797,973, 7-25-57, Cl. 311-47.
- Culshaw, William, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Phase changing devices for electro-magnetic waves. 2,814,724, 11-26-57, Cl. 250-13.
- Culver, Bruce B. Device to prevent wind noise at vehicle side vent opening. 2,786,711, 3-26-57, Cl. 296-44.
- Culver, Edwin R., Jr., to Wrought Iron Range Co. Self-serving sink. 2,786,211, 3-26-57, Cl. 4-187.
- Culver, Perrin C.: *See*—
Atwood, William E., and Culver. 2,795,220.
- Cumberworth, Donald C., to Southeastern Tool & Die Co. Separator mounting for spinning frames. 2,811,825, 11-5-57, Cl. 57-108.
- Cumber, John T. to The Taylor Provision Co. Bag. 2,808,091, 10-1-57, Cl. 150-1.
- Cummaro, Louis A., to Phillips Screw Co. Externally threaded insert element and keyed locking ring therefor. 2,783,811, 3-5-57, Cl. 151-41.73.
- Cummaro, Louis A., to Phillips Screw Co. Removal tool for recessed head screws. 2,815,054, 12-3-57, Cl. 145-50.
- Cumming, Alfred P. C.: *See*—
Morton, Frank, and Cumming. 2,790,834.
- Cumming, James: *See*—
Herder, Elmer A., and Cumming. 2,792,873.
- Cumming, James C.: *See*—
Herder, Elmer A., and Cumming. 2,818,105.
- Cumming, James M. Apparatus for impelling a projectile. 2,804,804, 9-3-57, Cl. 89-1.
- Cumming, James M., G. P. Sutton, V. R. Vorwerk, D. B. Harmon, and C. A. Villiers, to North American Aviation, Inc. Liquid propellant rocket. 2,789,505, 4-23-57, Cl. 102-49.
- Cummings, Chester: *See*—
Pantello, James G. 2,795,121.
- Cummings, Donald G., O. R. Woods, and B. Van Weelden, to The Upjohn Co. Marking inspection device. 2,783,389, 2-26-57, Cl. 250-214.
- Cummings, Frederick W., and H. D. Mowers, to General Motors Corp. Apparatus for making electric wiring conduits. 2,798,933, 7-9-57, Cl. 219-59.
- Cummings, Harold R.: *See*—
Zunick, Michael J., and Cummings. 2,813,210.
- Cummings, Howard D., to Monsanto Chemical Co. Purification of maleic anhydride. 2,806,861, 9-17-57, Cl. 260-346.8.
- Cummings, Howard D., W. D. Robinson, and J. D. Sullivan, to Monsanto Chemical Co. Isomerization of maleic acid to fumaric acid in the presence of gaseous chlorine and nitric acid. 2,790,827, 4-30-57, Cl. 260-537.
- Cummings, James D., to Crutcher-Rolfs-Cummings, Inc. Pipe coating apparatus including hot coating means and cooling means. 2,791,198, 5-7-57, Cl. 118-69.
- Cummings, James D., to Crutcher-Rolfs-Cummings, Inc. Pipe internal coating machine. 2,792,807, 5-21-57, Cl. 118-72.
- Cummings-Landau Laundry Machinery Co., Inc.: *See*—
Hutterer, Martin. 2,793,892.
Hutterer, Martin. 2,817,283.
- Cummings, Lowell O.: *See*—
Bader, Alfred R., and Cummings. 2,802,882.
- Cummings, Nicholas A.: *See*—
Cummings, Thomas N., Peterson, and Shiu. 2,805,095.
- Cummings, Percival W., Jr.: *See*—
Cresswell, Arthur, and Cummings. 2,777,751.
Robertson, Thomas H., and Cummings. 2,790,698.
- Cummings, Percival W., Jr., to American Cyanamid Co. Spinnerette. 2,798,252, 7-9-57, Cl. 18-8.
- Cummings, Robert A., Jr.: *See*—
Mosher, Ralph E., and Stiveson. 2,805,498.
- Cummings, Rodney B. Tone generator for cable testing. 2,789,236, 4-16-57, Cl. 307-132.
- Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu, ¼ to N. A. Cummings. Apparatus for handling cartons. 2,805,095, 9-3-57, Cl. 294-99.
- Cummins-Chicago Corp.: *See*—
Doerner, Ernest H. 2,779,593.
Mentzer, James S. 2,813,717.
- Cummins, Earl W., and R. S. Johnson, to E. I. du Pont de Nemours and Co. Process for making purified cyclohexyl-sulfamates. 2,799,700, 7-16-57, Cl. 260-500.
- Cummins Engine Co., Inc.: *See*—
Reiners, Neville M. 2,811,017.
Reiners, Neville M. 2,817,211.
- Cummins, James: *See*—
Bryant, David. 2,807,333.
- Cummins, Kenneth W.: *See*—
Todd, William C., and Cummins. 2,788,914.
- Cuni, Albert J. Coin container. 2,815,118, 12-3-57, Cl. 206-0.82.
- Cunkelman, John W., to Swift & Co. Laryngeal orifice block for animals. 2,802,234, 8-13-57, Cl. 17-1.
- Cunnien, James M., to Minneapolis-Honeywell Regulator Co. Control apparatus for forced air furnace. 2,786,632, 3-26-57, Cl. 236-9.
- Cunningham, Burris B., to the United States of America as represented by the United States Atomic Energy Commission. Fractional distillation separation of plutonium values from light element values. 2,816,813, 12-17-57, Cl. 23-14.5.
- Cunningham, Clarence D. Swimming garment construction. 2,790,176, 4-30-57, Cl. 2-67.
- Cunningham, Dora T. Ash tray support. 2,781,992, 2-19-57, Cl. 248-226.
- Cunningham, Edwin A., Jr., to Hagan Chemicals & Controls, Inc. High pressure oil valve for return-flow burners. 2,809,799, 10-15-57, Cl. 251-52.
- Cunningham, Eldon R., to General Electric Co. Cradle type base for rotatable machinery. 2,810,536, 10-22-57, Cl. 248-19.
- Cunningham, Elijah P., and D. W. Dinsmore, to Monsanto Chemical Co. Anti-rust emulsion resistant mineral oil composition. 2,794,782, 6-4-57, Cl. 252-51.5.
- Cunningham, Ernest R., Jr.: *See*—
Beyerstedt, Ralph L., and Cunningham. 2,806,617.
- Cunningham, Frederick C. Method and apparatus for preserving products of gas reactions and for synthesis of acetylene. 2,805,268, 9-3-57, Cl. 260-679.
- Cunningham, George L., to Horizons Inc. Process for preparing alkali metal oxides and peroxides. 2,784,061, 3-5-57, Cl. 23-184.
- Cunningham, George L., to Chempatents, Inc. Preparation of high purity lithium carbonate from crude aqueous lithium chloride. 2,793,934, 5-28-57, Cl. 23-33.
- Cunningham, George L., J. M. Bryant, and E. M. Gause, to Callery Chemical Co. Preparation of alkaline earth metal borohydrides. 2,784,053, 3-5-57, Cl. 23-14.
- Cunningham, George L., and M. A. Levitin, to Horizons Inc. Treating of aluminum and aluminum alloy surfaces. 2,785,098, 3-12-57, Cl. 143-6.27.
- Cunningham, George L., and A. Yee, to Horizons Inc. Soldering flux composition. 2,817,893, 12-31-57, Cl. 29-487.
- Cunningham, James M., to International Business Machines Corp. Plugboard contactor. 2,779,007, 1-22-57, Cl. 339-18.
- Cunningham, James M., to E. R. and D. C. Chilcott, doing business as Techno Instrument Co. Multiple-channel magnetic recorder. 2,806,757, 9-17-57, Cl. 346-74.
- Cunningham, James M. and K. E. Rhodes, to International Business Machines Corp. Vehicle registering device. 2,807,418, 9-24-57, Cl. 235-99.
- Cunningham, Jerry B., and C. A. Murphy, to the United States of America as represented by the Secretary of the Navy. Automatic injection lubricator. 2,817,417, 12-24-57, Cl. 184-27.
- Cunningham, John B., and C. E. Wooddell, deceased; A. K. Wooddell, executrix. Process of introducing silicon carbide in copper ores to recover copper. 2,816,019, 12-10-57, Cl. 75-74.
- Cunningham, Lewis L. Space thermostat. 2,778,901, 1-22-57, Cl. 200-137.
- Cunningham, Marion G.: *See*—
Burke, George F. C. 2,785,899.
Casady, Cecil A., and Wood. 2,803,133.
- Cunningham, Marion M., to United States Rubber Co. Filler fitting for flexible containers and method of installing the same. 2,787,309, 4-2-57, Cl. 150-8.
- Cunningham, Marion M., to United States Rubber Co. Collapsible container. 2,795,257, 6-11-57, Cl. 150-1.
- Cunningham, Marion M., to United States Rubber Co. Method and apparatus for filling and emptying collapsible containers. 2,811,178, 10-29-57, Cl. 141-6.
- Cunningham, Marion M., to United States Rubber Co. Collapsible container. 2,815,784, 12-10-57, Cl. 150-0.5.
- Cunningham, Orin D.: *See*—
Polly, Orville L., and Cunningham. 2,783,270.
- Cunningham, Rhean D., to the United States of America as represented by the Secretary of War. Wave analyzing apparatus. 2,803,801, 8-20-57, Cl. 324-77.
- Cunningham, Robert A., E. A. Morlan and L. L. Payne, to Hughes Tool Co. Reaming bit. 2,802,643, 8-13-57, Cl. 255-330.
- Cunningham, Robert E. Fluid dispensing attachment for dental engines. 2,788,576, 4-16-57, Cl. 32-28.
- Cunningham, Robert E. Fluid dispensing attachment for dental engines. 2,788,577, 4-16-57, Cl. 32-28.
- Cunningham, Robert J.: *See*—
Siefert, August C., and Cunningham. 2,777,254.
- Cunningham, Ronald L. Automatic control for sound reproducing equipment. 2,779,825, 1-29-57, Cl. 179-100.1.
- Cunningham, Thomas L. Moth-proofing composition. 2,811,477, 10-29-57, Cl. 167-37.

- Cuno Engineering Corp., The: *See*—
Ashton, Philip E. 2,784,290.
- Cuny, Richard P., and R. Wiedis, to Bendix Aviation Corp. Screened spark plug. 2,776,394, 1-1-57, Cl. 317-96.
- Cupery, Martin E., to E. I. du Pont de Nemours and Co. Aqueous acetic acid soluble polyamines of epoxide copolymers. 2,781,335, 2-12-57, Cl. 260-85.7.
- Cupier, John A., II. Jewel bearing support. 2,812,221, 11-5-57, Cl. 308-2.
- Cupper, Robert A., to Union Carbide and Carbon Corp. Lubricant and method for treating molds. 2,784,108, 3-5-57, Cl. 117-5.3.
- Cupples, Joseph. Ship hull bottom plating having integral bent back reinforcement. 2,779,303, 1-29-57, Cl. 114-79.
- Curell, Conrad O., to Kaiser Aluminum & Chemical Corp. Road display device. 2,806,308, 9-17-57, Cl. 40-125.
- Cur, Charles F. Controls for fluid pressure system. 2,806,745, 9-17-57, Cl. 303-7.
- Curlett, John: *See*—
Gurries, Raymond A., and Curlett. 2,778,130.
- Curlett, John, to Gurries Mfg. Co. Unloading valve. 2,779,346, 1-29-57, Cl. 137-108.
- Curlett, John, to Gurries Mfg. Co. Open-center follow-up control valve. 2,804,883, 9-3-57, Cl. 137-622.
- Curley, Bruce A., to General Electric Co. Terminal arrangement for electric apparatus. 2,802,958, 8-13-57, Cl. 310-71.
- Curley, John F.: *See*—
Wilkey, Harold H., and Curley. 2,788,725.
- Curnutt, Donald D., and R. P. Vincent, to Pan American Petroleum Corp. Temperature-actuated free piston apparatus. 2,789,645, 4-23-57, Cl. 166-170.
- Curran, Edward J. Protective cover for automobiles. 2,801,667, 8-6-57, Cl. 150-52.
- Curran, Frank J.: *See*—
Sundell, Harold C. 2,810,952.
- Curran, Frank J. Collapsible crucifix. 2,781,596, 2-19-57, Cl. 41-10.
- Curran, Frank J. Perfumed or deodorant ball and a support therefor. 2,809,863, 10-15-57, Cl. 299-24.
- Curran, Frank J. Grenade fuse tester fixture. 2,812,655, 11-12-57, Cl. 73-35.
- Curran, John R.: *See*—
Bridges, Donald A., Curran, and Kuenn. 2,783,837.
- Curran, John R., to American Pipe and Construction Co. Apparatus for forming dense coating on pipe. 2,786,252, 3-26-57, Cl. 25-38.
- Curran, Russell E. Method of making a lock nut assembly from a plurality of sheet metal laminations. 2,784,428, 3-12-57, Cl. 10-86.
- Currie, Chester C., and J. W. Keil, to Dow Corning Corp. Organopolysiloxane adhesive and pressure-sensitive adhesive tape containing same. 2,814,601, 11-26-57, Cl. 260-29.1.
- Currie, Dugald. Directional deflector for a corn picker elevator. 2,807,378, 9-24-57, Cl. 214-42.
- Currie, Grover C., to Dacam Corp. Carton for cylindrical objects and blank for forming a plurality of said cartons. 2,795,365, 6-11-57, Cl. 229-40.
- Currie, John B., and A. R. Gregory, to Gulf Research & Development Co. Homogeneously distributing particles. 2,808,242, 10-1-57, Cl. 259-180.
- Currie, Maurice E. Shallow water diving mask. 2,799,020, 7-16-57, Cl. 2-14.
- Currie, William F. Drinking attachment for cans. 2,782,614, 2-26-57, Cl. 65-13.
- Currier, Raymond H. Prescription file. 2,814,299, 11-26-57, Cl. 129-21.
- Currier, Ulysses G.: *See*—
Bornzin, James H., Currier, Francis, and Tufts. 2,787,949.
- Bornzin, James H., Currier, and Reibell. 2,800,996.
- Currin, Barchie L. Hose coupling breaker wrench. 2,798,393, 7-9-57, Cl. 81-90.
- Currin, Charles V., and W. T. Perkins, Jr., to J. P. Stevens & Co., Inc. Letoff control actuating means. 2,789,421, 4-23-57, Cl. 66-86.
- Curry Air Shear Corp.: *See*—
Hudson, Thomas B., Jr. 2,780,285.
- Curry, Arnet A., and P. S. Castro, to Motorola, Inc. Compression amplifier. 2,784,263, 3-5-57, Cl. 179-171.
- Curry, Dorothy M. Device for revealing unlawful removal of automobile license plates. 2,784,020, 3-5-57, Cl. 292-327.
- Curry, Edmund C.: *See*—
Wagner, John H., and Curry. 2,807,871.
- Curry, Edmund C., to Ingersoll-Rand Co. Turbine rotor construction. 2,809,801, 10-15-57, Cl. 253-77.
- Curry, James W., to Dow Corning Corp. Polymerization of vinylidihydrocarbyl-silanes and products thereof. 2,811,541, 10-29-57, Cl. 260-448.2.
- Curry, Osborne B.: *See*—
Malone, Samuel L., and Curry. 2,817,143.
- Malone, Samuel L., and Curry. 2,817,256.
- Curry, William R. Automobile cooler. 2,780,073, 2-5-57, Cl. 62-91.5.
- Curtenius, Frederick B. Air film table. 2,815,249, 12-3-57, Cl. 302-29.
- Curtin, Gilbert C. Nail straightening devices. 2,784,622, 3-12-57, Cl. 81-15.
- Curtin, Lloyd L., to United Shoe Machinery Corp. Rough rounding machine gage. 2,799,031, 7-16-57, Cl. 12-85.
- Curtin, Leo P. Cleaning metal surfaces. 2,817,195, 12-24-57, Cl. 51-282.
- Curtin, Leonard S., to United Shoe Machinery Corp. Stitch-down shoes. 2,776,501, 1-8-57, Cl. 36-16.
- Curtis Automotive Devices, Inc.: *See*—
Spitler, Clem H. 2,787,388.
- Curtis, Charles W., to Hughes Aircraft Co. Balanced mixer arrangement. 2,790,073, 4-23-57, Cl. 250-13.
- Curtis, Clifford D.: *See*—
Davis, John J., Curtis, and Procknow. 2,805,783.
- Curtis Companies Inc.: *See*—
Bell, Forrest F. 2,795,445.
- Sikkema, Arthur L., and Bielema. 2,807,062.
- Wrightfield, Ralph C. 2,790,212.
- Curtis, Daniel L., to Hughes Aircraft Co. Complementary signal generating networks. 2,812,451, 11-5-57, Cl. 307-88.5.
- Curtis, Earl W. Conveyor mechanism for feeding articles to packaging machine. 2,788,112, 4-9-57, Cl. 198-21.
- Curtis, Earl W. and J. E., to Laureldale Engineering Co. Dough handling machine. 2,784,683, 3-12-57, Cl. 107-4.
- Curtis, Edith D.: *See*—
Curtis, Franklin E. 2,775,936.
- Curtis, Franklin E., deceased, by E. D. Curtis, administratrix, to Addressograph-Multigraph Corp. Roller platen carriage in address printing machines. 2,775,936, 1-1-57, Cl. 101-269.
- Curtis, Gerald J. Vertically adjustable motor mount for outboard motors. 2,815,731, 12-10-57, Cl. 115-41.
- Curtis, Howard J.: *See*—
Zirkle, Raymond E., and Curtis. 2,796,411.
- Curtis, James B., and C. P. Hostetler, to Fruit Equipment Service. Fruit counting machine. 2,812,137, 11-5-57, Cl. 235-98.
- Curtis, James W., to United Shoe Machinery Corp. Blind rivet assemblies and method of extending a rivet blank around a headed mandril stem. Re. 24,363, 10-1-57, Cl. 10-27.
- Curtis, James W., to United Shoe Machinery Corp. Method of extending a rivet blank around a headed mandril stem. 2,779,955, 2-5-57, Cl. 10-27.
- Curtis, John C., to Joy Mfg. Co. Telescopic uniform pressure providing apparatus. 2,813,515, 11-19-57, Cl. 121-9.
- Curtis, John C., and W. D. Fish, to Joy Mfg. Co. Adjustable jib mounting for rock drills. 2,791,399, 5-7-57, Cl. 255-51.
- Curtis, John J. Reclining chair. 2,798,534, 7-9-57, Cl. 155-105.
- Curtis, Junior E.: *See*—
Curtis, Earl W. and J. E. 2,784,683.
- Curtis Mfg. Co.: *See*—
Pelouch, James J. 2,788,771.
- Curtis, Richard C., to Hazelton Research, Inc. Display apparatus. 2,814,035, 11-19-57, Cl. 343-7.7.
- Curtis, Roger W., and N. Kaplan. Fire alarm system. 2,804,610, 8-27-57, Cl. 340-227.
- Curtis, S., & Son, Inc.: *See*—
Gorton, Robert T. 2,796,985.
- Michalka, Alois M. 2,808,193.
- Curtis, Thomas E., to A. B. Chance Co. Fused drop-out cut-outs. 2,798,133, 7-2-57, Cl. 200-127.
- Curtis, Thomas E., to North American Aviation, Inc. Frequency regulated power supply. 2,798,997, 7-9-57, Cl. 318-318.
- Curtis, Thomas E., and W. L. Pondrom, Jr., to North American Aviation, Inc. Motor control system for leveling device. 2,789,260, 4-16-57, Cl. 318-32.
- Curtis, Thomas E., and W. A. Gussow, to Southern States Equipment Corp. Operating mechanism for electric switches. 2,803,967, 8-27-57, Cl. 74-96.
- Curtis, Walter M., to The New Haven Board & Carton Co. Convertible display carton. 2,787,371, 4-2-57, Cl. 206-45.21.
- Curtis, Wesley B., and B. A. Hunter, to United States Rubber Co. Chemical blowing of rubber. 2,806,073, 9-10-57, Cl. 260-724.
- Curtis, Wilbur, Co., Inc.: *See*—
Curtis, Wilbur D. 2,809,066.
- Curtis, Wilbur D., to Wilbur Curtis Co., Inc. Quick acting clamp means for handle structures of flasks of the vacuum coffee-making and similar types. 2,809,066, 10-8-57, Cl. 294-31.2.
- Curtis, William A. Distributor systems for internal combustion engines. 2,808,447, 10-1-57, Cl. 123-146.5.
- Curtiss, Lawrence M., to The Thomas & Betts Co. Armoured cable mounting. 2,816,949, 12-17-57, Cl. 174-51.
- Curtiss, Nathaniel H., and F. B. Mack, to United States Rubber Co. Wrapping or unwrapping apparatus. 2,815,638, 12-10-57, Cl. 57-1.
- Curtiss-Wright Corp.: *See*—
Baird, Clyde W. 2,805,677.
- Baldanza, Nicholas T. 2,811,744.
- Barrett, Hillard E., and Payne. 2,780,062.
- Black, William J. 2,781,227.
- Boam, Willard M., and Hanink. 2,779,999.
- Chillon, Charles W. 2,805,849.
- Constantino, Constantine S., Hoffman, and Schaffer. 2,792,685.

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- Cushman, Maurice E. 2,779,423.
 Cushman, Maurice E. 2,793,702.
 Ferri, Antonio. 2,788,183.
 Focht, Claude K. 2,796,075.
 Gallo, Joseph E. 2,811,783.
 Gamble, Edward H. 2,780,734.
 Gilman, Samuel. 2,800,590.
 Gilman, Samuel. 2,800,591.
 Grandmont, Paul E. 2,804,698.
 Kurzina, Stanley B., Jr. 2,800,026.
 Mergen, Joseph M., and Murphy. 2,793,703.
 Moore, Vincent. 2,781,634.
 Nagle, Wilson D., and La Barre. 2,799,940.
 Pedersen, George H. 2,789,021.
 Sacchini, Columbus R. 2,807,823.
 Stern, Robert G. 2,784,501.
 Stern, Robert G. 2,788,589.
 Stern, Robert G. 2,803,893.
 Stern, Robert G. 2,804,264.
 Stern, Robert G., and Dawson. 2,808,658.
 Stern, Robert G., and Port. 2,810,210.
 Stern, Robert G., and Wakefield. 2,798,308.
 Waite, George F. 2,776,175.
 Waite, George F. 2,812,215.
 Wiegand, Francis J. 2,811,331.
 Curtiss-Wright Corp., Marquette Metal Products Division:
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 Gleitz, Jerome D. 2,775,859.
 Gleitz, Jerome D., and Moulton. 2,802,330.
 Moulton, Lloyd J. 2,791,966.
 Moulton, Lloyd J. 2,794,430.
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 Sacchini, Columbus R., and Tomko. 2,794,524.
 Vaughn, Guy W., Jr., and Sacchini. 2,779,063.
 Curtze, Walter A. Window structure. 2,778,067, 1-22-57, Cl. 20-12.
 Curtze, Walter A. House number. 2,799,106, 7-16-57, Cl. 40-140.
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 Cusack, Thomas J., to The Virjune Mfg. Co. Lipstick case. 2,777,572, 1-15-57, Cl. 206-56.
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 Cusano, Paul. Billiard type game boards. 2,798,723, 7-9-57, Cl. 273-127.
 Cuscolea, Otwin, F. Grohs, W. Kühnelt, and K. Rosner, to Oesterreichisch-Alpene Montangesellschaft. Process for the production of steel. 2,803,534, 8-20-57, Cl. 75-60.
 Cushing, George B., to Westinghouse Electric Corp. Circuit interrupter. 2,792,476, 5-14-57, Cl. 200-146.
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 Cushing, Samuel J. Hook and eye clamp for sewing machine. 2,788,756, 4-16-57, Cl. 112-114.
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 Sloan, Harry E. 2,777,704.
 Cushman, Clifford E., to Pacific Scientific Aeroproducts. Cable tension regulator. 2,787,916, 4-9-57, Cl. 74-501.5.
 Cushman, Clifford E., to Pacific Scientific Aeroproducts. Quick disconnect coupling. 2,812,201, 11-5-57, Cl. 287-60.
 Cushman, Everett H., to Air Reduction Co., Inc. Powder feeding method and apparatus. 2,805,323, 9-3-57, Cl. 219-130.
 Cushman, Maurice E. Fishing rods. 2,777,239, 1-15-57, Cl. 43-18.
 Cushman, Maurice E., to Curtiss-Wright Corp. Propeller with oil cooler. 2,779,423, 1-29-57, Cl. 170-160.23.
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 Cushman, Maurice E. Socket wrench having socket size reducing means. 2,814,227, 11-26-57, Cl. 81-185.
 Cusic, John W., to G. D. Searle & Co. Cyclic amides of α -toluic acids and derivatives thereof. 2,776,282, 1-1-57, Cl. 260-247.2.
 Cusic, John W., to G. D. Searle & Co. Tropine ester of xanthene-9-carboxylic acid and salts thereof. 2,782,199, 2-19-57, Cl. 260-292.
 Cusic, John W., to G. D. Searle & Co. Ethers of heterocyclic alcohols and tetrahydroisoquinolinealkanols, their salts and methods for their production. 2,785,166, 3-12-57, Cl. 260-288.
 Cusic, John W., to G. D. Searle & Co. Aminoalkyl cycloalkylcarbamates. 2,794,810, 6-4-57, Cl. 260-326.3.
 Cusic, John W., and R. A. Robinson, to G. R. Searle & Co. Quaternary ammonium salts of dialkylaminoalkyl esters of thianthrene-10-carboxylic acid. 2,776,299, 1-1-57, Cl. 260-328.
 Cusic, John W., and M. Zimmermann, to G. D. Searle & Co. Chlorophenothiazinecarboxamides. 2,776,971, 1-8-57, Cl. 260-243.
 Cusic, John W., H. S. Lowrie, and H. W. Sause, to G. D. Searle & Co. Derivatives of oxopiperazinoalkylhalopheno thiazines. 2,787,617, 4-2-57, Cl. 260-243.

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 Cusick, Charles S., to Pittsburgh Plate Glass Co. Glass laying apparatus. 2,780,039, 2-5-57, Cl. 51-240.
 Cusick, Charles S., and R. V. Lange, to Pittsburgh Plate Glass Co. Apparatus for dispensing plaster. 2,782,576, 2-26-57, Cl. 51-277.
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 Cuthbert, Stuart V., and L. Sutherland, to the United States of America as represented by the Secretary of the Navy. Method of heat treating molybdenum and molybdenum alloys. 2,789,929, 4-23-57, Cl. 148-13.
 Cuthbert, Stuart V., and J. W. Marden, to the United States of America as represented by the Secretary of the Navy. Process of sintering molybdenum. 2,793,116, 5-21-57, Cl. 75-224.
 Cuthbertson, Charles R., and O. L. Bertorelli, to J. M. Huber Corp. Densifying fine powders. 2,806,771, 9-17-57, Cl. 23-813.
 Cuthbertson, George R., E. B. Erickson, and A. J. Fontana, to United States Rubber Co. Method of forming sidewall of tire. 2,789,616, 4-23-57, Cl. 152-353.
 Cutler, Adolphus E., to Pittsburgh Plate Glass Co. Metal cutting and crimping tool. 2,800,960, 7-30-57, Cl. 164-120.
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 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Instantaneous automatic gain control for pulse circuits. 2,787,673, 4-2-57, Cl. 179-171.
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 Cutler, Frank A., and J. M. Chemerda, to Merck & Co., Inc. Process for producing 17-hydroxydesoxycorticosterone. 2,786,857, 3-26-57, Cl. 260-397.47.
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 Adriansen, John R. 2,779,906.
 Carter, Uriel F. 2,781,431.
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 Cox, Irvin W. 2,789,180.
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 Forrestal, Roger P., and Secor. 2,789,262.
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 Howdle, Frederic E. 2,787,363.
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 Kuhn, Clarence W. 2,803,722.
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 Schmitz, Norbert L. 2,778,985.
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- Cutler, Hazel H. Thixotropic wood preservation composition and process for preparing same. 2,784,139, 3-5-57, Cl. 167-38.7.
- Cutler, Leonard S., and B. Diener, to Gertsch Products, Inc. Direct reading very-high-frequency meter and signal generator. 2,798,952, 7-9-57, Cl. 250-36.
- Cutler, Ralph S. Tray. 2,781,651, 2-19-57, Cl. 65-53.
- Cutler, Dominick. Poultry deboner. 2,793,392, 5-28-57, Cl. 17-11.
- Cutrow, Leonard A. Combined drafting board and easel. 2,781,608, 2-19-57, Cl. 45-131.
- Cutter, Fred A., to Cutter Laboratories, Inc. Sterilizing process. 2,802,716, 8-13-57, Cl. 21-2.
- Cutter Laboratories, Inc.: *See*—
 Butler, William F. 2,808,829.
 Cutter, Fred A. 2,802,716.
 Ritter, Robert P. 2,782,784.
 Williams, Arthur R., and Hidalgo. 2,810,743.
- Cutting, Alan B.: *See*—
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- Cutts, Doris K., and D. Miller. Manufacture of cutlery. 2,795,976, 6-18-57, Cl. 76-104.
- Cuvier, Claude C. F. Hibernating apparatus. 2,817,340, 12-24-57, Cl. 128-373.
- Cuvixex Co.: *See*—
 Fessler, Julius H. 2,801,175.
- Cuykendall, Trevor R.: *See*—
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- Cvikich, Joseph. Folding table having U-shaped leg pairs each securable to underside at triangularly spaced points. 2,785,936, 3-19-57, Cl. 311-84.
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- Cymbal, Leopold P. Springboard. 2,812,180, 11-5-57, Cl. 272-66.
- Cyphers, Elmer B., and W. E. Waddey, to Esso Research and Engineering Co. Additive for mineral oils. 2,815,326, 12-3-57, Cl. 252-45.
- Cyphers, Elmer B., to Esso Research and Engineering Co. Mineral lubricating oil additive. 2,781,318, 2-12-57, Cl. 252-47.
- Cyphers, Elmer B., and R. P. Nejak, to Esso Research and Engineering Co. Combination additive for mineral lubricating oils. 2,791,559, 5-7-57, Cl. 252-37.5.
- Cyphers, Elmer B., and J. H. Bartlett, to Esso Research and Engineering Co. Lubricant composition. 2,809,163, 10-8-57, Cl. 252-46.7.
- Cyphers, Elmer B., and G. M. McNulty, to Esso Research and Engineering Co. Manufacture of alkyl xanthogen sulfides. 2,813,890, 11-19-57, Cl. 260-455.
- Cyphers, James H. Mailbox signal. 2,782,983, 2-26-57, Cl. 232-35.
- Cyr, Howard M., C. W. Siller, and T. F. Steele, to The New Jersey Zinc Co. Process for roasting sulfide ore concentrates. 2,796,340, 6-18-57, Cl. 75-3.
- Cyran, Eugene V., and W. R. Jackson, to Modern Service Engineering Co. Hydraulic ram unit. 2,804,849, 9-3-57, Cl. 121-38.
- Cyril Bath Co., The: *See*—
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- Cyrus, William F.: *See*—
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- Czapek, Emil: *See*—
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- Czaplinski, Frank H.: *See*—
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- Czarnecki, Casimir M., to Eddington Metal Specialty Co. High and low-pressure oil burner combustion heads. 2,815,805, 12-10-57, Cl. 158-76.
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- Czarnocki, Witold, to Massey-Harris-Ferguson (Sales) Ltd. Power actuated implement hitch for tractors. 2,804,814, 9-3-57, Cl. 97-46.07.
- Czermak, Carl K.: *See*—
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- Czermak, Leo: *See*—
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- Czerwin, Edward P.: *See*—
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- Czesnocha, Stanley. Fishing lures. 2,817,921, 12-31-57, Cl. 43-42.18.
- Czetli, Jess: *See*—
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- Czibere, Margaret: *See*—
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- Czikk, Alfred M.: *See*—
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- Czohara, Chester A., to International Harvester Co. Cooling system for electrode tips. 2,797,305, 6-25-57, Cl. 219-120.
- Czuba, Walter T., and W. S. Wolfram, to General Motors Corp. Automotive power plant. 2,800,037, 7-23-57, Cl. 74-730.
- DCA Food Industries Inc.: *See*—
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- DHB Corp.: *See*—
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- D. and H. Corp.: *See*—
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- D K Mfg. Co., Inc.: *See*—
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- Dabich, Michael, to F. Jos. Lamb Co. Chuting. 2,815,841, 12-10-57, Cl. 193-25.
- Dabrowski, Augustina, to Thomas Electronics, Inc. Method of drying bulb walls for aluminumized cathode ray tubes. 2,785,992, 3-19-57, Cl. 117-33.5.
- Dacam Corp.: *See*—
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- Dacey, George C., and I. M. Ross, to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. 2,778,956, 1-22-57, Cl. 307-88.5.
- Dacey, John A. Therapeutic device for applying vibration and heat. 2,792,830, 5-21-57, Cl. 123-24.1.
- Dacey, William F.: *See*—
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- Dachs, Norman W., to Olin Mathieson Chemical Corp. Ammonium and hydrazinium hydrazine sulfates and low molecular weight derivatives thereof as blowing agents for synthetic resins and natural rubber. 2,803,688, 8-20-57, Cl. 260-724.
- Daco Machine & Tool Co.: *See*—
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- Da Costa, James S., to Samuel Olson Mfg. Co., Inc. Conveyor drive. 2,796,975, 6-25-57, Cl. 198-203.
- Da Costa, James S., to Samuel Olson Mfg. Co., Inc. Level and inclined conveyor. 2,802,427, 8-13-57, Cl. 104-18.
- Dacre Chucks Ltd.: *See*—
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- Dadd, John V., to Columbia Ribbon and Carbon Mfg. Co., Inc. Self-gripping mandrel. 2,798,678, 7-9-57, Cl. 242-68.
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- Dadson, Thomas E., to Nash-Kelvinator Corp. Range. 2,804,531, 8-27-57, Cl. 219-20.
- Dadson, Thomas E., to American Motors Corp. Range. 2,814,695, 11-26-57, Cl. 200-138.
- Da Fano, Ettore, to John B. Pierce Foundation. Process of making silicates. 2,814,634, 11-26-57, Cl. 260-448.8.
- Da Fano, Ettore, and H. I. Sternheim, to John B. Pierce Foundation. Organic silicon compounds, process of making the same and method of transferring heat therewith. 2,818,389, 12-31-57, Cl. 252-78.
- Daffer, Irven W. Toy gun. 2,793,637, 5-28-57, Cl. 124-19.
- Daffurn, Roland M., and A. Howard-Smith, to Smith and Davis Ltd. Spring catch for doors and the like. 2,785,915, 3-19-57, Cl. 292-75.
- Dagenais, Martial. Can spout. 2,816,695, 12-17-57, Cl. 222-481.
- Daggett Chocolate Co.: *See*—
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- Daggett, Fred L., to Daggett Chocolate Co. Ice cream blending apparatus. 2,816,518, 12-17-57, Cl. 107-1.
- Daglish, Anthony F.: *See*—
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- Dagostino, Vincent L.: *See*—
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- D'Agostino, Vincent F., to Airkem, Inc. Automatic feed diffuser devices for air treating gel. 2,794,676, 6-4-57, Cl. 299-24.
- Dagrell, Knut Å., to A B Svenska Flaktfabriken. Device for reversing fan blades. 2,792,897, 5-21-57, Cl. 170-160.4.
- Daher, Ernest: *See*—
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- Dahl, George W. Diaphragm mounting in valve body. 2,812,777, 11-12-57, Cl. 137-791.
- Dahl, Robert R.: *See*—
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- Dahl, Robert R., to The Dole Valve Co. Flow control structure. 2,775,984, 1-1-57, Cl. 138-45.
- Dahlberg, Ernst E.: *See*—
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- Dahlberg, John H., to C. A. Swanson & Sons. Poultry dressing machine. 2,795,815, 6-18-57, Cl. 17-11.
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- Dahlberg, Jonas F. Mounting for telescopic sights. 2,783,539, 3-5-57, Cl. 33-56.
- Dahlberg, Leroy E., to Croname, Inc. Photoetching embossing dies. 2,816,025, 12-10-57, Cl. 96-37.
- Dahlberg, Robert S., Jr., to Philco Corp. Frequency stabilized radio relay system. 2,777,054, 1-8-57, Cl. 250-15.
- Dahlberg, Thord, to Kooperativa Forbundet Ekonomisk Forening. Label assembly and dispensing device. 2,796,110, 6-18-57, Cl. 154-1.6.
- Dahlberg, William F.: *See*—
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- Dahlen, Paul A., to Stevens Mfg. Co., Inc. Resettable condition responsive device. 2,804,524, 8-27-57, Cl. 200-138.
- Dahlerup, La Roy. Cattle holding chute. 2,786,449, 3-26-57, Cl. 119-99.
- Dahlgren, John A., to General Electric Co. Combination case heater and alarm circuit for refrigerators. 2,807,942, 10-1-57, Cl. 62-89.

- Dahlin, Eli. Fish and game vise. 2,813,297, 11-19-57, Cl. 17-8.
- Dahlman, Bengt A., to Radio Corp. of America. Apparatus for coupling a helical conductor to a microwave field. 2,815,489, 12-3-57, Cl. 333-21.
- Dahlstrom, Alfred, to United States Steel Corp. Seam welding apparatus. 2,792,799, 5-21-57, Cl. 113-59.
- Dahlström, Ernst R., and C. G. B. Rothelius, to Arenco Aktiebolag. Apparatus for separating stem portions from disintegrated tobacco mass. 2,783,888, 3-5-57, Cl. 209-295.
- Dahlstrom, Reuben O. Sanding block. 2,804,729, 9-3-57, Cl. 51-187.
- Dahlstrom, Roy: *See*—
- Moore, Charles H., Jr., and Dahlstrom. 2,792,287.
- Dahlstrum, Alfred: *See*—
- James, Kenneth E., and Dahlstrum. 2,809,270.
- Dahly, Harold W.: *See*—
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- Dahm, George P.: *See*—
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- Dahm, Thomas M., and R. A. Holloway, to Lockheed Aircraft Corp. Film resistance measuring device. 2,811,691, 10-29-57, Cl. 324-65.
- Dahmer, Roy S., to Eaton Mfg. Co. Method of making shell molds. 2,803,047, 8-20-57, Cl. 22-193.
- Daidone, Philip C., to The Baker Castor Oil Co. Oxidation hydroxyl-containing aliphatic compounds. 2,790,824, 4-30-57, Cl. 260-488.
- Daiger, George P., D. C. Gerber, and W. G. Seck, to The Hoover Co. Spherical cleaner-general arrangement. 2,781,103, 2-12-57, Cl. 183-37.
- Dail, John P., and R. F. Hill, to D. and H. Corp. Insect catchers. 2,780,026, 2-5-57, Cl. 43-139.
- Dailey, Hampton J., deceased (by R. M. Dailey, executrix), and W. J. Knochel, to Westinghouse Electric Corp. Tube sealing. 2,776,473, 1-8-57, Cl. 29-475.
- Dailey, Hampton J., deceased (by R. M. Dailey, executrix), and H. Rapaport, to Westinghouse Electric Corp. Getter shield pickup loop. 2,813,216, 11-12-57, Cl. 313-174.
- Dailey, John J., to Temco Aircraft Corp. Electrolytic descaling. 2,780,594, 2-5-57, Cl. 204-141.
- Dailey, Ruth M.: *See*—
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- Dailey, Hampton J., and Rapaport. 2,813,216.
- Dailey, William H., Jr., to Surface Combustion Corp. Combustion apparatus. 2,780,185, 2-5-57, Cl. 110-56.
- Dailey, William H., Jr., to Surface Combustion Corp. Burner port structure. 2,805,709, 9-10-57, Cl. 158-1.
- Daily, Arthur M.: *See*—
- Arisman, Mervin B., Budd, and Daily. 2,789,191.
- Barden, Wayne A., Daily, and Slough. 2,796,499.
- Barden, Wayne A., Daily, and Slough. 2,796,500.
- Daily, Arthur M., to Chicago Telephone Supply Corp. Variable resistor with high torque adjustment. 2,796,501, 6-18-57, Cl. 201-55.
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- Barényi, Béla, and Wilfert. 2,797,952.
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- Bensinger, Wolf-Dieter. 2,803,230.
- Bensinger, Wolf-Dieter, and Kurz. 2,804,863.
- Eberhard, Albert. 2,817,980.
- Erleben, Reinhold. 2,804,782.
- Förster, Hans J. M. 2,777,550.
- Förster, Hans J. M. 2,787,170.
- Förster, Hans J. M. 2,788,874.
- Förster, Hans J. M. 2,790,328.
- Förster, Hans J. M. 2,807,968.
- Förster, Hans J. M. 2,817,250.
- Förster, Hans J. M., Kollmann, and Kümich. 2,806,387.
- Förster, Hans-Joachim M. 2,792,714.
- Förster, Hans-Joachim M. 2,799,375.
- Frölich, Max. 2,783,668.
- Gassmann, Johannes. 2,790,431.
- Gassmann, Johannes, and Lorscheidt. 2,814,283.
- Göschel, Karl-Heinz R. 2,779,319.
- Göschel, Karl-Heinz R., and Grözing. 2,779,320.
- Göschel, Karl-Heinz R., and Grözing. 2,803,235.
- Katzung, Hugo. 2,801,865.
- Kosche, Rudolf L. H. 2,797,472.
- Kraus, Ludwig. 2,816,615.
- Links, Heinrich K. 2,777,390.
- Links, Heinrich K. 2,778,351.
- Müller, Josef. 2,790,329.
- Müller, Josef. 2,806,713.
- Daimler-Benz Aktiengesellschaft: *See*—Continued
- Müller, Josef. 2,808,270.
- Müller, Josef. 2,814,352.
- Nallinger, Friedrich K. H. 2,806,543.
- Nallinger, Friedrich K. H. 2,812,751.
- Nallinger, Friedrich K. H. 2,817,323.
- Naumann, Willy R. 2,785,023.
- Nedwiedek, Hans R. 2,804,862.
- Paul, Karl F., and Lohmann. 2,785,780.
- Roessler, Heinrich G. F. 2,782,884.
- Roller, Albert E. 2,782,881.
- Roller, Franz T. 2,818,140.
- Roller, Franz T. and A. E. 2,801,842.
- Rothweiler, Alfred F. 2,815,944.
- Scherenberg, Hans O. 2,800,118.
- Scherenberg, Hans O. 2,808,038.
- Scherenberg, Hans O., and Müller. 2,806,542.
- Scherenberg, Hans O., and Müller. 2,806,714.
- Schilling, Otto. 2,793,631.
- Schilling, Otto. 2,804,858.
- Schmidt, Ekhardt O. 2,788,782.
- Schumann, Richard W. K. 2,787,258.
- Schwaiger, Odilo L. 2,803,229.
- Stump, Eugen. 2,780,943.
- Stump, Eugen. 2,785,763.
- Stump, Eugen. 2,793,535.
- Stump, Eugen. 2,799,256.
- Uhlenhaut, Rudolf E. 2,797,954.
- Uhlenhaut, Rudolf E., and Kraus. 2,811,214.
- Uhlenhaut, Rudolf E., and Müller, and Scherenberg. 2,818,128.
- Uhlenhaut, Rudolf E., Rotweiler, and Wengert. 2,790,864.
- Wilfert, Karl. 2,783,365.
- Wilfert, Karl. 2,787,205.
- Wilfert, Karl. 2,788,998.
- Wilfert, Karl. 2,790,675.
- Wilfert, Karl. 2,796,116.
- Wilfert, Karl. 2,797,955.
- Wilfert, Karl. 2,799,528.
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- Simpson, Cyril M. 2,777,334.
- Daines, Geoffrey A., and H. P. Hasell, to Westinghouse Electric Corp. Lug feeding mechanism for indexing lamp-making machine. 2,794,563, 6-4-57, Cl. 214-146.5.
- Dairiki, Setsuo, and M. Michelson, to Raytheon Mfg. Co. Wave guide junctions. 2,801,390, 7-30-57, Cl. 333-9.
- Dairy Containers, Inc.: *See*—
- Negoro, Kaiji. 2,789,745.
- Dairyland Food Laboratories, Inc.: *See*—
- Farnham, Merle G. 2,794,743.
- Dairymat Corp.: *See*—
- Gilbert, Paul F. 2,792,681.
- Gilbert, Paul F. 2,817,461.
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- Painter, Virgil E. 2,793,838.
- Dakin, Evelyn S. Microscope slide. 2,801,568, 8-6-57, Cl. 88-40.
- Dalalian, Harry P., and S. Kushner, to American Cyanamid Co. Acylpiperazines and methods of preparing the same. 2,807,617, 9-24-57, Cl. 260-268.
- Dale, Colin B., to Webster-Chicago Corp. Switch mechanism for phonograph record changers. 2,795,428, 6-11-57, Cl. 274-1.
- Dale, Colin B., to Webcor, Inc. Tape reel latch. 2,801,811, 8-6-57, Cl. 242-74.1.
- Dale, Colin B., to Webcor, Inc. Phonograph. 2,818,263, 12-31-57, Cl. 274-10.
- Dale, George V., and H. T. Friis, to Bell Telephone Laboratories, Inc. Microwave horn and paraboloidal reflector antenna system. 2,817,837, 12-24-57, Cl. 343-775.
- Dale, Glenn H., and R. O. Shelton, to Phillips Petroleum Co. Extraction process. 2,779,709, 1-29-57, Cl. 196-14.19.
- Dale, Julian K., to Commercial Solvents Corp. Production of type A riboflavin crystals. 2,797,215, 6-25-57, Cl. 260-211.3.
- Dale, Julian K., to Commercial Solvents Corp. Process for recovery of riboflavin. 2,815,341, 12-3-57, Cl. 260-211.3.
- Dale, Ralph G.: *See*—
- Haase, Bartholomew, McWhorter, Dale, and Stahl. 2,797,659.
- Dale, Sheldon: *See*—
- Friedman, Aaron, Lurie, and Dale. 2,808,790.
- Dale, Vernon F. Gun case. 2,781,897, 2-19-57, Cl. 206-16.
- D'Alerio, Gaetano F., to Koppers Co., Inc. Anion-exchange resins cross linked with polyester of unsaturated polycarboxylic acid. 2,794,785, 6-4-57, Cl. 260-2.1.
- D'Alerio, Gaetano F., to Koppers Co., Inc. Alkylation-dealkylation catalysts. 2,802,884, 8-13-57, Cl. 260-624.
- D'Alerio, Gaetano F., to Koppers Co., Inc. Low-water absorption high-impact polystyrene molding compositions. 2,808,386, 10-1-57, Cl. 260-41.5.
- D'Alerio, Gaetano F., to Koppers Co., Inc. Alkenylaryloxyacetamides. 2,811,507, 10-29-57, Cl. 260-47.
- D'Alerio, Gaetano F. Chloroalkyl alkenylaryl ethers. 2,818,402, 12-31-57, Cl. 260-47.
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Derr, Elmer B., Dales, and Abrahamsen. 2,800,742.
Dales, George F. Thermostats. 2,792,474, 5-14-57, Cl. 200—138.
- Dales, Nicholas G., to Hampton Mfg. Co. Tape roll support. 2,788,892, 4-16-57, Cl. 206—59.
- D'Alessandro, Alfred F.: *See*—
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- D'Alessandro, Attilio: *See*—
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- Daley, Edwin W., to The Procter & Gamble Co. Buffered anti-perspirant compositions. 2,814,584, 11-26-57, Cl. 167—90.
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- Daley, Horace S., and E. A. Wentz, to Specialties Development Corp. Method of manufacturing hollow articles composed of resin impregnated yarn windings. 2,792,324, 5-14-57, Cl. 154—83.
- Dalgleish, Alexander, and R. N. Lacey, to The Distillers Co. Ltd. Condensation reaction. 2,792,421, 5-14-57, Cl. 260—596.
- Dalglisch, Herbert F. Humidity measuring device. 2,793,526, 5-27-57, Cl. 73—73.
- Dalglisch, James J.: *See*—
Martin, Donald W., and Holm. 2,797,883.
- Dalhaug, Sevrin, to Hydraulik A/S. Pressure responsive control device for hydraulic systems. 2,816,565, 12-17-57, Cl. 137—112.
- Dalianis, George. Folding paring knife. 2,777,195, 1-15-57, Cl. 30—155.
- Dalin, David, to A/B Svenska Maskinverken. Combined air and water heater. 2,789,769, 4-23-57, Cl. 237—17.
- Dalin, David, to A/B Svenska Maskinverken. Method of and apparatus for generating steam. 2,816,526, 12-17-57, Cl. 122—235.
- Dalinda, Joseph Z., and R. Spiro; said Dalinda, to Rachel Dalinda. Method and apparatus for drilling with dissociated gas. 2,816,735, 12-17-57, Cl. 255—1.8.
- Dalinda, Rachel: *See*—
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- Dall, Edward L., to Atwood Vacuum Machine Co. Hood latch structure. 2,793,061, 5-21-57, Cl. 292—6.
- Dall, Edward D., to Houdaille Industries, Inc. Spare wheel mount and anti-rattle means. 2,801,780, 8-6-57, Cl. 224—42.21.
- Dallas, James E., to Plywood Research Foundation. Electronic device responsive to variable electrical conductances and capacitances of material, such as moisture content in lignocellulose materials. 2,782,367, 2-19-57, Cl. 324—61.
- Dallavis, Albert A., and C. J. Endicott, to Abbott Laboratories. Stabilized fumagillin compositions. 2,791,530, 5-7-57, Cl. 167—65.
- Dallon, Robert E.: *See*—
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- Dallons, John A., to Hughes Aircraft Co. Traveling wave tube. 2,808,534, 10-1-57, Cl. 315—3.5.
- Dallons, John A., to Hughes Aircraft Co. Cathode support. 2,817,039, 12-17-57, Cl. 315—3.5.
- Dally, Roy, to General Electric Co. High fidelity phonograph stylus assembly. 2,776,342, 1-1-57, Cl. 179—100.41.
- Dalton, Bruce H., and E. V. Lewis, to The Houston-Fearless Corp. Camera cradle head. 2,796,226, 6-18-57, Cl. 248—183.
- Dalton, Edward R.: *See*—
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- Dalton, Harold R. Magnetic transducing webs and method of manufacture. 2,799,609, 7-16-57, Cl. 154—95.
- Dalton, John F., to Bell Telephone Laboratories, Inc. Telephone handset shoulder support. 2,802,062, 8-6-57, Cl. 179—157.
- Dalton, Lloyd H. Bottle carrier. 2,803,487, 8-20-57, Cl. 294—87.28.
- Dalton, Robert F., to Hills-McCanna Co. Method of casting metallic articles. 2,812,562, 11-12-57, Cl. 22—200.
- Dalton, Robert H., and R. O. Voss, to Corning Glass Works. Cathode-ray tube envelope. 2,782,952, 2-26-57, Cl. 220—2.3.
- Dalton, Robert L., to Minneapolis-Honeywell Regulator Co. Modulating cut-off valve control apparatus. 2,812,909, 11-12-57, Cl. 236—80.
- Dalton, Swanton D., to Socony Mobil Oil Co., Inc. Method of distilling a high boiling hydrocarbon oil for use as a feed in catalytic cracking. 2,779,717, 1-29-57, Cl. 196—52.
- Daly, James U., to Robertshaw-Fulton Controls Co. Thermostatic control device. 2,806,654, 9-17-57, Cl. 236—99.
- Daly, Robert R., to Pneumatic Jacks, Inc. Lifting jack. 2,805,581, 9-10-57, Cl. 74—144.
- Dalzell, Clarence W., to Bendix Aviation Corp. Condition recording apparatus. 2,795,475, 6-11-57, Cl. 346—8.
- Dalzell, Harold L.: *See*—
Farrington, Thayer B., and R. K. Farrington, Dalzell, and Kurzenberger. 2,798,680.
- Dalziel, William C.: *See*—
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- Daman, Arthur C., to Mining Process and Patent Co. Heat exchange apparatus. 2,814,129, 11-26-57, Cl. 34—68.
- Damaskus, Charles W., to Armour and Co. Adrenocorticotrophin and oxypolygelatin compositions. 2,811,482, 10-29-57, Cl. 167—74.
- Damast, David. Double lock for handbags. 2,817,378, 12-24-57, Cl. 150—7.
- Dameran, Edward A.: *See*—
Grapes, Robert D., and Dameran. 2,797,095.
- Dames, Trent R., W. W. Moore, and J. W. Maloney. Recorder. 2,799,552, 7-16-57, Cl. 346—112.
- Dämgen, Wilhelm, and A. Rumberg, to Knapsack-Griesheim Aktiengesellschaft. Device for holding and moving forward electrodes. 2,797,251, 6-25-57, Cl. 13—14.
- D'Amico, John J.: *See*—
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Creed, Kenneth E., Jr., and D'Amico. 2,817,694.
- D'Amico, John J., to Monsanto Chemical Co. Halogen substituted unsaturated thiazolythioethers. 2,776,976, 1-8-57, Cl. 260—302.
- D'Amico, John J., to Monsanto Chemical Co. Halogen substituted unsaturated azolyl ethers. 2,776,977, 1-8-57, Cl. 260—306.
- D'Amico, John J., to Monsanto Chemical Co. Dithiopiperazines. 2,808,409, 10-1-57, Cl. 260—268.
- D'Amico, John J., to Monsanto Chemical Co. Vulcanization of rubber and product obtained thereby. 2,808,445, 10-1-57, Cl. 260—785.
- D'Amico, John J., to Monsanto Chemical Co. Dihydrobenzobenzothiazoles. 2,811,528, 10-29-57, Cl. 260—299.
- D'Amico, John J., to Monsanto Chemical Co. Process for vulcanization of rubber. 2,817,641, 12-24-57, Cl. 260—41.5.
- D'Amico, John J., and M. W. Harman, to Monsanto Chemical Co. Di-(lower alkyl) cyclohexylamine salts of 2,5-dimethylpiperazine-1,4-dicarboxidithioic acid. 2,776,974, 1-8-57, Cl. 260—268.
- Damijonaitis, Alexandra, to Union Mfg. Co. Fluid actuated chuck. 2,814,496, 11-26-57, Cl. 279—4.
- Damm, Carl A. Bolt carried multi-layer locking plug. 2,804,115, 8-27-57, Cl. 151—7.
- Damm, Carl A., W. Paraskewik, and J. W. Kaufman, to the United States of America as represented by the Secretary of the Navy. Fatigue test assembly. 2,812,658, 11-12-57, Cl. 73—103.
- Damm, Paul: *See*—
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- Dammert, Earl D.: *See*—
Carlsen, Leonard O., and Dammert. 2,804,722.
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- Dammert, Earl D., to The Gleason Works. Tool sharpening machine. 2,792,673, 5-21-57, Cl. 51—33.
- Damodaran, Manayath, and I. Babbar, to Council of Scientific and Industrial Research. Preparation of starch from starch bearing plant materials by pectic enzymes. 2,801,954, 8-6-57, Cl. 195—4.
- Damon, Joseph: *See*—
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- Damron, Cordell L. Light reflecting plumb bob. 2,791,037, 5-7-57, Cl. 33—216.
- Damusis, Adolf, to The Sherwin-Williams Co. Treatment of acidic carbon blacks. 2,816,046, 12-10-57, Cl. 106—307.
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Burkhalter, Robert R., and Mazziotti. 2,794,693.
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Hess, Werner G. 2,802,931.
• Thelander, W. Vincent. 2,791,307.
Thelander, W. Vincent. 2,812,842.
- Dancewicz, Joseph A., to Soule Mill. Apparatus and method for heat treating textile fabrics. 2,804,120, 8-27-57, Cl. 154—1.
- Dancing Waters, Inc.: *See*—
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Harrison, Taylor. 2,791,799.
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- Dancy, William B., to International Minerals & Chemical Corp. Production of potassium sulfate from langbeinite. 2,809,093, 10-8-57, Cl. 23—38.
- Dancy, William B., and W. N. Stanley, to International Minerals & Chemical Corp. Production of glaserite from langbeinite. 2,804,370, 8-27-57, Cl. 23—38.
- Dancy, William B., and A. Adams, to International Minerals & Chemical Corp. Recovery of potash values from brines. 2,804,371, 8-27-57, Cl. 23—38.
- Dancy, William B., G. H. Gloss, and W. R. Shaw, to International Minerals & Chemical Corp. Production of magnesium oxide. 2,809,880, 10-15-57, Cl. 23—201.
- D'Andrade, Antonio C. Tool-holding tray for use by automobile mechanics. 2,818,316, 12-31-57, Cl. 311—21.
- Dandridge, Manning H.: *See*—
Oliveau, John V., Dandridge, Quibley, and Shapiro. 2,789,174.

- Dane, Bruce W. Drum beater. 2,799,199, 7-16-57, Cl. 84—422.
- Danek, August J., to Auto Lamp Mfg. Co. Signal light system for motor vehicles. 2,784,348, 3-5-57, Cl. 315—80.
- Danek, Joseph R., to Western Electric Co., Inc. Method of detecting a plugged condition of a die. 2,796,128, 6-18-57, Cl. 164—125.
- Danel, Pierre F., to Etablissements Neyrpic. Coupling for vertical hydroelectric generator. 2,787,715, 4-2-57, Cl. 290—52.
- Danel, Pierre F., to Etablissements Neyrpic. Means for absorbing vibrations. 2,808,227, 10-1-57, Cl. 253—101.
- Danel, Pierre F., to Etablissements Neyrpic. Oil storage and cooling apparatus in hydraulic turbines. 2,813,696, 11-19-57, Cl. 253—148.
- Danforth, Joseph D., to the United States of America as represented by the Secretary of the Navy. Process for treatment of gels. 2,813,079, 11-12-57, Cl. 252—317.
- D'Angelo, Edward P. Foldable golf cart. 2,802,672, 8-13-57, Cl. 280—40.
- Dangelzer, Paul E., and G. Trapied, to Compagnie Francaise des Metaux. Apparatus for the continuous and semi-continuous casting of metals. 2,791,812, 5-14-57, Cl. 22—57.2.
- D'Angio, Claude J., to Airkem, Inc. Vapor diffuser devices. 2,783,085, 2-26-57, Cl. 299—24.
- Daniel, Arthur W. Micrometer depth gage. 2,782,517, 2-26-57, Cl. 33—170.
- Daniel, Blake N. Safety device for oil burners. 2,778,686, 1-22-57, Cl. 299—150.
- Daniel, Henry S. Fishing rod holder. 2,811,801, 11-5-57, Cl. 43—15.
- Daniel, John P., Sr. Method for charging shot holes. 2,793,833, 5-27-57, Cl. 255—1.8.
- Daniel, Karl. Method and apparatus for manufacturing endless sound tapes. 2,797,101, 6-25-57, Cl. 274—46.
- Daniel, Karl. Magazine for sound record bands. 2,810,574, 10-22-57, Cl. 271—2.17.
- Daniel, Karl. Device for sound recording. 2,817,112, 12-24-57, Cl. 18—5.3.
- Daniel, Karl. Sound tape container. 2,817,516, 12-24-57, Cl. 271—2.18.
- Daniel, William A.: See—
Camp, Leon W., and Daniel. 2,797,399.
- Daniell, Johnnie E. Block mold. 2,787,043, 4-2-57, Cl. 25—121.
- Daniels, C. R., Inc.: See—
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- Daniels, Carl V.: See—
McEwan, Alexander W., Anderson, and Daniels. 2,806,973.
- Daniels, Charles J.: See—
Parks, John W., and F. J., and C. J. Daniels. 2,816,761.
- Daniels, Edgar L. Hand tool provided with axial impact means. 2,815,692, 12-10-57, Cl. 81—52.35.
- Daniels, Farrington, to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor system. 2,809,931, 10-15-57, Cl. 204—193.2.
- Daniels, Farrington, to the United States of America as represented by the United States Atomic Energy Commission. Atomic power plant. 2,812,303, 11-5-57, Cl. 204—193.2.
- Daniels, Flavius K.: See—
Nasmith, John I., and Daniels. 2,812,176.
- Daniels, Frank J.: See—
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- Daniels, Fred B.: See—
Keiser, Morris, Daniels, and Jaffe. 2,800,831.
- Daniels, Fred B., to the United States of America as represented by the Secretary of the Army. Acoustic device. 2,789,651, 4-23-57, Cl. 181—5.
- Daniels, James V., to Kemplite Laboratories. Photographic flash apparatus. 2,776,364, 1-1-57, Cl. 240—1.3.
- Daniels, Joseph: See—
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- Daniels, Joseph, to Koppers Co., Inc. Introduction and removal of granular solid materials into or from closed chambers at increased pressure. 2,788,133, 4-9-57, Cl. 214—17.
- Daniels, Joseph. Model railways. 2,789,518, 4-23-57, Cl. 105—1.
- Daniels, Joseph, E. Rindtorff, and W. Ruschmann. Manufacture of cyanamides. 2,797,979, 7-2-57, Cl. 23—78.
- Daniels, Richard W. Metal band forming tool. 2,796,783, 6-25-57, Cl. 81—9.3.
- Daniels, Rupert S., and A. J. Mostello, to Union Carbide and Carbon Corp. Epoxy resin modified phenol resin abrasive. 2,779,668, 1-29-57, Cl. 51—298.
- Daniels, William H., to General Motors Corp. Control means for operation of a roof-closure in response to movements of the door and seat. 2,809,862, 10-15-57, Cl. 296—44.
- Danielson, Gunnar H.: See—
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- Danielson, Henry C., to Lockheed Aircraft Corp. Wing flap actuating mechanism. 2,779,555, 1-29-57, Cl. 244—42.
- Danielson Mfg. Co., The: See—
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- Danielson, Vernon S., to W. H. Miner, Inc. Shock absorbing mechanisms. 2,808,945, 10-8-57, Cl. 213—22.
- Danielsson, Holger V., to Aktiebolaget C. E. Johansson. Arresting device for measuring instruments. 2,794,258, 6-4-57, Cl. 33—147.
- Danielsson, Jan P., to Atlas Copco Aktiebolag. Drill wagons for use in tunneling or the like. 2,806,673, 9-17-57, Cl. 255—51.
- Daninshirsch, Harry, to Connor Engineering Corp. Diffuser with a detachable deflector member. 2,791,169, 5-7-57, Cl. 98—40.
- Danis, Sydney H.: See—
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- Danish, Albert A., and R. E. Lidov, to Shell Development Co. Insect toxicant. 2,804,420, 8-27-57, Cl. 167—30.
- Dank, Alfred P.: See—
Begun, Semi J., Dank, and Sarraatt. 2,789,776.
- Danly, James C., to Danly Machine Specialties, Inc. Readily removable shaft cam construction. 2,792,459, 5-14-57, Cl. 200—5.
- Danly, James C., to Danly Machine Specialties, Inc. Continuous stock feed for power presses. 2,816,758, 12-17-57, Cl. 271—2.3.
- Danly, James C., and D. T. Kennedy, to Danly Machine Specialties, Inc. Power press control. 2,816,635, 12-17-57, Cl. 192—12.
- Danly Machine Specialties, Inc.: See—
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Danly, James C., and Kennedy. 2,816,635.
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- Dann, Charles W., and R. M. Somers, to McGraw-Edison Co. Dictating machine. 2,811,364, 10-29-57, Cl. 274—13.
- Dann, John R.: See—
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- Dann, Morris, J. J. Peterson, and T. J. Moran, to American Home Products Corp. Ampule cap crimper. 2,807,923, 10-1-57, Cl. 53—352.
- Dannels, Bobby F.: See—
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- Dannels, Bobby F., to Olin Mathieson Chemical Corp. Composition of matter. 2,788,340, 4-9-57, Cl. 260—94.9.
- Dannenberg, Kurt, and I. E. Humphreys, to E. M. P. Electric Ltd. Electric fuses. 2,800,554, 7-23-57, Cl. 200—120.
- Dannenhoffer, Nicholas, and A. Einsle, to Eppens, Smith Co., Inc. Intrusion packages and methods of making same. 2,787,548, 4-2-57, Cl. 99—77.1.
- Danner, Eugene G. Aquarium heating and indicating device. 2,811,629, 10-29-57, Cl. 219—41.
- Danner, Hermann, to Fortuna-Werke Spezialmaschinenfabrik A. G. Band cutter. 2,804,141, 8-27-57, Cl. 164—35.
- Dannevig, Tord, to Boeing Airplane Co. Valve structure. 2,778,371, 1-22-57, Cl. 137—82.
- Dannevig, Tord, and G. D. Cullor, to Boeing Airplane Co. Valve assemblies and methods of making the same. 2,796,081, 6-18-57, Cl. 137—622.
- Dan River Mills, Inc.: See—
Canter, William B. 2,808,341.
Gagarine, Dmitry M., and Repokis. 2,803,564.
- Dansereau, Francis C., to National Gypsum Co. Roller conveyor boxcar. 2,802,583, 8-13-57, Cl. 214—84.
- Danta, Robert C.: See—
Stellmacher, Donald D., and Danta. 2,806,147.
- Dantowitz, Philip, to General Electric Co. Turbine speed control. 2,816,731, 12-17-57, Cl. 253—59.
- Dantzig, Henry P.: See—
Brockway, Arthur L., Jr., and Dantzig. 2,782,409.
- Danulat, Friedrich: See—
Schmalfeld, Paul, and Danulat. 2,788,314.
- Danuser, Jacob, and H.-L. Schucan, to Ciba Ltd. Disazodyeustuffs. 2,807,609, 9-24-57, Cl. 260—176.
- Danvers, Ellis, and H. Twitchee, to Rotol Ltd. Control system for variable pitch screw propellers. 2,781,856, 2-19-57, Cl. 170—135.74.
- Danzker, Leo, and J. A. Wood, to Olin Mathieson Chemical Corp. Separation of gamma benzene hexachloride. 2,787,645, 4-2-57, Cl. 260—648.
- D'Aoust, Lucien E. Hammer with magnetic nail placer. 2,788,815, 4-16-57, Cl. 145—30.
- D'Aoust, Lucien E. Attachment for a rule, square, or the like. 2,805,484, 9-10-57, Cl. 33—173.
- Daphne Investment Trust: See—
Müller, Willy, and Labhart. 2,816,167.
- Darby, Hermond O. Traction weights. 2,798,738, 7-9-57, Cl. 280—150.
- Darby, John B.: See—
Talbot, William J., Darby, and Collins. 2,804,690.
- Darby, Joseph R., and L. D. Frederickson, Jr., to Monsanto Chemical Co. Halogen containing vinylidene resins stabilized with a mixture of zinc and calcium salts of phenyl carboxylic acids. 2,782,176, 2-19-57, Cl. 260—30.6.
- Darcy, Georges, and J. Pennecot, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Rotatable tool holder for machining cylindrical members. 2,808,253, 10-1-57, Cl. 266—23.
- Darden, Elwyn J., 50% to L. Nelson. Letter reinserting device. 2,799,275, 7-16-57, Cl. 129—1.
- Dargols, Bernard. Support for cutting machines. 2,783,841, 3-5-57, Cl. 164—47.
- Dargols, Paul. Screwdriving tool. 2,788,816, 4-16-57, Cl. 145—50.

- Darin, John K.: *See*—
Murphy, James R., and Darin. 2,807,571.
- Dari-Research Corp.: *See*—
Palmer, Robert E. 2,808,776.
- Darkis, Frederick R.: *See*—
Hackney, Edward J., Faucette, and Darkis. 2,778,403.
Hackney, Edward J., Faucette, and Darkis. 2,805,671.
- Darman, Joseph: *See*—
Zizzi, Joseph L. 2,817,568.
- Darling, Ernest: *See*—
Darling, Harold F. and E. 2,793,859.
- Darling, Harold F. and E. Baseball bat and method of making the same. 2,793,859, 5-28-57, Cl. 273-72.
- Darling, Horace E., to The Foxboro Co. Measuring apparatus. 2,782,346, 2-19-57, Cl. 318-21.
- Darling, Joseph S.: *See*—
Jacobs, William, and Darling. 2,805,801.
- Darling, L. A., Co.: *See*—
Nowicki, Edwin J. 2,788,902.
- Darling, Robert B., to Hercules Powder Co. Production of cellulose alkyl ethers. 2,806,025, 9-10-57, Cl. 260-231.
- Darling, Robert F.: *See*—
Terrell, Basil J., and Darling. 2,801,076.
- Darling, Robert F., to The Parsons and Marine Engineering Turbine Research and Development Association. Combustion chamber with removable flame tubes. 2,777,291, 1-15-57, Cl. 60-39.65.
- Darling, Samuel M.: *See*—
Bartleson, John D., Klingel, and Darling. 2,809,617.
Foreman, Robert W., Gardner, and Darling. 2,792,335.
Hughes, Everett C., and Darling. 2,797,152.
Hughes, Everett C., Stine, Darling, and Liao. 2,790,774.
- Darlington, Sidney, to Bell Telephone Laboratories, Inc. Multiple code wheel analogue-digital translator. 2,779,539, 1-29-57, Cl. 235-61.
- Darlington, Thomas B. Picker for berries and the like. 2,780,905, 2-12-57, Cl. 56-330.
- Därmann, Otto: *See*—
Speith, Karl G., Därmann, and vom Ende. 2,789,046.
- Darmara, Fahih N.: *See*—
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- Darmara, Fahih N., to Utica Drop Forge & Tool Corp. Alloy for high temperature applications. 2,809,110, 10-8-57, Cl. 75-171.
- Darmody, William J., to The Sheffield Corp. Pneumatic gate. 2,807,880, 10-1-57, Cl. 33-147.
- Darmstadtter, Manfred. Remote control for automobile door lock actuator. 2,796,271, 6-18-57, Cl. 292-1.
- Darnell, Rex C., to Michigan Wire Cloth Co. Automatic dump for backwashing fuel filter. 2,782,932, 2-26-57, Cl. 210-167.
- Daroff, H., & Sons, Inc.: *See*—
Mutolese, Michael. 2,800,260.
- Daroff, Sidney Z. Combination scale and advertising announcer. 2,791,417, 5-7-57, Cl. 265-27.
- Da Roza, Frank G., W. T. Brennan, and A. J. Schenk, to Jervis B. Webb Co. Synchronization of independently driven members. 2,794,536, 6-4-57, Cl. 198-82.
- Darrah, Carl W., to General Motors Corp. Impeller for a centrifugal fan or blower. 2,802,620, 8-13-57, Cl. 230-134.
- Darriues, Georges, to Aktiengesellschaft Brown, Boveri & Cie. Device for automatic balancing of rotating machine parts. 2,778,243, 1-22-57, Cl. 74-573.
- D'Arrigo Bros. Co. of California: *See*—
Brunner, Edward J. 2,801,662.
- Darrow, Basil A. Ratchet-type pipe wrench having crank-type handles. 2,805,593, 9-10-57, Cl. 81-97.
- Darrow, Kenneth A., to General Electric Co. Compressor. 2,798,657, 7-9-57, Cl. 230-114.
- Darrow, Kenneth A., to General Electric Co. Compressor. 2,803,396, 8-20-57, Cl. 230-114.
- Darrow, Kenneth A., and R. H. Johnson, to General Electric Co. Compressor. 2,814,431, 11-26-57, Cl. 230-114.
- Darrow, Merritt I.: *See*—
Adams, Jack, and Darrow. 2,810,927.
- Darrow, Merritt, and J. B. Hanner, to Swift & Co. Poultry packaging machine. 2,787,103, 4-2-57, Cl. 53-219.
- Darrow, Merritt I., and J. B. Hanner. Method of packaging. 2,814,920, 12-3-57, Cl. 53-27.
- Darsie, Burns, to the United States of America as represented by the Secretary of the Army. Means for stripping links in a firearm. 2,789,474, 4-23-57, Cl. 89-33.
- Darsie, Burns, to the United States of America as represented by the Secretary of the Army. Side-stripping cartridge belt link. 2,794,369, 6-4-57, Cl. 89-35.
- Dartell, Norman: *See*—
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- Darvie, Samuel, $\frac{1}{2}$ to J. L. Abramson. Heel constructions. 2,799,098, 7-16-57, Cl. 36-34.
- Darwin, Clifford: *See*—
Kimmel, William E., and Darwin. 2,781,792.
- Darwin Products, Inc.: *See*—
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Pearl, Daniel M. 2,784,008.
- Das, Egges A. Philatelic cover mount and the like. 2,817,171, 12-24-57, Cl. 40-158.
- D'Ascoli, Ralph G.: *See*—
Ebel, Lawrence C., and D'Ascoli. 2,782,251.
- Das Gupta, Asru K., to Solar Mfg. Corp. High dielectric capacitors. 2,801,181, 7-30-57, Cl. 106-39.
- Dasher, Norman E., to Marvin Electric Mfg. Co. Recessed lighting fixture. 2,816,216, 12-10-57, Cl. 240-78.
- Dasher, Norman E., and J. H. Feig, to Marvin Electric Mfg. Co. Means for attaching a bezel. 2,792,245, 5-14-57, Cl. 292-76.
- Dasher, Paul J., to Dasher Rubber & Chemical Co. Method of treating waste latex foam. 2,814,075, 11-26-57, Cl. 18-48.
- Dasher Rubber & Chemical Co.: *See*—
Dasher, Paul J. 2,814,075.
- Dasher, Wayne G. Toy flying car. 2,791,867, 5-14-57, Cl. 46-17.
- Dasney, Charles A.: *See*—
Tracy, Ward D., Mager, and Dasney. 2,813,731.
- Dasse, Lester F., to Lambert Brake Corp. Self-adjusting disc brake. 2,778,452, 1-22-57, Cl. 188-72.
- Dassetto, Paolo. Apparatus for spraying mortar, cementitious material and the like. 2,779,626, 1-29-57, Cl. 299-86.
- Dassler, Guido: *See*—
Winter, Otto, and Dassler. 2,782,895.
- Dassler, Rudolf F., to Firm Puma-Schuhfabrik Rudolf Dassler. Holding device for attachments for sports footwear. 2,817,165, 12-24-57, Cl. 36-59.
- Datamatic Corp.: *See*—
Hoepfner, Conrad H. 2,779,540.
- Date, Kazuo H.: *See*—
Van Ryan, Anthony, and Date. 2,804,521.
Van Ryan, Anthony, and Date. 2,810,038.
- Datesman, Lewis R., and H. N. Groth. Safety switch and circuit. 2,802,115, 8-6-57, Cl. 207-10.
- Dath, George E., to Enterprise Railway Equipment Co. Latch mechanism for hopper car doors. 2,810,355, 10-22-57, Cl. 105-308.
- Dath, George E., to Enterprise Railway Equipment Co. Lock for sliding hopper gate. 2,810,356, 10-22-57, Cl. 105-308.
- Dath, George E., to Enterprise Railway Equipment Co. Hopper door latching means. 2,810,357, 10-22-57, Cl. 105-308.
- Dath, George E., to Enterprise Railway Equipment Co. Latch mechanism. 2,818,032, 12-31-57, Cl. 105-308.
- Datin, Richard C.: *See*—
Anderson, Irving F., and Datin. 2,816,148.
- Datin, Richard C., to Allied Chemical & Dye Corp. Process of producing ammoniated superphosphates. 2,783,139, 2-26-57, Cl. 71-37.
- Daub, Rudolph. Piston groove structure. 2,776,176, 1-1-57, Cl. 309-14.
- Daub, Rudolph. Piston head structure. 2,809,079, 10-8-57, Cl. 309-14.
- Dauben, H. J., Jr., H. J. Ringold, and B. Loken. Cyclopentanophenanthrene compounds and process for the production thereof. 2,802,825, 8-13-57, Cl. 260-239.55.
- Daubenspeck, Henry C.: *See*—
Winder, Samuel E. 2,811,814.
- Daudelin, Roland G.: *See*—
Schlesman, Carleton, Kent, and Daudelin. 2,788,761.
- Daudelin, Roland G. High pressure control valve. 2,777,455, 1-15-57, Cl. 137-68.
- Daudelin, Roland G. High pressure control valve. 2,796,074, 6-18-57, Cl. 137-68.
- Daudelin, Roland G., to the United States of America as represented by the Secretary of the Navy. Detonator electrical switch. 2,816,196, 12-10-57, Cl. 200-142.
- Daudt, Charles H. Winch. 2,793,740, 5-28-57, Cl. 203-399.
- Daugherty, Allen A.: *See*—
Daugherty, Harry V., and A. A. 2,816,362.
- Daugherty, Harry V., and A. A. Daugherty. Scribing apparatus. 2,816,362, 12-17-57, Cl. 33-42.
- Daugherty, Ralph H.: *See*—
Bishop, Homer L. 2,782,474.
- Daugherty, Ralph K.: *See*—
Brown, Noel J., and Daugherty. 2,812,961.
Magnuson, Roy M., and Daugherty. 2,792,929.
Smith, Traver J., and Daugherty. 2,787,000.
- Daugherty, Robert L., to Hanksraft Co. Percentage timing device. 2,805,293, 9-3-57, Cl. 200-31.
- Daüner, Karl, and H. Heywang, to Siemens & Halske, Aktiengesellschaft. Electric condensers. 2,802,256, 8-13-57, Cl. 29-25.42.
- Daunoras, William J. Ignition systems for internal combustion engines. 2,779,878, 1-29-57, Cl. 307-10.
- Dauphinee, Thomas M., to National Research Council. Method and apparatus for comparing voltages. 2,798,198, 7-2-57, Cl. 324-62.
- D'Auriac, Paul A., to Etablissements Neyrpic. Joint for heavy bell-shaped annular members. 2,787,430, 4-2-57, Cl. 248-13.
- Dausch, Erwin, to Skf, Kugellagerfabriken G. m. b. H. Textile drawing mechanisms. 2,789,320, 4-23-57, Cl. 19-135.
- Dausch, Erwin, to S. K. F. Kugellagerfabriken, G. m. b. H. Bracket fastening means for textile drawing mechanisms. 2,814,838, 12-3-57, Cl. 19-134.
- Dautry, Daniel: *See*—
Montchause, Andre J., and Dautry. 2,799,754.
- Dauwe, Camille F. Captive gliders. 2,778,154, 1-22-57, Cl. 46-77.
- D'Avaucourt, Pierre de V. Profile saw. 2,803,239, 8-20-57, Cl. 125-21.
- Davel, Vernal P.: *See*—
Gionet, Leo A., and Davel. 2,801,311.

- Davenport, Bert S.: *See*—
Warner, Fred J., Easton, and Davenport. 2,794,321.
- Davenport, Henry: *See*—
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- Davenport, James A. Pump hose support. 2,804,243, 8-27-57, Cl. 222-527.
- Davenport, Josephine G. Hair and head treating device. 2,813,275, 11-19-57, Cl. 4-159.
- Davenport Machine & Foundry Co.: *See*—
Messing, Hjalmar S. 2,793,583.
- Davenport, Omen B. Drain tile laying device. 2,815,726, 12-10-57, Cl. 111-5.
- Daves, Major E. Fish-line sinker. 2,801,490, 8-6-57, Cl. 43-43.1.
- Davey, Edward L., to British Insulated Callender's (Submarine Cables) Ltd. Electric cable joints. 2,810,010, 10-15-57, Cl. 174-88.
- Davey, James R., and A. Wilson, to Bell Telephone Laboratories, Inc. Teletypewriter station network including mobile station. 2,802,937, 8-13-57, Cl. 250-8.
- Davey, Kenneth W.: *See*—
Bernhardt, Howard E., and Davey. 2,780,717.
- Davey, Peter. Balance computing device. 2,782,986, 2-26-57, Cl. 235-61.
- Davey, Peter E., to General Electric Co. Magnetic latch. 2,801,870, 8-6-57, Cl. 292-251.5.
- Davey, Peter E., to General Electric Co. Rotatable shelf structure for refrigerators. 2,803,513, 8-20-57, Cl. 312-305.
- David, Edward J., to Ivers-Lee Co. Scoring or perforating attachment for package-sealing rolls. 2,803,931, 8-27-57, Cl. 53-178.
- David, Raymond C., to Foster Grant Co., Inc. Method of making a barrette. 2,811,749, 11-5-57, Cl. 18-47.5.
- Davidiak, Joseph A., and E. Partos. Vernier gauge. 2,801,472, 8-6-57, Cl. 33-143.
- Davids, John H., to Fairbanks, Morse & Co. Engine fuel delivery control. 2,780,211, 2-5-57, Cl. 123-103.
- Davids, Robert B. Scavenging and expansion volume extending trap mechanism for internal combustion engines. 2,798,467, 7-9-57, Cl. 123-76.
- Davids, Jan: *See*—
Knol, Kornelis S., and Davids. 2,801,299.
- Davidson, Alex B., to Schenley Industries, Inc. Apparatus for treating sewage. 2,788,127, 4-9-57, Cl. 210-195.
- Davidson, Archibald. Tool holder. 2,783,527, 3-5-57, Cl. 29-103.
- Davidson, Bruce J., to National Biscuit Co. Cartons. 2,809,777, 10-15-57, Cl. 229-45.
- Davidson Corp.: *See*—
George, Harvey F., and Davidson. 2,798,425.
- Davidson, Frank E., Jr.: *See*—
Jones, Hugh H., and Davidson. 2,800,198.
- Davidson, Frederick K., to Bontont Molding Co. Plastic grommet. 2,807,850, 10-1-57, Cl. 24-141.
- Davidson, Gareth M., to American Bosch Arma Corp. Transistor test set. 2,779,922, 1-29-57, Cl. 324-158.
- Davidson, Glenn. Cigarette filter construction. 2,780,573, 2-5-57, Cl. 154-106.
- Davidson, Jack A.: *See*—
Berg, Lloyd, Davidson, Nickelson, and Nye. 2,782,098.
- Davidson, Jack H. Cylinder end angularity gage. 2,811,074, 10-29-57, Cl. 88-14.
- Davidson, James R. Scraping and cutting tool. 2,791,027, 5-7-57, Cl. 30-171.
- Davidson, James R., and F. J. Beyerstedt, to Esso Research and Engineering Co. Process for preparing neutralized alkyl phenol sulfides. 2,808,377, 10-1-57, Cl. 252-42.7.
- Davidson, John T.: *See*—
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- Davidson, John T., to The Standard Register Co. Record making apparatus. 2,775,932, 1-1-57, Cl. 101-66.
- Davidson, John T., to The Standard Register Co. Form punching machine with form tipping mechanism to facilitate discharge of the cut forms. 2,777,516, 1-15-57, Cl. 164-20.
- Davidson, John T., to The Standard Register Co. Adjustable pack holder. 2,777,690, 1-15-57, Cl. 271-2.1.
- Davidson, John T., to The Standard Register Co. Imprinter. 2,779,272, 1-29-57, Cl. 101-378.
- Davidson, John T., to The Standard Register Co. Tympan roll adjusting means for rotary printing mechanism. 2,782,713, 2-26-57, Cl. 101-247.
- Davidson, John T., to The Standard Register Co. Printing means in autographic registers. 2,782,714, 2-26-57, Cl. 101-274.
- Davidson, John T., to The Standard Register Co. Motor jogging control. 2,787,751, 4-2-57, Cl. 318-443.
- Davidson, John T., to The Standard Register Co. Adjustable cylinder support for rotary printing mechanism. 2,801,584, 8-6-57, Cl. 101-216.
- Davidson, John T., and J. H. Kroemer, to The Standard Register Co. Intermittent feed means for superposed record strips. 2,787,464, 4-2-57, Cl. 271-2.4.
- Davidson, John T., and F. A. Briggs, to The Standard Register Co. Strip feeding device. 2,807,346, 9-24-57, Cl. 197-133.
- Davidson, Joseph W., to American Machine & Foundry Co. Direction changing and spreading device. 2,785,683, 3-19-57, Cl. 131-149.
- Davidson, Martin: *See*—
Yates, Wilfrid A., and Davidson. 2,796,756.
- Davidson, Morgan W., and F. N. Ruehlen, to Phillips Petroleum Co. Spraying of an aluminum halide-hydrocarbon complex. 2,792,338, 5-14-57, Cl. 196-54.
- Davidson, Norman R.: *See*—
Fried, Sherman, and Davidson. 2,805,916.
- Davidson, Ruby S., $\frac{1}{2}$ to C. P. Noell. Cotton picker. 2,795,097, 6-11-57, Cl. 56-48.
- Davidson, Thomas J., to Robertshaw-Fulton Controls Co. Fluid fuel burner control system. 2,778,416, 1-22-57, Cl. 158-135.
- Davidson, Trevor O., to Bucyrus-Erie Co. Automatic feed for cable-tool drills. 2,795,396, 6-11-57, Cl. 255-15.
- Davidson & Uphoff: *See*—
Uphoff, Fred D. 2,791,391.
- Davidson, William W.: *See*—
George, Harvey F., and Davidson. 2,798,425.
- Davie, Robert P., Jr.: *See*—
Storms, Harrison A., Jr., and Davie. 2,791,240.
- Davie, Robert P., Jr., to North American Aviation, Inc. Wind tunnel nozzle adjustment linkage. 2,788,020, 4-9-57, Cl. 138-45.
- Davie, Robert P., Jr., and E. L. Spearman, Jr., to North American Aviation, Inc. Constant temperature air supply. 2,776,562, 1-8-57, Cl. 73-147.
- Davies, Alan D., and H. Singer, to the United States of America as represented by the Secretary of the Navy. Holder for a photosensitive element. 2,812,915, 11-12-57, Cl. 248-27.
- Davies, Ben, to Harbison-Walker Refractories Co. Plastic chrome ramming mixes. 2,792,311, 5-14-57, Cl. 106-66.
- Davies, Caleb, Jr. Method and apparatus for heating metal. 2,805,143, 9-3-57, Cl. 75-13.
- Davies, David O.: *See*—
Ballantyne, David H., Davies, and Bowns. 2,813,394.
- Ivens, William R. C., and Davies. 2,808,699.
- Davies, David O., and A. Jubb, to Rolls-Royce Ltd. Fuel system for gas-turbine engine reheat combustion stage. 2,814,928, 12-3-57, Cl. 60-35.6.
- Davies, Donald W.: *See*—
Turing, Alan M., Davies, and Woodger. 2,799,449.
- Davies, Donald W., to National Research Development Corp. Electronic digital computers with pulse widening means. 2,784,906, 3-12-57, Cl. 235-61.
- Davies, Emrys J.: *See*—
Lambert, Clifford H., and Davies. 2,789,234.
- Davies, Frank: *See*—
Moseley, John F., and Davies. 2,808,076.
- Davies, Frank, J. F. Moseley, and I. H. Thomas, to The British Cotton Industry Research Assn. Weft selection mechanism for looms. 2,789,584, 4-23-57, Cl. 139-233.
- Davies, George A. Protective cover for a jet engine. 2,804,903, 9-3-57, Cl. 150-52.
- Davies, James D.: *See*—
Kimbrell, Willard B. 2,808,231.
- Davies, James E., and C. W. Otto, to Cutler-Hammer, Inc. Hermetically sealed electro-magnetic contacts and the like. 2,783,340, 2-26-57, Cl. 200-166.
- Davies, Joseph R. Solder wiper roll. 2,795,002, 6-11-57, Cl. 15-230.
- Davies, Lee F. Constant tracking device for an airplane on course. 2,788,593, 4-16-57, Cl. 40-32.
- Davies, Leonard G. Air propulsion. 2,806,418, 9-17-57, Cl. 98-33.
- Davies, Philip M. Fifth wheel coupling for tractor-trailer vehicles. 2,788,989, 4-16-57, Cl. 280-434.
- Davies, Phineas, to Imperial Chemical Industries Ltd. Conversion of sulphur dioxide to sulphur trioxide. 2,799,560, 7-16-57, Cl. 23-176.
- Davies, Richard E., and G. M. Moelter, to Celanese Corp. of America. Improving the stability of polyvinyl alcohol. 2,785,146, 3-12-57, Cl. 260-45.75.
- Davies, Richard J., to Bendix Aviation Corp. Radio shielding for ignition cable and method of making same. 2,781,785, 2-19-57, Cl. 138-25.
- Davies, Richard L., to The Pennsylvania Salt Mfg. Co. Gastropodical composition and method of using same. 2,789,936, 4-23-57, Cl. 167-16.
- Davies, Richard S., to Philco Corp. Delay system. 2,800,580, 7-23-57, Cl. 250-20.
- Davies, Richard T. Revolving spring toy. 2,807,117, 9-24-57, Cl. 46-47.
- Davies, Robert, and F. E. Heffner, to General Motors Corp. Torus ring for infinitely variable transmission. 2,786,363, 3-26-57, Cl. 74-200.
- Davies, Robert H., to Clark Equipment Co. Overhead guard for an industrial lift truck. 2,810,489, 10-22-57, Cl. 214-672.
- Davies, Robert H., and E. H. Badger, Jr. Liquid level control valve. 2,780,238, 2-5-57, Cl. 137-390.
- Davies, Robert H., and F. E. Amon, Jr., to The Parker Appliance Co. Liquid level control valves. 2,811,168, 10-29-57, Cl. 137-414.
- Davies, Robert R., and A. R. Todd, to Imperial Chemical Industries Ltd. Metallisable azo dyestuffs. 2,794,797, 6-4-57, Cl. 260-155.
- Davies-Young Soap Co., The: *See*—
Pollock, Lou, and Wald. 2,808,842.
- Trusler, Ralf B. 2,789,078.

- Davilo Realty Corp.: *See*—
Stork, Alfred. 2,793,764.
- Davino, Alphonso. Suspended rapid transit railway system. 2,781,001, 2-12-57, Cl. 104-89.
- Davis Aircraft Products Inc.: *See*—
Davis, Frank L. 2,782,672.
- Davis, Albert S., Jr., to Research Corp. Comestible treating methods. 2,789,914, 4-23-57, Cl. 99-229.
- Davis, Alden B.: *See*—
Shaffer, Francis N., and Davis. 2,776,261.
- Davis, Allan C., to A. C. Davis. Cop winder. 2,780,418, 2-5-57, Cl. 242-27.
- Davis, Ariel R. Electric switchboard. 2,796,473, 6-18-57, Cl. 200-16.
- Davis, Arnold O. Radiant temperature controlling device. 2,816,713, 12-17-57, Cl. 237-50.
- Davis, Arnold R.: *See*—
Hook, Edwin O., and Davis. 2,787,605.
Hook, Edwin O., and Davis. 2,787,621.
Sullivan, Frank A. V., Hook, and Davis. 2,816,881.
- Davis, Arthur P., to American Bosch Arma Corp. Gyroscopic apparatus. 2,817,239, 12-24-57, Cl. 74-5.44.
- Davis, Austin E., to Nashua Corp. Manufacture of double phase adhesive films. 2,784,111, 3-5-57, Cl. 117-63.
- Davis, Austin E., to Nashua Corp. Non-curling gummed paper, method and composition for making same. 2,793,966, 5-28-57, Cl. 117-122.
- Davis, Benjamin H., to The Standard Machinery Co. Apparatus for vulcanizing an extruded sheath on a continuous core. 2,789,314, 4-23-57, Cl. 18-6.
- Davis, Benjamin H., to The Standard Machinery Co. Extrusion head assembly. 2,794,213, 6-4-57, Cl. 18-13.
- Davis, Benjamin H., to The Standard Machinery Co. Stock feed control for extrusion apparatus. 2,807,832, 10-1-57, Cl. 18-12.
- Davis, Benjamin W.: *See*—
Simmons, Mack E., and Levey. 2,800,905.
- Davis, Bernard F. Louver type fences. 2,789,792, 4-23-57, Cl. 256-24.
- Davis, Bernard V., to Armstrong Siddeley Motors Ltd. Machines for polishing or lightly grinding elongated workpieces. 2,799,126, 7-16-57, Cl. 51-143.
- Davis, Carl M., and G. Miter; said Miter assor. to said Davis. Apparatus and method for spraying flock. 2,786,721, 3-26-57, Cl. 302-52.
- Davis, Charles J.: *See*—
Michaels, John I., Davis, and Loesch. 2,791,341.
- Davis, Charles J., J. I. Michaels, and C. A. Loesch, to Mid-Western Industries, Inc. Tractor mounted mechanical shovel. 2,788,906, 4-16-57, Cl. 214-138.
- Davis, Charles W., to the United States of America as represented by the Secretary of the Navy. Antenna feed horn. 2,786,998, 3-26-57, Cl. 343-775.
- Davis, Chester L.: *See*—
Muffley, Leo W. 2,780,910.
- Davis, Claude A., and J. E. Newton. Continuous bleaching range control. 2,785,559, 3-19-57, Cl. 68-178.
- Davis, Clyde E. Jewelry cases. 2,797,806, 7-2-57, Cl. 206-75.
- Davis, David A.: *See*—
Musschoot, Albert, and Davis. 2,818,162.
- Davis, David G. Valve structure having spherical seats. 2,809,011, 10-8-57, Cl. 251-233.
- Davis, Dean W., to International Telephone and Telegraph Corp. Cathode ray amplifier. 2,808,526, 10-1-57, Cl. 313-71.
- Davis, Donald L.: *See*—
Beck, Manuel H. 2,787,494.
- Davis, Donald M., to Hi-Jac Corp. Coaster for drinking glasses and the like. 2,779,495, 1-29-57, Cl. 215-100.5.
- Davis, Douglas P. Emergency exit door lock. 2,789,527, 4-23-57, Cl. 116-8.
- Davis, Earl, to Purex Corp., Ltd. System for producing high density detergents. 2,798,544, 7-9-57, Cl. 159-48.
- Davis, Edwin S., to New York Rubber Corp. Valve for inflatable articles. 2,810,922, 10-29-57, Cl. 5-348.
- Davis, Edwin S., to New York Rubber Corp. Conveyor belting. 2,815,850, 12-10-57, Cl. 198-199.
- Davis, Ellis E., to Shell Development Co. Method of correcting for lost circulation of drilling fluids. 2,818,230, 12-31-57, Cl. 255-1.8.
- Davis, Elwood R., to Harrington & Richardson, Inc. Saw set. 2,779,215, 1-29-57, Cl. 76-65.
- Davis, Elwood T., to Leeds and Northrup Co. Control systems for the duration-adjusting type. 2,797,291, 6-25-57, Cl. 219-20.
- Davis, Elwood T., to Leeds and Northrup Co. Condition difference control system. 2,804,268, 8-27-57, Cl. 236-15.
- Davis Engineering Inc.: *See*—
Davis, George. 2,815,048.
- Davis, Ernest, to Ward Industries Corp. Single lay shirt press. 2,807,396, 9-24-57, Cl. 223-57.
- Davis, Evan E., Jr., and W. K. Parcells, to Sun Oil Co. Desalting sodium mahogany sulfonates. 2,813,897, 11-19-57, Cl. 260-504.
- Davis, Everett S.: *See*—
McCornack, John H., and Davis. 2,790,048.
- Davis, Floyd E.: *See*—
Coffman, Fred B., and Davis. 2,780,453.
- Davis, Floyd L. Vehicle air conditioner. 2,797,631, 7-2-57, Cl. 93-2.
- Davis, Francis W. Fluid power steering gear. 2,784,611, 3-12-57, Cl. 74-388.
- Davis, Frank L., to Davis Aircraft Products Inc. Lock pin having eccentrically actuated plunger and cooperating locking slide means. 2,782,672, 2-26-57, Cl. 85-5.
- Davis, Fred W.: *See*—
Stokes, Thomas A., Jr., and Davis. 2,791,518.
- Davis, Fred W., and T. A. Stokes, Jr., to A. O. Edwards. Oligodynamic silver solution and process of rendering a surface microbicidal. 2,813,056, 11-12-57, Cl. 167-14.
- Davis, Fred W., and T. A. Stokes, Jr., to A. O. Edwards. Oligodynamic silver treating process and microbicidal product. 2,813,059, 11-12-57, Cl. 167-72.
- Davis, Frederick L., to Davis Precision Engineering, Inc. Automobile generator driving means. Re. 24,309, 4-23-57, Cl. 322-42.
- Davis, Frederick L. Variable speed transmissions. 2,782,660, 2-26-57, Cl. 74-752.
- Davis, George, to Davis Engineering Inc. Mobile brush cutting machine. 2,815,048, 12-3-57, Cl. 143-32.
- Davis, George A., to American Saw and Mfg. Co. Coiled band-saw package. 2,796,170, 6-18-57, Cl. 206-52.
- Davis, George A., to Allied Chemical & Dye Co. Hydraulically-operated gate valves. 2,802,483, 8-13-57, Cl. 137-553.
- Davis, Gerald M., and M. B. Winston, to American Cyanamid Co. Metallic soaps of fatty acids and polyhydroxy monocarboxylic acids. 2,785,989, 4-2-57, Cl. 106-243.
- Davis, Gerald M., A. L. Fowler, Jr., and M. B. Winston, to American Cyanamid Co. Metallic soaps of fatty acids and alpha-hydroxy alkanolic acids. 2,793,132, 5-21-57, Cl. 106-243.
- Davis, Gerald M., and R. W. Stafford, to American Cyanamid Co. Zinc stearate composition. 2,809,121, 10-8-57, Cl. 106-243.
- Davis, Harold D. Line splice. 2,813,734, 11-19-57, Cl. 287-75.
- Davis, Harold S., to American Cyanamid Co. Stabilizing aqueous ethylene chlorohydrin solutions with ethylene oxide. 2,806,888, 9-17-57, Cl. 260-632.5.
- Davis, Harry. Trailer hitch. 2,776,847, 1-8-57, Cl. 280-495.
- Davis, Harry M.: *See*—
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- Davis, Hilliard L., and R. C. Nelson, to The Garrett Corp. Enclosure depressurization rate control. 2,811,090, 10-29-57, Cl. 98-1.5.
- Davis, Howard A., to Sprague Electric Co. Electrical capacitors. 2,798,990, 7-9-57, Cl. 317-258.
- Davis, J. Rex. Fuel mixing control device. 2,776,821, 1-8-57, Cl. 261-62.
- Davis, James H.: *See*—
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- Davis, James L.: *See*—
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- Davis, John B., to Socony Mobil Oil Co., Inc. Geomicrobial prospecting method for petroleum. 2,777,799, 1-15-57, Cl. 195-103.5.
- Davis, John J., C. D. Curtis, and G. J. Procknow, to Paine Lumber Co. Ltd. Lumber handling apparatus. 2,805,783, 9-10-57, Cl. 214-44.
- Davis, John R., Jr. Sunlight duration recorder. 2,782,088, 2-19-57, Cl. 346-107.
- Davis, John V., to The Udylyte Corp. Work-handling apparatus for treating hollow articles. 2,780,229, 2-5-57, Cl. 134-76.
- Davis, John V., to The Udylyte Corp. Work carrier hook. 2,787,969, 4-9-57, Cl. 104-93.
- Davis, John V., to The Udylyte Corp. Plating machine. 2,789,569, 4-23-57, Cl. 134-58.
- Davis, John V., to The Udylyte Corp. Work-immersion apparatus. 2,801,641, 8-6-57, Cl. 134-160.
- Davis, Keith T., to Carrier Corp. Flow control means for air conditioning apparatus. 2,776,117, 1-1-57, Cl. 257-3.
- Davis, Keith T., to Carrier Corp. Gravity flow means for summer-winter air conditioner. 2,776,118, 1-1-57, Cl. 257-3.
- Davis, Kenneth M. Index tab. 2,815,595, 12-10-57, Cl. 40-23.
- Davis, Lewis M., to Sealed Power Corp. Combination piston ring expander, side pressure spring and oil ventilator. 2,785,029, 3-12-57, Cl. 309-45.
- Davis, Lincoln K. Electric cigarette lighter. 2,809,266, 10-8-57, Cl. 219-32.
- Davis, Lloyd W., and J. P. Redston, to E. F. Drew & Co., Inc. Method of treating wool. 2,806,804, 9-17-57, Cl. 117-46.
- Davis, Luther, Jr., to Raytheon Mfg. Co. Ultrasonic therapeutic devices. 2,789,557, 4-23-57, Cl. 128-24.
- Davis, Mansell A. Cross-leg vertically adjustable table. 2,788,252, 4-9-57, Cl. 311-95.
- Davis, Maurice E.: *See*—
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- Davis, Merle E.: *See*—
Davis, Walter E. and M. E. 2,810,240.
- Davis, Michael, to Mayfab, Inc. Travel bag with frame support. 2,797,779, 7-2-57, Cl. 190-43.
- Davis, Michael, and R. F. Lever, to National Research Development Corp. Melting and refining metals. 2,809,905, 10-15-57, Cl. 148-1.
- Davis, Morris C., B. Perryman, and R. C. Gannon. Master lock for scraper blade scarifier. 2,802,655, 8-13-57, Cl. 262-8.

- Davis, Myrtle M., $\frac{1}{2}$ to E. M. Sande. Lip rouge. 2,784,721, 3-12-57, Cl. 132-88.7.
- Davis, Nelson L. Mineral separating device and method. 2,807,366, 9-24-57, Cl. 209-173.
- Davis, Neville R., to Sunvic Controls Ltd. Electric snap-action switch devices. 2,776,352, 1-1-57, Cl. 200-122.
- Davis, Noland J. Fountain brush. 2,816,306, 12-17-57, Cl. 15-128.
- Davis Precision Engineering, Inc.: See—
- Davis, Frederick L. Re. 24,309.
- Davis Products Inc.: See—
- Friedlander, Sidney L. 2,812,525.
- Davis, Ralph A.: See—
- Ruh, Robert P., and Davis. 2,786,738.
- Ruh, Robert P., Davis, and Allswede. 2,777,004.
- Davis, Ralph P., to Link-Belt Co. Mold forming apparatus. 2,806,262, 9-17-57, Cl. 22-35.
- Davis, Ralph P., to Link-Belt Co. Foundry casting apparatus. 2,814,844, 12-3-57, Cl. 22-64.
- Davis, Ray O., and A. M. Jochim. Remote control liquid fuel dispensing attachment. 2,804,993, 9-3-57, Cl. 222-76.
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- Loring, Thomas W., Carson, and Davis. 2,800,730.
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- Davis, Richard C., and E. B. Moore, to International Telephone and Telegraph Corp. Combination automatic-gain-control and silencer amplifier. 2,802,099, 8-6-57, Cl. 250-20.
- Davis, Robert E., to Westinghouse Electric Corp. Method of producing multiple P-N junctions. 2,792,317, 5-14-57, Cl. 148-15.
- Davis, Robert E., to The Vale Chemical Co., Inc. Diphenylacetyl salicylic acid. 2,792,416, 5-14-57, Cl. 260-469.
- Davis, Robert F.: See—
- Kowal, Leonard J., and Davis. 2,796,784.
- Davis, Robert O., to The Gene Olsen Corp. Pallet handling mechanism for a concrete block machine. 2,789,335, 4-23-57, Cl. 25-41.
- Davis, Roderic A., to International Business Machines Corp. Magnetic storage keyboard. 2,814,031, 11-19-57, Cl. 340-174.
- Davis, Rodger W., to Republic Aviation Corp. Gun feed mechanism. 2,815,699, 12-10-57, Cl. 89-33.
- Davis, Roscoe T., to De Moulin Bros. & Co. Cap ornament and plume holder. Re. 24,277, 2-19-57, Cl. 41-34.
- Davis, Ross A. Universal auto radio control or the like. 2,799,170, 7-16-57, Cl. 74-10.45.
- Davis, Ross A. Sequential coupler for radio frequency circuits or the like. 2,815,442, 12-3-57, Cl. 250-20.
- Davis, Ross A. R-F circuit selector or the like. 2,815,443, 12-3-57, Cl. 250-20.
- Davis, Roy E.: See—
- Shapiro, Wallace H., and Davis. 2,815,896.
- Davis, Roy S. Egg grading machine. 2,783,883, 3-5-57, Cl. 209-121.
- Davis, Russell: See—
- Kieffer, Dale C., Davis, and Powers. 2,798,801.
- Davis, Sidney H. A. Hammerstein, and P. H. Savet, to American Bosch Arms Corp. Electrical circuit using thermal elements. 2,810,885, 10-22-57, Cl. 332-4.
- Davis, Theodore, to Vought Aircraft, Inc. Supersonic flight control device. 2,805,032, 9-3-57, Cl. 244-75.
- Davis, Thomas H., to Buck Enterprises, Inc. Condiment dispenser. 2,788,918, 4-16-57, Cl. 222-78.
- Davis, Vance J., to United States Rubber Co. Pneumatic tire. 2,781,815, 2-19-57, Cl. 152-352.
- Davis, Walter E. and M. E. Abrasion machine. 2,810,240, 10-22-57, Cl. 51-170.
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- Beardsell, Wallace A., Davis, and Hood. 2,775,792.
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- Davis, Will J. Tire bead breaking hand tool. 2,785,740, 3-19-57, Cl. 157-1.17.
- Davis, William A. Hydraulic distant precision movement control device. 2,784,703, 3-12-57, Cl. 121-41.
- Davis, William C.: See—
- Brandt, William E., and Davis. 2,797,279.
- Rogers, Benjamin T., Jr., and Davis. 2,816,476.
- Davis, William E. Automatic control apparatus for refrigeration system. 2,778,196, 1-22-57, Cl. 62-33.
- Davis, William E., and A. and O. W. Scott; said A. and O. W. Scott assigns, to said Davis. Tobacco harvesters. 2,786,585, 3-26-57, Cl. 214-5.5.
- Davis, William E., and B. J. Whitmire, to Whitmire Research Laboratories, Inc. Aerosol bomb valve and guard. 2,811,289, 10-29-57, Cl. 222-394.
- Davis, William J.: See—
- Stott, Louis L., and Davis. 2,808,622.
- Davis, William J., to The Polymer Corp. Formation of elongated thermoplastic shapes in vibratory forming tube. 2,802,237, 8-13-57, Cl. 18-12.
- Davis, William L., to Hamilton Watch Co. Emergency power system. 2,796,536, 6-18-57, Cl. 307-64.
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- Davis, William R., and J. H. Deery, to Detroit Controls Corp. Single-pole, multi-contact mercury jet switch. 2,782,273, 2-19-57, Cl. 200-32.
- Davis, Willis J., to Sesame Container Corp. Case. 2,804,202, 8-27-57, Cl. 206-62.
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- Schulze, Richard B., Hessler, Davison, and Winter. 2,796,253.
- Davison, Joseph W.: See—
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- Sattler, Robert E., and Davison. 2,812,830.
- Davison, Joseph W., to Phillips Petroleum Co. Separation and recovery of ethylene. 2,777,305, 1-15-57, Cl. 62-175.5.
- Davison, Sally L.: See—
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- Davissou, Jacob W.: See—
- Shull, Gilbert M., Kita, and Davissou. 2,783,255.
- Davissou, Kenneth R.: See—
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- Davy, John C., and M. J. Coote, to Powers-Samas Accounting Machines Ltd. Apparatus for stacking cards. 2,797,920, 7-2-57, Cl. 271-87.
- Dawes, William A., and W. H. Copley, to Sir James Farmer Norton & Co. Ltd. Sampler for dyeing machines. 2,815,664, 12-10-57, Cl. 73-423.
- Dawkins, Doris: See—
- Dawkins, William V. and D. 2,797,718.
- Dawkins, William V. and D. Food sieving and mashing machines. 2,797,718, 7-2-57, Cl. 146-175.
- Dawkins, Kenneth, to Gould-National Batteries, Inc. Electrolyte dispensing apparatus. 2,781,064, 2-12-57, Cl. 141-54.
- Dawson, Arden H., Jr. Process and apparatus for preventing loss of circulation of drilling fluid. 2,815,190, 12-3-57, Cl. 255-1.8.
- Dawson, Bertrum L., 15% each to J. P. Thornton and W. M. Plante. Steam iron. 2,792,652, 5-21-57, Cl. 38-77.
- Dawson, Eric: See—
- Piper, Ronald N., and Dawson. 2,811,309.
- Dawson, Harvey B.: See—
- Demos, Nicholas, and Dawson. 2,797,122.
- Dawson, James R. Fixture for jet engine burners for locating the position of the inner liner relative to the other tube. 2,786,371, 3-26-57, Cl. 77-62.
- Dawson, Jesse N. Expanding fish hook. 2,810,230, 10-22-57, Cl. 43-37.
- Dawson, John H. Bake pans. 2,810,338, 10-22-57, Cl. 99-428.
- Dawson, John W., to Sylvania Electric Products Inc. Terminal lead construction and method, and semiconductor unit. 2,790,941, 4-30-57, Cl. 317-236.
- Dawson, Maynard H., to Sylvania Electric Products Inc. Processing of alloy junction devices. 2,788,300, 4-9-57, Cl. 148-1.5.
- Dawson, Maynard H., and N. J. Golden, to Sylvania Electric Products Inc. Method of forming junction transistors. 2,788,299, 4-9-57, Cl. 148-1.5.
- Dawson, Robert A. J. Marine apparatus. Re. 24,346, 8-20-57, Cl. 61-46.5.
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- Stern, Robert G., and Dawson. 2,808,658.
- Dawson, William J. Tool for splitting growing tobacco plants. 2,808,683, 10-8-57, Cl. 47-1.
- Day, Carl L., and F. E. Fauth, to Crown Cork & Seal Co., Inc. Filling head. 2,783,785, 3-5-57, Cl. 141-48.
- Day, Carl L., and J. G. Voelker, to Crown Cork & Seal Co., Inc. Valve trip controlling mechanism for filling machines. 2,783,787, 3-5-57, Cl. 141-141.
- Day, Carl L., and R. C. Albrecht, to Crown Cork & Seal Co., Inc. Fluid analyzing system and sampling device. 2,786,355, 3-26-57, Cl. 73-421.5.
- Day, Carl L., K. W. Lynch, and J. E. Freeze, to Crown Cork & Seal Co., Inc. Container filling apparatus. 2,786,601, 3-26-57, Cl. 222-50.
- Day, Carl L., and R. H. Breeback, to Crown Cork & Seal Co., Inc. Container filling machine with means to control the level of fill. 2,794,455, 6-4-57, Cl. 141-234.
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- Wright, Walter W., Welch, and Day. 2,815,464.
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- Stanley, Robert F., and Day. 2,781,977.
- Day, Harold M., V. E. Hasler, and W. S. Forster, to American Cyanamid Co. Stabilization of mixtures of unsaturated polyesters and copolymerizable monomers by means of hydroxy substituted benzophenones. 2,777,828, 1-15-57, Cl. 260-45.4.

- Day, Jean, and M. Calis, to Compagnie Generale de Telegraphie Sans Fil. Ceramic dielectric with high dielectric constant and process of making the same. 2,776,898, 1-8-57, Cl. 106-39.
- Day, John T., to Merck & Co., Inc. Hydrolysis of steroid semicarbazone. 2,781,367, 2-12-57, Cl. 260-397.45.
- Day, Ray E. Piston. 2,802,707, 8-13-57, Cl. 309-12.
- Day, Ray E. Piston. 2,802,708, 8-13-57, Cl. 309-12.
- Day, Robert G., to General Electric Co. Regulated power supply. 2,790,133, 4-23-57, Cl. 323-22.
- Day, Thomas G., and G. F. Hurley, to Union Carbide and Carbon corp. Halogen inhibited synthesis of hydrocarbons. 2,778,844, 1-22-57, Cl. 260-449.6.
- Daykin, Donald R., to International Business Machines Corp. Counter for shaft position indicator. 2,814,442, 11-26-57, Cl. 235-92.
- Daystrom Instrument Division of Daystrom, Inc.: See—Julie, Joel. 2,811,588.
- Dayton Abrasive Products, Inc.: See—Field, Henry M. 2,800,750.
- Dayton, Arthur B., Jr., to The Risdon Mfg. Co. Apparatus for producing decorative finishes on articles. 2,817,930, 12-31-57, Cl. 51-135.
- Dayton Bright Copper Co., The: See—Beaver, John F., and Abbott. 2,805,194.
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- Dayton, Warren W. Ash tray. 2,808,061, 10-1-57, Cl. 131-240.
- Dayvault, John O., Sr. Replaceable bearing elements for cap bars of drafting machines. 2,794,215, 6-4-57, Cl. 19-134.
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- Dazey, Everett O. L. Beverage coolers. 2,794,333, 6-4-57, Cl. 62-143.
- Dazey, Harry D. Envelope box display. 2,801,481, 8-6-57, Cl. 40-121.
- Dazey, Russell L., and J. E. Solecki, to Western Electric Co., Inc. Conveyors. 2,813,614, 11-19-57, Cl. 198-21.
- Dazzi, Joachim, to Monsanto Chemical Co. Isononylphenyl-n-octanesulfonate. 2,782,217, 2-19-57, Cl. 260-456.
- Dazzi, Joachim, to Monsanto Chemical Co. Polycarboxylates. 2,782,227, 2-19-57, Cl. 260-485.
- Dazzi, Joachim, to Monsanto Chemical Co. Preparation of adducts of liquid, linear polybutadiene and esters of itaconic and aconitic acids. 2,782,228, 2-19-57, Cl. 260-485.
- Dazzi, Joachim, to Monsanto Chemical Co. Preparation of adducts of liquid linear polybutadiene and fumaric acid esters. 2,782,229, 2-19-57, Cl. 260-485.
- Dazzi, Joachim, to Monsanto Chemical Co. Plasticized vinyl chloride polymers. 2,786,039, 3-19-57, Cl. 260-23.
- Dazzi, Joachim, to Monsanto Chemical Co. Emulsion paints. 2,786,040, 3-19-57, Cl. 260-29.6.
- Dazzi, Joachim, to Monsanto Chemical Co. Plasticized vinyl chloride polymers. 2,786,041, 3-19-57, Cl. 260-31.4.
- Dazzi, Joachim, to Monsanto Chemical Co. Polycarboxylates. 2,792,408, 5-14-57, Cl. 260-347.4.
- Dazzi, Joachim, to Monsanto Chemical Co. Polycarboxylates. 2,802,016, 8-6-57, Cl. 260-404.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride polymers plasticized with tetra-alkyl alkenetetra carboxylates. 2,806,011, 9-10-57, Cl. 260-31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride resin plasticized with tris (tetrahydrofurfuryl) (1',2'-dicarboxyethyl) octadecenoate. 2,809,947, 10-15-57, Cl. 260-23.
- Dazzi, Joachim, to Monsanto Chemical Co. Polyvinyl chloride plasticized with a cyanodicarboxylic acid ester. 2,813,542, 11-19-57, Cl. 260-31.8.
- D'Azzo, Errol P. Pipe joint assembly with internal clamping means. 2,794,660, 6-4-57, Cl. 287-54.
- D'Azzo, Errol P. Loading dock canopy. 2,798,502, 7-9-57, Cl. 135-5.
- D'Azzo, Errol P. Canopy and awning moulding and supports. 2,799,464, 7-16-57, Cl. 248-273.
- Deactivator, Inc.: See—Anderson, Thomas A. 2,787,680.
- Deady, Emmett F.: See—Blake, James C. Deady, and Hasko. 2,811,976.
- Deakin Gears Ltd.: See—Deakin, Thomas M. 2,788,618.
- Deakin, Stanley T., to The Edison Swan Electric Co. Ltd. Manufacture of electrical socket contacts. 2,779,011, 1-22-57, Cl. 339-258.
- Deakin, Stanley T., to The Edison Swan Electric Co. Ltd. Holders for thermionic valves. 2,802,996, 8-13-57, Cl. 339-90.
- Deakin, Thomas M., to Deakin Gears Ltd. Bevel gear generating machine. 2,788,618, 4-16-57, Cl. 51-56.
- Deakin, Thomas M. Bevel gear generating machines. 2,794,302, 6-4-57, Cl. 51-56.
- Deakin, Thomas M. Diamond truing devices. 2,797,678, 7-2-57, Cl. 125-11.
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- Deakins, Thomas A.: See—Lasater, John A., and Deakins. 2,778,164.
- Deal, Forest C. Voltage regulator compensating voltage and frequency changes. 2,777,987, 1-15-57, Cl. 323-56.
- Deal, Harmon B., to Radio Corp. of America. Circuitry for overcoming raster bending. 2,810,093, 10-15-57, Cl. 315-27.
- Dean, Clayton McK., to Pullman-Standard Car Mfg. Co. Railway car side frame construction. 2,814,997, 12-3-57, Cl. 105-418.
- Dean, Albert G., to The Budd Co. Face plate mounting, especially for railway cars. 2,794,401, 6-4-57, Cl. 105-10.
- Dean, Albert G., to The Budd Co. Signal pick-up and tread-cleaning shunt block and connections. 2,809,242, 10-8-57, Cl. 191-45.
- Dean, Albert G., to The Budd Co. Marginal rail for cover strip retaining panels, especially for railway car. 2,815,722, 12-10-57, Cl. 105-401.
- Dean, Albert G., to The Budd Co. Reinforced bottom structure for railway cars and similar vehicles. 2,815,723, 12-10-57, Cl. 105-422.
- Dean, Alfred V.: See—Lyman, Charles E., III, and Dean. 2,794,359.
- Dean, Charles A.: See—Phillips, Charles E. 2,817,751.
- Phillips, Charles E., and Frade. 2,805,322.
- Dean, Charles A. Under-reamers. 2,790,625, 4-30-57, Cl. 255-76.
- Dean, Franklin R.: See—West, Charles F., Smith, and Dean. 2,802,101.
- Dean, Fred, to Imperial Chemical Industries Ltd. Production of nonyl alcohols and esters thereof. 2,792,417, 5-14-57, Cl. 260-475.
- Dean, George W., to Rockwell Mfg. Co. Rotor vane control. 2,811,928, 11-5-57, Cl. 103-143.
- Dean, Gilbert O. Toilet case. 2,807,515, 9-24-57, Cl. 312-227.
- Dean, John A. Spray head. 2,789,010, 4-16-57, Cl. 299-84.
- Dean, John A. Soil irrigator. 2,808,013, 10-1-57, Cl. 111-7.1.
- Dean, Kenneth R., to General Electric Co. Light projection device. 2,791,713, 5-7-57, Cl. 313-115.
- Dean, Lloyd E.: See—Forkel, Curt E., Hall, and Dean. 2,784,066.
- Hall, Dick S., and Dean. 2,806,744.
- Dean, Nelson L.: See—Stinson, Lawrence W., Thompson, and Dean. 2,800,628.
- Dean, Peter P. Reciprocating screw actuator. 2,817,979, 12-31-57, Cl. 74-424.8.
- Dean, Reginald S., to Chicago Development Corp. Process for producing titanium. 2,783,192, 2-26-57, Cl. 204-10.
- Dean, Reginald S., to Chicago Development Corp. Solid plates of titanium and zirconium. 2,785,066, 3-12-57, Cl. 75-175.5.
- Dean, Reginald S. Electrodepositing manganese. 2,798,038, 7-2-57, Cl. 204-45.
- Dean, Reginald S. Producing electrolytic manganese. 2,814,591, 11-26-57, Cl. 204-105.
- Dean, Reginald S., to Chicago Development Corp. Power transmission. 2,817,243, 12-24-57, Cl. 74-214.
- Dean, Reginald S., to Chicago Development Corp. Methods of producing titanium and zirconium. 2,817,630, 12-24-57, Cl. 204-64.
- Dean, Robert B., to The Borden Co. Process and composition for improving casein. 2,810,655, 10-22-57, Cl. 106-146.
- Dean, Wallace R. Cabinet door clamps. 2,803,278, 8-20-57, Cl. 144-297.
- Dean, Walter B., to The Budd Co. Box sectional sill particularly for automobile chassis frames. 2,784,983, 3-12-57, Cl. 280-106.
- Dean, William H., Jr., to Deering Milliken Research Corp. Roll doffing truck. 2,799,415, 7-16-57, Cl. 214-350.
- De Angelis, Angelo C., to Standard Electronics Corp. Travel iron. 2,811,794, 11-5-57, Cl. 38-90.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Standard Electronics Corp. Electric mixer. 2,812,166, 11-5-57, Cl. 259-135.

- De Angelis, Armand, to American Optical Co. Ophthalmic mounts. 2,794,085, 5-28-57, Cl. 200—61.58.
- De Angelis, Armand, and H. C. Timpf, to American Optical Co. Ophthalmic mountings. 2,803,994, 8-27-57, Cl. 88—41.
- Deanin, Rudolph D., to Allied Chemical & Dye Corp. Pressure-sensitive adhesive sheet materials prepared from butadiene polymer emulsions. 2,783,166, 2-26-57, Cl. 117—122.
- Deans, Frederick E., and C. H. Wainwright, to The Bentley Engineering Co. Ltd. Circular knitting machine. 2,812,649, 11-12-57, Cl. 66—14.
- Deans, William A., $\frac{1}{2}$ to W. C. Herring. Vehicle control mechanism. 2,807,341, 9-24-57, Cl. 192—13.
- Dear, John C., to Olin Mathieson Chemical Corp. Apparatus for recovering projectiles. 2,815,955, 12-10-57, Cl. 273—102.4.
- Dearborn Chemical Co.: See—
- Crum, Ferris B., and Wilkes. 2,783,200.
- Johnson, Samuel C. 2,801,941.
- Rosenberg, Henry C. 2,788,369.
- Dearborn, William H., Jr.: See—
- Hittie, Herbert W., and Dearborn. 2,781,932.
- Dearden, Harold V., to Beloit Iron Works. Paper-making machines. 2,780,967, 2-12-57, Cl. 92—44.
- Deardorff, Dwight L.: See—
- Doerr, Dale W. Series, and Deardorff. 2,816,061.
- Doerr, Dale W. Series, and Deardorff. 2,816,062.
- Dearing, Le Roy M., and D. H. Kelly, to Technicolor Corp. Optical system for relating color component images. 2,809,570, 10-15-57, Cl. 95—12.2.
- Dearing, Rogers K.: See—
- Groff, Frazier, and Dearing. 2,789,962.
- Dearmond, Sammie B. Pedal propelling attachment for boats. 2,775,950, 1-1-57, Cl. 115—25.
- Deardsley, George, to American Machine & Foundry Co. Cigarette making machine. 2,791,222, 5-7-57, Cl. 131—109.
- Deardsley, George, to American Machine & Foundry Co. Cigarette machine feed. 2,795,229, 6-11-57, Cl. 131—109.
- Dearth, Ronald E. Automatic auxiliary tuning device. 2,788,694, 4-16-57, Cl. 84—312.
- Deas, Vann J., Jr., to General Electric Co. Electric oven control system. 2,806,120, 9-10-57, Cl. 219—20.
- Deatherage, Fred E. Method of preserving meat. 2,786,768, 3-26-57, Cl. 99—157.
- Deaton, Charles U. Stenographer's desk. 2,793,926, 5-28-57, Cl. 312—194.
- Deaton, Charles U., and C. D. Graber, to Diebold, Inc. Hinge construction. 2,786,228, 3-26-57, Cl. 16—131.
- Deaton, Charles U., and C. D. Graber, to Diebold, Inc. Separable door and frame engaging mechanism. 2,786,431, 3-26-57, Cl. 109—62.
- Deaton, Forrest E., and C. Bingenheimer, to Burlington Industries, Inc. Yarn carrier rod alternating attachment for knitting machines. 2,790,314, 4-30-57, Cl. 66—127.
- Deaves, Stanley G., to The British Tyre & Rubber Co. Ltd. Conveyor belts. 2,793,150, 5-21-57, Cl. 154—52.1.
- De Ayerbe, Adalberto P. Folding brush. 2,814,819, 12-3-57, Cl. 15—203.
- De Back, William, and S. Puccinelli, to Food Machinery and Chemical Corp. Fruit preparation machine. 2,789,603, 4-23-57, Cl. 146—43.
- De Back, William, and S. A. Mencacci, to Food Machinery and Chemical Corp. Apparatus for treating canned goods. 2,789,795, 4-23-57, Cl. 257—23.
- De Baun, William H., to The Salvajor Co. Garbage and tableware separating equipment and method using motivating water jets. 2,786,001, 3-19-57, Cl. 134—34.
- De Beaubien, William J., H. S. Kaiser, and J. R. Holmes, to General Motors Corp. Air conditioning systems for vehicles. 2,810,270, 10-22-57, Cl. 62—117.1.
- Debbink, Claude J. Prefabricated building construction. 2,777,172, 1-15-57, Cl. 20—4.
- Debel, Charles A., to the United States of America as represented by the Secretary of the Navy. Variable bandwidth constant peak-amplitude discriminator. 2,817,756, 12-24-57, Cl. 250—27.
- De Bell, John M., Jr., to Allen B. Du Mont Laboratories, Inc. Electrical filter. 2,808,573, 10-1-57, Cl. 333—73.
- De Benedictis, Aldo: See—
- Finch, Harry De V., and De Benedictis. 2,779,801.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. N-trialkylcarbinyl-N-(hydroxyethylpolyoxyethyl)glycines. 2,786,869, 3-26-57, Cl. 260—534.
- De Benneville, Peter L., and L. J. Exner, to Rohm & Haas Co. Process for controlling films employing N-tert-octyl-N-cyano-methyl cyanamide. 2,810,675, 10-22-57, Cl. 167—22.
- De Bie, Piet, to Shell Development Co. Fastener for bubble caps. 2,797,907, 7-2-57, Cl. 261—114.
- De Boer, Willis: See—
- Polidor, Edward C., de Boer, and Betts. 2,789,354.
- De Boisblanc, Deslonde R., to Phillips Petroleum Co. Apparatus for determining the condition of ionized fluids. 2,779,917, 1-29-57, Cl. 324—40.
- De Boisblanc, Deslonde R., to Phillips Petroleum Co. Vacuum tube voltmeter. 2,789,269, 4-16-57, Cl. 324—123.
- De Boisblanc, Deslonde R., to Phillips Petroleum Co. Flame detection and control in aircraft engines. 2,799,136, 7-16-57, Cl. 60—35.6.
- De Boisblanc, Felix J. Concrete form. 2,788,560, 4-16-57, Cl. 25—131.
- De Boliac, Eugene. Cable reel carriers. 2,793,773, 5-28-57, Cl. 214—390.
- De Boo, Jerome L., to Teletype Corp. Telegraph transmitter. 2,781,415, 2-12-57, Cl. 178—17.
- Debor, Hermann, to Mannesmann Aktiengesellschaft. Process for the manufacture of containers of the bulb and neck type for storing gases under high pressure. 2,799,084, 7-16-57, Cl. 29—421.
- De Borde, Donald D.: See—
- Selcer, William H., and De Borde. 2,816,130.
- De Bourges, Jacques, to Paul Defontenay. Speed regulating brake for reels. 2,813,601, 11-19-57, Cl. 188—92.
- Debrie, André V. L. C. Means of correcting illumination for printing color films. 2,777,359, 1-15-57, Cl. 88—24.
- Debrie, André V. L. C. Means for the continuous printing of colored films. 2,780,155, 2-5-57, Cl. 95—75.
- De Bruin, Adrian, to Simmons Co. Sofa bed lock. 2,817,100, 12-24-57, Cl. 5—13.
- De Bruyne, Norman A., to Techne (Cambridge) Ltd. Thermostats. 2,795,686, 6-11-57, Cl. 219—41.
- Debs, Victor. Drafting instrument. 2,800,717, 7-30-57, Cl. 33—27.
- Debut, Louis, to Etablissements Merlin & Gerin. Accumulator for mechanical energy. 2,778,450, 1-22-57, Cl. 185—37.
- Debus, Karl, to Linotype Gesellschaft mit beschränkter Haftung. Method of and apparatus for trimming matrices. 2,816,488, 12-17-57, Cl. 90—15.
- Debus, Karl, to Linotype Gesellschaft mit beschränkter Haftung. Device for compensating for tolerances in the width of matrices used in line casting machines. 2,816,649, 12-17-57, Cl. 199—47.
- Debus, Karl and R. Hörter. Device for trimming the back edge and side face of cast slugs in a matrix-composing and line casting machine. 2,816,650, 12-17-57, Cl. 199—59.
- Dec, Joseph: See—
- Bruno, Arthur J., and Dec. 2,789,096.
- De Cain, Donald J., to General Precision Laboratory Inc. Electronic tube shield. 2,799,793, 7-16-57, Cl. 313—312.
- Decalion, Maurice: See—
- Charbonnier, Roger, and Decalion. 2,812,171.
- De Camp, William H. Oil and gas well device. 2,812,024, 11-5-57, Cl. 166—76.
- De Canio, Dominick M.: See—
- Von Drasek, Joseph, and De Canio. 2,805,902.
- De Canio, Dominick M., to Universal Form Clamp Co. Liner clamp for panel forms. 2,782,483, 2-26-57, Cl. 25—131.
- De Canio, Dominick M., to Universal Form Clamp Co. Liner clamp for panel forms. 2,782,484, 2-26-57, Cl. 25—131.
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- De Capitani, Francesco. Machine for the manufacture of cigarettes provided with an inside strip which can be lighted by rubbing. 2,799,320, 7-16-57, Cl. 154—36.
- De Carbon, Christian M. L. B.: See—
- Beaumont, Henry F. 2,818,142.
- Tautz, Herbert E. 2,818,141.
- Decatur Iron & Steel Co.: See—
- Smith, Perry M., and Whitefield. 2,792,917.
- Decca Record Co. Ltd., The: See—
- Ridgers, Charles E. S. 2,802,151.
- De Cenzo, Herbert A.: See—
- Fogarty, John J., and De Cenzo. 2,795,201.
- De Cenzo, Herbert A. Convertible aircraft with jet-driven rotor. 2,780,423, 2-5-57, Cl. 244—7.
- Dechamps, Georges J. L., and F. A. G. Binon, to Societe des Laboratoires Laboz. Method of preparing butylamines-2 disubstituted in 4-position by hydroxylated aromatic radicals. 2,812,351, 11-5-57, Cl. 260—570.
- Dechary, Joseph M., R. P. Kupperman, and F. H. Thurber, to the United States of America as represented by the Secretary of Agriculture. Cottonseed oil color reversion prevention. 2,787,625, 4-2-57, Cl. 260—424.
- De Cicco, Dominic M. Light flashing wheeled figure toy. 2,817,926, 12-31-57, Cl. 46—230.
- Deckel, Friedrich W.: See—
- Fahlenberg, Paul. 2,780,971.
- Reichard, Hans, and Bauer. 2,812,694.
- Singer, Franz. 2,785,612.
- Zwick, Kurt. 2,806,390.
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- Deckel, Hans: See—
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- Reichard, Hans, and Bauer. 2,812,694.
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- Decker, Elmer L., to Martin-Decker Corp. Torque determining method. 2,775,889, 1-1-57, Cl. 73—151.
- Decker, Elmer L., to Martin-Decker Corp. Weight indicator and anchor for load sustaining lines. 2,807,957, 10-1-57, Cl. 73—143.
- Decker, Eugene M., to Isaac C. Decker, Inc. Upholstered chair with adjustable head rest. 2,781,082, 2-12-57, Cl. 155—177.
- Decker, Frederick J., and M. H. Gregg, to The Caldwell Mfg. Co. Sash balance. 2,795,810, 6-18-57, Cl. 16—198.

- Decker, Frederick J., and M. H. Gregg, to The Caldwell Mfg. Co. Window sash balance. 2,797,435, 7-2-57, Cl. 16—198.
- Decker, Frederick J., and M. H. Gregg, to The Caldwell Mfg. Co. Awning window structure. 2,807,059, 9-24-57, Cl. 20—42.
- Decker, Isaac C., Inc.: *See—*
- Decker, Eugene M. 2,781,032.
- Decker, Mae. Bird feeder and carousel. 2,801,611, 8-6-57, Cl. 119—51.
- Decker, Maurice S., Jr., to Surface Combustion Corp. Take-up and latching device. 2,816,343, 12-17-57, Cl. 24—279.
- Decker, Peter. Process and apparatus for the separation of mixtures of substances by continuous countercurrent distribution in solvents. 2,778,717, 1-22-57, Cl. 23—310.
- Decker, Ramsay P., to Collins Radio Co. UHF low noise amplifier. 2,817,719, 12-24-57, Cl. 179—171.
- Decker, Ray L. Night lamp. 2,791,998, 5-14-57, Cl. 128—1.
- Decker, Richard O.: *See—*
- Bright, Richard L., and Decker. 2,785,236.
- Horton, William F., Reisman, Decker, and Ramey. 2,792,547.
- Decker, Richard O., to Westinghouse Electric Corp. Phase shifter for motor control systems and the like. 2,813,247, 11-12-57, Cl. 323—127.
- Decker, William H.: *See—*
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- De Cola, Rinaldo E., and C. E. Honeywell, to Admiral Corp. Reflex amplifier circuits. 2,778,932, 1-22-57, Cl. 250—20.
- Decora Corp., The: *See—*
- Smith, Frank M. and L. H. 2,783,175.
- De Corso, Serafino, and C. E. Seglem, to the United States of America as represented by the Secretary of the Navy. Combustion conduit and igniter structure. 2,784,553, 3-12-57, Cl. 60—39.82.
- De Cowsky, George N., R. C. De Marco, and J. E. Johnson. Cathodic protection system. 2,803,602, 8-20-57, Cl. 204—196.
- De Crescenzo, Anthony. Electric target toy. 2,793,860, 5-28-57, Cl. 273—95.
- Deddo, Daniel G. Method of making prefabricated upholstery material. 2,809,910, 10-15-57, Cl. 154—106.
- De Dionigi, Luigi. Progressive hydraulic transmission. 2,787,356, 4-2-57, Cl. 192—60.
- Dedmon, James F. Collapsible crate. 2,778,523, 1-22-57, Cl. 217—43.
- Dedmon, James F. Wire bound folding crate. 2,799,420, 7-16-57, Cl. 217—48.
- Dedoes, Arnold A. Reversible drawer and door pulls and latches. 2,780,485, 2-5-57, Cl. 292—169.
- Deebel, George F., and P. H. Santmyer, to Monsanto Chemical Co. Method of destroying nematodes employing thioalkylamines. 2,818,365, 12-31-57, Cl. 167—22.
- Deedman, Alfred R.: *See—*
- Ludwig, Carl, Wheeler, and Deedman. 2,793,623.
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- Deeley-Jones, Arnold E., to General Motors Corp. Dual hood latch. 2,807,491, 9-24-57, Cl. 292—304.
- Deen, James R.: *See—*
- Landee, Robert W., Hayes, Deen, and Johnson. 2,796,603.
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- Deep Dye Industries, Inc.: *See—*
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- Vogelaar, Bernard F. 2,801,511.
- Deere & Co.: *See—Continued*
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- Wadleton, Edwin F. 2,783,618.
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- Deere, John, Killefer Co.: *See—*
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- Deere, John, Plow Co. (Ltd.): *See—*
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- Northcote, John A., and Kirkpatrick. 2,785,619.
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- Deere, John, Van Brunt Co.: *See—*
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- Starr, John H. 2,791,127.
- Deere Mfg. Co.: *See—*
- Andrews, Norman F. 2,807,925.
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- Skromme, Arnold B. 2,795,912.
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- Slavens, Wayne E. 2,779,148.
- Thomann, Fred A. 2,803,938.
- Wittren, Richard A. 2,808,040.
- Deeren, Thomas J., to Owens-Illinois Glass Co. Shipping containers. 2,790,588, 4-30-57, Cl. 229—14.
- Deeren, Thomas J., and R. M. Young, to Owens-Illinois Glass Co. Bottle carrier. 2,812,878, 11-12-57, Cl. 220—115.
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- Borges, Frank E., Jr. 2,795,924.
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- Driskell, Ernest B. 2,791,983.
- Evans, Cyril G. 2,796,318.
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- Ingham, Robert M., Jr. 2,815,773.
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- Klein, Norman E. 2,776,805.
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- Massey, John M. 2,790,611.
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- Rochester, Roy M., and Beattie. 2,779,726.
- Smith, Philip N. 2,787,044.
- Deery, James H.: *See—*
- Davis, William R., and Deery. 2,782,273.
- Deeter, Wendell F.: *See—*
- Brown, Charles T., Dinsmore, and Deeter. 2,807,527.
- De Falco, Angelo, to Falcon Electronics Corp. Time delay control device. 2,817,731, 12-24-57, Cl. 200—122.
- De Faymoreau, Etienne, and M. Mandel, to International Telephone and Telegraph Corp. Pulse repetition rate selector. 2,795,775, 6-11-57, Cl. 340—171.
- De Faymoreau, Etienne, to International Telephone and Telegraph Corp. Servomotor control system. 2,810,874, 10-22-57, Cl. 318—28.
- De Faymoreau, Etienne, to International Telephone and Telegraph Corp. Electromechanical delay device. 2,815,490, 12-3-57, Cl. 333—30.
- De Faymoreau, Etienne, to International Telephone and Telegraph Corp. Signaling system. 2,815,507, 12-3-57, Cl. 343—106.
- De Fazi, Fulvio. Adjustable tool holder. 2,803,053, 8-20-57, Cl. 29—98.
- De Fazio, Michael J. Can opener. 2,809,765, 10-15-57, Cl. 220—52.
- De Felice, Anthony. Air pressure eye cup. 2,818,068, 12-31-57, Cl. 128—249.
- De Felice, Orlando, 12½% to E. M. Farrell, 12½% to F. E. Malloy, and 15% to A. D'Alessandro. Rotatable outdoor advertising projection display billboard device. 2,796,802, 6-25-57, Cl. 88—24.
- Defensor A. G.: *See—*
- Flury, Karl. 2,805,284.

- Deffenbaugh, James F., to The Federal Machine and Welder Co. Induction heating. 2,815,425, 12-3-57, Cl. 219-10.41.
- De Fligüe, Wladimir, and P. L. Lavallée; said Lavallée assor. to said de Fligüe. Electro-magnetic devices. 2,814,764, 11-26-57, Cl. 317-165.
- De Fligüe, Wladimir, and P. L. Lavallée. Polarised relays. 2,817,796, 12-24-57, Cl. 317-172.
- Defontenay, Paul: See—
- De Bourges, Jacques. 2,813,601.
- De Ford, Devoc C., to H. & A. Selmer, Inc. Key mechanism for musical instruments. 2,775,915, 1-1-57, Cl. 84-380.
- De Ford, Perl E., ½ to E. A. Tolman. Hydraulic drive. 2,781,675, 2-19-57, Cl. 74-677.
- De Ford, Perl E., 50% to E. A. Tolman. Combined hydraulic and planetary gear transmission. 2,783,660, 3-5-57, Cl. 74-688.
- DeForest, Lee. Automatic dialing device for dial telephones. 2,813,931, 11-19-57, Cl. 179-90.
- De Forest, Taber, and D. W. Parker, to Switzer Brothers, Inc. Method of detecting surface discontinuities. 2,806,959, 9-17-57, Cl. 250-71.
- Defraiture, Louis J. M. I., to Ateliers Houget Societe Anonyme Vervetouse pour la Construction de Machines. Two or more shuttle looms with automatic weft supply. 2,814,316, 11-26-57, Cl. 139-232.
- De France, Henri, to Societe Nouvelle de L'Outillage R. B. V. et de la Radio-Industrie (R. B. V.-R. I.). Reduced bandwidth television system. 2,786,887, 3-26-57, Cl. 178-6.7.
- De Francesco, Joseph A. Auxiliary compartment spare wheel support. 2,788,239, 4-9-57, Cl. 296-37.2.
- De Francisci Machine Corp.: See—
- Coffaro, John. 2,804,697.
- De Frees, Anne: See—
- De Frees, Joseph H. 2,783,913.
- De Frees, Joseph H., to A. De Frees. Manhole cover attaching means. 2,783,913, 3-5-57, Cl. 220-46.
- De Fusco, John S.: See—
- Swanson, Harry G., and De Fusco. 2,806,132.
- De Gail, Marc L.: See—
- Schaan, José L., De Gail, and Barea. 2,807,989.
- De Gail, Marc L., to E. M. Lamort Fils. Device with an unbalance element. 2,778,231, 1-22-57, Cl. 74-87.
- De Ganahl, Carl: See—
- Kleiner, Walter B., Carmichael, and de Ganahl. 2,815,043.
- De Ganahl, Carl, W. B. Kleiner, and G. N. Carmichael, said Kleiner and said Carmichael, to said de Ganahl. Method of making molded plastic articles. 2,815,309, 12-3-57, Cl. 154-110.
- De Garmo, Oliver, and E. J. McMullen, to Monsanto Chemical Co. Method of making para-aminobenzaldehyde. 2,795,614, 6-11-57, Cl. 260-580.
- De Gelleke, Gerrit, to Cameron Machine Co. Cutter holding and actuating means for web-slitting machines. 2,796,933, 6-25-57, Cl. 164-207.
- Deger, Thomas E., to Pennsalt Chemicals Corp. Process for the production of oil soluble amine complexes and compositions containing such complexes. 2,805,996, 9-10-57, Cl. 252-33.6.
- Degg, Edwin P.: See—
- Cantrell, John, Degg, and Nobes. 2,782,110.
- De Giacomo, Ernest L. Archery bow. 2,815,015, 12-3-57, Cl. 124-23.
- Degman, John T., to Poor & Co. Reinforced end posts for railway track. 2,808,995, 10-8-57, Cl. 238-153.
- Degorski, Stanislaw D.: See—
- Laturski, Thaddeus S., and Degorski. 2,794,281.
- De Götzten, Giuseppe, to Soc. R. L. Elchim (Selchim). Hand brush with vacuum cleaner. 2,809,390, 10-15-57, Cl. 15-344.
- De Graaf, Maurice, and C. J. Falcon, to The Rapids-Standard Co., Inc. Conveyorized storage racks. 2,786,578, 3-26-57, Cl. 211-49.
- De Graff, Peter G.: See—
- Hecht, Herbert, and De Graff. 2,812,487.
- De Grave, Charles J., Jr., to Bausch & Lomb Optical Co. Comparison magnifier. 2,808,761, 10-8-57, Cl. 88-39.
- De Grave, Charles J., Jr., to Bausch & Lomb Optical Co. Lens mounting means. 2,808,762, 10-8-57, Cl. 88-57.
- De Grazia, Joseph. Stay mounting means for head coverings. 2,799,863, 7-23-57, Cl. 2-195.
- De Grazia, Joseph. Convertible garment collar. 2,810,130, 10-22-57, Cl. 2-116.
- De Groat, Charles T., to General Electric Co. Leak detection apparatus. 2,792,854, 5-21-57, Cl. 141-65.
- De Groat, Charles T., to General Electric Co. Gas charging apparatus. 2,805,689, 9-10-57, Cl. 141-66.
- De Groff, Arthur. Turnover float. 2,779,122, 1-29-57, Cl. 43-44.9.
- De Groff, William B., to Aro Equipment Corp. Pneumatic drill construction. 2,811,877, 11-5-57, Cl. 77-33.5.
- De Groote, Melvin, to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated amine-modified thermoplastic phenol-aldehyde resins. 2,792,358, 5-14-57, Cl. 252-341.
- De Groote, Melvin, to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated amine-modified thermoplastic phenol-aldehyde resins. 2,792,359, 5-14-57, Cl. 252-341.
- De Groote, Melvin, to Petrolite Corp. Process for breaking petroleum emulsions employing certain amine-modified thermoplastic phenol-aldehyde resins. 2,792,365, 5-14-57, Cl. 252-344.
- De Groote, Melvin, to Petrolite Corp. Process for breaking petroleum emulsions employing amine-modified thermoplastic phenol-aldehyde resins. 2,792,366, 5-14-57, Cl. 252-344.
- De Groote, Melvin, to Petrolite Corp. Reaction products of carboxylated phenol-aldehyde resins and amine-modified phenol-aldehyde resins. 2,792,379, 5-14-57, Cl. 260-45.
- De Groote, Melvin, and J. Cheng, to Petrolite Corp. Process for preventing corrosion, corrosion inhibitors and certain cogenetic mixtures containing cyclic amidines. 2,781,352, 2-12-57, Cl. 260-309.6.
- De Groote, Melvin, and A. H. Smith, to Petrolite Corp. Process for breaking petroleum emulsions employing oxyalkylation derivatives of certain phenolic resins. 2,792,351, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing oxyalkylation derivatives of certain polyepoxide modified phenol-aldehyde resins. 2,792,352, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide-modified oxyalkylated phenol-aldehyde resins. 2,792,353, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide-modified oxyalkylation derivatives of certain polyols having at least three hydroxyls. 2,792,354, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide modified oxyalkylation derivatives, said derivatives obtained in turn by oxyalkylation of phenol-aldehyde resins. 2,792,355, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide modified oxyalkylation derivatives, said derivatives obtained in turn by oxyalkylation of phenol-aldehyde resins. 2,792,356, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide modified oxyalkylation derivatives, said derivatives obtained in turn by oxyalkylation of phenol-aldehyde resins. 2,792,357, 5-14-57, Cl. 252-331.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide treated derivatives obtained by reaction of monoepoxides with resins. 2,792,360, 5-14-57, Cl. 252-344.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide treated derivatives obtained by reaction of monoepoxides with resins. 2,792,361, 5-14-57, Cl. 252-344.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide treated derivatives obtained by reaction of monoepoxides with resins. 2,792,362, 5-14-57, Cl. 252-344.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain polyepoxide treated derivatives obtained by reaction of monoepoxides with resins. 2,792,363, 5-14-57, Cl. 252-344.
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- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylation products derived in turn from reactive nitrogen containing compounds. 2,792,367, 5-14-57, Cl. 252-344.
- De Groote, Melvin, and A. H. Smith, to Petrolite Corp. Process for breaking petroleum emulsions employing cyanoethylated derivatives of certain oxyalkylated resins. 2,792,368, 5-14-57, Cl. 252-344.
- De Groote, Melvin, and B. Keiser, to Petrolite Corp. Certain quaternary ammonium compounds. 2,792,400, 5-14-57, Cl. 260-295.
- De Groote, Raymond S.: See—
- Carroll, Frank E., Jr., De Groote, and Hall. 2,809,810.
- De Haan, Jacob I.: See—
- Schenkel, Gerrit, and de Haan. 2,778,440.
- De Harasthy, Stephen: See—
- Von Sosdy, Ivan. 2,809,632.
- De Hart, Arnold O.: See—
- Fleming, James D., and De Hart. 2,817,562.
- De Hart, Edward S., and J. L. Elam, to Food Machinery and Chemical Corp. Tire tread cutting machine. 2,816,606, 12-17-57, Cl. 164-10.2.
- De Haven, La Vern H., to Feng Inc. Ornamental figures for Christmas. 2,809,455, 10-15-57, Cl. 41-10.
- De Havilland Engine Co. Ltd.: See—
- Halford, Frank B., and Clarke. 2,778,564.
- Halford, Frank B., Clarke, and Barratt. 2,807,433.
- Halford, Frank B., and Wilson. 2,795,393.

- De Havilland Propellers Ltd.: *See*—
Perdue, Robert J. 2,784,556.
- De Heer, Henri J., to Stamicarbon N. V. Heat input stabilization. 2,780,414, 2-5-57, Cl. 236—15.
- Dehmel, Richard C. Control loading simulating apparatus for flight trainers. 2,808,659, 10-8-57, Cl. 35—12.
- Dehmer, Walter T., to Aktiengesellschaft für Unternehmungen der Eisen- und Stahlindustrie. Convertible internal combustion engine and compressor. 2,785,668, 3-19-57, Cl. 123—97.
- Dehmow, Louis L., to Minneapolis-Honeywell Regulator Co. Electrically trippable switch. 2,804,522, 8-27-57, Cl. 200—106.
- Dehn, Frederick C.: *See*—
Neubauer, Joseph A., Strain, Kung, and Dehn. 2,797,195.
- Dehn, Roy F., to The Cleveland Crane & Engineering Co. Sheet cutting apparatus. 2,815,074, 12-3-57, Cl. 164—42.
- Dehn, Roy F., and W. E. Ward, to The Cleveland Crane & Engineering Co. Draw press. 2,781,015, 2-12-57, Cl. 113—38.
- Dehn, William F., to Allen-Bradley Co. Snap action mechanism. 2,796,487, 6-18-57, Cl. 200—67.
- Dehn, William F., to Allen-Bradley Co. Actuating mechanism. 2,805,579, 9-10-57, Cl. 74—99.
- Dehn, William F., and R. E. Wilson, to Allen-Bradley Co. Contact actuating quick action switch. 2,791,656, 5-7-57, Cl. 200—67.
- De Hoff, Ronald L., and H. L. Parry, to Shell Development Co. Curing glycidyl polyethers. 2,801,229, 7-30-57, Cl. 260—47.
- Deibel, Raymond A., to Trico Products Corp. Windshield wiper arm mounting. 2,781,540, 2-19-57, Cl. 15—255.
- Deicken, Louis A. Envelope opener. 2,815,572, 12-10-57, Cl. 30—289.
- Deily, Fredric H.: *See*—
Boucher, Frank G., and Deily. 2,802,640.
Ledgerwood, Leroy W., Jr., and Deily. 2,809,013.
- Deise, Louis F.: *See*—
Gosnell, Charles N., and Deise. 2,795,009.
Sanderlin, James C., and Deise. 2,802,166.
- Deitrickson, Roy H., to The National Supply Co. Rod guide and packing means. 2,776,172, 1-1-57, Cl. 308—3.5.
- Deitrickson, Roy H., to The National Supply Co. Surface operated pump control means. 2,795,192, 6-11-57, Cl. 103—46.
- Deitrickson, Roy H., to The National Supply Co. Hydraulic sub-surface pumping unit. 2,813,489, 11-19-57, Cl. 103—46.
- De Jager, Frank, and J. F. Schouten, to Hartford National Bank and Trust Co. as trustee. Pulse-code modulation device. 2,816,267, 12-10-57, Cl. 332—11.
- De Jarnett, Frank D., 1/2 to P. A. Medearis. Fluid packed drill collar. 2,814,462, 11-26-57, Cl. 255—28.
- De Jean, Leland. Folding wing airplane. 2,812,911, 11-12-57, Cl. 244—49.
- De Jong, Frans H.: *See*—
Hess, Karl W., De Jong, and Roosendaal. 2,798,187.
- De Jonge, Jacobus B.: *See*—
Van Kijk, Christian P., Max, and de Jonge. 2,802,861.
- De Jonge, Jacobus B., to Shell Development Co. Separation of alkali metal salts of mono- and dialkyl acid phosphates. 2,818,420, 12-31-57, Cl. 260—461.
- De Jur-Amsco Corp.: *See*—
Ehrlich, Charles N. 2,798,686.
- Dekema, Francis M.: *See*—
Lien, Howard C. 2,783,046.
- Dekema, John S.: *See*—
Lien, Howard C. 2,783,046.
- Deker, Herman, to Zeiss Aerotopograph G. m. b. H. Stereoscopic apparatus for plotting from air photographs. 2,795,046, 6-11-57, Cl. 33—1.
- Deknatel, J. A., & Son, Inc.: *See*—
Kurtz, Leonard D., and Stoltz. 2,811,157.
- Dekome, Arthur E. Centrifugal casting device. 2,775,801, 1-1-57, Cl. 22—58.5.
- De Koning, Edwin W. Single end lumber printer. 2,778,296, 1-22-57, Cl. 101—5.
- De Koning, Edwin W. Multidirectional lumber transfer mechanism and method. 2,778,474, 1-22-57, Cl. 198—19.
- De Kramer, Isaac A.: *See*—
Hewes, Ralph W., and De Kramer. 2,786,904.
- De Kramer, Isaac A., to General Railway Signal Co. Control switch. 2,816,977, 12-17-57, Cl. 200—106.
- De Kroes, Jan L.: *See*—
Geels, Bernardus H., de Kroes, and Nicolai. 2,816,171.
- De la Breteque, Pierre, to Société Anonyme pour l'Industrie de l'Aluminium. Method of recovering gallium from an alkali aluminate lye. 2,793,179, 5-21-57, Cl. 204—105.
- De la Breteque, Pierre, to Société Anonyme pour l'Industrie de l'Aluminium. Method of purifying alkali aluminate lye. 2,798,845, 7-9-57, Cl. 204—130.
- Delacour, Jacques, to Borg-Warner Corp. Shaped charge perforator. 2,792,783, 5-21-57, Cl. 102—20.
- Delacour, Jacques, to Borg-Warner Corp. Shaped charge perforating apparatus for use in wells and the like. 2,796,022, 6-18-57, Cl. 102—20.
- Delalande, Paul J. M. R., to Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa. Elevating mechanism for a mobile gun. 2,789,476, 4-23-57, Cl. 89—41.
- De Lalla, Vincent, Jr. Rotary type electric razor. 2,785,461, 3-19-57, Cl. 30—34.
- De La Mater, George B.: *See*—
Homeyer, August H., and De La Mater. 2,813,096.
- De La Mater, Robert G., to The Parkersburg Rig & Reel Co. Eccentric wrist pin mounting for pumping units. 2,793,543, 5-28-57, Cl. 74—600.
- De La Mater, Robert G., and E. F. Speiden, to The Parkersburg Rig & Reel Co. Hydrodynamic brakes. 2,786,552, 3-26-57, Cl. 188—90.
- Delamater, Roland E., to The Foote-Burt Co. Locating pin. 2,782,486, 2-26-57, Cl. 29—1.
- Delamere Co., Inc.: *See*—
Todfield, Morris H. 2,793,644.
- De la Motte, Pierre, to U. S. Tool Co., Inc. Long stroke slide feed with gripper and check adjustable independently of slide action. 2,787,465, 4-2-57, Cl. 271—2.5.
- De la Motte, Pierre, to U. S. Tool Co., Inc. Coil cradle. 2,789,777, 4-23-57, Cl. 242—78.
- De la Motte, Pierre, to U. S. Tool Co., Inc. Reversible slide feed. 2,795,418, 6-11-57, Cl. 271—2.5.
- Delaney, Frank M., to National Pneumatic Co., Inc. Automatic disconnecting mechanism for fluid pressure operated linkage. 2,794,633, 6-4-57, Cl. 268—30.
- Delaney, John E., to Lincoln Park Industries, Inc. Snap gauge. 2,810,200, 10-22-57, Cl. 33—147.
- Delaney, John J., and A. F. Romanowski, to Bowser, Inc. Control system for sequential operation of pump motors. 2,793,337, 5-21-57, Cl. 318—102.
- Delaney, Patrick P. Cigarette carton. 2,783,929, 3-5-57, Cl. 229—14.
- De Lange, Leendert: *See*—
Köhler, Jacob W. L., de Lange, and Schalkwijk. 2,775,875.
Schalkwijk, Willem F., de Lange, and Koopmans. 2,775,876.
- Delano, Bernard A., and R. E. McGlothlin, to Delano & Garner Mfg. Co. Flow regulator. 2,790,463, 4-30-57, Cl. 188—44.
- Delano & Garner Mfg. Co.: *See*—
Delano, Bernard A., and McGlothlin. 2,790,463.
- Delano, James K. Apparatus and method for growing crystals having a controlled internal junction structure. 2,791,813, 5-14-57, Cl. 22—58.
- De Lano, John H. Carton opener. 2,793,549, 5-28-57, Cl. 81—3.
- Delano, Richard P. Automobile visor. 2,776,859, 1-8-57, Cl. 296—97.
- Delapena & Son Ltd.: *See*—
Jones, David G. 2,810,054.
- De la Piedra, Enrique P. Wearing apparel accessory. 2,787,002, 4-2-57, Cl. 2—153.
- Delaplaine, John W., to the United States of America as represented by the United States Atomic Energy Commission. Prevention of scale formation in uranium solvent extractor. 2,812,232, 11-5-57, Cl. 23—14.5.
- Delaplaine, John W., to Catalytic Construction Co. Producing butadiene from butane. 2,816,943, 12-17-57, Cl. 260—680.
- De Lassus St-Genies, Anne H. J. Method for copying relief images taken on lenticulated film. 2,800,064, 7-23-57, Cl. 95—75.
- De Lathauwer, Rene J. Textile drafting. 2,795,013, 6-11-57, Cl. 19—165.
- Delaupe, Elaine T., S. W. Wilson, and S. J. Mayeux, Jr., to Esso Research and Engineering Co. Process for ether purification. 2,805,262, 9-3-57, Cl. 260—616.
- De Laval, Carl G., Jr. Method of melting iron and steel. 2,786,748, 3-26-57, Cl. 75—43.
- De Laval Separator Co., The: *See*—
Merget, Andrew E. 2,788,328.
Recchi, Quito G. 2,794,420.
Wanzer, William G. 2,788,008.
- Delaware Mills, Inc.: *See*—
Appleton, William C., and Michael. 2,810,281.
- Delaware Research & Development Corp.: *See*—
Petze, Charles L. 2,794,792.
- De Lay Industries, Inc.: *See*—
De Lay, Manford S. 2,818,272.
- De Lay, Manford S., to De Lay Industries, Inc. Adjusting and locking device for relatively movable main and auxiliary trailer frames. 2,818,272, 12-31-57, Cl. 280—106.
- Delbag-Luftfilter G. m. b. H.: *See*—
Gennermann, Robert. 2,806,549.
- Delbert, Guy J. Tape applicator. 2,809,761, 10-15-57, Cl. 216—33.
- Del Busto, Felipe W. Shoulder supported holder for telephones. 2,785,234, 3-12-57, Cl. 179—157.
- Del Camp, Scipione M., to Cinch Mfg. Corp. Coil form casting for printed circuit. 2,790,961, 4-30-57, Cl. 339—128.
- Del Camp, Scipione M., to Cinch Mfg. Corp. Low loss miniature molded tube socket. 2,793,353, 5-21-57, Cl. 339—193.
- Del Camp, Scipione M., to Cinch Mfg. Corp. Electrical socket and contacts therefor. 2,807,790, 9-24-57, Cl. 339—220.
- De Leonardis, Michael J. Construction of an electrode for use in a fluid container. 2,813,954, 11-19-57, Cl. 200—152.
- Delf, George A., and Glenn A. Detachable supporting provisions for window fans. 2,804,817, 9-3-57, Cl. 98—94.
- Delf, Glenn A.: *See*—
Delf, George A., and Glenn A. 2,804,817.
- Delfox, James G., to Poor & Co. Boltless rail joint. 2,808,996, 10-8-57, Cl. 238—208.

- Del Francia, Joel A., to Delux Range Co. Broiler. 2,790,434, 4-30-57, Cl. 126-41.
- Del Francia, Joel A., and R. M. Carson. Electrical broiler. 2,812,706, 11-12-57, Cl. 99-446.
- Del Fuoco, Dominick G. Folding table and picnic bench. 2,786,514, 3-26-57, Cl. 155-124.
- Delhi-Taylor Oil Corp.: See—
Bludworth, Joseph E. 2,785,213.
- De Lier, Philomene A. Garment hangers. 2,802,610, 8-13-57, Cl. 223-91.
- Deliso, John. Self-gripping tool with resilient wires for turning socket head fasteners. 2,775,913, 1-1-57, Cl. 81-72.
- Deliso, John J. Socket wrench set. 2,775,914, 1-1-57, Cl. 81-114.
- Dell, Albert H., J. H. Kuck, and J. H. Sreb, to the United States of America as represented by the Secretary of the Navy. Self-destruction device. 2,775,942, 1-1-57, Cl. 102-70.2.
- Dell, Gaillard W.: See—
Goodspeed, Edwin W., and Dell. 2,800,421.
- Dell, Hugh A.: See—
Bareford, Christopher F., and Dell. 2,791,695.
- Dell, Hugh A., to North American Philips Co., Inc. Particle counting apparatus. 2,791,697, 5-7-57, Cl. 250-217.
- Dell, Hugh A., and E. Jones, to North American Philips Co., Inc. Apparatus for counting particles. 2,791,377, 5-7-57, Cl. 235-92.
- Dell, M. Benjamin: See—
Cubberley, Richard H., and Dell. 2,803,171.
- Dell, Samuel M., and Co., Inc.: See—
McMillan, Hugh P. 2,779,043.
- Dellaiera, Angelo J., M. H. Pakman, and C. C. Passarella. Tone improving means. 2,783,851, 3-5-57, Cl. 181-27.
- Della-Porta, Albert C. Pedal actuated drum sticks. 2,784,634, 3-12-57, Cl. 84-422.
- Della-Porta, Albert C. Pedal actuated drum sticks. 2,787,930, 4-9-57, Cl. 84-422.
- Dellaquila, Robert: See—
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- Dellaquila, Robert. Yielding slider. 2,799,909, 7-23-57, Cl. 24-203.15.
- Dellenbarger Machine Co., Inc.: See—
Becher, Harold, and Pepper. 2,809,624.
- Bergstrom, Carl J., and Tolsdorf. 2,788,131.
- Delling, David C., to Gossett Machine Works, Inc. Lint collecting apparatus for drawing frames. 2,783,506, 3-5-57, Cl. 19-159.
- Delman, Hyman. Ladies handbag frame. 2,803,280, 8-20-57, Cl. 150-29.
- Del Mar Engineering Laboratories, Inc.: See—
Hopper, Robert J. 2,813,719.
- Delmonte, Julian. Potentiometer. 2,807,695, 9-24-57, Cl. 201-62.
- Delo, Charles G., Jr., to Pullman-Standard Car Mfg. Co. Side sill construction. 2,804,025, 8-27-57, Cl. 105-409.
- Delon, Edwin, and R. J. Emary, to The Colson Corp. Collapsible wheel chair. 2,793,681, 5-28-57, Cl. 155-147.
- De Long, Herbert K., to The Dow Chemical Co. Electrodeposition of zinc on magnesium and its alloys. 2,811,484, 10-29-57, Cl. 204-55.
- De Long, L. B.: See—
Pointer, Robert W. 2,775,869.
- De Long, William B., to E. I. du Pont de Nemours and Co. Method of melting refractory metals. 2,805,148, 9-3-57, Cl. 75-84.
- De Long, William T., and G. A. Ostrom, to The McKay Co. Welding steel for joining high strength steels. 2,789,048, 4-16-57, Cl. 75-126.
- De Long, William T., and G. A. Ostrom, to The McKay Co. High strength welding steel. 2,789,049, 4-16-57, Cl. 75-126.
- De Lorean, John Z. Sealing ring collapsing means and method. 2,801,891, 8-6-57, Cl. 309-29.
- De Lorenzo, Sylvio A., to Heyden Newport Chemical Corp. Recovering trimethylolmethane by ethyl acetate extraction. 2,806,892, 9-17-57, Cl. 260-637.
- Delort, Rene. Speaker cabinet. 2,815,087, 12-3-57, Cl. 181-31.
- De Los Santos Izquierdo, Federico, and M. M. Lopez. Elevators. 2,802,549, 8-13-57, Cl. 187-25.
- Del Pesco, Andrew. Foot measuring device. 2,782,504, 2-26-57, Cl. 33-3.
- Del Piero, Alberto. Fountain pen with reservoir changeable and liable to be refilled. 2,785,656, 3-19-57, Cl. 120-45.4.
- Delplanque, Marcel L. A., to Ormig-Organisations-Mittel G. m. b. H. Solvent operated duplicating machine. 2,787,212, 4-2-57, Cl. 101-132.5.
- Del-Pro Corp.: See—
Edrich, Joseph G. 2,798,950.
- Del Raso, Americo, and C. J. Sonich. Automatic marine geological sample extractor. 2,798,378, 7-9-57, Cl. 73-421.
- Delson Candy Co.: See—
Larsen, Earl. 2,808,766.
- Delta Dynamics, Inc.: See—
Bretz, Frank E., Jr. 2,781,954.
Bretz, Frank E., Jr. 2,789,012.
Bretz, Frank E., Jr. 2,801,029.
- Delta Tank Mfg. Co., Inc.: See—
Guarin, Paul L. 2,788,080.
Page, James A., and Nix. 2,801,125.
- De Luca, Frank J.: See—
Jacobson, Moses G., De Luca, and McInnes. 2,795,756.
- De Lucia, Michael J., L. Weiss, and W. T. Wheaton. Tire air pressure signal mechanism. 2,790,155, 4-23-57, Cl. 340-58.
- Delux Range Co.: See—
Del Francia, Joel A. 2,790,434.
- De Luxembourg, Alexander M. L., to J. P. Wetherill, C. M. Trammell, and A. M. L. De Luxembourg, trustees. Process for water and flame proofing textiles. 2,780,566, 2-5-57, Cl. 117-93.
- Delva Plastics, Inc.: See—
Liguori, Alfred T. 2,778,336.
- Delvaux, Jules A. M., to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Pneumatic driving hammers. 2,787,123, 4-2-57, Cl. 60-57.
- Delzanno, Giuseppe, to Fiat Societa per Azioni. Circuit for electric welding machines. 2,802,168, 8-6-57, Cl. 323-18.
- Delzer, Reinhold. Bale loader. 2,812,070, 11-5-57, Cl. 212-42.5.
- Demaision, Raymond J.: See—
Murphy, Samuel F., Jr., and Demaision. 2,809,126.
- De Makay, Nicolas. Conductor means for electrodes. 2,791,557, 5-7-57, Cl. 204-286.
- Demarche, Edmund, to Skenandoo Rayon Corp. Positive stop device in winding machines. 2,781,981, 2-19-57, Cl. 242-37.
- De Marco, Robert C.: See—
De Cowsky, George N., De Marco, and Johnson. 2,803,602.
- Demarest, Daniel D. Brick packages. 2,790,546, 4-30-57, Cl. 206-65.
- Demarest, Daniel D., to Linker Machines, Inc. Apparatus for removing casings from sausages and the like. 2,800,681, 7-30-57, Cl. 17-1.
- Demarest, Daniel D., R. M. Perkins, W. Karius, and C. Berendt, to Linker Machines, Inc. Sausage skin removing mechanism. 2,775,784, 1-1-57, Cl. 17-1.
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- Demarest, Daniel D., R. M. Perkins, W. Karius, and C. Berendt. Frankfurter severing and peeling mechanism. 2,799,892, 7-23-57, Cl. 17-1.
- Demarkles, Louis R., N. A. Teixeira, and F. K. Chin. Electric plug and method of manufacturing the same. 2,807,001, 9-17-57, Cl. 339-255.
- De Mart, Le Roy S.: See—
Cantieri, William F., De Mart, and Fogel. 2,804,032.
- De Mart, Le Roy S., to Diamond Power Specialty Corp. Means for supporting and sealing retractable soot blowers. 2,803,848, 8-27-57, Cl. 15-317.
- Demartini, Robert J.: See—
Rapp, Theodore F., and Demartini. 2,787,290.
- De Masi, Rocco: See—
Carlberg, Robert E., Sieve, and De Masi. 2,792,757.
- De Matteo, Adolph J., to Farrel-Birmingham Co., Inc. Dual-pressure hydraulic system. 2,815,036, 12-3-57, Cl. 137-120.
- De Maya, Charles B., and A. A. Winston, to General Foods Corp. Coconut product and process therefor. 2,783,152, 2-26-57, Cl. 99-125.
- Dembosky, Anthony E. Heating attachment for windshield wipers. 2,786,224, 3-26-57, Cl. 15-250.5.
- Dembs, Nelson. Milk delivery and storage container. 2,781,965, 2-19-57, Cl. 232-43.4.
- Dement, James F., J. B. Imbriaco, H. H. J. Benson, Jr., and M. Ackerman, to ACF Industries, Inc. Instrument for non-flying aircraft trainers. 2,809,446, 10-15-57, Cl. 35-12.
- Demer, Frederick M., to International Business Machines Corp. Scalar flux magnetic core devices. 2,811,710, 10-29-57, Cl. 340-174.
- De Merre, Marcel, to Société Generale Metallurgique de Hoboken. Separation of nickel from cobalt. 2,803,537, 8-20-57, Cl. 75-119.
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- De Mert & Dougherty, Inc.: See—
Drell, Leonard B. 2,806,739.
- Demetriou, Kimon C., and G. M. Le Fave, to Lear, Inc. Assembly of electro-mechanical apparatus. 2,814,744, 11-26-57, Cl. 310-43.
- De Meux, Albin D. Two stroke cycle internal combustion engine with pump and cylinder coaxial. 2,787,259, 4-2-57, Cl. 123-71.
- Demi, Roy C., and C. Wantz; said Demi assor, to Robertshaw-Fulton Controls Co. Timing mechanism. 2,810,435, 10-22-57, Cl. 161-1.
- De Millar, Floyd O., to Radian Corp. Turning device for rotatable body. 2,804,173, 8-27-57, Cl. 185-40.
- De Mille, John C.: See—
Chamberlain, Royce, and De Mille. 2,777,482.
- De Milleville, Marie J. M. Pressure-balanced filling method for liquids such as gassy liquids and devices for carrying out this method. 2,810,406, 10-22-57, Cl. 141-6.
- De Milleville, Marie J. M. Hydraulic gas-pressure regulator. 2,817,358, 12-24-57, Cl. 137-494.
- Deming, Roy, to Kent-Moore Organization, Inc. Tire inspection device. 2,788,484, 4-9-57, Cl. 324-41.

- Demke, Hans B. Re-useable bottle cap. 2,789,717, 4-23-57, Cl. 215-41.
- Demler, Henry W., to AMP Inc. Miniature hand tool. 2,800,042, 7-23-57, Cl. 81-15.
- Demmel, Anton, and W. Schrader, to Olympia Werke Aktiengesellschaft. Typewriter escapement mechanism. 2,815,109, 12-3-57, Cl. 197-84.
- Demmer, Adolph P., and C. T. Evans, to Air Reduction Co., Inc. Universal gas torch cutting machine. 2,782,024, 2-19-57, Cl. 266-23.
- Demmler, John N. Sand blowing machine. 2,791,013, 5-7-57, Cl. 22-136.
- Democko, Paul: *See*—
Zuti, Rudolf J., and Democko. 2,808,565.
- De Molin, Arrigo V.: *See*—
Barlow, Sidney D., and De Molin. 2,787,249.
- De Mont, Frank M.: *See*—
Cookson, Arthur I., and De Mont. 2,788,187.
- De Montebello, Roger. Light-box. 2,806,939, 9-17-57, Cl. 240-41.35.
- De Montmolin, Jean-Pierre: *See*—
Egle, Arthur, and Bethge. 2,813,960.
- De Montremy, Jean. Automatic photographic cameras having multiple lenses. 2,804,001, 8-27-57, Cl. 95-18.
- DeMornay-Bonardi, Inc.: *See*—
DeMornay, Richard E. 2,792,711.
- DeMornay, Richard E., to DeMornay-Bonardi, Inc. Instrument drive. 2,792,711, 5-21-57, Cl. 74-25.
- Demos, Nicholas, and H. B. Dawson; said Dawson assor. to said Demos. Vehicle transporter with selectively positionable posts for supporting track members. 2,797,122, 6-25-57, Cl. 296-1.
- De Mott, Alfred E.: *See*—
Fleming, Karl J., and De Mott. 2,818,011.
- De Moulin Bros. & Co.: *See*—
Davis, Roscoe T. Re. 24,277.
- Dempsey, Edward C. Automatic shutoff with gravity actuated flow valve. 2,816,568, 12-17-57, Cl. 137-399.
- Dempsey, John D. Lantern stand. 2,813,196, 11-12-57, Cl. 240-57.1.
- Dempsey, Michael J., and W. F. Aylard, to Chase Brass & Copper Co., Inc. Method of and apparatus for packaging strand material. 2,801,813, 8-6-57, Cl. 242-83.
- Dempster Brothers, Inc.: *See*—
Jones, Harry W. 2,800,233.
- Dempster, Ervin, $\frac{1}{2}$ to M. L. Parcells. Adjustable valve lifter. 2,805,474, 9-10-57, Cl. 29-219.
- Dempster Mill Mfg. Co.: *See*—
Rice, Keith Q. 2,816,509.
- Demski, Edward, to Franklin Balmar Corp. Automatic machinery for screwing caps upon jars. 2,785,521, 3-19-57, Cl. 53-331.5.
- Dementchenko, Basile, to Societe Du Carburateur Zenith. Carburetors. 2,803,233, 8-20-57, Cl. 123-119.
- De Mun, Frederick S. Electric light socket chain pull device. 2,812,442, 11-5-57, Cl. 250-73.
- Demunter, John C. Antenna retainer clip. 2,811,330, 10-29-57, Cl. 248-361.
- Demuth, Galan W., and P. Weathers, to Radio Corp. of America. Container inspection. 2,806,401, 9-17-57, Cl. 88-14.
- De Napoli, Anthony C., Jr., to The Soundsciber Corp. Means for indexing recorded material upon record members in phonographic recording machines. 2,803,466, 8-20-57, Cl. 274-13.
- Denbow, Clarence E. Brush holder. 2,810,987, 10-29-57, Cl. 46-116.
- Denby, Jack, and M. Landi. Folding perambulators. 2,778,653, 1-22-57, Cl. 280-37.
- Denby, Lynn W. Fish lure. 2,792,661, 5-21-57, Cl. 43-42.16.
- Dence, Donald S., and E. E. Eaton, to Clark Equipment Co. Transmission. 2,811,048, 10-29-57, Cl. 74-360.
- Dench, Edward C.: *See*—
Brown, William C., and Dench. 2,802,141.
- Dench, Edward C., to Raytheon Mfg. Co. Amplitude modulators. 2,795,760, 6-11-57, Cl. 332-5.
- Dench, Edward C., to Raytheon Mfg. Co. Apparatus for precision contouring. 2,804,725, 9-3-57, Cl. 51-64.
- Dench, Edward C., to Raytheon Mfg. Co. Magnetron amplifiers. 2,809,328, 10-8-57, Cl. 315-39.3.
- Denco Machine Products: *See*—
Robbins, Lloyd W., and Smith. 2,816,489.
- Den Dooven, K. Camille, Jr., to The Anaconda Co. Mold insert block. 2,807,065, 9-24-57, Cl. 22-136.
- Dendrol, Inc.: *See*—
Snyder, Francis H. 2,776,948.
- Denham, Bert, and O. G. Sullivan. Receptacle handle. 2,800,353, 7-23-57, Cl. 294-16.
- De Ninne, Claire: *See*—
Ruggiero, Arthur, and De Ninne. 2,799,245.
- Denis, Albert P. Walking aid and chair combination. 2,776,701, 1-8-57, Cl. 155-22.
- Denison, Frank G., Jr., to the United States of America as represented by the Secretary of the Army. Multiple-tube pressurized tank for missile. 2,790,489, 4-30-57, Cl. 158-50.1.
- Denison, Frank W., Jr.: *See*—
Peterson, Merlin H., Goldstein, and Denison. 2,803,586.
- Denison, George H., Jr., and M. R. Barusch, to California Research Corp. Knock-suppressing composition. 2,776,262, 1-1-57, Cl. 252-386.
- Denison, Henry H.: *See*—
Morrison, Charles S., Denison, and Jones. 2,794,307.
- Denker, Charles T. Combined diesel and steam engine. 2,791,881, 5-14-57, Cl. 60-15.
- Dennen, Ernest, to Hunter Douglas Aluminum Corp. Venetian blind. 2,804,924, 9-3-57, Cl. 160-176.
- Dennett, Firth L., to Dow Corning Corp. Compositions for treating organic fabrics and a method of applying them. 2,807,601, 9-24-57, Cl. 260-42.
- Denning, J. Wayne. Grain bin. 2,776,456, 1-8-57, Cl. 20-1.2.
- Denning, Leo E., and V. R. Pring. Christmas tree lighting bracket. 2,802,095, 8-6-57, Cl. 240-10.
- Denning, Paul S., to F. E. Schundler & Co., Inc. Manufacture of high temperature insulating materials. 2,784,085, 3-5-57, Cl. 92-21.
- Denning, Paul S., to F. E. Schundler & Co., Inc. Filter aid and its preparation. 2,798,674, 7-9-57, Cl. 241-5.
- Dennis, Daniel L.: *See*—
James, Richard D., Oppel, and Dennis. 2,806,293.
- Dennis, George W.: *See*—
Haselton, Merton L., and Dennis. 2,811,709.
- Dennis, Lloyd N. Overdrive attachment for vehicle power transmissions. 2,811,049, 10-29-57, Cl. 74-370.
- Dennis, William E.: *See*—
Simnad, Massoud T., and Dennis. 2,790,840.
- Dennis, William H., to Phillips Petroleum Co. Copper sweetening treating agent comprising an adsorbent admixed with a polymeric polyelectrolyte and a copper salt, and method for copper sweetening. 2,793,985, 5-28-57, Cl. 196-29.
- Dennison, Louis M. Hollow panel. 2,805,739, 9-10-57, Cl. 189-34.
- Dennison Mfg. Co.: *See*—
Ferguson, Robert N. 2,780,379.
- Flood, Carl A. 2,791,948.
- McGovern, Henry P. 2,792,109.
- Sloan, Donald D. 2,813,021.
- Dennisson, Harold K., and G. Dresch; said Dresch assor. to said Dennisson. Container closing devices. 2,817,840, 12-31-57, Cl. 1-106.
- Dennon, William. Apparatus and method for dissolving powdered food. 2,784,949, 3-12-57, Cl. 259-72.
- Denny, Ralph E., $\frac{1}{2}$ to P. Ganson. Rotary disc type mower. 2,796,714, 6-25-57, Cl. 56-25.4.
- Dennys, Ronald G., to Orenda Engines Ltd. Adjusting mechanism for eliminating bevel gear backlash. 2,788,674, 4-16-57, Cl. 74-400.
- Denovan, Robert A. Fence gate. 2,803,899, 8-27-57, Cl. 39-74.
- Densco, Inc.: *See*—
Brown, Ray W. 2,776,487.
- Brown, Ray W. 2,776,488.
- Denslinger, Charles. Contour scriber. 2,791,837, 5-14-57, Cl. 33-41.
- Denslow, Roy R., to E. I. du Pont de Nemours and Co. Pigment composition and methods for producing same. 2,795,483, 6-11-57, Cl. 23-105.
- Denss, Rolf, and F. Hafiger, to Geigy Chemical Corp. 4-substituted 1,2-diaryl-3,5-dioxo-pyrazolidines. 2,808,411, 10-1-57, Cl. 260-295.
- Dental Ceramics, Inc.: *See*—
Neustadter, Irving. 2,799,933.
- Dental Fillings Ltd.: *See*—
Rawitzky, Walter L., Stern, and Shadbolt. 2,798,060.
- Dentists' Supply Co. of New York: *See*—
Adams, Claude W. 2,805,478.
- Denton, Bethel E., to Radio Corp. of America. Sync separator. 2,797,258, 6-25-57, Cl. 178-7.3.
- Denton, Ivor E.: *See*—
Murray, Peter, Denton, and Wilkinson. 2,807,857.
- Denton, James H.: *See*—
Upper, Frederick A., and Denton. 2,808,044.
- Denyes, Russell O.: *See*—
Rulison, Richard N., Jones, and Denyes. 2,777,160.
- Denyssen, Ivanhoe P., to American Viscose Corp. Yarn dryer drum construction. 2,795,321, 6-11-57, Cl. 203-280.
- Denz, Edwin: *See*—
Preiswerk, Eduard, Weyerhans, Ernst, Denz, and Juchli. 2,788,337.
- De Ormaetxea, Pedro, and F. Munoa. Filing cabinets. 2,784,045, 3-5-57, Cl. 312-223.
- De Oviedo, Fortunato F. Wind driven power plant with air guiding elements. 2,812,823, 11-12-57, Cl. 170-17.
- De Pamphilis, Humbert, to Walco Bead Co., Inc. Fishhook anchoring device. 2,805,510, 9-10-57, Cl. 43-25.2.
- De Paolis, Paul F., to Eastman Kodak Co. Optical glass. 2,787,554, 4-2-57, Cl. 106-47.
- De Pascale, Anthony. Wear indicator for brakes. 2,814,684, 11-26-57, Cl. 200-61.4.
- De Pasquale, Patrick J. Method of producing frozen comestibles. Re. 24,299, 4-2-57, Cl. 107-54.
- De Paul, Carl: *See*—
Maxant, William T., De Paul, and Zeldis. 2,781,734.
- Depew, Harlan A., and G. R. Watkins, to American Zinc, Lead & Smelting Co. Process of producing white tanned leather by precipitating in situ zinc sulfide and sulphydrate compounds and product produced therefrom. 2,809,878, 10-15-57, Cl. 8-94.25.

- De Pijper, Marinus A., and J. J. Rongen, to North American Philips Co., Inc. Additive mixing circuit arrangement. 2,790,074, 4-23-57, Cl. 250-20.
- Depp, Marlin C., and C. F. Fragola, to Sperry Rand Corp. Device for compensating a data transmission system for two cycle errors. 2,810,102, 10-15-57, Cl. 318-30.
- Deppa, August P. Winch. 2,779,568, 1-29-57, Cl. 254-146.
- De Polo, Amedeo: *See—*
Gandelli, Amos, and De Polo. 2,817,876.
- Depree, David O.: *See—*
Hill, Eugene F., and Depree. 2,785,965.
- De Pree, David O., and E. F. Hill, to Ethyl Corp. Substituted sodium amides. 2,799,705, 7-16-57, Cl. 260-583.
- De Pree, David O., and K. L. Lindsay, to Ethyl Corp. Preparation of metal cyanates. 2,801,154, 7-30-57, Cl. 23-75.
- De Pretto, Erminio, to Societa Generale per la Fosfatazione S. p. A. Treatment of metal surfaces. 2,787,565, 4-2-57, Cl. 148-615.
- Deprez, Charles, to Solvay & Cie. Device for adjusting the distance between the electrodes of an electrolytic cell of the mercury cathode type. 2,784,157, 3-5-57, Cl. 204-219.
- Deprez, Charles, to Solvay & Cie. Horizontal electrolytic cells for the electrolysis of solutions. 2,786,023, 3-19-57, Cl. 204-225.
- De Priester, Coral L.: *See—*
Simm, Clarke N., and De Priester. 2,793,697.
- Deputy, Charles E.: *See—*
Deputy, Elijah E. 2,813,384.
- Deputy, Elijah E., ½ to C. E. Deputy. Device for sharpening barbers' scissors, shears and the like. 2,813,384, 11-19-57, Cl. 51-214.
- De Puy, Clarence E., and S. S. Konigsberg, to Electronic Equipment Corp. Modulation control circuit. 2,788,492, 4-9-57, Cl. 332-38.
- Derbenwick, Frank, and A. W. Jeffs, to American Cyanamid Co. Manufacture of acrylonitrile. 2,798,035, 7-2-57, Cl. 202-57.
- Derby, Palmer P., and L. W. Geier, to the United States of America as represented by the Secretary of the Army. Method for frequency compensating a magnetron anode for temperature change. 2,810,094, 10-15-57, Cl. 315-39.51.
- Derby, Palmer P., J. L. Turner, and E. T. Downing, to the United States of America as represented by the Secretary of the Navy. Electro-mechanical tuning of a CW magnetron. 2,814,761, 11-26-57, Cl. 315-39.59.
- Derby Sealers, Inc.: *See—*
Krueger, Alfred P. 2,777,594.
Krueger, Alfred P. 2,787,102.
- Dereniuk, Paul, to United States Rubber Co. Manufacture of foamed latex sponge containing glass fibers. 2,809,173, 10-8-57, Cl. 260-2.5.
- Dereniuk, Paul, to United States Rubber Co. Manufacture of foamed latex sponge reinforced with glass fibers. 2,809,174, 10-8-57, Cl. 260-2.5.
- Derganc, William: *See—*
Howell, Sabert N., and Derganc. 2,814,005.
- Derge, Gerhard, to Carnegie Institute of Technology. Method of removing gaseous segregation from metals. 2,798,018, 7-2-57, Cl. 148-13.
- Dérlaz, Paul, to The English Electric Co. Ltd. Control of feathering runner vanes of hydraulic turbines and pumps. 2,801,068, 7-30-57, Cl. 253-24.
- Derick, Lincoln, and C. J. Frösch, to Bell Telephone Laboratories, Inc. Oxidation of semiconductive surfaces for controlled diffusion. 2,802,760, 8-13-57, Cl. 148-1.5.
- Derick, Lincoln, and C. J. Frösch, to Bell Telephone Laboratories, Inc. Manufacture of silicon devices. 2,804,405, 8-27-57, Cl. 148-1.5.
- Derieg, Edward A.: *See—*
Helm, Tony W., and Derieg. 2,793,874.
- Deritend Engineering Co. Ltd.: *See—*
Bishop, Thomas D. 2,806,696.
- Derksen, Bruno. Retractable and extensible towing bar for automobiles. 2,804,316, 8-27-57, Cl. 280-491.
- Derman, Sam. Knockdown container. 2,776,083, 1-1-57, Cl. 229-41.
- Derman, Sam. Container for garment bags. 2,801,737, 8-6-57, Cl. 206-10.
- Derman, Sam. Knockdown chest of drawers. 2,805,909, 9-10-57, Cl. 312-259.
- Derman, Sam. Collapsible extensible table. 2,814,541, 11-26-57, Cl. 311-39.
- Dermer, Otis C., to The Dow Chemical Co. Preparation of alpha-diketones. 2,799,707, 7-16-57, Cl. 260-590.
- Dermond, Lawrence C., to General Motors Corp. Fluid motor. 2,789,544, 4-23-57, Cl. 121-123.
- Dermond, Lawrence C., to General Motors Corp. Carburetor. 2,808,244, 10-1-57, Cl. 261-39.
- Derner, William J., and J. E. Hencken, to General Motors Corp. Electrical terminal box. 2,801,394, 7-30-57, Cl. 339-75.
- De Rocher, Arthur H. Screw-fed type hose coupling with wire anchor coil. 2,799,520, 7-16-57, Cl. 285-251.
- De Rohden, Charles, and M. Peltier, to Societe de Produits Chimiques des Terres Rares. Treatment of monazite. 2,783,125, 2-26-57, Cl. 23-14.5.
- De Ronck, Andrew A., ½ to M. J. Horne. Outlet box. 2,801,019, 7-30-57, Cl. 220-3.6.
- De Roo, William C., to Hart & Cooley Mfg. Co. Baseboard construction. 2,780,979, 2-12-57, Cl. 98-40.
- De Roo, William C., to Hart & Cooley Mfg. Co. Volume control for registers. 2,780,983, 2-12-57, Cl. 98-110.
- De Roo, William C., P. D. Winchester, and A. E. Kietzmann, to Hart & Cooley Mfg. Co. Diffuser for air conditioning. 2,784,659, 3-12-57, Cl. 98-40.
- De Roo, William C., to Hart & Cooley Mfg. Co. Baseboard diffuser. 2,796,016, 6-18-57, Cl. 98-40.
- De Roo, William C., to Hart & Cooley Mfg. Co. Air diffuser. 2,799,215, 7-16-57, Cl. 98-114.
- De Rosa, Louis A., to International Telephone and Telegraph Corp. Radio location system. 2,800,654, 7-23-57, Cl. 343-106.
- De Rose, Anthony F., to Abbott Laboratories. Purification of bis-dehydroabietyl-ethylene diamine-di-penicillinate. 2,812,326, 11-5-57, Cl. 260-239.1.
- De Rosset, Armand J.: *See—*
Watkins, Charles H., and de Rosset. 2,787,582.
- De Rosset, Armand J., to Universal Oil Products Co. Hydrocarbon conversion process. 2,781,299, 2-12-57, Cl. 196-52.
- De Rosset, Armand J., to Universal Oil Products Co. Manufacture of molybdenum-containing catalysts. 2,799,661, 7-16-57, Cl. 252-465.
- De Rosa, Charles R., to Clary Corp. Mounting for electrical equipment. 2,777,893, 1-15-57, Cl. 174-52.
- Derr, Elmer B.: *See—*
Diamond, William J., Wallenbrock, and Derr. 2,792,959.
- Derr, Elmer B., B. Dales, and H. C. Abrahamsen, to Whirlpool-Seeger Corp. Upholstered refrigerator cabinet. 2,800,742, 7-30-57, Cl. 45-138.
- Derreumaux, Pascal: *See—*
Lemaire, Paul, and Derreumaux. 2,786,325.
- Derrick, Herbert W., Jr. Vibrating screen. 2,782,927, 2-26-57, Cl. 209-250.
- Derrig, Michael J.: *See—*
McKinley, Joseph B., and Derrig. 2,786,742.
McKinley, Joseph B., and Derrig. 2,786,801.
- Dersch, William C. Nines-checking circuit. 2,790,600, 4-30-57, Cl. 235-61.
- Dert, Lodovicus F., to North American Philips Co., Inc. Device for the transmission of a video signal containing a direct-current component through a transmission cable. 2,794,866, 6-4-57, Cl. 179-171.
- Dert, Lodovicus F., and A. J. de Vries, to North American Philips Co., Inc. Amplitude modulator circuit. 2,805,396, 9-3-57, Cl. 332-47.
- Deruss Machine Products Co., Inc.: *See—*
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- De Ruyter, Paulus H., to Algemene Kunstzijde Unie, N. V. Process for preparing sodium carboxymethylcellulose. 2,781,341, 2-12-57, Cl. 260-232.
- De St. Cyr, William H. Muscle stimulating method and apparatus. 2,801,634, 8-6-57, Cl. 128-369.
- De Salvo, Arthur E.: *See—*
Noyes, Eliot F., De Salvo, and Lee. 2,777,381.
- De Salvo, John V., to the United States of America as represented by the Secretary of the Army. Pistol belt clip. 2,789,742, 4-23-57, Cl. 224-3.
- De Santis, Ann. Guide means for cutting hair. 2,808,840, 10-8-57, Cl. 132-45.
- De Santis, Vincent J., and F. L. Hunter, to International Telephone and Telegraph Corp. Electrodes for electron discharge devices and methods of making same. 2,788,460, 4-9-57, Cl. 313-107.
- Desch, Philip F., to General Electric Co. Control system for a prime mover. 2,803,785, 8-20-57, Cl. 317-19.
- Deschamps, Desire J., to Bendix Aviation Corp. Regulator and control device for an internal combustion aircraft engine. 2,793,632, 5-23-57, Cl. 123-119.
- Deschamps, Georges A.: *See—*
Arditi, Maurice, Deschamps, and Elefant. 2,794,174.
- Des Combes, Lloyd E., to Lawrence Brothers, Inc. Latch mechanism. 2,784,019, 3-5-57, Cl. 292-111.
- De See, Peter G. Dispensing caps for containers. 2,808,970, 10-8-57, Cl. 222-459.
- Desena, James: *See—*
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- Des Fosses, Wilfrid N. Article holder for attachment to a vehicle. 2,788,928, 4-16-57, Cl. 224-42.1.
- De Shano, Alphonse D., to E. Conrad. Tree handling device. 2,792,948, 5-21-57, Cl. 214-3.
- De Shazor, James C., Jr., to Columbia Basin Plastics Co. Shaker top with pouring spout. 2,777,615, 1-15-57, Cl. 222-480.
- De Shazor, James C., Jr., to Columbia Basin Plastics Co. Shaker top. 2,777,616, 1-15-57, Cl. 222-555.
- De Sherbinin, William N. Expandable building enclosure. 2,780,843, 2-12-57, Cl. 20-1.
- De Sherbinin, William N. Collapsible shelter device for motor vehicles. 2,806,478, 9-17-57, Cl. 135-4.
- De Shong, James A., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Logarithmic amplifier. 2,818,504, 12-31-57, Cl. 250-27.
- Design and Research Centre for the Gold, Silver and Jewelry Industries, The: *See—*
Trecee, Harold R. 2,801,961.
- Designers for Industry, Inc.: *See—*
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- De Simone, Alexander. Clutch. 2,812,841, 11-12-57, Cl. 192-68.
- De Sio, Joseph E.: *See—*
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- Desjardins, Joseph L. Mechanized parking garage. 2,789,710, 4-23-57, Cl. 214—89.
- Deska, Theodore J., to Eaton Mfg. Co. Pumping unit having flow directing means. 2,813,488, 11-19-57, Cl. 103—42.
- Deskur, Jacek S. Apparatus for stringing tobacco leaves and the like. 2,792,949, 5-21-57, Cl. 214—55.
- Deslieries, John M., and P. F. Peterson, to North American Aviation, Inc. Gun charger. 2,810,325, 10-22-57, Cl. 89—1.
- Desmond, Eric: *See*—
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- Desmond, John D., and R. A. Cote, to Container Corp. of America, Display support. 2,781,898, 2-19-57, Cl. 206—45.19.
- Desmond-Stephan Mfg. Co., The: *See*—
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- Desomatic Products, Inc.: *See*—
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Asker, Gunnar C. F. 2,801,707.
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- De Spain, Thomas H., to Southern Textile Machinery Co., Inc. Hosiery stacking machine. 2,805,804, 9-10-57, Cl. 223—77.
- De Spain, Thomas H., to Southern Textile Machinery Co., Inc. Hosiery inspection and handling apparatus. 2,818,205, 12-31-57, Cl. 223—43.
- Despard, Victor R., to Pass & Seymour, Inc. Turn knob switch with push-in terminals. 2,779,828, 1-29-57, Cl. 200—6.
- Despard, Victor R., to Pass & Seymour, Inc. Turn knob switch with removable luminous boot. 2,787,691, 4-2-57, Cl. 200—172.
- Despins, Jay E. Device for use in making comb frames and mounting foundation therein. 2,779,365, 1-29-57, Cl. 144—288.
- Desso, Rufus D. Dip stick wiper. 2,810,923, 10-29-57, Cl. 15—210.
- De Staat der Nederlanden, Ten Deze Verteenwoordigd Door de Directeur-Generaal der Posten, Telegrafie en Telefonie: *See*—
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- Dester, William F.: *See*—
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- Desty, Dennis H., and C. L. A. Harbourn, to The British Petroleum Co. Ltd. Production of solid non-ionic surface active agents. 2,814,611, 11-26-57, Cl. 260—96.5.
- Desty, Dennis H., and C. L. A. Harbourn, to The British Petroleum Co. Ltd. Urea adducts. 2,814,612, 11-26-57, Cl. 260—96.5.
- Desty, Dennis H., and C. L. A. Harbourn, to The British Petroleum Co. Ltd. Production and/or separation of non-ionic surface active agents. 2,814,613, 11-26-57, Cl. 260—103.
- De Swart Development Co.: *See*—
De Swart, Jan. 2,800,423.
- De Swart, Jan., to de Swart Development Co. Molded article of stretchable glass cloth. 2,800,423, 7-23-57, Cl. 154—43.
- Detch, Lewis. Ferrule type renewable cartridge fuse. 2,782,286, 2-19-57, Cl. 200—131.
- Detch, Lewis. Knife blade renewable cartridge fuse. 2,793,269, 5-21-57, Cl. 200—132.
- Detch, Lewis. Knife blade renewable cartridge fuse. 2,806,922, 9-17-57, Cl. 200—131.
- Deters, Elmer M.: *See*—
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- Dethmers, Robert, and T. Engelsman. Starting unit for farm machine motors. 2,786,358, 3-26-57, Cl. 74—6.
- Detjen, Edgar W. Flush valve for toilets. 2,776,437, 1-8-57, Cl. 4—57.
- De Toledo, Maurice: *See*—
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- De Toledo, Maurice F.: *See*—
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- Detrex Chemical Industries, Inc.: *See*—
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- Detrex Corp.: *See*—
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Kearney, Thomas J. 2,802,476.
Kearney, Thomas J. 2,802,758.
- Detrick, Stanley R., and E. Barthel, Jr., to E. I. du Pont de Nemours & Co. Cellular plastic materials which are condensation products of hydroxyl containing fatty acid glycerides and arylene diisocyanates. 2,787,601, 4-2-57, Cl. 260—2.5.
- Detroit Broach Co., Inc.: *See*—
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- Detroit Controls Corp.: *See*—
Altfillisch, Michael D., Powers, and White. 2,813,423.
Aubert, Fred B. 2,814,339.
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Davis, William R., and Deery. 2,782,273.
Dillman, Earnest J. 2,805,025.
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- Detroit Controls Corp.: *See*—Continued
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- Detroit Duo-Grip Brake Corp.: *See*—
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- Detroit Gasket & Mfg. Co.: *See*—
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- Detroit Harvester Co.: *See*—
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- Detroit Macoid Corp.: *See*—
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- Detroit Power Screwdriver Co.: *See*—
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- Detroit Stoker Co.: *See*—
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- Detroit Wabeek Bank and Trust Co.: *See*—
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- Detroit, William J.: *See*—
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- Detterman, Ivan M., $\frac{1}{2}$ to A. T. Zbinden. Supplemental swivel wheel mounting for trucks. 2,784,982, 3-12-57, Cl. 280—104.5.
- Dettman, Fred C. Bowling pin. 2,797,923, 7-2-57, Cl. 273—82.
- De Turk, John E.: *See*—
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- De Turk, John E., to Raytheon Mfg. Co. Magnetic recording playback circuits. 2,804,605, 8-27-57, Cl. 340—174.
- Detweiler, Abraham L. Web tensioner. 2,796,223, 6-18-57, Cl. 242—75.3.
- Detweiler, James I., and D. G. Thompson, to Lockheed Aircraft Corp. Flexible couplings for beaded tubing. 2,781,207, 2-12-57, Cl. 285—233.
- Detweiler, Wilbur O. Portable fire alarm. 2,816,280, 12-10-57, Cl. 340—227.
- Detzel, Hermann: *See*—
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- Deuble, Norman L., to Climax Molybdenum Co. Method of forming protective coating for molybdenum and molybdenum-base alloys. 2,788,289, 4-9-57, Cl. 117—65.
- Deuble, Norman L., to Climax Molybdenum Co. Method of forming a protective coating on a molybdenum-base article. 2,788,290, 4-9-57, Cl. 117—65.
- Deupree, Harold H. Cartridge grease gun assembly. 2,792,972, 5-21-57, Cl. 222—256.
- Deuquet, Armand. Methods and means for executing stereoradiograms through a selector. 2,794,925, 6-4-57, Cl. 250—61.
- Deuser, Friedrich, to Siemens-Schuckertwerke Aktiengesellschaft. Space inhalation device. 2,803,248, 8-20-57, Cl. 128—191.
- Deuth, Albert F., and G. M. Stamps, to Facsimile, Inc. Facsimile scanning apparatus. 2,792,448, 5-14-57, Cl. 178—7.6.
- Deutsch Co., The: *See*—
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- Deutsch, Franz S., F. R. Smith, and H. J. Pratt, to British Resin Products Ltd. Manufacture of plastic articles. 2,816,044, 12-10-57, Cl. 106—182.
- Deutsch, Hans. Speed control device in particular for spinning frames. 2,795,966, 6-18-57, Cl. 74—393.
- Deutsch, Martin: *See*—
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- Deutsche Bergin-Aktiengesellschaft: *See*—
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- Deutsche Edelstahlwerke Aktiengesellschaft: *See*—
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- Deutsche Gold- und Silber-Scheideanstalt vormals Roessler: *See*—
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Bredereck, Hellmut, Bader, Wohnhas, and Nubling. 2,779,751.
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- Deutsche Gold- und Silber-Scheideanstalt vormals Roessler: *See—Continued*
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 Deutschman, Archie J., Jr., and W. C. Bull, to Spencer Chemical Co. Process for making hydrazine and its derivatives. 2,803,523, 8-20-57, Cl. 23-190.
 Deutschman, Archie J., Jr., and W. C. Bull, to Spencer Chemical Co. Production of anhydrous hydrazine. 2,803,524, 8-20-57, Cl. 23-190.
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 DeVaney, Fred D., and D. Beggs, to Erie Mining Co. Apparatus for heat-treating fluent solids. 2,792,132, 5-14-57, Cl. 214-18.2.
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 Devareaux, Garry E. Composition of matter in the nature of dog food. 2,801,173, 7-30-57, Cl. 99-2.
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 De Vault, Albert N., to Phillips Petroleum Co. Recovery of valuable dewaxing aids from waxes. 2,782,142, 2-19-57, Cl. 196-17.
 De Vault, Jess E., to Jed Products Co. Snap-type molding and frame for carpet. 2,807,826, 10-1-57, Cl. 16-7.
 De Vault, Ralph P. Egg beater. 2,782,014, 2-19-57, Cl. 259-131.
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 Devenne, Gerard L. Parking device for motor vehicles. 2,808,271, 10-1-57, Cl. 280-150.
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 De Vienne, Robert and J. Sealing attachment for electric cables or the like. 2,788,992, 4-16-57, Cl. 285-158.
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 De Vlieg, Charles V. Actuating mechanism. 2,798,910, 7-9-57, Cl. 200-56.
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 De Voe, James H., to General Motors Corp. Sock type filters. 2,781,914, 2-19-57, Cl. 210-148.
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 Devol, George C., to Sperry Rand Corp. Random printing means. 2,811,102, 10-29-57, Cl. 101-93.
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 Dewas, Raymond. Weft-inserting devices for weaving looms. 2,813,548, 11-19-57, Cl. 139-123.
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 Dewhurst, William, to Haskell-Dawes Machine Co., Inc. Tension control in twisting machines and the like. 2,788,632, Cl. 57-68.
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 De Witt, Hobson D., to The Chemstrand Corp. Polyamide solutions and process of preparing same. 2,806,830, 9-17-57, Cl. 260-31.8.
 De Witte, Leendert, to Continental Oil Co. Detection of water influx by radioactivity. 2,813,980, 11-19-57, Cl. 250-43.5.
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- Dewitz, Gerhard H., to C. G. S. Laboratories, Inc. Saturable core apparatus. 2,802,186, 8-6-57, Cl. 336-171.
- Dewitz, Gerhard H., to C. G. S. Laboratories, Inc. Magnetic amplifier. 2,812,389, 11-5-57, Cl. 179-171.
- De Wolf, George L., to General Electric Co. Motor structure. 2,792,510, 5-14-57, Cl. 310-163.
- De Woskin, Irvin S., and M. H. Jenkins, to Beltx Corp. Heat-sealing cloth and plastic. 2,804,419, 8-27-57, Cl. 154-110.
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 - Spence, Charles A. 2,777,263.
 - Wierzbicki, Alexander. 2,809,483.
- Dewyer, Peter J. Machine for serving short lengths of tape and wrapping same around various articles. 2,780,044, 2-5-57, Cl. 53-198.
- Dex (Prefabrications) Ltd.: *See*—
- Harrison, Donald D. 2,813,310.
- Dexco, Inc.: *See*—
- Snyder, Howard D., and Pollock. 2,804,527.
- Dexdale Hosiery Mills: *See*—
- West, Howard K. 2,809,510.
- Dexter Chemical Corp.: *See*—
- Welles, Ernest I., and Edelstein. 2,809,159.
- Dexter, Fred F. Disposable diaper. 2,788,786, 4-16-57, Cl. 128-284.
- Dexter, George W. Remote control system for broadcast receivers. 2,806,900, 9-17-57, Cl. 178-5.8.
- Dexter Industries, Inc.: *See*—
- Williams, Murray E., and Grevengoed. 2,803,481.
 - Williams, Murray E., and Grevengoed. 2,804,327.
 - Young, Herbert W., and Grevengoed. 2,803,479.
- Dexter, Mortimer J., and R. E. Stoddard, to General Business Machines, Inc. Totalizing apparatus. 2,804,266, 8-27-57, Cl. 235-92.
- Dexter, Theodore H.: *See*—
- Haller, John F., and Dexter. 2,805,129.
- Deykin, Ronald F.: *See*—
- Caster, John E., and Deykin. 2,790,332.
- De Young, Howard S. Sub surface irrigation system. 2,811,982, 11-5-57, Cl. 137-561.
- De Young, Howard S. Control valve. 2,812,107, 11-5-57, Cl. 222-20.
- De Zurik, David, to De Zurik Shower Co. Valves. 2,803,426, 8-20-57, Cl. 251-301.
- De Zurik Shower Co.: *See*—
- De Zurik, David. 2,803,426.
- D'Haem, Marcel P.: *See*—
- Fischer, Howard R., and D'Haem. 2,781,728.
 - Fischer, Howard R., and D'Haem. 2,801,814.
- Diack, Archibald W. Vertically adjustable table. 2,809,875, 10-15-57, Cl. 311-39.
- Dial, William R., to Columbia-Southern Chemical Corp. Stabilization of halogenated hydrocarbons. 2,781,406, 2-12-57, Cl. 260-652.5.
- Dia-Log Tubular Survey Co.: *See*—
- Gieske, William R. 2,817,808.
- Diambra, Henry M., and G. G. Edlen, to Entron, Inc. Directional line splitting coupler. 2,782,379, 2-19-57, Cl. 333-35.
- Diametal A. G.: *See*—
- Senn, Jakob. 2,784,533.
- Diamond Alkali Co.: *See*—
- Dickinson, Calvin L. 2,808,236.
 - Hill, Archie, and Burkholder. 2,792,283.
 - Hirsch, Alfred, and Rosen. 2,812,367.
 - Lander, James G. 2,788,285.
 - Lee, Edison G., and Brush. 2,805,200.
 - Lukes, James J., Lightfoot, and Montgomery. 2,792,435.
 - McKanna, James C. 2,785,018.
 - Perrin, Tom S. 2,805,117.
 - Robinson, Edward A. 2,785,083.
 - Robinson, Edward A., and Fuller. 2,807,552.
 - Rosen, Irving. 2,812,366.
 - Sullender, Maurice C., and Green. 2,785,697.
 - Tillman, Arthur B. 2,789,036.
- Diamond, B. L.: *See*—
- Thornton, Ray F. 2,778,245.
 - Thornton, Ray F. 2,778,246.
- Diamond Chain Co., Inc.: *See*—
- Harvey, Wayne M., and Sweet. 2,787,483.
- Diamond, George. Can opener. 2,787,052, 4-2-57, Cl. 30-10.
- Diamond, Harry L. Pin pointed weight work holder. 2,814,274, 11-26-57, Cl. 120-82.
- Diamond, Harry L. Pin pointed weight work holder. 2,814,275, 11-26-57, Cl. 120-82.
- Diamond, Horace W., to Morton Salt Co. Sugar-salt tablets. 2,784,101, 3-5-57, Cl. 99-141.
- Diamond Hosiery Corp.: *See*—
- Schumann, William. 2,795,123.
- Diamond, Hyman: *See*—
- Bondi, Arnold A., and Diamond. 2,800,450.
- Diamond, Hyman, and C. L. Mahoney, to Shell Development Co. High temperature aromatic-free mineral lubricating oil compositions. 2,794,781, 6-4-57, Cl. 252-33.6.
- Diamond, Julius: *See*—
- Bruce, William F., Diamond, and Huber. 2,813,874.
- Diamond Lumber Co.: *See*—
- Knokey, Erwin W. 2,808,883.
- Diamond Machine Tool Co.: *See*—
- Bonquet, John W. 2,806,567.
- Diamond Match Co., The: *See*—
- Comstock, Alfred E. 2,781,843.
 - Lowe, Carl H. 2,783,373.
 - Stevens, Samuel S. 2,780,401.
- Diamond Power Specialty Corp.: *See*—
- Cantieri, William F., De Mart, and Fogel. 2,804,032.
 - Cawein, Madison. 2,809,298.
 - De Mart, Le Roy S. 2,803,843.
- Diamond Springs Lime Co.: *See*—
- Locke, Ralph S., Lawson, and Green. 2,784,062.
- Diamond, William J., to Whirlpool-Seeger Corp. Duo-plastic molded breaker strip. 2,809,764, 10-15-57, Cl. 220-9.
- Diamond, William J., R. E. Wallenbrock, and E. B. Derr, to Whirlpool-Seeger Corp. Plastic breaker strip construction. 2,792,959, 5-21-57, Cl. 220-15.
- Di Angelus, Anthony, and A. R. Costantini. Refrigerator. 2,815,649, 12-10-57, Cl. 62-102.
- Dias, Avelino. Machine for and method of cutting grooves. 2,796,792, 6-25-57, Cl. 82-4.
- Dibb, Samuel E. Cam strip. 2,798,327, 7-9-57, Cl. 40-156.
- DiCambio, Edmond P., to International Business Machines Corp. Electronic commutator for calculators. 2,792,991, 5-21-57, Cl. 235-61.
- Dicar Co., The: *See*—
- Dick, Kenneth E. 2,781,960.
- Di Carlo, Angelo J.: *See*—
- Richardson, Richard C. 2,801,471.
- Dice, Sylvan V., to A-B-C Packaging Machine Corp. Carton unloader. 2,815,140, 12-3-57, Cl. 214-304.
- Di-Cel Corp.: *See*—
- Moore, Marietta T. 2,797,855.
- Di Chiaro, Joseph. Aquarium with sealed and packed joints. 2,792,811, 5-21-57, Cl. 119-5.
- Dick, A. B., Co.: *See*—
- Clark, James d'A., and Anderson. 2,788,294.
 - Frederick, Joseph E. 2,807,545.
 - Gordon, William E., and Eaton. 2,813,042.
 - Klimkowski, Robert J., and Florence. 2,795,504.
 - Klimkowski, Robert J., and Florence. 2,798,427.
 - Marron, Thomas U. 2,800,077.
 - Marron, Thomas U., and Diedrich. 2,804,388.
 - Marron, Thomas U., and Hoover. 2,780,991.
 - Roshkind, Allan I. 2,808,777.
 - Zahradnik, George J., and Du Bois. 2,789,674.
- Dick, August A. and F. F., % to G. Thiesen. Irrigating apparatus including pipe alignment means. 2,800,364, 7-23-57, Cl. 299-47.
- Dick, Frank F.: *See*—
- Dick, August A. and F. F. 2,800,364.
- Dick, Franklin, to R. A. Fisch. Vapor dispensing device. 2,801,879, 8-6-57, Cl. 299-24.
- Dick, George H.: *See*—
- Mehr, Louis, and Dick. 2,815,327.
- Dick, George M., to Ingersoll-Rand Co. Stationary fluid motor operated clutch. 2,794,527, 6-4-57, Cl. 192-85.
- Dick, George M., to Ingersoll-Rand Co. Rock drilling tool. 2,800,303, 7-23-57, Cl. 255-64.
- Dick, James B. Remote control gear shift neutralizer. 2,785,585, 3-19-57, Cl. 74-484.
- Dick, James B. Idler arm adjustable for vehicle steering mechanism. 2,811,369, 10-29-57, Cl. 280-95.
- Dick, Kenneth E., to The Dicar Co. Flexible vacuum bottle carrier. 2,781,960, 2-19-57, Cl. 224-45.
- Dick, Marion T., and H. G. Hamilton. Animal hair groomer. 2,781,739, 2-19-57, Cl. 119-93.
- Dicke, Allen A. Rotary knife grinders. 2,799,125, 7-16-57, Cl. 51-80.
- Dicke, Robert H., to the United States of America as represented by the Secretary of the Navy. Multi-cavity klystron. 2,785,335, 3-12-57, Cl. 315-5.39.
- Dicke, Robert H. Follow-up system. 2,798,994, 7-9-57, Cl. 318-33.
- Dicken, Maxwell A., and P. T. Keim, to General Motors Corp. Windshield wiper motor. 2,817,319, 12-24-57, Cl. 121-87.
- Dickens, Samuel P.: *See*—
- Ballard, Wiley P., Dickens, and Smith. 2,818,455.
- Dickens, William B., Sr. Animal actuated insecticide dust applicator. 2,814,273, 11-26-57, Cl. 119-159.
- Dickenson, Ralph W. Method of treating water contaminated with organic materials. 2,778,797, 1-22-56, Cl. 210-2.
- Dickenson, Robert R. Telescopic sight mount for firearms. 2,790,241, 4-30-57, Cl. 33-50.
- Dickerman, Joseph. Automatic activating device for aerosol containers. 2,795,799, 6-18-57, Cl. 4-222.
- Dickerson, Henry A., to Westinghouse Electric Corp. Ward-Leonard control for wire spooler. 2,817,049, 12-17-57, Cl. 318-146.
- Dickerson, Richard T., Jr., and W. K. Schweitzer, Jr., to The Dow Chemical Co. Dialkyl nitrophenol product and method. 2,796,446, 6-18-57, Cl. 260-622.
- Dickert, Yancey J., and E. C. Britton, to The Dow Chemical Co. Method for the preparation of ϵ -acylamido- α -bromocaproic acids. 2,802,870, 8-13-57, Cl. 260-518.
- Dickey, John W., to Bendix Aviation Corp. Submerged rotary type fuel pump. 2,779,513, 1-29-57, Cl. 222-333.

- Dickey, Joseph B.: *See*—
 Coover, Harry W., Jr., and Dickey. 2,776,270.
 Coover, Harry W., Jr., and Dickey. 2,776,271.
 Coover, Harry W., Jr., and Dickey. 2,784,209.
 Coover, Harry W., Jr., and Dickey. 2,787,606.
 Coover, Harry W., Jr., and Dickey. 2,787,629.
 Coover, Harry W., Jr., and Dickey. 2,790,784.
 Coover, Harry W., Jr., and Dickey. 2,811,543.
 Towne, Edmund B., Bloom, and Dickey. 2,805,218.
 Towne, Edmund B., and Dickey. 2,790,791.
- Dickey, Joseph B., and E. B. Towne, to Eastman Kodak Co. 1,5-dihydroxy-8-nitro-4-aminoanthraquinone compounds. 2,777,863, 1-15-57, Cl. 260-380.
- Dickey, Joseph B., and H. W. Coover, Jr., to Eastman Kodak Co. Polymers of dialkyl 2-cyanopropene-3-phosphonates. 2,780,616, 2-5-57, Cl. 260-85.5.
- Dickey, Joseph B., and E. B. Towne, to Eastman Kodak Co. 1,5-dihydroxy-8-nitro-4-aminoanthraquinone compounds. 2,798,081, 7-2-57, Cl. 260-380.
- Dickey, Joseph B., and F. B. Joyner, to Eastman Kodak Co. Process of manufacturing 5-hydroxyvaleraldehyde. 2,808,440, 10-1-57, Cl. 260-602.
- Dickey, Max M. Wagon body with endless conveyor unloading mechanism. 2,808,949, 10-8-57, Cl. 214-83.36.
- Dickey, Robert C., F. P. Hauck, and H. M. Archer, to Michigan Abrasive Co. Apparatus for making abrasive coated sheet material. 2,784,695, 3-12-57, Cl. 118-51.
- Dickey, Robert M.: *See*—
 Fraser, George L., and Dickey. 2,801,230.
- Dickey, Stanley W., to Rite Hardware Co., Inc. Leveling instrument. 2,776,495, 1-8-57, Cl. 33-207.
- Dickey, Sterling R., to G. Miller. Precision lawn edger. 2,777,380, 1-15-57, Cl. 97-227.
- Dickey, W. S., Clay Mfg. Co.: *See*—
 Ligon, Elmer R. 2,779,056.
- Dickinson, Arthur H., to International Business Machines Corp. Electronic trigger circuit. 2,782,306, 2-19-57, Cl. 250-27.
- Dickinson, Arthur H., to International Business Machines Corp. Electronic multiplying and dividing machine. 2,802,625, 8-13-57, Cl. 235-61.
- Dickinson, Arthur H., to International Business Machines Corp. Transistor circuits. 2,809,304, 10-8-57, Cl. 307-88.5.
- Dickinson, Arthur H., and R. I. Roth, to International Business Machines Corp. Accounting machine systems. 2,813,986, 11-19-57, Cl. 307-115.
- Dickinson, Calvin L., to Diamond Alkali Co. Crystallizing apparatus. 2,808,236, 10-1-57, Cl. 257-6.
- Dickinson, Christmas O. Mop-cleaning device. 2,780,822, 2-12-57, Cl. 115-142.
- Dickinson, Clarence R., and B. F. Tellkamp, to Allen-Bradley Co. Resistance apparatus. 2,798,139, 7-2-57, Cl. 201-48.
- Dickinson, George A. Reel for lawn hose. 2,815,181, 12-3-57, Cl. 242-96.
- Dickinson, John, & Co. Ltd.: *See*—
 Randall, John W. 2,780,969.
 Randall, John W. 2,796,008.
- Dickinson, Philemon R.: *See*—
 Lewis, John R., and Dickinson. 2,813,274.
- Dickinson, Robert C., and R. E. Frink, to Westinghouse Electric Corp. Air-type circuit interrupter. 2,777,035, 1-8-57, Cl. 200-144.
- Dickinson, Theodore M., to General Electric Co. Apparatus for synchronizing the output of a particle accelerator with a moving object. 2,815,450, 12-3-57, Cl. 250-65.
- Dickman, Benjamin and M. Wire holder for pressure-actuated canisters. 2,803,383, 8-20-57, Cl. 222-323.
- Dickman, Carl H., to Consolidated Molded Products Corp. Heels for women's shoes. 2,807,099, 9-24-57, Cl. 36-34.
- Dickman, Leslie A., $\frac{1}{2}$ to T. J. Lynott. Highway flare. 2,817,226, 12-24-57, Cl. 67-55.
- Dickman, Max: *See*—
 Dickman, Benjamin and M. 2,803,383.
- Dickmander, Julius A. Tractor loading attachment. 2,776,061, 1-1-57, Cl. 214-140.
- Dickmann, Norbert G., to Dow Corning Corp. Low compression set siloxane elastomers containing a vinyl organosiloxane. 2,803,619, 8-20-57, Cl. 260-42.
- Dicks-Pontius Co.: *See*—
 Gifford, Robert T., and Vernet. 2,781,561.
- Dicks, Walter: *See*—
 Billen, Peter, and Dicks. 2,805,569.
- Dickson, John, to General Motors Corp. Internal-combustion engine. 2,791,989, 5-14-57, Cl. 123-32.
- Dickson, John B., to Chrysler Corp. Electric light bulb unit. 2,799,794, 7-16-57, Cl. 313-318.
- Dickson, John B., to Chrysler Corp. Electric light bulb unit. 2,799,795, 7-16-57, Cl. 313-318.
- Dickson, John H., $\frac{1}{2}$ to Barr and Stroud Ltd. and $\frac{1}{2}$ to J. Buckingham. Optical comparator. 2,780,132, 2-5-57, Cl. 88-14.
- Dickson, Woodrow J., to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated diethylene triamines. 2,792,369, 5-14-57, Cl. 252-344.
- Dickson, Woodrow J., to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated triethylene tetramines. 2,792,370, 5-14-57, Cl. 252-344.
- Dickson, Woodrow J., to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated tetraethylene pentamines. 2,792,371, 5-14-57, Cl. 252-344.
- Dickson, Woodrow J., to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated higher polyethylene amines. 2,792,372, 5-14-57, Cl. 252-344.
- Dickson, Woodrow J., to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated 3,3'-iminobispropylamines. 2,792,373, 5-14-57, Cl. 252-344.
- Dicome, Herman C., to E. L. Wiegand Co. Electric heaters. 2,810,815, 10-22-57, Cl. 219-38.
- Di Costanza, Joseph: *See*—
 Farah, Alexander J., and Di Costanza. 2,780,474.
- Dictaphone Corp.: *See*—
 Di Mattia, Alfred L. 2,803,308.
 Jones, Lloyd R., and Freund. 2,791,633.
 Roberts, Frederick W., and Jones. 2,791,639.
 Rowe, Richard G., and Flower. 2,778,748.
 Taylor, Douglas E., and Jones. 2,803,707.
- Dictograph Products Co., Inc.: *See*—
 Lehr, Philip N., and O'Brien. 2,802,904.
- Didler-Kogag-Hinselmann, Koksofenbau und Gasverwertung A. G.: *See*—
 Steding, Arthur, and Hartewig. 2,781,302.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Electromagnetic switch. 2,797,380, 6-25-57, Cl. 321-48.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Multiple-two phase single-way mechanical rectifier. 2,811,687, 10-29-57, Cl. 321-48.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Guided push rod mechanism. 2,813,937, 11-19-57, Cl. 200-30.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Flux reversal circuit for commutating reactors of mechanical rectifiers. 2,817,805, 12-24-57, Cl. 321-48.
- Diebold, Edward J., and E. Goessel, to I-T-E Circuit Breaker Co. Electromagnetic contact device. 2,805,300, 9-3-57, Cl. 200-91.
- Diebold Inc.: *See*—
 Deaton, Charles U., and Graber. 2,786,228.
 Deaton, Charles U., and Graber. 2,786,431.
 Domenico, Stephen P. 2,814,262.
 Heilman, Cecil C., and Graber. 2,789,876.
 Heilman, Cecil C., and Graber. 2,808,307.
- Diebold, Karl: *See*—
 Bianca, Edoardo G., and Diebold. 2,815,568.
- Diederich, Joseph F. Toilet brush support. 2,787,432, 4-2-57, Cl. 248-110.
- Diedrich, James L.: *See*—
 Marron, Thomas U., and Diedrich. 2,804,388.
- Diedring, John H., to General Motors Corp. Resilient lamp mounting. 2,814,722, 11-26-57, Cl. 240-90.
- Diefendorf, Aurel E. Collapsible cage for birds. 2,789,531, 4-23-57, Cl. 119-17.
- Diehl, James L.: *See*—
 Thompson, Lee W., and Diehl. 2,779,953.
- Diehl, Ward F., and R. D. Purcell, to General Motors Corp. Horizontal gyrofinishing machine and method. 2,803,093, 8-20-57, Cl. 51-7.
- Diehl, William J., to Richards-Wilcox Mfg. Co. Station selecting signal apparatus for truck conveyor systems. 2,816,516, 12-17-57, Cl. 104-88.
- Diehl, William R., to Stokes and Smith Co. Filling machine. 2,778,387, 1-22-57, Cl. 141-57.
- Diekmann, Heinz, R. Michelsen, and P. Scheller, to Electro-acoustic G. m. B. H. Recording apparatus particularly for measuring short intervals of time. 2,812,997, 11-12-57, Cl. 346-116.
- Diels, Albert, and H. Orth, to Poudreries Reunis de Belgique. Apparatus for and method of loading fusible explosive materials into shell casings and the like. 2,784,638, 3-12-57, Cl. 86-20.
- Dieman, Edgar A., and A. E. Brehm, to Standard Oil Co. Corrosion inhibiting and fingerprint removing composition. 2,796,353, 6-18-57, Cl. 106-14.
- Diemer, Giesinus: *See*—
 De Vries, Gerrit, and Diemer. 2,797,354.
 De Vries, Gerrit, and Diemer. 2,797,355.
- Diemer, Giesinus, to North American Philips Co., Inc. Device for generating electrical oscillations. 2,803,778, 8-20-57, Cl. 315-5.12.
- Diemer, Giesinus, to North American Philips Co., Inc. Triode thermionic tube. 2,803,782, 8-20-57, Cl. 315-40.
- Diemer, Giesinus, K. S. Knol, J. W. Edens, and A. G. W. Uijtens, to North American Philips Co., Inc. Electric discharge tube for high-frequency amplification. 2,797,266, 6-25-57, Cl. 179-171.
- Diemer, Giesinus, K. S. Knol, J. L. H. Jonker, A. Versnel, and H. Groendijk, to North American Philips Co., Inc. Traveling wave tube. 2,813,222, 11-12-57, Cl. 315-3.5.
- Diener, Bernard: *See*—
 Cutler, Leonard S., and Diener. 2,798,952.
- Diening, George W. Adjustable and collapsible easel. 2,784,929, 3-12-57, Cl. 248-35.
- Diepen, George A. M.: *See*—
 Platteeuw, Joost C., Meyer, and Diepen. 2,815,267.
- Dieppa, Ralph. Walking and training rod leash. 2,784,698, 3-12-57, Cl. 119-109.
- Dierick, Gerarda F. E. M., C. P. van Dijk, and F. J. F. van der Plas, to Shell Development Co. Polymeric insecticidal compositions and method for destroying insects. 2,784,136, 3-5-57, Cl. 167-22.
- Dierker, Hugh E. Screw holding screw driver. 2,796,099, 6-18-57, Cl. 145-52.
- Dierker, Hugh E. Screw holding screw driver. 2,796,100, 6-18-57, Cl. 145-52.

- Diesbach, F. B.: *See*—
 Becker, Aloysius. 2,793,855.
 Becker, Aloysius. 2,809,830.
 Katz, Russell. 2,778,659.
- Diessel, Hans: *See*—
 Grooskopf, Herbert, and Diessel. 2,787,671.
- Dietch, Leonard, to Radio Corp. of America. Raster centering control. 2,780,749, 2-5-57, Cl. 315-27.
- Dietch, Leonard, to Radio Corp. of America. Television circuits. 2,794,065, 5-28-57, Cl. 178-5.4.
- Dietch, Leonard, to Radio Corp. of America. Cathode ray beam deflection circuit arrangements. 2,795,734, 6-11-57, Cl. 315-27.
- Dietch, Leonard, to Radio Corp. of America. Deflection coil isolation circuitry. 2,796,552, 6-18-57, Cl. 315-27.
- Dietch, Leonard, to Radio Corp. of America. Adjustable voltage supplies. 2,813,225, 11-12-57, Cl. 315-22.
- Dieterich, Ernest J., to Raytheon Mfg. Co. Time selection devices. 2,799,845, 7-16-57, Cl. 340-174.
- Dieterich, Richard E., and F. A. Werstein, to Phillips Drill Co. Combined handle and key for a percussive drill. 2,801,614, 8-6-57, Cl. 121-36.
- Dieter, Harry W., to Harry W. Dieter Co. Method and apparatus for making molds useful in casting. 2,789,331, 4-23-57, Cl. 22-193.
- Dieter, Harry W. and R. L., and R. E. Steinmueller, to Harry W. Dieter Co. Sand controller. 2,791,120, 5-7-57, Cl. 73-432.
- Dieter, Harry W., Co.: *See*—
 Dieter, Harry W. 2,789,331.
 Dieter, Harry W. and R. L., and Steinmueller. 2,791,120.
- Dieter, Randolph L.: *See*—
 Dieter, Harry W. and R. L., and Steinmueller. 2,791,120.
- Dieterich, Howard H., to General Motors Corp. Anti-detonation device for a carburetor. 2,791,995, 5-14-57, Cl. 123-119.
- Dieterich, James M. Harvester for stalk type crops. 2,793,486, 5-28-57, Cl. 56-27.5.
- Dieterich, Paul, to Maschinenfabrik Augsburg-Nurnberg A. G. Gripper bar support for sheet printing press. 2,776,136, 1-1-57, Cl. 271-51.
- Dieterich, Paul, to Maschinenfabrik Augsburg-Nurnberg A. G. Rotary perfecting printing presses. 2,789,499, 4-23-57, Cl. 101-229.
- Dieterich, Paul, E. Kolland, and F. Rupp, to Maschinenfabrik Augsburg-Nurnberg A. G. Bed and cylinder printing press. 2,791,176, 5-7-57, Cl. 101-283.
- Dieterich, Wilhelm, H.-J. Mertens, and F. Wetter, to Chemische Werke Huls Aktiengesellschaft. Mineral oil base lubricant. 2,793,999, 5-28-57, Cl. 252-47.5.
- Dieterich, Willson G., to Wilson Arts & Crafts. Silk screen paint materials. 2,790,726, 4-30-57, Cl. 106-286.
- Dieterichson, William F.: *See*—
 Kump, Henry, and Dieterichson. 2,782,880.
- Dieterichson, William F., to ACF Industries, Inc. Bulk commodity car. 2,811,115, 10-29-57, Cl. 105-358.
- Dietsch, Arne K., to Telefonaktiebolaget L M Ericsson. Device of open-wire multiple conductors. 2,816,173, 12-10-57, Cl. 179-27.54.
- Dietsch, Francis W.: *See*—
 Musser, C. Walton, and Dietsch. 2,780,961.
- Dietz, Charles H., and R. W. Stanek, to The Standard Register Co. Strip feeding and bursting apparatus. 2,776,007, 1-1-57, Cl. 164-84.5.
- Dietz, Edward A., to McGraw-Edison Co. Phonograph. 2,793,864, 5-28-57, Cl. 274-13.
- Dietz, Gerald E., and A. J. Hilgert, to Milwaukee Gas Specialty Co. Electromagnetically operated control device. 2,787,739, 4-2-57, Cl. 317-133.5.
- Dietz, James E. Head rod holder. 2,787,321, 4-2-57, Cl. 160-47.
- Dietz, Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Shaped construction members for industrial use. 2,802,805, 8-13-57, Cl. 260-38.
- Dietz, Leonard A., to General Electric Co. Mass spectrometer sample inlet system. 2,788,451, 4-9-57, Cl. 250-41.9.
- Dietz, Thomas J., to the United States of America as represented by the United States Atomic Energy Commission. Process of making an expanded cellular product. 2,806,255, 9-17-57, Cl. 18-48.
- Dietz, William H. Seal balancing novelty. 2,776,141, 1-1-57, Cl. 273-153.
- Dietz, William H., to E. I. du Pont de Nemours and Co. Production of titanium by the reduction of titanium tetrachloride by magnesium. 2,812,250, 11-5-57, Cl. 75-84.5.
- Dietze, Willy, to "Solida" Textil- und Netzwaren-Manufaktur Ruthard Dietze K. G. Hair net device. 2,798,500, 7-9-57, Cl. 132-49.
- Dietzel, Frank. Concrete floor washer. 2,784,030, 3-5-57, Cl. 299-47.
- Dietzgen, Eugene, Co.: *See*—
 Unkauf, Henry C. 2,805,159.
- Dietzler, Andrew J.: *See*—
 Beman, Floyd L., and Dietzler. 2,778,857.
- Dietzler, Andrew J., to The Dow Chemical Co. Preparation of 2-tertiary-alkyl-4,6-dinitro-phenols. 2,802,883, 8-13-57, Cl. 260-622.
- Dietzler, Andrew J., and F. Bryner, to The Dow Chemical Co. Process for making tertiary butyl phenols. 2,784,239, 3-5-57, Cl. 260-623.
- Di Falco, Domenick, and P. Di Falco, Jr., to Alco Lumber & Supply Co. Sectional curb for parking lots and the like. 2,794,375, 6-4-57, Cl. 94-31.
- Di Falco, Peter, Jr.: *See*—
 Di Falco, Domenick, and P. Di Falco, Jr. 2,794,375.
- Difley, Walter J. Method of producing dry detergent compositions. 2,791,562, 5-7-57, Cl. 252-138.
- Di Franco, Jack. Sound actuated dancing doll. 2,811,809, 11-5-57, Cl. 46-118.
- Di Geambeardino, John, and B. R. Silverman. Natural or synthetic molded or natural or synthetic covered metallic flush type topping-off valve. 2,804,053, 8-27-57, Cl. 137-223.
- Di Genova, Andrew A., to Miehe-Goss-Dexter, Inc. Ink level control mechanism. 2,813,538, 11-19-57, Cl. 137-443.
- Diggins, Bartholomew A., to S. G. Bair. Packing retainer. 2,812,223, 11-5-57, Cl. 308-89.
- Diggs, Louise S., and W. V. Johnson. Bookholder. 2,777,246, 1-15-57, Cl. 45-80.
- Digicinto, Sam. Surveyor's target staff support. 2,788,578, 4-16-57, Cl. 33-74.
- Di Giorgio, John T. Gas tank cap. 2,784,864, 3-12-57, Cl. 220-40.
- Di Giovanni, Norman P. Heel rests. 2,792,721, 5-21-57, Cl. 74-560.
- Digirolamo, John V. M., to The Lionel Corp. Trackside accessories for toy railroads. 2,817,183, 12-24-57, Cl. 46-12.
- Digital Control Systems, Inc.: *See*—
 Steele, Floyd G. 2,807,716.
 Steele, Floyd G. 2,815,498.
- Dignan, Patrick D., to Devel-O-Pill Corp. Film processing apparatus. 2,810,332, 10-22-57, Cl. 95-94.
- Dignan, Patrick D., to Devel-O-Pill Corp. Film processing apparatus. 2,810,572, 10-22-57, Cl. 271-2.2.
- Dignan, Percival. Ticket issuing machine. 2,781,841, 2-19-57, Cl. 164-48.
- Di Grado, Jean: *See*—
 Di Grado, Salvatore, and McIntyre. 2,808,178.
 Di Grado, Salvatore, and McIntyre. 2,808,179.
- Di Grado, Salvatore, deceased, and E. J. McIntyre; J. Di Grado, executrix of said S. Di Grado, to Beverage Control Sales Co. of Philadelphia, Inc. Automatic registering pouring device. 2,808,178, 10-1-57, Cl. 222-38.
- Di Grado, Salvatore, deceased, and E. J. McIntyre; J. Di Grado, executrix of said S. Di Grado, to Beverage Control Sales Co. of Philadelphia, Inc. Automatic registering pouring device. 2,808,179, 10-1-57, Cl. 222-38.
- Di Guillio, Manuel P., and J. H. Rogers. Turn counting adjustment tool. 2,800,281, 7-23-57, Cl. 235-103.
- Dijkman, Cornelis: *See*—
 Fonteijn, Freerk J., and Dijkman. 2,798,011.
- Dijkman, Cornelis, and F. J. Fonteijn, to Stamicarbon N. V. Removal of froth. 2,800,459, 7-23-57, Cl. 252-321.
- Dilar George R.: *See*—
 Dilar, Georgia and G. R. 2,781,811.
- Dilar, Georgia and G. R. Combined tree wrapper and ground sheet. 2,781,811, 2-19-57, Cl. 150-52.
- Dildilian, Ara T., to Fiber Glass Industries, Inc. Method of making a resin impregnated fiber glass mat and product. 2,794,759, 6-4-57, Cl. 154-101.
- Dildilian, Ara T., and K. M. Wood, to Fiber Glass Industries, Inc. Method of producing fiber glass mats. 2,794,237, 6-4-57, Cl. 28-72.2.
- Dildilian, Ara T., and K. M. Wood, to Fiber Glass Industries, Inc. Fiber glass mat. 2,794,238, 6-4-57, Cl. 28-79.
- Di Lizio, Alexander, and A. La Greca. Twinkling electric illuminated ornament. 2,798,148, 7-2-57, Cl. 240-6.4.
- Dilks, Uelma C. S., to Burroughs Corp. Automatic headlight dimmer. 2,795,736, 6-11-57, Cl. 315-83.
- Dill Mfg. Co., The: *See*—
 Boyer, Ralph K. 2,778,374.
 Boyer, Ralph K. 2,818,101.
- Dill, Raymond C.: *See*—
 Bockrath, Paul U., and Dill. 2,781,839.
- Dillard, Carvel. Fish hook extractor. 2,797,523, 7-2-57, Cl. 43-53.5.
- Dille & McGuire Mfg. Co.: *See*—
 Knarzer, Herman C. 2,791,437.
- Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Apparatus for handling cylindrical objects. 2,795,320, 6-11-57, Cl. 203-75.
- Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Means for moving elongated objects transversely of the line of travel thereof. 2,799,382, 7-16-57, Cl. 198-21.
- Dillingham, James: *See*—
 Snyder, Wesley J., Roth, Dillingham, and Jenson. 2,808,823.
- Dillion, Irving W. Electrical apparatus for sterilizing soil. 2,784,286, 3-5-57, Cl. 219-19.
- Dillman, Earnest J., to Detroit Controls Corp. Heating and cooling control valve. 2,805,025, 9-3-57, Cl. 236-1.
- Dillman, Earnest J., to Detroit Controls Corp. Combination hot water heating and room heating system. 2,813,683, 11-19-57, Cl. 237-8.
- Dillman, Earnest J., and F. C. Galley, to Detroit Controls Corp. Control device. 2,785,253, 3-12-57, Cl. 200-138.
- Dillon, Edwin I., to W. C. Dillon & Co., Inc. Instrument visual indicating means. 2,805,637, 9-10-57, Cl. 116-129.
- Dillon, John D.: *See*—
 Marshall, Byron O., Jr., and Dillon. 2,808,984.

- Dillon, John D., and B. O. Marshall, Jr. Electronic changing of number bases. 2,810,518, 10-22-57, Cl. 235-61.
- Dillon, Oscar W., to American Optical Co. Lens cutting machine. 2,778,115, 1-22-57, Cl. 33-28.
- Dillon, Richard C., to The Standard Oil Co. Thermal diffusion apparatus. 2,788,322, 4-9-57, Cl. 210-176.
- Dillon, Robert J. Blade cartridge for magazine type safety razor. 2,798,594, 7-9-57, Cl. 206-16.
- Dillon, Roger T., to ACF Industries, Inc. Carburetor step-up. 2,803,443, 8-20-57, Cl. 261-41.
- Dillon, Thomas P., and C. L. Whitman, to the United States of America as represented by the Secretary of the Army. Frequency converter. 2,794,119, 5-28-57, Cl. 250-20.
- Dillon, W. C., and Co., Inc.: *See*—
Dillon, Edwin I. 2,805,637.
- Dilts, Lee E.: *See*—
Flaws, John, Jr., Dilts, and Hollopetre. 2,802,308.
- Dilts, Lee E., to General Electric Co. Mount making machine for electric lamps and similar devices. 2,781,796, 2-19-57, Cl. 140-71.6.
- Dilworth, John P., and J. R. Roach, to The Texas Co. Lubricating grease thickened with a sodium or lithium soap and indigo. 2,791,560, 5-7-57, Cl. 252-42.1.
- Dilworth, Thomas B., to General Motors Corp. Condensate drain. 2,812,860, 11-12-57, Cl. 210-92.
- DiManno, Carlo. Mortising tool provided with door jamb clearance compensating means. 2,804,106, 8-27-57, Cl. 144-27.
- Di Marco, Henry A.: *See*—
Barbeau, Raymond A., and Di Marco. 2,792,222.
- Di Mattia, Alfred L., to Dictaphone Corp. Ear-tip for stethoscope type headset. 2,803,308, 8-20-57, Cl. 181-23.
- Dimick, Keene P.: *See*—
Ortegren, Victor H., and Dimick. 2,776,822.
- Di Mino, Alphonse, to Old Town Corp. Variable speed controls for motors. 2,777,964, 1-15-57, Cl. 310-95.
- Di Mino, Angelo. Multiple pattern grader. 2,813,341, 11-19-57, Cl. 33-12.
- Dimke, Harold L., to General Electric Co. Motor protector circuit and thermal protector therefor. 2,808,555, 10-1-57, Cl. 318-221.
- Dimmer, Charles L., to Toledo Dental Products Co. Molding method. 2,790,998, 5-7-57, Cl. 18-55.1.
- Dimmer, Robert P., to General Telephone Laboratories, Inc. Selective signalling system. 2,794,972, 6-4-57, Cl. 340-213.
- Dimmer, Robert P., to General Telephone Laboratories, Inc. Automatic radio receiver selector. 2,803,746, 8-20-57, Cl. 250-20.7.
- Dimmick, Glenn L., and M. E. Widdop, to Radio Corp. of America. Optical device providing a light defining aperture. 2,782,685, 2-26-57, Cl. 88-61.
- Dimmock, Norman A., to Power Jets (Research and Development) Ltd. Jet pipe and jet deflecting nozzle device for a jet-propelled aircraft. 2,791,089, 5-7-57, Cl. 60-35.55.
- Dimond, George H., to Consolidated Packaging Machinery Corp. Material inserting machine. 2,805,531, 9-10-57, Cl. 53-63.
- Dimond, George H., to Consolidated Packaging Machinery Corp. Single station material inserting machine. 2,810,245, 10-22-57, Cl. 53-115.
- Dimond, George H., to Consolidated Packaging Machinery Corp. Capping machine. 2,810,248, 10-22-57, Cl. 53-306.
- Dimond, George H., to Consolidated Packaging Machinery Corp. Capping chuck. 2,811,002, 10-29-57, Cl. 53-342.
- Dimond, George H., to Consolidated Packaging Machinery Corp. Material inserting machine. 2,817,934, 12-31-57, Cl. 53-115.
- Dimond, Harold L.: *See*—
Shrader, Marvin O., and Dimond. 2,809,926.
- Dimond, Harold L., to Pittsburgh Coke & Chemical Co. Separation of gamma picoline. 2,818,411, 12-31-57, Cl. 260-290.
- Dimond, Raymond D., to North Thames Gas Board. Gas meters. 2,795,138, 6-11-57, Cl. 73-262.
- Dimond, Thomas L., to Bell Telephone Laboratories, Inc. Calling subscriber identifier using transitor oscillator in subsets. 2,782,259, 2-19-57, Cl. 179-17.
- Dimpel, Ludwig H.: *See*—
Stayner, Robert A., and Dimpel. 2,786,745.
- Di Nardo, Albert: *See*—
Robertson, Nat C., Gardner, and Di Nardo. 2,780,650.
- Di Nardo, Albert, J. H. Gardner, and N. C. Robertson, to Escambia Chemical Corp. Process for preparing the monoethers of propylene glycol. 2,816,932, 12-17-57, Cl. 260-615.
- Dineen, Francis H., S. A. McNeight, and W. H. Vining, to E. I. du Pont de Nemours & Co. Vinyl acetate reactor. 2,777,760, 1-15-57, Cl. 23-288.
- Dinerstein, Robert A., to Standard Oil Co. Urea adducts of organic sulfur compounds. 2,804,451, 8-27-57, Cl. 260-96.5.
- Dines, James M., to The Eagle-Picher Co. Immersion type battery. 2,806,895, 9-17-57, Cl. 136-90.
- Dines, Noel E.: *See*—
Sherlock, James, and Dines. 2,807,768.
- Dinesen, Laurits. Method of manufacturing a crispy carrot product. 2,785,981, 3-19-57, Cl. 99-100.
- Dinger, Alfons W.: *See*—
Strelow, Heinz G. E., and Dinger. 2,815,581.
- Dinger, Alfons W., to Schoppe & Faeser G. m. b. H. Instrument for testing rotation of conical wheels. 2,815,580, 12-10-57, Cl. 33-179.5.
- Dingman, Glen H., to Bendix Aviation Corp. Electrical apparatus for ignition and lighting. 2,790,914, 4-30-57, Cl. 307-10.
- Dingman, Robert W., L. P. Michel, R. N. Secord, and W. D. Schaeffer, to Godfrey L. Cabot, Inc. Process for making aluminum oxide from hydrated aluminum salts. 2,801,901, 8-6-57, Cl. 23-142.
- Dingman, Thomas C., and W. Gurski, to Ford Motor Co. Motor vehicle handle assembly. 2,776,161, 1-1-57, Cl. 292-353.
- Dingman, Thomas C., and E. F. Cook, to Ford Motor Co. Adjustable vehicle seat. 2,789,622, 4-23-57, Cl. 155-14.
- Dingman, Thomas C., and J. W. Jamieson, to Ford Motor Co. Door lock. 2,815,239, 12-3-57, Cl. 292-280.
- Dings Magnetic Separator Co.: *See*—
Palm, Bernhard A. 2,814,386.
- Dinhofer, Milton. Flexible brush head and means to retain it in a predetermined position. 2,807,820, 10-1-57, Cl. 15-176.
- Dinkelkamp, Henry T., to Stewart-Warner Corp. Follower for lubricant pumps. 2,800,254, 7-23-57, Cl. 222-260.
- Dinning, Robert W.: *See*—
Garrett, Henry U., Peters, and Dinning. 2,790,395.
Garrett, Henry U., Peters, and Dinning. 2,808,781.
- Dinsch, Fred L., to The Plastex Co., a division of The Zimmerman Co. Apparatus for producing plastic pipe. 2,788,543, 4-16-57, Cl. 18-14.
- Dinsmore, Albert P.: *See*—
Christy, Paul J., and Dinsmore. 2,782,863.
Treseder, Robert C., Berninger, Weis, Dinsmore, and Taylor. 2,804,154.
- Dinsmore, Arthur S., to Seneca Falls Machine Co. Multiple jaw chuck with counterbalanced jaws. 2,784,977, 3-12-57, Cl. 279-106.
- Dinsmore, David W.: *See*—
Cunningham, Elijah P., and Dinsmore. 2,794,782.
- Dinsmore, Robert L.: *See*—
Brown, Charles T., Dinsmore, and Deeter. 2,807,527.
- Dinstl, Eduard: *See*—
Steiner, Fritz, and Dinstl. 2,780,105.
- Dinstman, Hyman, to I. D. Watch Case Co., Inc. Pull-out watch case. 2,790,301, 4-30-57, Cl. 58-88.
- Dinstman, Hyman. Crystal and bezel assembly. 2,792,684, 5-21-57, Cl. 58-91.
- Dinstman, Hyman. Watch movement holder ring. 2,799,134, 7-16-57, Cl. 58-88.
- Di Nuzzo, Salvatore A. Flowable-material dispenser. 2,800-256, 7-23-57, Cl. 222-333.
- Dinwiddie, James A., and M. A. Mosesman, to Esso Research and Engineering Co. Preparation of platinum-on-alumina catalyst composite. 2,776,264, 1-1-57, Cl. 252-466.
- Dinwiddie, James A., and M. A. Mosesman, to Esso Research and Engineering Co. Hydroforming catalyst consisting of gamma alumina oxide derived from boehmite and molybdenum blue. 2,813,081, 11-12-57, Cl. 252-465.
- Dioguardi, Orestes, Jr. Closure means for burial vaults. 2,812,966, 11-12-57, Cl. 292-256.75.
- Dion, Warren E., to The Bristol Co. Servo system with quick-action response. 2,780,760, 2-5-57, Cl. 318-29.
- Dion, Warren E., to The Bristol Co. Fail-safe for remote control system. 2,798,993, 7-9-57, Cl. 318-29.
- Dion-Biro, Guy. Constant-pressure spraying apparatus. 2,808,080, 10-1-57, Cl. 141-19.
- Dionisotti, Joseph. Detachable drill bit insert for rock boring tools. 2,815,933, 12-10-57, Cl. 255-61.
- Di Pietro, Harry R.: *See*—
Colten, Frank P., and Di Pietro. 2,796,348.
Colten, Frank P., and Di Pietro. 2,796,349.
- Di Pietro, William O.: *See*—
Singleton, Richard H., and Di Pietro. 2,809,108.
- Dippel, Charles R., to the United States of America as represented by the Secretary of the Navy. Premature arming safety device for torpedoes. 2,787,957, 4-9-57, Cl. 102-16.
- Dippy, Robert J., to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Wireless signalling system. 2,800,652, 7-23-57, Cl. 343-103.
- Dippy, Robert J., to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Wireless systems for navigation. 2,800,653, 7-23-57, Cl. 343-103.
- Di Preta, Michael S. Guitar pick attachment for the forefinger. 2,776,592, 1-8-57, Cl. 84-322.
- Diquattro, Robert G., and R. G. Towle, to Specialties Development Corp. Apparatus for cooling hot gas manifolds. 2,812,633, 11-12-57, Cl. 60-30.
- Diran, Loris M.: *See*—
Pletsch, Erich C., and Diran. 2,798,818.
- Dirksen, Arnold D., and G. S. Elsnor, to Standard-Thomson Corp. Utility lamp. 2,784,304, 3-5-57, Cl. 240-8.16.
- Dirnbach, Peter H.: *See*—
Rothstein, Milton, Rossoff, Levy, Dirnbach, and De Witt. 2,786,926.
- Di Rubbo, Helen L. Floor waxing device. 2,817,105, 12-24-57, Cl. 15-131.
- Disbrow, Donald R., to Union Steam Pump Co. Pump and packing thereof. 2,777,395, 115-57, Cl. 103-111.

- Dishal, Milton, and M. Rogoff, to International Telephone and Telegraph Corp. Continuous wave beacon system. 2,817,082, 12-17-57, Cl. 343-106.
- Disinger, Frank A.: *See—*
Lloyd, William H., Disinger, and Hayden. 2,778,606.
- Dispensers, Inc.: *See—*
Langberg, Samuel, Cohen, and Gumpertz. 2,785,317.
- Disposable Bottle Corp.: *See—*
Allen, Adda M. 2,803,365.
- Disser, Milton E., to Ingersoll-Rand Co. Power-operated impact tool. Re. 24,269, 1-29-57, Cl. 81-52.3.
- Di Stasio and Van Buren: *See—*
Dye, Edward R., and Bird. 2,817,423.
- Di Stefano, John F., to Thompson Products, Inc. Submerged booster pump. 2,808,784, 10-8-57, Cl. 103-113.
- Di Stefano, Joseph V. Rotary painting brush. 2,806,236, 9-17-57, Cl. 15-29.
- Distel, Maurice, to the United States of America as represented by the Secretary of the Army. Flash ranging system. 2,795,163, 6-11-57, Cl. 88-1.
- Distillers Co. Ltd., The: *See—*
Bessant, Kenneth H. C., Goodchild, Hollis, Hutchinson, and Kemp. 2,784,177.
Cleverdon, Desmond. 2,818,398.
Dalgleish, Alexander, and Lacey. 2,792,421.
Elce, Alec, Robson, and Young. 2,800,504.
Graham, Archibald R., and Millidge. 2,811,557.
Habeshaw, John, Elce, Robson, Armstrong, and Young. 2,800,505.
Hadley, David J., Hall, and Jacobs. 2,810,763.
Hall, Reginald H., and Jacobs. 2,800,513.
Howlett, John, and Archer. 2,800,434.
Hutchinson, Henry M., and Stevens. 2,797,209.
Hutchinson, Henry M., and Stevens. 2,801,992.
Jacobs, David I. H. 2,803,345.
Long, Dennis J. G. 2,800,507.
Millidge, Alfred F., Robson, and Elce. 2,800,506.
Munday, Charles W. 2,784,335.
Turner, John H. W., Anthony, and Bramwyche. 2,809,178.
Turner, John H. W., Anthony, and Bramwyche. 2,809,181.
- Di Stio, Anthony J., J. W. Massey, and H. A. Slingsby, to Beech Aircraft Corp. Electrical power control system for jet engine starting. 2,801,378, 7-30-57, Cl. 318-144.
- Ditesheim, Bernard, to Fabriques Movado. Watch having a rectangular case enclosed in a protecting sheath. 2,786,328, 3-26-57, Cl. 58-88.
- Di Tirro, Domenic A., to Ross Operating Valve Co. Single-stroke pressure operated cut-off valve and system for operation therewith. 2,793,619, 5-28-57, Cl. 121-38.
- Ditman, John G., and F. T. Mertens, to Foster Wheeler Corp. Sulfur purification process. 2,809,885, 10-15-57, Cl. 23-310.
- Dit-Mco, Inc.: *See—*
Heller, George P. 2,785,621.
- Di Toro, Michael J., W. Graham, and S. M. Schreiner, to International Telephone and Telegraph Corp. Compressed frequency communication system. 2,810,787, 10-22-57, Cl. 179-15.
- Di Trapani, Frank. Steak broiler. 2,779,266, 1-29-57, Cl. 99-425.
- Dittman, Albert L.: *See—*
Passino, Herbert J., Dittman, and Wrightson. 2,783,219.
- Dittman, Albert L., and J. M. Wrightson, to The M. W. Kellogg Co. Polymerization of perhalocarbons with chloropropionyl peroxides. 2,784,176, 3-5-57, Cl. 260-92.1.
- Dittmar, Gerhard, E. Enders, and R. Pütter, to Farbenfabriken Bayer Aktiengesellschaft. Monoazo dyestuffs. 2,802,817, 8-13-57, Cl. 260-151.
- Dittmar, Gerhard, and R. Pütter, to Farbenfabriken Bayer Aktiengesellschaft. Chrome-containing monoazo dyestuffs. 2,816,885, 12-17-57, Cl. 260-151.
- Dittmar, Harry R.: *See—*
Ligett, Waldo B., Wolf, and Dittmar. 2,786,795.
- Dittmer, Fritz: *See—*
Frauböse, Heinrich, and Dittmer. 2,792,923.
- Ditto, Inc.: *See—*
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Levin, Carl A., and Quirk. 2,804,014.
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Smitzer, Louis A. 2,812,047.
- Dittrich, Edwin L., to The Pfaunder Co. Lauter tubs. 2,782,013, 2-19-57, Cl. 259-108.
- Dittrich, Otto: *See—*
Gesche, Werner, and Dittrich. 2,803,144.
- Ditzel, Johannes. Dispensing devices for strip material. 2,789,818, 4-23-57, Cl. 271-2.4.
- D'IVacheff, Georges: *See—*
Wetroff, Georges, D'IVacheff, and Khaladji. 2,807,633.
- Divelbiss, Hubert N.: *See—*
Storck, Alexander D., and Divelbiss. 2,786,914.
Storck, Alexander D., and Divelbiss. 2,811,600.
- Diversey Corp., The: *See—*
Ellis, John G., and Dvorkovitz. 2,815,311.
- Di Vincenzo, Angelo M. Carving plastic. 2,796,356, 6-18-57, Cl. 106-272.
- Divine, Harris W., to S. P. Belsinger. Wardrobe box and holder hanger therefor. 2,796,977, 6-25-57, Cl. 206-7.
- Di Vito, Frank. Window construction and guide therefor. 2,779,981, 2-5-57, Cl. 20-52.4.
- Dix Mfg. Co.: *See—*
Perinoni, Dominic. 2,783,862.
- Dixie Cup Co.: *See—*
Holzwarth, Henry A., and Wark. 2,785,551.
- Dixie Sports, Inc.: *See—*
Boling, Walter H. 2,790,418.
- Dixie Wax Paper Co.: *See—*
Bryce, William H. 2,778,175.
- Dixi S. A.: *See—*
Beilmann, Reinhold. 2,808,741.
- Dixler, Julius. Viewer for photographic slides. 2,805,500, 9-10-57, Cl. 40-63.
- Dixon, Charles H., to Ex-Cell-O Corp. Container denesting and feeding mechanism. 2,792,967, 5-21-57, Cl. 221-210.
- Dixon, David W.: *See—*
Northcote, John A., and Dixon. 2,815,631.
Northcote, John A., and Dixon. 2,818,269.
- Dixon, Henry L., to The B. F. Goodrich Co. Skid-resistant conveyor beltting. 2,784,835, 3-12-57, Cl. 198-198.
- Dixon, Henry O., to Phillips Petroleum Co. Production of oil by in situ combustion. 2,818,118, 12-31-57, Cl. 166-11.
- Dixon, James K., and R. L. Morgan, to American Cyanamid Co. Soil stabilization. 2,801,983, 8-6-57, Cl. 260-41.
- Dixon, James K., S. W. Tribit, and W. O. Fugate, to American Cyanamid Co. Fluidized silica gel catalysts containing vanadium pentoxide and oxides of metals of group III-B and IV-A. 2,809,939, 10-15-57, Cl. 252-456.
- Dixon, Joseph, Crucible Co.: *See—*
Ahlman, Gordon V., and Wyckoff. 2,784,164.
- Dixon, Joseph R. Bracket for concrete-forms. 2,805,833, 9-10-57, Cl. 248-248.
- Dixon Lubricating Saddle Co.: *See—*
Rulon-Miller, Robert, and Tabor. 2,810,938.
- Dixon, Paul H., to the United States of America as represented by the Secretary of the Army. Cartridge belt link and strength member therefor. 2,780,963, 2-12-57, Cl. 89-35.
- Dixon, Paul H., to the United States of America as represented by the Secretary of the Army. Closed cartridge belt link convertible to an open side stripping structure. 2,804,807, 9-3-57, Cl. 89-35.
- Dixon, Paul H., to the United States of America as represented by the Secretary of the Army. Mechanical bolt unlocking mechanism for recoiling barrel guns. 2,811,902, 11-5-57, Cl. 89-165.
- Dixon, Paul H., to Dixon Research, Inc. Electrical switch construction. 2,812,402, 11-5-57, Cl. 200-86.5.
- Dixon, Paul H., to Dixon Research, Inc. Coil handling device. 2,816,792, 12-17-57, Cl. 294-103.
- Dixon, Paul H., and M. B. Wallin, to the United States of America as represented by the Secretary of the Army. Bolt spline. 2,775,920, 1-1-57, Cl. 89-188.
- Dixon, Reginald J., and W. H. Bateman, to Firth Sterling Inc. Means for use in the working of metals by electroerosion. 2,818,490, 12-31-57, Cl. 219-69.
- Dixon Research, Inc.: *See—*
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- Dixson, Bruce E., to Northrop Aircraft, Inc. Directional gyro. 2,816,448, 12-17-57, Cl. 74-5.4.
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- Djerassi, Carl, G. Rosenkranz, and J. Pataki, to Syntex S. A. Process for the preparation of 16 α , 17 α -oxido- Δ^5 -pregnene-3 β -ol-20-one. 2,782,193, 2-19-57, Cl. 260-239.55.
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- Doak, Kenneth W., to United States Rubber Co. Rubber treatment. 2,791,572, 5-7-57, Cl. 260—41.5.
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- DoAll Co., The: *See—*
- Anderson, William T. 2,786,788.
- Doan, Robert B.: *See—*
- Keenan, Vincent J., Gozlow, and Doan. 2,804,391.
- Doane, Harry C.: *See—*
- Fuqua, Lloyd T., and Doane. 2,791,721.
- Doane, Harry C., to General Motors Corp. Refrigerating apparatus for an automobile. 2,779,164, 1-29-57, Cl. 62—6.
- Doane, Harry C., to General Motors Corp. Ornamental article. 2,781,597, 2-19-57, Cl. 41—35.
- Doat, Robert, K. Heimberg, and M. Paschke, to Compagnie Generale de Conduites d'Eau. Process of producing iron containing manganese. 2,787,535, 4-2-57, Cl. 75—43.
- Doba, Stephen, Jr., to Bell Telephone Laboratories, Inc. Single frequency transmission lineup for amplifiers. 2,813,157, 11-12-57, Cl. 179—171.
- Dobeckmun Co., The: *See—*
- Holes, Floyd A. 2,800,725.
- Dobbertin, Willard H., to Hoffman Electronics Corp. Ultra high frequency harmonic generators or the like. 2,817,760, 12-24-57, Cl. 250—36.
- Dobbins, Donald A. Conveyor element. 2,778,480, 1-22-57, Cl. 198—195.
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- Dobell, Curzon, to The Preload Co., Inc. Method of erecting prestressed floor sections. 2,776,471, 1-8-57, Cl. 29—452.
- Dobell, Curzon, to Stresssteel Corp. Post-stressed concrete structure. 2,781,658, 2-19-57, Cl. 72—50.
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- Doble Engineering Co.: *See—*
- Doble, Frank C. 2,807,956.
- Doble, Frank C., to Doble Engineering Co. Measurement of water in fluids. 2,807,956, 10-1-57, Cl. 73—73.
- Doble, Warren, to Jabsco Pump Co. Flexible vane pump impeller. 2,789,511, 4-23-57, Cl. 103—117.
- Doble, Warren, and A. E. Doerr, to Jabsco Pump Co. Shaft seal for pumps. 2,782,723, 2-26-57, Cl. 103—117.
- Doblihoff, Friedrich L., to The Fairey Aviation Co. Ltd. Jet propulsion of helicopters. 2,818,223, 12-31-57, Cl. 244—17.19.
- Dobosy, Joseph F. Direct coupled high fidelity amplifier. 2,777,020, 1-8-57, Cl. 179—171.
- Dobratz, Elmer H., to Monsanto Chemical Co. Purification of fumaric acid. 2,784,224, 3-5-57, Cl. 260—537.
- Dobratz, Elmer H., to Koppers Co., Inc. Chemical process. 2,816,123, 12-10-57, Cl. 260—437.
- Dobratz, Robert E. Window paint scraper. 2,787,056, 4-2-57, Cl. 30—170.
- Dobratz, Robert E. Mousetrap package. 2,789,691, 4-23-57, Cl. 206—46.
- Dobres, Robert M., to Socony Mobil Oil Co., Inc. Preparation of chromia-containing hydrogels. 2,807,593, 9-24-57, Cl. 252—465.
- Dobrin, Alvin R., and M. Lange. Floral display rack. 2,777,584, 1-15-57, Cl. 211—137.
- Dobrogowski, Daniel T., R. M. Roen, and R. H. Jones, to Milwaukee Stamping Co. Automatic phonograph with novel tone arm control. 2,803,465, 8-20-57, Cl. 274—10.
- Dobrossavlyevitch, Slobodan M. Monovalve diesel engine with air cooling. 2,804,859, 9-3-57, Cl. 123—32.
- Dobry, Joseph F.: *See—*
- Kelly, Bernard J., Benedict, and Dobry. Re. 24,394.
- Dobson, John V.: *See—*
- Lynn, Clarence, and Dobson. 2,780,741.
- Dobyns, Howard B.: *See—*
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- Dochterman, Richard W., to General Electric Co. Submersible pump-motor. 2,782,720, 2-26-57, Cl. 103—87.
- Dock, Mortimer R. Self-locking nut and threaded male member assembly, and parts thereof. 2,788,044, 4-9-57, Cl. 151—21.
- Dockendorff, Ralph L.: *See—*
- Bennett, Rufus B., Dockendorff, Powers, and Speed. 2,810,772.
- Dockhorn, Wayne A. Stereoscopic apparatus. 2,810,318, 10-22-57, Cl. 88—16.6.
- Doctor Acopian, Sarkis, to Weller Electric Corp. Vibratory sanding tool. 2,790,276, 4-30-57, Cl. 51—170.
- Dr. Ing. h. c. F. Porsche K.-G.: *See—*
- Porsche, Ferdinand A. E. 2,788,873.
- Porsche, Ferdinand A. E., and Forstner. 2,788,866.
- Dr. Salsbury's Laboratories: *See—*
- McGuire, Willis C., Morehouse, Walde, and Van Essen. 2,815,313.
- Doczi, John, to Warner-Lambert Pharmaceutical Co. Process for purification of chitosan by means of the salicylic acid salt thereof. 2,795,579, 6-11-57, Cl. 260—211.
- Dodd, Arthur E., to Westinghouse Air Brake Co. Protection against momentary loss of track circuit shunt. 2,790,070, 4-23-57, Cl. 246—34.
- Dodd, Arthur E., and J. E. McMahon, Jr., to Westinghouse Air Brake Co. Railway traffic controlling apparatus. 2,816,217, 12-10-57, Cl. 246—3.
- Dodd, George A., and J. Boura, to British Telecommunications Research Ltd. Thermionic valve amplifying circuits. 2,782,264, 2-19-57, Cl. 179—171.
- Dodd, John. Device for the attachment of tools, for tapping and studding operations to power operated drilling machines. 2,791,433, 5-7-57, Cl. 279—79.
- Dodd, John H. Handsaw. 2,780,256, 2-5-57, Cl. 145—31.
- Dodds, Harry W., to the United States of America as represented by the United States Atomic Energy Commission. Method for producing malleable and ductile beryllium bodies. 2,818,339, 12-31-57, Cl. 75—225.
- Dodds, Harry W., and C. B. Sawyer, to the United States of America as represented by the United States Atomic Energy Commission. Fabrication of intricate shapes from beryllium. 2,794,241, 6-4-57, Cl. 29—420.5.
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- Dodds, John M., to Metropolitan-Vickers Electrical Co. Ltd. Electrical pulse generators. 2,811,654, 10-29-57, Cl. 307—108.
- Dodds, Wellesley J., to Radio Corp. of America. Electron discharge device. 2,784,346, 3-5-57, Cl. 315—39.63.
- Dodds, Wellesley J., to Radio Corp. of America. Traveling wave electron tube. 2,802,135, 8-6-57, Cl. 315—3.5.
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- Dodge, Adiel Y. Air conditioning apparatus. 2,783,623, 3-5-57, Cl. 62—140.
- Dodge, Adiel Y. One way clutch. 2,783,864, 3-5-57, Cl. 192—45.1.
- Dodge, Adiel Y., to Borg-Warner Corp. Wedge type one-way clutch. 2,785,782, 3-19-57, Cl. 192—45.
- Dodge, Adiel Y. Single revolution clutches. 2,787,355, 4-2-57, Cl. 192—33.
- Dodge, Adiel Y. Power transmitting mechanism. 2,801,721, 8-6-57, Cl. 192—53.
- Dodge, Adiel Y. One way clutch. 2,803,324, 8-20-57, Cl. 192—45.1.
- Dodge, Adiel Y., to Borg-Warner Corp. One way clutch. 2,815,838, 12-10-57, Cl. 192—45.
- Dodge, Clarice B. Apparatus for washing and drying clothes. 2,777,313, 1-15-57, Cl. 68—20.
- Dodge, Erle H., to Sylvania Electric Products Inc. Exhaust machine head assembly. 2,799,982, 7-23-57, Cl. 53—88.
- Dodge, Floyd L., to The Wade Tool Co. Variable speed drive. 2,814,959, 12-3-57, Cl. 74—74.5.
- Dodge, Frank H.: *See—*
- Meysan, Charles H., and Dodge. 2,777,659.
- Dodge, Howard M.: *See—*
- Baker, Walter S., and Dodge. 2,800,959.
- Dodge, Inc.: *See—*
- Klein, Raymond N., and Corda. 2,818,293.
- Dodge Mfg. Corp.: *See—*
- Firth, David. 2,779,643.
- Shank, Carl K. 2,808,730.
- Dodge, Merton L., to Continental Can Co., Inc. Can end sorting apparatus. 2,803,343, 8-20-57, Cl. 209—111.
- Dodge, Robert J., to The Light House, Inc. Battery power supply system. 2,818,543, 12-31-57, Cl. 320—3.
- Dodge, Russell A., and J. L. York, to the United States of America as represented by the Secretary of the Air Force. Photographic analysis of sprays. 2,779,233, 1-29-57, Cl. 88—14.
- Dodge Steel Co.: *See—*
- McKee, William F. 2,789,325.
- Dodge, Stephen W., Jr., to Radio Corp. of America. Multi-electrode semiconductor devices. 2,801,347, 7-30-57, Cl. 307—88.5.
- Dodgson, Douglas P., to Monsanto Chemicals Ltd. Ethyl silicate. 2,799,693, 7-16-57, Cl. 260—448.8.
- Dodginton, Sven H. M., to International Telephone and Telegraph Corp. Multi-channel radio equipment. 2,790,079, 4-23-57, Cl. 250—36.
- Dodginton, Sven H. M., to International Telephone and Telegraph Corp. Frequency discriminator circuit. 2,791,690, 5-7-57, Cl. 250—27.
- Dodginton, Sven H. M., to International Telephone and Telegraph Corp. Automatic level control of local oscillation in superheterodyne receiver. 2,798,947, 7-9-57, Cl. 250—20.
- Dodson, John M.: *See—*
- Booth, Robert B., and Dobson. 2,784,468.
- Dodson, Raymond M., to G. D. Searle & Co. 2,4-diaminothiazoles containing a halogenated aryl radical in the 5-position and derivatives. 2,776,978, 1-8-57, Cl. 260—306.8.
- Dodson, Raymond M., to G. D. Searle & Co. 8-oxo and 8-hydroxy derivatives of 1-acetyl-10a,12a-dimethyltetradecahydrochrysenes. 2,784,234, 3-5-57, Cl. 260—586.
- Dodson, Raymond M., to G. D. Searle & Co. 16-(α -aminoalkyl)-4-pregnene-3,20-diones and their acyl derivatives. 2,794,815, 6-4-57, Cl. 260—397.3.

- Dodson, Raymond M., to G. D. Searle & Co. 2-(oxo and imino)-3-(phenyl and halophenyl)-tetrahydrofuransulfones and processes for the manufacture thereof. 2,802,018, 8-6-57, Cl. 260—343.6.
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- Dodson, Raymond M., and R. D. Muir, to G. D. Searle & Co. 1-hydroxy-4-androstene-3,17-dione and esters thereof. 2,805,231, 9-3-57, Cl. 260—397.4.
- Dodson, Raymond M., and P. B. Sollman, to G. D. Searle & Co. 17-alkylsulfonyl and 17-alkylsulfinyl substitution products of 4-androsten-3-one. 2,806,041, 9-10-57, Cl. 260—397.3.
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- Dodsworth, James W., to Monroe Calculating Machine Co. Carriage control means for listing calculators. 2,780,407, 2-5-57, Cl. 235—60.46.
- Doe, Walter P., and L. W. Sly, to Fisher-Price Toys, Inc. Action toy. 2,810,986, 10-29-57, Cl. 46—99.
- Doede, Clinton M., and F. L. Kilbourne, Jr., to The Connecticut Hard Rubber Co. Silicone rubber-esterified silica composition. 2,777,827, 1-15-57, Cl. 260—37.
- Doeg, Ralph W., to Nash-Kelvinator Corp. Two evaporator refrigerating system. 2,777,297, 1-15-57, Cl. 62—3.
- Doelling, George L., and C. E. Swander, to Wagner Electric Corp. Brake fluid. 2,803,605, 8-20-57, Cl. 252—79.
- Doelz, Melvin L., to Collins Radio Co. Elimination of spurious response in an electromechanical filter. 2,802,992, 8-13-57, Cl. 333—71.
- Doepken, Albert L. Process of preparing hams. 2,789,908, 4-23-57, Cl. 99—107.
- Doerflner, William H., to General Motors Corp. Ball nut screw assembly. 2,779,206, 1-29-57, Cl. 74—459.
- Doering, Robert J., W. C. Kleinfelder, and H. E. Pawel, to Bell Telephone Laboratories, Inc. Splice closure for sheathed cable. 2,788,385, 4-9-57, Cl. 174—92.
- Doerner, Ernest H., to Cummins-Chicago Corp. Feeder for checks and like paper. 2,779,593, 1-29-57, Cl. 271—39.
- Doerner, Otto, to Dormeyer Corp. Eyeguard for power saw. 2,795,248, 6-11-57, Cl. 143—159.
- Doerr, Albert E.: See—
- Doerr, Warren, and Doerr. 2,782,723.
- Doerr, Dale W., E. R. Series, and D. L. Deardorff, to University of Illinois Foundation. Sodium carboxymethyl cellulose tablet coating. 2,816,061, 12-10-57, Cl. 167—82.
- Doerr, Dale W., E. R. Series, and D. L. Deardorff, to University of Illinois Foundation. Hydroxyethyl cellulose tablet coating. 2,816,062, 12-10-57, Cl. 174—82.
- Doerr, Richard L., to Olin Mathieson Chemical Corp. Soldering flux composition and method of joining aluminum therewith. 2,801,194, 7-30-57, Cl. 148—23.
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- Doerrfeld, Robert L., to Teletypesetter Corp. Control unit for composing machines. 2,811,242, 10-29-57, Cl. 199—22.
- Doetsch, Frederick. Rural mailbox signal flag. 2,809,780, 10-15-57, Cl. 232—35.
- Doetsch, Wilhelm. Method of and device for making letter envelopes. 2,791,161, 5-7-57, Cl. 93—62.
- Doggett, Towers: See—
- Brinnick, Frederic E., Doggett, and Oransky. 2,778,735.
- Brinnick, Frederic E., Reilly, and Doggett. 2,778,301.
- Doherty, Wilfred T.: See—
- Teague, James U., and Doherty. 2,812,025.
- Doherty, William H., to Bell Telephone Laboratories, Inc. Electrical conductors having transposed conducting elements. 2,779,814, 1-29-57, Cl. 174—102.
- Doherty, William H. Shoe stretching apparatus with adjustable toe and heel pieces. 2,789,294, 4-23-57, Cl. 12—116.2.
- Doherty, William H., to Bell Telephone Laboratories, Inc. Transposed coaxial conductor system. 2,812,502, 11-5-57, Cl. 333—96.
- Dohler, Oscar: See—
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- Warnecke, Robert, Kleen, Huber, and Dohler. 2,794,146.
- Dohn, Herman W., and R. E. Grossman. Manually operable paint dispensing apparatus. 2,791,353, 5-7-57, Cl. 222—205.
- Dohogne, Linus E., to National Cotton Compress and Cotton Warehouse Association. Multiple load weighing assembly. 2,777,682, 1-15-57, Cl. 265—71.
- Dohrmann, Henry C.: See—
- Sohlman, Nils F., Mullen, and Dohrmann. 2,812,035.
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- Doigan, Paul, to General Electric Co. Electrical insulating structure and method of making the same. 2,792,871, 5-21-57, Cl. 154—2.6.
- Dokken, Einar. Pipe and tube couplings and fittings. 2,816,611, 12-17-57, Cl. 166—85.
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- Dolan, Arthur. Faucet attachment. 2,785,881, 3-19-57, Cl. 261—71.
- Dolan, Louis A., and B. H. Lundgren, to Sundstrand Machine Tool Co. Pump. 2,787,963, 4-9-57, Cl. 103—126.
- Dolan, Patrick T. Automatic immersion apparatus. 2,804,840, 9-3-57, Cl. 118—11.
- Dolansky, Charles H. Expandable bracelet with recessed connecting links. 2,799,135, 7-16-57, Cl. 59—79.
- Dolbey, Norman L., and F. C. Hooper, to J. W. Roberts Ltd. Thermal insulating structures and methods for the production thereof. 2,788,053, 4-9-57, Cl. 154—28.
- Dolby, Ray M., L. L. Fisher, and J. M. Wernli, to Ampex Electric Corp. System and method for recording and reproducing records. 2,797,263, 6-25-57, Cl. 179—100.1.
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- Ryan, James F., Jr., and Kapp. 2,785,706.
- Ryan, James F., Jr., and Kapp. 2,785,707.
- Dole Refrigerating Co.: See—
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- Bauerlein, Carl C. 2,785,546.
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- Kraft, El Roy J. 2,781,979.
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- Legeza, Thomas B., and Modes. 2,778,197.
- Lund, James K. 2,811,314.
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- Obermaier, Frank E. 2,797,875.
- Reddi, Mullapudi M. 2,797,546.
- Rimsha, Victor E. 2,815,174.
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- Dolecki, Matthew J., and E. M. Warner, to Joy Mfg. Co. Generating system. 2,813,984, 11-19-57, Cl. 290—10.
- Doleman, Jack, to The British Rayon Research Association, and T. M. M. (Research) Ltd. Method of and means for continuously spreading filaments. 2,778,065, 1-22-57, Cl. 19—65.
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- Dolin, Bruce. Automatic dialer for telephones. 2,783,309, 2-26-57, Cl. 179—90.
- Dolison, Dewey H. Automobile passenger cooling system. 2,817,282, 12-24-57, Cl. 98—2.
- Doll, Claude S., C. E. Greene, and W. B. Ailes, to The Monarch Machine Tool Co. Machine tool control apparatus. 2,777,350, 1-15-57, Cl. 82—14.
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- Koppers, Hans H., and Doll. 2,802,778.
- Schürhoff, Heinrich, and Doll. 2,789,086.
- Van Ackeren, Paul, and Doll. 2,796,995.
- Doll, Franz, to Koppers Co., Inc. Self-sealing door. 2,780,590, 2-5-57, Cl. 202—248.
- Doll, Franz, to Koppers Co., Inc. Door fastener operating means. 2,798,752, 7-9-57, Cl. 292—260.
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- Doll, Henri-Georges, to Schlumberger Well Surveying Corp. Phase rejection networks. 2,788,483, 4-9-57, Cl. 324—6.
- Doll, Henri-Georges, to the United States of America as represented by the Secretary of the Army. Coil assembly for geophysical prospecting. 2,807,777, 9-24-57, Cl. 324—3.
- Doll, Henri-Georges, to Schlumberger Well Surveying Corp. Well logging apparatus. 2,813,249, 11-12-57, Cl. 324—1.
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- Doll, Walter, Jr., to United Aircraft Corp. Compressor blading. 2,801,790, 8-6-57, Cl. 230—132.
- Dollahite, Alga B. Automatic door mechanism. 2,798,316, 7-9-57, Cl. 39—18.
- Dollar, Fred W. Article-carrying sock. 2,814,807, 12-3-57, Cl. 2—239.
- Dollen, Lynn M. Cultivator shield. 2,804,815, 9-3-57, Cl. 97—188.

- Dolney, Stanley M., and H. W. Hein, to The Cyril Bath Co. Method and apparatus for stretch forming elongated metal stock by wire forming said stock lengthwise thereof. 2,810,421, 10-22-57, Cl. 153-40.
 Doinick, Seymour S., to Rhea Mfg. Co. Cover for toilet flush tank. 2,788,043, 4-9-57, Cl. 150-52.
 Dols, Harold D., to Hiram Walker & Sons, Inc. Package container for gift merchandise. 2,808,194, 10-1-57, Cl. 229-87.
 Dolza, John: *See—*
 Chayne, Charles A., and Dolza. 2,798,663.
 Dolza, John, to General Motors Corp. Fuel supply system. 2,796,057, 6-18-57, Cl. 123-139.
 Dolza, John, to General Motors Corp. Crankcase ventilation system. 2,797,674, 7-2-57, Cl. 123-119.
 Dolza, John, to General Motors Corp. Refrigerating apparatus. 2,801,827, 8-6-57, Cl. 257-7.
 Dolza, John, to General Motors Corp. Engine. 2,808,041, 10-1-57, Cl. 123-52.
 Dolza, John, H. W. Bielicki, and E. R. Pierce, to General Motors Corp. Windshield wiper motor. 2,789,545, 4-23-57, Cl. 121-123.
 Dolza, John, and J. B. Burnell, to General Motors Corp. Cylinder block coring for V-engines. 2,783,510, 3-5-57, Cl. 22-131.
 Dolza, John, and E. R. Pierce, to General Motors Corp. Hydraulic windshield wiper motor. 2,778,345, 1-22-57, Cl. 121-164.
 Dolza, John, and H. F. Pease, to General Motors Corp. Engine fuel controller. 2,779,422, 1-29-57, Cl. 170-135.74.
 Domagk, Gerhard: *See—*
 Meiser, Werner, and Domagk. 2,814,626.
 Meiser, Werner, and Domagk. 2,815,377.
 Petersen, Sigfried, Bayer, Offe, and Domagk. 2,794,019.
 Petersen, Sigfried, Bayer, Offe, and Domagk. 2,801,246.
 Doman, Glidden S., to Doman Helicopters, Inc. Rotor head and swash plate means combination. 2,810,443, 10-22-57, Cl. 170-160.26.
 Doman Helicopters, Inc.: *See—*
 Doman, Glidden S. 2,810,443.
 Dombek, Edward K., to Bendix Aviation Corp. Brake and anchor assembly. 2,781,867, 2-19-57, Cl. 188-78.
 Dombrowsky, Max. Multipurpose article of wearing apparel. 2,779,945, 2-5-57, Cl. 2-116.
 Dombrowski, Richard J., to Allied Chemical & Dye Corp. Manufacture of dihydroxydibenzanthrone. 2,785,187, 3-12-57, Cl. 260-355.
 Domburg, Jacobus: *See—*
 Six, Willem, and Domburg. 2,780,674.
 Six, Willem, and Domburg. 2,801,369.
 Six, Willem, and Domburg. 2,812,384.
 Willem, Six, and Domburg. 2,790,030.
 Dome, Robert B. Frequency modulation detector. 2,794,912, 6-4-57, Cl. 250-25.
 Domenech, Gerardo A. and V. A., to Waldes Kohinoor, Inc. Connecting device. 2,816,340, 12-17-57, Cl. 24-217.
 Domenech, Vicente A.: *See—*
 Domenech, Gerardo A. and V. A. 2,816,340.
 Domenico, Stephen P., to Diebold Inc. Vault doorsill construction. 2,814,262, 11-26-57, Cl. 109-87.
 Domin, Heinz, to Firma Linneemann-Schnetzler K. G. Adjusting apparatus. 2,777,417, 1-15-57, Cl. 116-115.
 Domingo, Emil, and F. L. Peragallo, to Henze Instrument and Valve Inc. Liquid detecting device. 2,798,215, 7-2-57, Cl. 340-239.
 Domingo, Emil, and F. L. Peragallo, to Henze Instrument and Valve Inc. Temperature sensing devices. 2,804,773, 9-3-57, Cl. 73-368.4.
 Dominik, Jack E.: *See—*
 Blair, Frank P. 2,814,526.
 Dominion Corset Co. Ltd.: *See—*
 Verreault, Joseph. 2,781,518.
 Dominion Electric Corp.: *See—*
 Reis, William A. 2,805,302.
 Dominion Engineering Works Ltd.: *See—*
 Stewart, Alexander E., and Williams. 2,797,623.
 Williams Stanley C. 2,782,693.
 Dominion Foundries and Steel Ltd.: *See—*
 Vansickle, Calvin L. 2,801,756.
 Dominion Magnesium Ltd.: *See—*
 Froats, Allan. 2,797,990.
 Rostron, Douglas W., and Timm. 2,800,404.
 Warrington, Harold G. 2,808,322.
 Dominion Tar and Chemical Co.: *See—*
 Brown, Collingwood B. 2,786,810.
 Dominion Textile Co. Ltd.: *See—*
 Altosaar, Heino. 2,792,700.
 Domino, Karl A., to The Williams Pivot Sash Co. Pivoted window mounting. 2,813,332, 12-17-57, Cl. 20-49.
 Dommann, Günther. Drives for automatic mining machines of the planer type. 2,810,565, 10-22-57, Cl. 262-8.
 Dommann, Günther. Mining conveyors. 2,818,164, 12-31-57, Cl. 198-204.
 Dommel, Homer K., and C. F. Adams, to The Oliver Corp. Electrically controlled fluid motor. 2,817,317, 12-24-57, Cl. 121-38.
 Domsch, Hans, to Siemens & Halske Aktiengesellschaft. Rotary piston type liquid meter. 2,789,434, 4-23-57, Cl. 73-257.
 Don, Alexander L. Holder for adjustably supporting a paint brush. 2,817,866, 12-31-57, Cl. 15-146.
 Donachie, Matthew J., to The Beryllium Corp. Beryllium-copper alloys. 2,789,899, 4-23-57, Cl. 75-153.
 Donaghy, Frank T.: *See—*
 Nagle, Joseph J. 2,802,320.
 Donahay, John W., to Foote Mineral Co. Ceramic product and body and method of making the same. 2,776,899, 1-8-57, Cl. 106-45.
 Donahoe, Joe T., to General Electric Co. Terminal arrangement for electric motors. 2,801,354, 7-30-57, Cl. 310-71.
 Donahue, Daniel J., to Radio Corp. of America. Art of making color-phosphor screens. 2,785,331, 3-12-57, Cl. 313-92.
 Donahue, Daniel J., to Radio Corp. of America. Methods and means for transferring printed indicia. 2,796,374, 6-18-57, Cl. 154-95.
 Donahue, James E., to Westinghouse Electric Corp. Pressure compensated conduit structure. 2,787,124, 4-2-57, Cl. 60-70.
 Donahue, John S., and G. E. Strehan, to Lally Column Co. Head frame for structural column. 2,816,435, 12-17-57, Cl. 72-15.
 Donahue, Walter W.: *See—*
 Ethington, Lloyd D., Donahue, Dow, and Giertz. 2,809,532.
 Donahue, William A. Fretted electronic musical instrument. 2,792,738, 5-21-57, Cl. 84-267.
 Donahue, William J., Jr. Fuze for small caliber projectile. 2,781,725, 2-19-57, Cl. 102-79.
 Donal, John S., Jr., to Radio Corp. of America. Multi-cavity magnetron. 2,798,951, 7-9-57, Cl. 250-36.
 Donald, William P., to The Wean Engineering Co., Inc. Sheet staggering device. 2,816,762, 12-17-57, Cl. 271-86.
 Donaldson, Chase. Method of forming fiber reinforced fabrics. 2,803,576, 8-20-57, Cl. 154-93.
 Donaldson Co., Inc.: *See—*
 Billey, Leino H. 2,809,709.
 Donaldson, David D. Camera. 2,803,179, 8-20-57, Cl. 95-18.
 Donaldson, George R., to Universal Oil Products Co. Removal of arsenic in hydrocarbon oils by use of a readily reducible metal oxide and water. 2,778,779, 1-22-57, Cl. 196-50.
 Donaldson, Jack D. Load indicating gauge for vehicles. 2,796,251, 6-18-57, Cl. 265-42.
 Donaldson, John R.: *See—*
 Kile, Hershel S. 2,804,149.
 Donaldson, John S. Cannular surgical instrument. 2,790,442, 4-30-57, Cl. 128-348.
 Donaldson, John S. Coupling device. 2,795,024, 6-11-57, Cl. 24-73.
 Donaldson, John W., to Quebec Metallurgical Industries Ltd. Method for recovering nickel and cobalt from ores. 2,816,015, 12-10-57, Cl. 75-1.
 Donaldson, Robert E.: *See—*
 Ackerman, Carl D., and Donaldson. 2,790,753.
 Donaldson, Robert R., to Hagan Corp. Thermostat for hot gases. 2,786,713, 3-26-57, Cl. 297-11.
 Donaldson, Robert R., Jr., to Hagan Corp. Pressure differential responsive devices. 2,786,481, 3-26-57, Cl. 137-86.
 Donaldson, Walter E., and A. W. Hanson, to The Dow Chemical Co. Window assembly. 2,817,399, 12-24-57, Cl. 160-179.
 Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Process for the production of caprolactam. 2,777,841, 1-15-57, Cl. 260-239.3.
 Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Preparation of cyclohexanone oximes and ethers thereof. 2,791,611, 5-7-57, Cl. 260-566.
 Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Preparation of cycloalkonone-semicarbazones. 2,798,886, 7-9-57, Cl. 260-554.
 Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Process for the production of cyclohexanone oxime. 2,816,142, 12-10-57, Cl. 260-566.
 Donath, Erwin, to Applied Science Corp. of Princeton. Center finder. 2,806,205, 9-10-57, Cl. 324-68.
 Donato, John A., to Erie Meter Systems, Inc. Repackable filter cartridge. 2,792,123, 5-14-57, Cl. 210-457.
 Donato, John A., to Industrial Hardware Mfg. Co., Inc. Tube-socket, especially for printed circuits. 2,794,962, 6-4-57, Cl. 339-128.
 Donceel, Jules L. J.: *See—*
 Kruithof, Jakob, Nys, and Donceel. 2,787,668.
 Donee, William W. Collapsible brush. 2,797,426, 7-2-57, Cl. 15-203.
 Doneff, Marin E. Guard for discs and the like. 2,815,963, 12-10-57, Cl. 280-400.
 Donegan, Joseph J. Multiple spaced-pipe assemblies. 2,793,008, 5-21-57, Cl. 257-262.15.
 Donegan, Joseph W., to Allied Chemical & Dye Corp. Fire retardant coated roofing sheet and process for preparing. 2,782,129, 2-19-57, Cl. 117-30.
 Donelan, James A., to The General Electric Co. Ltd. Methods of welding. 2,797,304, 6-25-57, Cl. 219-118.
 Donelli, Benedetto L., to United States Radium Corp. Radioactive lightning protector. 2,815,395, 12-3-57, Cl. 174-4.
 Doney, Wilbert L.: *See—*
 Langtry, Edwin R., and Doney. 2,789,621.
 Dong, Edward. Outdoor barbecues. 2,804,012, 8-27-57, Cl. 99-421.

- Donges, Hans, and J. Pütz, to Joh. Vaillant K.-G. Gas fired water heater. 2,795,380, 6-11-57, Cl. 236-25.
- Dönges, Hans, and F. König, to Joh. Vaillant, K. G. Bunsen burners. 2,799,330, 7-16-57, Cl. 158-106.
- Donia, Robert A., and A. C. Ott, to The Upjohn Co. 19-nortestosterone acylates and 3-enol acylates thereof. 2,798,879, 7-9-57, Cl. 260-397.4.
- Donia, Robert A., and B. A. Johnson, to The Upjohn Co. Process for reduction of steroid dienes. 2,817,670, 12-24-57, Cl. 260-397.2.
- Donkle, Lloyd K., to Shell Development Co. Production of butadiene. 2,804,487, 8-27-57, Cl. 260-680.
- Donnelley, R. R., & Sons Co.: *See*—
Allegretti, Anthony J. 2,782,056.
Harper, David, Peebles, and Swank. 2,788,147.
Kramer, Lawrence I. 2,815,950.
McCahon, John O., and Proctor. 2,777,562.
- Donnelly, John H., and L. Biro. Explosion-proof operating mechanism for running sign. 2,799,954, 7-23-57, Cl. 40-32.
- Donnelly, Joseph B., to Schenley Industries, Inc. Can vending machine. 2,790,526, 4-30-57, Cl. 193-27.
- Donnelly, Lenore B.: *See*—
Bender, Sydney E., and Donnelly. 2,813,799.
- Donnelly, Thomas S., Jr. Electrode holder. 2,799,771, 7-16-57, Cl. 219-138.
- Donner, Hans O., to Solitum Ltd. Projectile for mortar. 2,788,744, 4-16-57, Cl. 102-93.
- Donner, Irvin W. Flower pot stand. 2,794,554, 6-4-57, Cl. 211-71.
- Donoghue, John J. Basketball backstop mount for a garage roof. 2,782,034, 2-19-57, Cl. 273-1.5.
- Donohoe, Martin A.: *See*—
Candee, Allan H., and Donohoe. 2,793,042.
- Donohoe, Robert W. Pressure-sensitive indication device. 2,814,203, 11-26-57, Cl. 73-398.
- Donovan, Daniel L.: *See*—
Kinney, David C., and Donovan. 2,775,963.
Teschendorf, Gerald P., Donovan, and Pohrt. 2,799,486.
- Donovan, Marion. Dispensing container for flowable material. 2,811,281, 10-29-57, Cl. 222-81.
- Doovan, Milton D. Pouring attachment. 2,802,609, 8-13-57, Cl. 222-570.
- Donovan, William J. Heat exchanger in refrigeration system. 2,797,554, 7-2-57, Cl. 62-17.55.
- Donsbach, Harry J.: *See*—
Donsbach, Henry P., Jr. 2,778,509.
- Donsbach, Henry P., Jr. (known as H. J. Donsbach). Grain elevator apparatus. 2,778,509, 1-22-57, Cl. 214-17.
- Donsbach, Weldon R.: *See*—
Smoot, Warren L., and Donsbach. 2,788,517.
- D'Ooge, Charles L., to the United States of America as represented by the Secretary of the Navy. Release mechanism for dropping loads from balloons. 2,793,824, 5-28-57, Cl. 244-32.
- Doolen, Orville K.: *See*—
Wickerham, Warren E., and Doolen. 2,809,345.
- Dooley, John F., Jr. Powder dispensing apparatus. 2,796,201, 6-18-57, Cl. 222-182.
- Dooley, Leslie V. Sliding tilttable arbor table saw. 2,811,994, 11-5-57, Cl. 143-47.
- Dooley, William H., to H. C. Reynolds. Hog holders. 2,776,645, 1-8-57, Cl. 119-153.
- Dooley, William H. Pig holders. 2,788,767, 4-16-57, Cl. 119-103.
- Dooley, William L.: *See*—
Habermehl, Frederick M. 2,807,305.
- Dooley, William P.: *See*—
Coe, Elvin L., and Dooley. 2,782,623.
Schappel, Joseph W., and Dooley. 2,796,656.
- Dooley, William P., to American Viscose Corp. Tube-trough spinning apparatus. 2,793,396, 5-28-57, Cl. 18-8.
- Dooley, William P., to American Viscose Corp. Combined injection and blending apparatus. 2,798,698, 7-9-57, Cl. 259-9.
- Dooley, William P., to American Viscose Corp. Piezoelectric tube for applying liquid to running strands. 2,800,682, 7-30-57, Cl. 18-8.
- Dooling, Henri C., to Skil Corp. Magnetic hammers. 2,787,718, 4-2-57, Cl. 310-30.
- Doolittle, Donald B.: *See*—
Cotton, Robert B., and Doolittle. 2,777,653.
Cotton, Robert B., and Doolittle. 2,789,780.
- Doolittle, Donald B., to All American Engineering Co. Jet power aircraft launching system. Re. 24,306, 4-23-57, Cl. 244-63.
- Doolittle, Harold A., and S. A. Heenan, to Electric Stop Nut Corp. of America. Light reflectors. 2,791,938, 5-14-57, Cl. 88-78.
- Doolittle, Howard D., to Machlett Laboratories, Inc. Cavity resonator device. 2,779,895, 1-29-57, Cl. 315-43.
- Doorenbos, Humphrey R. Anti-glare spectacles. 2,796,610, 6-25-57, Cl. 2-14.
- Doorn, Nicolaas W., to N. V. Nederlandsche Instrumenten Compagnie "Nedinsco." Device for projecting a plurality of optical images in the same focal plane. 2,801,567, 8-6-57, Cl. 88-24.
- Dopag (1943) Ltd.: *See*—
Brougham, Leslie E. 2,804,015.
- Doppelt, Charles. Purse. 2,789,611, 4-23-57, Cl. 150-35.
- Doppler, Roland A. Coffee packaging and preparing device. 2,805,164, 9-3-57, Cl. 99-171.
- Doptogion, Dorian D., to National Distillers and Chemical Corp. New liquid sodium alloy. 2,806,785, 9-17-57, Cl. 75-169.
- Doran Brothers, Inc.: *See*—
Marindin, Frederick R. 2,777,170.
Marindin, Frederick R. 2,811,290.
- Doran, John F., and L. D. Hindall, to Northrop Aircraft, Inc. Vector adder. 2,781,169, 2-12-57, Cl. 235-61.
- Doresjak, Charles, to Marjo Technical Products Co. Portable antenna. 2,778,017, 1-15-57, Cl. 343-823.
- Doremus, Edward P., Jr.: *See*—
Thorn, Floyd B., Jr., and Doremus. 2,805,987.
- Doremus, John A.: *See*—
Crow, Robert P., and Doremus. 2,808,469.
- Doremus, John A., to Motorola, Inc. Oscillator. 2,777,950, 1-15-57, Cl. 205-36.
- Doremus, John A., to Motorola, Inc. Frequency modulator. 2,794,957, 6-4-57, Cl. 332-28.
- Doremus, John A., R. P. Crow, and H. Korn, to Motorola, Inc. Series-energized cascade transistor amplifier. 2,811,590, 10-29-57, Cl. 179-171.
- Dorenfeld, Adrian C., to Southwestern Graphite Co. Process for purifying graphite. 2,787,528, 4-2-57, Cl. 23-209.9.
- Dorer, Casper J., Jr.: *See*—
Miller, Clark O., and Dorer. 2,797,238.
- Dorer, Oscar H., to Worthington Corp. Combined flow control and rephasing mechanism for fluid pumping units. 2,791,179, 5-7-57, Cl. 103-11.
- Dorey, George B., to Enterprise Railway Equipment Co. Hopper discharge outlet. 2,778,319, 1-22-57, Cl. 105-282.
- Dorey, George B., to Continental Transport Appliances, Ltd. Operating mechanism for automatic slack adjuster. 2,782,879, 2-26-57, Cl. 188-196.
- Dorey, George B., to Enterprise Railway Equipment Co. Operating mechanism for sliding gate for a discharge outlet mounted on a load containing hopper of a railway car. 2,791,973, 5-14-57, Cl. 105-282.
- Dorey, George B., to Enterprise Railway Equipment Co. Latching pawl and dog assembly for a dump door shaft. 2,810,358, 10-22-57, Cl. 105-309.
- Dorf, Fred B., A. P. Bentz, and J. E. Gordon, to American Cyanamid Co. Diazotization of 3-amino-4,5-bis-(amino-methyl)-2-methyl pyridine trihydrochloride with barium nitrite. 2,788,348, 4-9-57, Cl. 260-297.5.
- Dörfel, Paul. Machine for cutting and mixing foods. 2,806,497, 9-17-57, Cl. 146-67.
- Dorfman, Harry. Integral drain tile unit. 2,803,948, 8-27-57, Cl. 61-11.
- Dorfman, Hiler D., and R. H. Flick, to Westinghouse Electric Corp. Circuit breaker. 2,797,277, 6-25-57, Cl. 200-116.
- Dorfman, Hiler D., and F. L. Gelzeiser, to Westinghouse Electric Corp. Circuit breaker. 2,811,607, 10-29-57, Cl. 200-116.
- Dorfman, Irving, to Federal Carton Corp. Counter display carton. 2,801,754, 8-6-57, Cl. 211-135.
- Dorfiner, Arthur A., to D. S. Plumb Co., Inc. Register. 2,808,207, 10-1-57, Cl. 235-135.
- Doriat, Martin, and A. Vogt, to Wacker-Chemie G. m. b. H. Apparatus for homogenizing and kneading plastic masses. 2,779,054, 1-29-57, Cl. 18-2.
- Doriot, Kenneth E., to Westinghouse Air Brake Co. Control circuit for communications apparatus. 2,794,857, 6-4-57, Cl. 179-1.
- Doriot, Kenneth E., to Westinghouse Air Brake Co. Noise suppression and limiter circuits. 2,800,582, 7-23-57, Cl. 250-20.
- Dorlars, Alfons, O. Bayer, and E. Enders, to Farbenfabriken Bayer Aktiengesellschaft. Monoazo dyestuffs and their metal complex compounds. 2,804,455, 8-27-57, Cl. 260-146.
- Dorman, Douglas P.: *See*—
Dorman, Harley A., and D. P. 2,808,893.
- Dorman, Harley A., and D. P. Superchargers for engines of automotive vehicles. 2,808,893, 10-8-57, Cl. 180-54.
- Dorman, James A. Automatic work driver or lathe dog. 2,800,824, 7-30-57, Cl. 82-40.
- Dorman, Leonard M., to Talon, Inc. Separating end for extruded fastener. 2,794,227, 6-4-57, Cl. 24-261.
- Dorman, Leonard M., to Talon, Inc. Die insert for molding slide fastener stringers and method of making the same. 2,807,970, 10-1-57, Cl. 76-107.
- Dorman, Leonard M., and H. G. Morner, to Talon, Inc. Extruded fastener. 2,797,463, 7-2-57, Cl. 24-201.
- Dorman, Stephen C., and A. B. Lindquist, Jr., to Stauffer Chemical Co. Stabilization of salts of monoalkyldithiocarbamic acids. 2,791,605, 5-7-57, Cl. 260-500.
- Dormeyer Corp.: *See*—
Coen, Aldo L. 2,795,335.
Doerner, Otto. 2,795,248.
Schwanek, Fred C. 2,793,011.
Schwanek, Fred C. 2,804,289.
Vaughan, Robert E. 2,807,447.
Wagner, Edward J. 2,781,466.
- Dorn, Maxwell, and W. Rosenbaum, to Bendix Aviation Corp. Illumination of indicating apparatus. 2,782,752, 2-26-57, Cl. 116-129.
- Dorn, Rolf-Karl: *See*—
Wisfeld, Werner, Dorn, and Herrmann. 2,810,693.
- Dorn, Stephen S.: *See*—
Bruins, Paul F., and Dorn. 2,782,175.

- Dorn, Stephen S., and C. W. Fairbanks, to E. I. du Pont de Nemours and Co. Purification of vinyl acetate. 2,784,149, 3-5-57, Cl. 202-57.
- Dornhöfer, Ewald, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Hydraulic drive for the reciprocating parts of tool machines having a wide speed range steplessly controlled. 2,799,138, 7-16-57, Cl. 60-52.
- Doron, Jack E. Ascot scarf. 2,809,375, 10-15-57, Cl. 2-91.
- Dorosz, Adolph S.: *See*—
Hubbard, Arthur R., and Dorosz. 2,806,233.
- Dorr-Oliver Inc.: *See*—
Boogaard, Matthijs. 2,799,394.
Braun, Robert T., and Schreiber. 2,816,658.
Crumb, Carlton W. 2,798,612.
Foley, Rupert M. 2,783,141.
Knapp, Charles A. 2,779,471.
Knowles, John H. 2,779,732.
Pomeroy, Harold H. 2,779,536.
Richards, Dwight. 2,793,755.
Richards, Dwight. 2,807,501.
Richards, Dwight. 2,818,177.
Roberts, Elliott J. 2,796,395.
Roberts, Elliott J. 2,799,638.
Sabi, Nestor. 2,780,362.
Smith, David B., Lewis, Malabre, Jukkola, and Heath. 2,799,558.
- Dorrel, Harold I., and R. W. Hilker, to C. F. Braun & Co. Variable orifice restriction valve. 2,801,647, 8-6-57, Cl. 138-46.
- Dorris, Duncan and G. P., Jr. Conveyor drive assembly. 2,812,054, 11-5-57, Cl. 198-213.
- Dorris, George P., Jr.: *See*—
Dorris, Duncan and G. P., Jr. 2,812,054.
- Dorsch, William C., to American Seal-Kap Corp. of Delaware. Stamping head. 2,787,950, 4-9-57, Cl. 101-44.
- Dorsey, Charles A., $\frac{1}{2}$ to G. P. Kimmel and $\frac{1}{4}$ to A. H. Crowell. Method of loading and protecting newsprint rolls during transit. 2,812,727, 11-12-57, Cl. 105-367.
- Dorsey, Charley L., and J. W. Scott. Siphoning device. 2,790,455, 4-30-57, Cl. 137-152.
- Dorsey, Richard H. Collapsible bird cage. 2,799,244, 7-16-57, Cl. 119-17.
- Dorsey, William J., to International Latex Corp. Deposited latex undergarment. 2,806,221, 9-17-57, Cl. 2-33.
- Dorsey, William R., to Vacu-Dry Co. Method of dehydrating food. 2,806,796, 9-17-57, Cl. 99-206.
- Dorsey, William S.: *See*—
Schaeffer, William D., and Dorsey. 2,798,102.
- Dorst, Stanley O.: *See*—
Tierman, Melvin, and Dorst. 2,802,896.
- Dort, Russell L., to Deere & Co. Harvesting machine. 2,815,632, 12-10-57, Cl. 56-25.
- Dortmund-Horder Huttenunion Aktiengesellschaft: *See*—
Kootz, Theodor, and Kellermeier. 2,817,584.
- Dörzbach, Eugen, and F. Lindner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning. Process of preparing crystallized insulin preparations. 2,801,953, 8-6-57, Cl. 167-75.
- Dosker, Cornelius D. High speed saw. 2,794,458, 6-4-57, Cl. 143-133.
- Doskocil, Edward F. Clamp for weeder attachment. 2,793,579, 5-28-57, Cl. 97-179.
- Doss, Richard C., and A. M. Schnitzer, to Phillips Petroleum Co. Magnesium sulfate desiccant in synthesis of propene-1,3-diamines. 2,800,509, 7-23-57, Cl. 260-583.
- Dost, Nicolaas, and G. F. E. M. Klap-Dierick, to Shell Development Co. Substituted 1,4-hydroquinone fungicidal compositions and method of using same. 2,790,743, 4-30-57, Cl. 167-31.
- Doster, Howard G., to The Ohio Injector Co. Gate valves. 2,793,831, 5-28-57, Cl. 251-197.
- Dostert, Leon E. Binaural apparatus for teaching languages. 2,777,901, 1-15-57, Cl. 179-100.2.
- Dotson, Donald A., to The Garrett Corp. Electronic temperature regulator with anticipator. 2,782,994, 2-26-57, Cl. 236-78.
- Dotson, Donald A., to The Garrett Corp. Gas turbine pneumatic governor fuel supply control. 2,808,702, 10-8-57, Cl. 60-39.28.
- Dotto, John, to Meadville Research Products Corp. Magazine brakes. 2,799,367, 7-16-57, Cl. 188-73.
- Dotto, John, to Meadville Research Products Corp. Heat insulating friction shoe and piston unit. 2,801,714, 8-6-57, Cl. 188-152.
- Doty, Boyd A.: *See*—
Dyett, James G., and Doty. 2,811,726.
- Doty, Charles R., to International Business Machines Corp. Typewriter controlled tape punch. 2,784,785, 3-12-57, Cl. 164-113.
- Doty, Oscar A., Jr., $\frac{1}{4}$ to O. A. Doty, Sr. Antifouling anchor. 2,797,658, 7-2-57, Cl. 114-208.
- Doty, Oscar A., Sr.: *See*—
Doty, Oscar A., Jr. 2,797,658.
- Doty, Raymond E.: *See*—
Hoagland, William F., and Doty. 2,802,431.
- Doty, William E. N.: *See*—
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- Doty, William R., to California Research Corp. Bubble plate for a fractionating column or the like. 2,789,803, 4-23-57, Cl. 261-114.
- Doubt, Ralph A.: *See*—
Wiley, Bruce F., and Doubt. 2,786,351.
- Doud, Mary H. Folding cradle and rocker. 2,793,374, 5-28-57, Cl. 5-102.
- Douden, Quentin H., to Edwin L. Wiegand Co. Electric heating devices. 2,816,205, 12-10-57, Cl. 219-37.
- Dougherty, Charles F., Jr., to Phillips Petroleum Co. Hydrocarbon oxidation. 2,790,004, 4-23-57, Cl. 260-596.
- Dougherty, Floyd G., to General Motors Corp. Combustion chamber with fuel vaporizer. 2,781,637, 2-19-57, Cl. 60-39.71.
- Dougherty, James G., Jr., W. L. Freienmuth, and A. C. Armstrong, to Vitro Corp. of America. Switching circuitry. 2,798,153, 7-2-57, Cl. 250-27.
- Dougherty, Robert S. A., to Bethlehem Steel Co. Ore preparation. Re. 24,369, 10-8-57, Cl. 75-103.
- Doughnut Corp. of America: *See*—
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- Doughty, Edward W.: *See*—
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- Doughty, Joseph B., to West Virginia Pulp and Paper Co. Alkali treated lignin and method of making same. 2,802,815, 8-13-57, Cl. 260-124.
- Doughty, Leon A., to C & D Batteries, Inc. Closure assembly filling openings of storage batteries. 2,777,892, 1-15-57, Cl. 136-170.
- Doughty, Robert T., to General Motors Corp. Muffler. 2,818,131, 12-31-57, Cl. 181-36.
- Douglas Aircraft Co., Inc.: *See*—
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Bloom, John C., and Cornish. 2,803,718.
Bronson, George A. 2,789,470.
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- Douglas Aircraft Corp., Inc.: *See*—
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- Douglas, Alvin P., to The Murray-Ohio Mfg. Co. Bicycle coaster brake hub construction. 2,798,771, 7-9-57, Cl. 301-105.
- Douglas, Alvin P., and G. B. Hahn, to The Murray Ohio Mfg. Co. Frame and body structure of juvenile vehicle. 2,797,105, 6-25-57, Cl. 280-282.
- Douglas, Cleon L., to Sylvania Electric Products Inc. Spool flange straightener. 2,794,478, 6-4-57, Cl. 153-54.
- Douglas, Earl H.: *See*—
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- Douglas, Gordon S.: *See*—
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Newman, Kenneth W., Atkins, and Douglas. 2,795,491.
- Douglas, Homer C., to T. E. Chamberlain. Automatic cap gun. 2,790,260, 4-30-57, Cl. 42-57.
- Douglas, James K., to The Oilgear Co. Apparatus for filtering liquid. 2,776,056, 1-1-57, Cl. 210-166.
- Douglas Machine Products Co.: *See*—
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- Douglas, Peter L.: *See*—
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- Douglas, Robert R., to American Meter Co., Inc. Tangents. 2,775,891, 1-1-57, Cl. 73-281.
- Douglas, Robert R., to American Meter Co., Inc. Temperature compensated tangent. 2,778,224, 1-22-57, Cl. 73-281.
- Douglas Tool Co.: *See*—
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- Douglass, Edward T., Jr. Wood waste conveying and feeding apparatus. 2,792,153, 5-14-57, Cl. 222-226.
- Douglass, Edward T., Jr. Apparatus for burning wood refuse. 2,804,031, 8-27-57, Cl. 110-18.
- Douglass, Edward T., Jr. Apparatus for burning wood refuse. 2,816,694, 12-17-57, Cl. 222-346.
- Douglass, Howard W. Apparatus for shutting down engines on occurrence of certain failures. 2,815,818, 12-10-57, Cl. 169-2.
- Douglass, James M. Fishing lure. 2,785,495, 3-19-57, Cl. 43-42.5.
- Douma, Tjiske, to Sierra Electronic Corp. Directional apparatus for use with high frequency transmission lines. 2,808,566, 10-1-57, Cl. 324-127.
- Doumani, Thomas F., to Union Oil Co. of California. Preparation of hydroxy thio-ethers. 2,776,997, 1-8-57, Cl. 260-609.
- Doumani, Thomas F., to Union Oil Co. of California. Hydroforming of a naphtha with a nickel oxides-on-alumina catalyst containing small amounts of sulphur. 2,780,584, 2-5-57, Cl. 196-50.
- Doumani, Thomas F., to Union Oil Co. of California. Preparation of organic sulfides. 2,816,146, 12-10-57, Cl. 260-609.
- Doutt, Kingsley A., to Federal Machine and Welder Co. Control means. 2,790,065, 4-23-57, Cl. 219-97.
- Douty, Alfred: *See*—
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- Douy, André, to Societe Preparation Industrielle des Combustibles. Apparatus for separating solid materials by suspension. 2,795,331, 6-11-57, Cl. 209-172.5.
- Dove, Frank: *See*—
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- Seymour-Lee, Roger W., and Dove. 2,799,842.

- Dove, Frank, to The Sperry Gyroscope Co., Ltd. Aircraft navigation-aid apparatus. 2,784,401, 3-5-57, Cl. 343—107.
- Dover Corp.: See—
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- Dovidio, Chester A., to Nixon Nitration Works. Method for vacuum forming ductile material. 2,781,077, 2-12-57, Cl. 154—41.
- Dovidio, Chester A., to Nixon Nitration Works. Apparatus for vacuum forming ductile material. 2,781,078, 2-12-57, Cl. 154—41.
- Dow Chemical Co., The: See—
Anderson, Arthur W. 2,791,584.
Bachtel, Howard J. 2,811,252.
Baggett, Durward A. 2,794,516.
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Barrons, Keith C. 2,794,727.
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Beman, Floyd L., and Dietzler. 2,778,857.
Berhenke, Luther F. 2,779,785.
Bersworth, Frederick C. 2,776,918.
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Beyer, Carlton E. 2,786,234.
Bon, Charles K., Neipert, and Piegols. 2,780,360.
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Brainerd, Arthur E., Jr., and Poffenberger. 2,803,669.
Britton, Edgar C., and Sexton. 2,807,651.
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Caldecourt, Victor J. 2,776,404.
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Cardwell, Paul H., Eilers, and Hendrickson. 2,794,779.
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Chisholm, Douglas S. 2,787,022.
Chisholm, Douglas S., and Saunders. 2,779,672.
Clark, Harold A. 2,803,616.
Colby, Robert W., and Mesler. 2,802,736.
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De Long, Herbert K. 2,811,484.
Dermer, Otis C. 2,799,707.
Dickerson, Richard T., Jr., and Schweitzer. 2,796,446.
Dickert, Yancey J., and Britton. 2,802,870.
Dickmann, Norbert G. 2,803,619.
Dietzler, Andrew J. 2,802,883.
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Erbel, Arthur J., and Kenaga. 2,776,311.
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Featherly, Robert L. 2,802,781.
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Gordon, David A. 2,807,604.
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Gunderman, Roland E., and Karlinski. 2,814,550.
Hadler, Bartholdt C., and Pelton. 2,810,676.
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Havens, Carl B. 2,807,605.
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Ikenberry, Ernest A., Kundiger, and Wheeler. 2,777,876.
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- Dow Chemical Co., The: See—Continued
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Lake, Douglas E. 2,793,017.
Longstreth, Murrey O., and Alfrey. 2,779,053.
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Martin, Merritt W., Harris, and Oliver. 2,796,438.
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McKee, Robert B., Jr. 2,814,831.
Melass, Vivian H. 2,786,796.
Meull, Lloyd J. 2,802,768.
Meyer, Robert H., and Johnson. 2,796,443.
Monroe, Roger F., and Anderson. 2,802,878.
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Montgomery, Robert S. 2,802,869.
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Murdock, Stanley A. 2,815,301.
Mussell, Dorsey R., and Roth. 2,778,809.
Nagle, Floyd B. 2,810,707.
Nethery, Stanton K., Jr., and Smith. 2,809,680.
Norris, Mark G., Jr., and Wade. 2,811,480.
Norton, Frederick H. 2,803,600.
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Perkins, Cyrus C., Jones, and Roche. 2,804,920.
Poffenberger, Noland, and Morello. 2,803,685.
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Roth, Harold H. 2,809,960.
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Senkbeil, Herman O. 2,815,367.
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Slagh, Harold R., and Britton. 2,807,637.
Sommer, Leo H. 2,803,333.
Speier, John L. 2,803,637.
Stanton, George W., Lefferdink, and Spence. 2,790,700.
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Taylor, Frank C., Jr., and Prielp. 2,797,188.
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Tolkmath, Henry, Britton, and Holoway. 2,802,824.
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Weaver, Miles A., Bacon, and Greminger. 2,802,740.
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Weyer, Donald E. 2,803,606.
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White, Halbert C., and Wysong. 2,783,274.
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Widiger, Alexander H., Jr., Aaron, and Dugan. 2,799,714.
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- Dow Corning Corp., The: See—
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- Dow Corning Corp., The: *See*—Continued
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- Dow, George V.: *See*—
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- Dow Jones & Co., Inc.: *See*—
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- Dow, Walter K.: Accelerator controlling device. 2,787,918, 4-9-57, Cl. 74-532.
- Dow, Willard M., to United Gas Corp. Means for regenerating adsorbent beds. 2,790,248, 4-30-57, Cl. 34-48.
- Dow, Willard M., to United Gas Corp. Methods of and means for dehydrating and processing fluid streams. 2,790,505, 4-30-57, Cl. 133-43.
- Dow, Willard M., to United Gas Corp. Process for dehydrating and removing adsorbable components from gas streams. 2,790,512, 4-30-57, Cl. 183-114.2.
- Dowell, A. Yates: *See*—
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- Dowell, Peter T. G., and H. F. Pumphrey, to Dunlop Rubber Co. Ltd. Endless tracks for vehicles. 2,815,988, 12-10-57, Cl. 305-10.
- Dower, Ethell J., and L. R. Garza, to the United States of America as represented by the Secretary of the Army. Flexible firing mount. 2,817,233, 12-24-57, Cl. 73-167.
- Dowick, Benjamin. Heavy duty electric adapters for two and three wire systems. 2,792,557, 5-14-57, Cl. 339-14.
- Dowker, Clifford H., and R. S. Phillips, to the United States of America as represented by the Secretary of the Navy. Gun order converter. 2,795,379, 6-11-57, Cl. 235-61.5.
- Dowling, Clem. Thumb rest for clarinets or other musical instruments. 2,803,983, 8-27-57, Cl. 84-382.
- Dowling, Joseph W.: *See*—
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- Dowling, William C.: *See*—
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- Downes, Harold J., to North American Aviation, Inc. Magnetic timing device for periodic stepping of motor. 2,783,428, 2-26-57, Cl. 318-443.
- Downey, Earl F. Seed starting and plant propagating receptacles. 2,798,335, 7-9-57, Cl. 47-19.
- Downey, Howard R.: *See*—
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- Downey, Paul M.: *See*—
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- Downey, Paul M., to Monsanto Chemical Co. Antioxidant. 2,776,998, 1-8-57, Cl. 260-609.
- Downey, Paul M., to Monsanto Chemical Co. Rubber containing urea compound as an antiexposure cracking agent. 2,781,330, 2-12-57, Cl. 260-45.9.
- Downey, William H. Window frame attachment. 2,817,126, 12-24-57, Cl. 20-52.4.
- Downham, Roy E., and A. W. Allen, to Ansul Chemical Co. Safety device for fire-extinguishing apparatus. 2,778,435, 1-22-57, Cl. 169-31.
- Downing Box Co.: *See*—
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- Downing, Edward T.: *See*—
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- Downing, Eric W., to Joseph Lucas (Industries) Ltd. Means for controlling the supply of liquid fuel to an internal combustion engine. 2,807,252, 9-24-57, Cl. 123-140.
- Downing, John: *See*—
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- Downing, John, J. W. Fisher, and E. W. Wheatley, deceased, (by M. F. Wheatley, administratrix), to British Celanese Ltd. Method of improving the fire-resistance of regenerated cellulose fabrics. 2,780,571, 2-5-57, Cl. 154-46.
- Downing, John, A. Hodge, and J. G. N. Drewitt, to British Celanese Ltd. Production and use of acrylonitrile polymer solutions. 2,781,243, 2-12-57, Cl. 18-54.
- Downing, John, A. Hodge, and J. G. N. Drewitt, to British Celanese Ltd. Production and use of solutions of acrylonitrile polymers. 2,785,044, 3-12-57, Cl. 18-54.
- Downing, John, and R. J. Brown, to British Celanese Ltd. Unwoven wetless ribbon and process for forming same. 2,792,325, 5-14-57, Cl. 154-92.
- Downing, Rexford D.: *See*—
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- Downing, Robert E., and E. B. James, to Holman Brothers Ltd. Dust collecting. 2,789,404, 4-23-57, Cl. 51-273.
- Downing, Robert E., and E. B. James, to Holman Brothers Ltd. Grinding wheels. 2,803,098, 8-20-57, Cl. 51-273.
- Downingtown Mfg. Co.: *See*—
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- Downs, Bert A. Siphon pipe. 2,791,232, 5-7-57, Cl. 137-153.
- Downs, Bert A. Siphon device having adjustable primer wells. 2,792,013, 5-14-57, Cl. 137-131.
- Downs, Cas A. Combined water and air heating unit. 2,780,714, 2-5-57, Cl. 219-38.
- Downs, Charles W.: *See*—
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- Downs, George F., Jr.: *See*—
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- Downs, Jack E., to General Electric Co. Super-critical pressure elastic fluid turbine. 2,815,645, 12-10-57, Cl. 60-40.
- Downs, John N., to The Babcock & Wilcox Co. Vapor generators. 2,796,049, 6-18-57, Cl. 122-32.
- Downs, Russell E., to The Fafnir Bearing Co. Pillow block. 2,796,304, 6-18-57, Cl. 308-72.
- Downs, Thomas F. Lined tanks. 2,794,570, 6-4-57, Cl. 220-63.
- Downs, Watson H. Perfumer and deodorizer. 2,796,290, 6-18-57, Cl. 299-24.
- Dowse, Janet. Garbage and trash disposer unit. 2,802,434, 8-13-57, Cl. 110-18.
- Dowse, Joseph, and H. Holt, Jr. Method and apparatus for making battery separators. 2,811,745, 11-5-57, Cl. 18-10.
- Dowse, Sidney, and M. Sevik, to Armstrong Siddeley Motors Ltd. Machine for securing in position a labyrinth strip. 2,809,421, 10-15-57, Cl. 29-200.
- Dowty Equipment Ltd.: *See*—
 Dowty, George H. 2,792,998.
 Knights, Richard N. 2,802,681.
 Knights, Richard N. 2,809,721.
 Snell, Maurice S. 2,779,016.
- Dowty, George H., to Dowty Equipment Ltd. Brake system on aircraft multi-wheel bogie undercarriage. 2,792,998, 5-21-57, Cl. 244-111.
- Dowty Mining Equipment Ltd.: *See*—
 Potts, Michael C. 2,803,444.
- Doyen, Léon and Louis. Portable sewing-machine. 2,778,328, 1-22-57, Cl. 112-11.
- Doyen, Louis: *See*—
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- Doyer, Cornelis. Apparatus for throwing bulk material. 2,812,052, 11-5-57, Cl. 198-128.
- Doyle, Arthur J., and W. M. Wadsworth, to Prior Products, Inc. Safety cap for automotive liquid fuel tanks. 2,800,245, 7-23-57, Cl. 220-44.
- Doyle, Cedric J. Coupling unit. 2,788,234, 4-9-57, Cl. 287-103.
- Doyle, Clarence M.: *See*—
 Hammond, Lester A., and Doyle. 2,806,206.
- Doyle, Dewey I., to Doyle Vacuum Cleaner Co. Vacuum and blower producer. 2,778,563, 1-22-57, Cl. 230-114.
- Doyle, Dewey I., to Doyle Vacuum Cleaner Co. Vacuum cleaner motor shroud. 2,798,973, 7-9-57, Cl. 310-60.
- Doyle, Gilbert W.: *See*—
 Hasty, Albert F., and Doyle. 2,805,521.
- Doyle, Gilbert W., to Superior Hone Corp. Self-aligning mandrel. 2,788,621, 4-16-57, Cl. 51-184.3.
- Doyle, Irving W., and A. G. Nash, to Fairchild Camera and Instrument Corp. Film transport mechanism for cameras. 2,796,009, 6-18-57, Cl. 95-12.5.
- Doyle, James F., to Arkell Safety Bag Co. Machines for and method of making multi-ply bags. 2,803,173, 8-20-57, Cl. 93-19.
- Doyle, James F., to Arkell Safety Bag Co. Bags. 2,816,700, 12-17-57, Cl. 229-55.
- Doyle, James F., and P. L. Onasch, to Arkell Safety Bag Co. Laminated material and bags and linings made therefrom. 2,790,592, 4-30-57, Cl. 229-55.
- Doyle, James F., and P. W. Roland, to Arkell Safety Bag Co. Bag, composite material, and method of making. 2,792,326, 5-14-57, Cl. 154-138.
- Doyle, Mary M., to The H. W. Gossard Co. Foundation garment. 2,803,822, 8-27-57, Cl. 2-37.
- Doyle, Orville K. Ball cock valve. 2,808,850, 10-8-57, Cl. 137-414.
- Doyle, Ralph J.: *See*—
 Samuels, Harold, Vines, and Doyle. 2,804,248.
- Doyle, Thomas J. Animal collar having a pocket for insecticide. 2,791,202, 5-7-57, Cl. 119-106.
- Doyle Vacuum Cleaner Co.: *See*—
 Doyle, Dewey I. 2,778,563.
 Doyle, Dewey I. 2,798,973.
- Doyle, William M.: *See*—
 Gresham, Harold E., Farnsworth, Hall, and Doyle. 2,781,262.
- Doyle, William T., and P. Hooper, to Sturtevant Mill Co. Apparatus for centrifugal separation. 2,790,550, 4-30-57, Cl. 209-144.
- Dr. Ing. h. c. F. Porsche K.-G.: *See*—
 Porsche, Ferdinand A. E., and Eyb. 2,814,503.
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 Porsche, Ferdinand A. E., and Forstner. 2,799,262.
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- Dracoo Corp.: *See*—
 Schneider, George. 2,784,038.
- Drack, Erwin: *See*—
 Stoecklin, Josef, and Drack. 2,787,689.

- Drackett Co., The: *See*—
Coopridge, Rex C., and Stewart. 2,815,890.
Walton, George. 2,816,012.
- Drag, John C.: *See*—
Paprocki, Cora S., and Drag. 2,815,909.
- Drager, Dr. Otto H.: *See*—
Grosskopf, Karl. 2,800,460.
Stampe, Gerhard K. E. H. 2,795,223.
Stampe, Gerhard K. E. H. 2,804,936.
- Draijer, Jannes: *See*—
Weijer, Berend, Draijer, and Ball. 2,802,923.
- Draize S. Z.: *See*—
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- Drake, Blair M., B. W. Kagy, and R. W. Hall. Single dose vial assembly of animal semen. 2,808,926, 10-8-57, Cl. 206-56.
- Drake, Douglas A. Tail gate guard. 2,799,530, 7-16-57, Cl. 296-106.
- Drake, Herman A.: *See*—
Mann, Kingsley M., Drake, and Rayman. 2,794,816.
- Drake, John A., to Marquardt Aircraft Co. Pressure control device. Re. 24,410, 12-31-57, Cl. 137-100.
- Drake, Lee H. Mixing and turbulence producing means for a gas burner tip. 2,776,706, 1-8-57, Cl. 158-118.
- Dranetz, Abraham I., to Gulton Industries, Inc. Accelerometer. 2,808,522, 10-1-57, Cl. 310-8.2.
- Drapeau, Harold B., and E. G. Bohac, to The Dole Valve Co. Thermostatic butterfly valve. 2,815,173, 12-8-57, Cl. 236-34.
- Drapeau, Joseph E., Jr., and P. D. Johnson, to The Glidden Co. Catalytic process for preparing red cuprous oxide. 2,817,579, 12-24-57, Cl. 23-147.
- Draper, Arthur L.: *See*—
Stanchiff, Ray J., Jr., Draper, and Jenks. 2,776,714.
- Draper Corp.: *See*—
Banks, Waldo H. 2,778,382.
Clentimack, George E. 2,792,023.
Clentimack, George E. 2,804,760.
Collins, Floyd Y. 2,778,381.
Consoletti, Paul C. 2,793,822.
Flamand, Maurice R. 2,782,807.
Laferte, Albert A. 2,782,808.
Mallard, Robert G. 2,808,075.
Moon, Clifford G., and Laferte. 2,796,086.
Nichols, Edward C. 2,818,087.
Paquette, Elmer W. 2,776,677.
Ratkiewicz, Albert W., and Budzyna. 2,808,077.
Sanderson, Kenneth E., and Tosches. 2,810,403.
- Draper, Roy E. Collapsible egg crate. 2,811,275, 10-29-57, Cl. 220-7.
- Drasky, Bretislav J. Tornado warning device. 2,801,408, 7-30-57, Cl. 340-236.
- Draw-Matic Engineering Co.: *See*—
Lui, Harry M., and Abrams. 2,788,481.
- Draxler, John A., to The Elwell Parker Electric Co. Control circuit for industrial lift trucks. 2,790,513, 4-30-57, Cl. 187-9.
- Drechsel, Erhart K.: *See*—
Grosz, Stephen J., and Drechsel. 2,802,022.
- Drechsel, Erhart K., to American Cyanamid Co. Reaction products of vinylene and ammonia or primary amine. 2,794,013, 5-28-57, Cl. 260-77.5.
- Drechsel, Erhart K., to American Cyanamid Co. Resin-vinylsilane adducts and polymers thereof. 2,804,439, 8-27-57, Cl. 260-27.
- Drechsel, Erhart K., to American Cyanamid Co. Polymerization of cyclic carbamates. 2,806,017, 9-10-57, Cl. 260-77.5.
- Drechsel, Erhart K., to American Cyanamid Co. N-vinyl-2-oxazolidone and polymerization products thereof and method of making. 2,818,362, 12-31-57, Cl. 154-43.
- Drechsel, Erhart K., to American Cyanamid Co. Ethylenically unsaturated alkyl resin copolymerized with N-vinyl-2-oxazolidone and process for making same. 2,818,399, 12-31-57, Cl. 260-45.4.
- Drechsel, Erhart K., R. Hastings, and E. Strazdins, to American Cyanamid Co. Novel paper sizing agents. 2,791,578, 5-7-57, Cl. 260-101.
- Dreher, Erich: *See*—
Reppe, Walter, Pasdach Dreher, and Amann. 2,782,191.
- Dreher, John F.: *See*—
Block, Harry W., Common, and Dreher. 2,784,099.
- Drehman, Lewis E., to Phillips Petroleum Co. Isomerizing hydrocarbons with the catalyst in the continuous phase inverting the phases and separating the catalyst employing phase inversion. 2,782,244, 2-19-57, Cl. 260-683.5.
- Dreier Brothers, Inc.: *See*—
Dreier, Raymond C. 2,782,820.
Dreier, Raymond C. 2,796,098.
Dreier, Raymond C. 2,808,086.
- Dreier, Raymond C., to Dreier Brothers, Inc. Hand-saw. 2,782,820, 2-26-57, Cl. 145-32.
- Dreier, Raymond C., to Dreier Brothers, Inc. Hand-saw construction. 2,796,098, 6-18-57, Cl. 145-33.
- Dreier, Raymond C., to Dreier Brothers, Inc. Hand-saw construction. 2,808,086, 10-1-57, Cl. 145-33.
- Dreier, Theodore, and I. A. Terry, to General Electric Co. Commercial power frequency cordless synchronous clock. 2,786,972, 3-26-57, Cl. 318-16.
- Dreier, Theodore, and R. Williams, to General Electric Co. Transducer synchronized clock. 2,814,766, 11-26-57, Cl. 318-16.
- Dreifke, Raymond F. Chair construction employing tension-held slats. 2,798,538, 7-9-57, Cl. 155-187.
- Dreisbach, Dale A. Method of securing a drawstring to a flexible bag. 2,799,611, 7-16-57, Cl. 154-118.
- Dreisbach, Robert R., and J. F. Mulloy, to The Dow Chemical Co. Water soluble copolymers of SO₂, an acrylic acid and a vinyl alkyl ether. 2,778,812, 1-22-57, Cl. 260-79.3.
- Dreisbach, Robert R., and J. F. Mulloy, to The Dow Chemical Co. Water-soluble heteropolymers of acrylic acid, allyl alcohol, and sulfur dioxide and processes for producing the same. 2,794,014, 5-28-57, Cl. 260-79.3.
- Dreisbach, Robert R., and J. F. Mulloy, to The Dow Chemical Co. Method for making β -chlorostyrene compounds. 2,803,675, 8-20-57, Cl. 260-651.
- Dreisonstok, Richard H., and W. L. Llewellyn. Educational means for visual instruction in the operation of a keyboard device. 2,802,284, 8-13-57, Cl. 35-6.
- Dreissen, Hubert H.: *See*—
Fontein, Freerk J., and Dreissen. 2,814,388.
- Drell, Leonard B., to De Mert & Dougherty, Inc. Valve and removable spray head therefor. 2,806,739, 9-17-57, Cl. 299-95.
- Drennan, Harry E. Poultry feed. 2,813,793, 11-19-57, Cl. 99-4.
- Drennan, James E., and F. C. Todd, to the United States of America as represented by the Secretary of the Army. Glow discharge tube. 2,800,600, 7-23-57, Cl. 313-193.
- Drennan, James G., to Owens-Illinois Glass Co. Article sorting apparatus. 2,800,226, 7-23-57, Cl. 209-111.
- Drennan, James G., to Owens-Illinois Glass Co. Article labeling apparatus. 2,806,621, 9-17-57, Cl. 216-54.
- Dresch, George: *See*—
Dennison, Harold K., and Dresch. 2,817,840.
- Drescher, John F. Impulse generator. 2,784,327, 3-5-57, Cl. 310-36.
- Drese, Wilhelm: *See*—
Meyer-Jagenberg, Gunther, Drese, and Zerlin. 2,785,610.
- Dresnek, Albert L., to General Electric Co. Dirt bag for suction cleaner. 2,795,289, 6-11-57, Cl. 183-43.
- Dressel, Arthur, and E. W. Worthington, to R. Hoe & Co., Inc. Printing presses with added color couples. 2,813,713, 11-19-57, Cl. 270-5.
- Dresser Equipment Co.: *See*—
McLerran, Archie R. 2,808,911.
Selberg, John P., and Griffith. 2,781,108.
- Dresser Industries, Inc.: *See*—
Burns, Robert E. 2,787,479.
Newell, Frederick T., and O'Hargan. 2,784,933.
Newell, Frederick T., and Risley. 2,784,991.
Newell, Frederick, and Risley. 2,790,655.
Risley, Roger E. 2,779,610.
Risley, Roger E. 2,787,051.
Risley, Roger E., and Hoke. 2,790,652.
Risley, Roger E., and Kish. 2,785,912.
Risley, Roger E., and Kish. 2,792,240.
- Dresser Operations, Inc.: *See*—
Reeder, William H., III. 2,776,317.
- Dresser, Willis R.: *See*—
Waller, Fred, Dresser, and Babish. 2,816,475.
- Dresset Corp.: *See*—
Mamlouk, Karl H., and Schwarz. 2,793,980.
- Dressler, Robert, to Chromatic Television Laboratories, Inc. Grid structure for television tube. 2,791,710, 5-7-57, Cl. 313-78.
- Dressler, Russell G.: *See*—
Tenney, Ralph F., Dressler, and Remmert. 2,789,888.
- Drever Co.: *See*—
Lindquist, Elmer W. 2,788,957.
- Drew, Charles E. Expanding mandrel chuck. 2,789,825, 4-23-57, Cl. 279-2.
- Drew, E. F., & Co., Inc.: *See*—
Davis, Lloyd W., and Redston. 2,806,804.
- Drew, Glen G., to Bell Telephone Laboratories, Inc. Multi-vibrator load circuit. 2,778,978, 1-22-57, Cl. 317-137.
- Drew, Robert D., to Socony Mobil Oil Co., Inc. Hydrocarbon conversion process and apparatus therefor. 2,795,533, 6-11-57, Cl. 196-50.
- Drew, Robert D., to Socony Mobil Oil Co., Inc. Method and apparatus for the conversion of liquid hydrocarbons. 2,799,625, 7-16-57, Cl. 196-52.
- Drew, Rodney H., and H. G. Walden. Light reflecting device for pedestrians. 2,792,753, 5-21-57, Cl. 88-80.
- Drewitt, James G. N.: *See*—
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Downing, John, Hodge, and Drewitt. 2,781,243.
Downing, John, Hodge, and Drewitt. 2,785,044.
- Drewitt, James G. N., J. A. John, and G. E. Smith, to British Celanese Ltd. Concentration of viscous solutions. 2,798,542, 7-9-57, Cl. 159-4.
- Drewitt, James G. N., and J. Lincoln, to British Celanese Ltd. Improvements in the production of high linear polyesters. 2,799,664, 7-16-57, Cl. 260-45.4.
- Drewitt, James G. N., and J. Lincoln, to British Celanese Ltd. Production of linear polyesters. 2,799,667, 7-16-57, Cl. 260-77.5.
- Drewitt, James G. N., and J. Lincoln, to British Celanese Ltd. Production of polymer from a cyclic carbonate of an alkylene glycol with a mono-ester of a dicarboxylic acid and a mono hydroxy compound. 2,802,807, 8-13-57, Cl. 260-45.4.
- Drewry Photocolor Corp.: *See*—
Livingood, James S., Jr. 2,791,173.

- Drewrys, Walter V. Chain link connecting means. 2,810,297, 10-22-57, Cl. 74-254.
- Drews, Donald W., to Westinghouse Electric Corp. Remote control for ship propulsion. 2,788,480, 4-9-57, Cl. 318-158.
- Dreys, William P., A. F. Kaulakis, and W. K. Lewis, Jr., to Ezzo Research and Engineering Co. Pretreatment of regenerated catalyst in the hydroforming of a naphtha fraction. 2,784,826, 3-12-57, Cl. 196-50.
- Drexel, Charles F.: See—
Chapman, James E., Drexel, and Young. 2,777,524.
- Drexel, Roger E., to E. I. du Pont de Nemours and Co. Stabilized dithiocarbamate pesticidal composition. 2,797,181, 6-25-57, Cl. 167-22.
- Drexler, Jerome, to Bell Telephone Laboratories, Inc. Automatic level control. 2,811,695, 10-29-57, Cl. 333-17.
- Drexler, John J., to Westinghouse Electric Corp. Elevator systems. 2,776,733, 1-8-57, Cl. 187-29.
- Dreyer, André: See—
Hasler, Charles, and Dreyer. 2,804,257.
- Dreyer, André, and M. F. de Toledo. Leak-proof containers for liquids. 2,799,314, 7-16-57, Cl. 150-0.5.
- Dreyer, Charles P.: See—
Dreyer, John F. 2,776,598.
- Dreyer, Gertrude C.: See—
Dreyer, John F. 2,776,598.
- Dreyer, John F., to C. P. and G. C. Dreyer, and L. R. Lytle, as trustees. Mirror having dichroic layer. 2,776,598, 1-8-57, Cl. 88-105.
- Dreyer, John F., Jr., to Telephonics Corp. Resonant circuit. 2,780,727, 2-5-57, Cl. 250-40.
- Dreyer, Robert: See—
Müller, Willy, and Dreyer. 2,790,028.
- Dreyfus, L. A., Co.: See—
Overberger, Charles G. 2,802,812.
- Spake, Robert W. 2,806,595.
- Dreyfus, Philip S.: See—
Hoffman, John H. W. 2,798,607.
- Dreyse, Richard. Translating device for transmitting and receiving coded messages. 2,789,159, 4-16-57, Cl. 178-22.
- Dreznes, John J., to United Specialties Co. Air cleaner for dual carburetor. 2,810,452, 10-22-57, Cl. 183-15.
- Dreznes, John J., to United Specialties Co. Cleaner and inlet air control. 2,815,825, 12-10-57, Cl. 183-43.
- Driesen, Wilfred H.: See—
Brown, Eldon C., Driesen, and Guepet. 2,782,169.
- Drieschman, Donald F.: See—
Sorg, Harold E., and Drieschman. 2,794,933.
- Drillick, John H., W. B. Floyd, J. Halahan, T. F. Aronson, and F. A. Lyon, to A. Kimball Co. Recording scales. 2,792,275, 5-14-57, Cl. 346-10.
- Drilling Research, Inc.: See—
Hull, Henry E., and Perry. 2,795,397.
- Dring, Morgan L.: See—
Brown, Milton, and Dring. 2,793,607.
- Drinkard, Russell D., to Chas. Pfizer & Co., Inc. Preparation of 4-aminouracil. 2,804,459, 8-27-57, Cl. 260-256.4.
- Driskel, Don W., and R. L. Layman, to Haskel Engineering Associates. Fluid actuator with integral mechanical locking means. 2,813,518, 11-19-57, Cl. 121-40.
- Driskell, Ernest B., to Deering Milliken Research Corp. Apparatus for painting rings on the heads of bobbins. 2,791,983, 5-14-57, Cl. 118-219.
- Dritz, Arthur, to John Dritz & Sons. Hand loom. 2,780,854, 2-12-57, Cl. 28-15.
- Dritz, John, & Sons: See—
Dritz, Arthur. 2,780,854.
- Driver, Wilbur B., Co.: See—
Johnson, Norman W., Harder, and Du Mont. 2,783,143.
- Driver, William B. Drilling rig safety brake. 2,795,301, 6-11-57, Cl. 188-189.
- Drobs, August H., to B. and E. Seelmann, d. b. a. Seelmann & Co. Printer's chase. 2,785,629, 3-19-57, Cl. 101-391.
- Drobs, August H., 50% to Blanche Seelmann and E. Seelmann, doing business as Seelmann & Co. Dispensing container. 2,805,000, 9-8-57, Cl. 222-205.
- Drobney, Martin, and J. Lustig, Jr. Laterally extensible foot support for motor vehicles. 2,797,104, 6-25-57, Cl. 280-166.
- Drodofsky, Martin, to C. Zeiss. Device for determining small inclinations from the vertical or horizontal. 2,779,231, 1-29-57, Cl. 88-2.4.
- Droeger, Carl C. and C. R. Hospital-bed accessory. 2,784,423, 3-12-57, Cl. 5-317.
- Droeger, Carl R.: See—
Droeger, Carl C. and C. R. 2,784,423.
- Drohman, Frank C.: See—
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,817,530.
- Drom, Edwin L., to Western Electric Co., Inc. Apparatus for soldering articles. 2,813,502, 11-19-57, Cl. 113-59.
- Droman, Russell H. Air cushion for pneumatic pruning shears. 2,815,004, 12-3-57, Cl. 121-38.
- Drommer, William L., to Le Febure Corp. Bookkeeping stand. 2,792,944, 5-21-57, Cl. 211-136.
- Dros, Albert A.: See—
Van Weenen, Franciscus L., and Dros. 2,817,950.
- Droste, Louis W. Work tables for sheet materials. 2,805,479, 9-10-57, Cl. 33-80.
- Drott, Edward A., deceased; A. B. Houghton, and M. C. and J. W. Drott, executors, to Drott Mfg. Corp. Earth moving apparatus. 2,812,595, 11-12-57, Cl. 37-117.5.
- Drott, John W.: See—
Drott, Edward A. 2,813,595.
- Drott Mfg. Corp.: See—
Drott, Edward A. 2,813,595.
- Drott, Milton C.: See—
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- Drouard, Jacques, and G. Boulard. Machine for clearing away the ballast from railway tracks. 2,778,128, 1-22-57, Cl. 37-104.
- Drouin, Alphonse. Lateral bend conveyor. 2,800,218, 7-23-57, Cl. 198-182.
- Drow, Donald F., to The Deutsch Co. Gas valve. 2,785,874, 3-19-57, Cl. 251-184.
- Drown, David P.: See—
Yeo, Ernest E., and Drown. 2,818,159.
- Dru, Marcel, to Ste Jaruza A. G. Chur. Apparatus for separating solid materials by suspension. 2,798,606, 7-9-57, Cl. 209-173.
- Druck, Milton G., to Plastimayd Products Corp. Plastic shelter. 2,809,649, 10-15-57, Cl. 135-8.
- Druec, Harry F., to Container Corp. of America. Machine for forming reinforcing ribs on container covers. 2,818,005, 12-31-57, Cl. 93-49.
- Druey, Jean, and K. Eichenberger, to Ciba Pharmaceutical Products, Inc. Manufacture of dihydropyridazines. 2,782,195, 2-19-57, Cl. 260-250.
- Druey, Jean, K. Meier, and A. Staehelin, to Ciba Pharmaceutical Products, Inc. Aminopyridazine compounds and their manufacture. 2,786,840, 3-26-57, Cl. 260-250.
- Druey, Jean, and A. Staehelin, to Ciba Pharmaceutical Products, Inc. Pyridazine carboxylic acid esters. 2,792,396, 5-14-57, Cl. 260-250.
- Druey, Jean, and H. O. Isler, to Ciba Pharmaceutical Products, Inc. Acyl-butyric acids. 2,792,418, 5-14-57, Cl. 260-520.
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- Drug Research, Inc.: See—
Paterson, Laurene O. 2,779,764.
- Drugmand, Lester D., to Edwin L. Wiegand Co. Electric heaters. 2,817,742, 12-24-57, Cl. 219-38.
- Drugmand, Lester D., and M. Williams, to The Edwin L. Wiegand Co. Electric heaters. 2,786,125, 3-19-57, Cl. 219-38.
- Drum Fire, Inc.: See—
Brooks, Lorimer P. Re. 24,399.
- Brooks, Lorimer P. 2,811,798.
- Drum, John S., Jr.: See—
Polk, Isaac H. 2,795,939.
- Drumm, Manuel F., and W. D. Burke, to Monsanto Chemical Co. Shell molding compositions and process for preparing same. 2,806,832, 9-17-57, Cl. 260-38.
- Drummond, Carl N., to E. I. du Pont de Nemours and Co. Splicing machine. 2,794,489, 6-4-57, Cl. 154-42.1.
- Drummond, Folsom E., to Midland Chemical Corp. Coating composition. 2,787,555, 4-2-57, Cl. 106-193.
- Drummond, Folsom E., and M. J. Hiler, to The Commonwealth Engineering Co. of Ohio. Method of producing paper made with nylon scrap and apparatus. 2,789,935, 4-23-57, Cl. 154-100.
- Drummond, Ralph S. Method of and means for varying the speed of alternating current motors. 2,787,747, 4-2-57, Cl. 318-45.
- Drummond, Warren W.: See—
Slayer, Games, and Drummond. 2,797,728.
- Drummond, Warren W., to Owens-Corning Fiberglas Corp. Method for producing a continuous roving. 2,795,926, 6-18-57, Cl. 57-164.
- Drummond, William D.: See—
Mittelman, Edward R., and Drummond. 2,795,764.
- Drury, Thomas W., to Kingston Products Corp. Switch mounting. 2,803,728, 8-20-57, Cl. 200-168.
- Druwhit Metal Products Co.: See—
Alexander, Robert L. 2,799,903.
- Druz, Walter S., to Zenith Radio Corp. Subscription television system. 2,788,387, 4-9-57, Cl. 178-5.1.
- Druz, Walter S., to Zenith Radio Corp. Subscription color television. 2,813,145, 11-12-57, Cl. 178-5.1.
- Druzynski, Frank C., to Continental Motors Corp. Crankcase breather system. 2,775,960, 1-1-57, Cl. 123-119.
- Dryan, James J.: See—
Collins, William F., and Dryan. 2,790,538.
- Dryden, Horace W. All-plastic marker for animal. 2,794,277, 6-4-57, Cl. 40-3.
- Dryer, Ervin W., to General Motors Corp. Two speed rear axle. 2,783,661, 3-5-57, Cl. 74-781.
- Drying Systems, Inc.: See—
Porwancher, Samuel R. 2,788,411.
- Porwancher, Samuel R. 2,790,042.
- Drysdale, John J., to E. I. du Pont de Nemours and Co. 1-fluoro-1,2-dicyano-2-hydrocarbon substituted ethylenes, and their preparation from the corresponding 1,1-difluoro-2-cyanoethylenes and alkali cyanides. 2,782,218, 2-19-57, Cl. 260-465.7.
- Drzadzynski, Ollie J.: See—
Nycz, Anthony F., and Drzadzynski. 2,797,520.
- Dsenis, Harold L., to Consolidated Electrodynamics Corp. Apparatus for strip material. 2,788,587, 4-16-57, Cl. 34-110.

- Dual-Lite Co., Inc.: *See*—
Ippolito, Carmelo. 2,804,554.
- Dualoc Engineering Co.: *See*—
Tallakson, Carl A. 2,786,366.
- Dualor Engineering Co.: *See*—
Schoenrock, Otto R. 2,789,446.
- Duane, Jerome J.: *See*—
Godowsky, Leopold, and Duane. 2,787,544.
- Dubas, Henry F. Lettering guide. 2,806,299, 9-17-57, Cl. 35-37.
- Dubbe, Maynard L. Weight for a vehicle wheel. 2,784,036, 3-5-57, Cl. 301-41.
- Dubell Enterprises, Inc.: *See*—
Capell, Richard L. 2,817,488.
- Dubesset, Michel: *See*—
Lambert, Roger E., and Dubesset. 2,817,928.
- Dubitzky, Michael: *See*—
Cowles, Roderick J., and Dubitzky. 2,803,859.
- Dublin, James R., III: *See*—
Tausch, Gilbert H., and Dublin. 2,782,860.
- Dubner, Benjamin B. Mold forming shoe. 2,794,270, 6-4-57, Cl. 36-25.
- Du Bois, Arthur E., to Aluminum Products, Inc. Hoist. 2,816,733, 12-17-57, Cl. 254-167.
- Du Bois, Edgar H.: *See*—
Zahradnik, George J., and Du Bois. 2,789,674.
- Du Bois, John H.: *See*—
Clay, Burton R., and Du Bois. 2,806,164.
- Du Bois, John H., to Plax Corp. Pleated dispenser. 2,784,882, 3-12-57, Cl. 222-215.
- Dubois, Martin H., to Svenska Rolafabriken AB. Intercommunication systems. 2,815,398, 12-3-57, Cl. 179-1.
- Du Bois, Robert C.: *See*—
Booth, John G., Du Bois, and West. 2,808,725.
- Du Bois, Robert C., to Minneapolis-Honeywell Regulator Co. Viscous damping device. 2,802,485, 8-13-57, Cl. 138-46.
- Du Bois, Robert E. Resistor structure. 2,812,410, 11-5-57, Cl. 201-69.
- Duboscclard, Paul P. M. Milling machine. 2,790,360, 4-30-57, Cl. 90-135.
- Du Bourg de Bozas, Guy. Radiogoniometer. 2,799,856, 7-16-57, Cl. 343-115.
- Dubovick, Walter A.: *See*—
Jankauskas, George P. 2,807,338.
- Du Bridge, Fred B. Process and method of making sparkling beverage jelly. 2,778,737, 1-22-57, Cl. 99-129.
- DuBrow, Paul L.: *See*—
Marsh, Byron E., Schubert, Betcher, and DuBrow. 2,798,798.
- Dubsky, Arthur. Lighter cover biasing spring. 2,809,511, 10-15-57, Cl. 67-7.1.
- Dubuc, Robert J., to Bendix Aviation Corp. Filter processing machine. 2,792,766, 5-21-57, Cl. 93-1.
- Dubuit, Louis G. Silk-screen colour printing machine. 2,799,223, 7-16-57, Cl. 101-115.
- Du Bus de Warnaffe, Paul. Elastic suspension. 2,787,459, 4-2-57, Cl. 267-15.
- Ducharme, Arthur A. Writing instrument. 2,808,032, 10-1-57, Cl. 120-42.03.
- Du Chatellier, Raoul. High pass filter. 2,779,924, 1-29-57, Cl. 333-76.
- Duché, Frederic J., to Compagnie Generale d'Electro-Ceramique, Insulators. 2,808,451, 10-1-57, Cl. 174-188.
- Du Chene, Roy J., to A. L. Russell. Golf ball retriever. 2,802,687, 8-13-57, Cl. 294-19.
- Duchin, Maurice. Knock-down furniture. 2,799,401, 7-16-57, Cl. 211-148.
- Ducker, William H. Washing device. 2,814,817, 12-3-57, Cl. 15-139.
- Duckett, Edward J., and G. A. Klotzbaugh, to Westinghouse Electric Corp. Secrecy transmission system. 2,792,493, 5-14-57, Cl. 250-17.
- Duckham, William G. Means for electrically heating vessels. 2,794,107, 5-23-57, Cl. 219-43.
- Ducking Ducks Inc.: *See*—
Fluke, Jefferson M., Albertson, and Peabody. 2,814,898.
- Duckro, John E., to L. R. Mahrt and D. R. Laughter, as trustees for Standard Dayton Corp. Safety device for movable belt assemblies. 2,812,051, 11-5-57, Cl. 198-105.
- Duckwald, Charles S.: *See*—
Wall, Robert L., and Duckwald. 2,803,760.
- Duckworth, Ralph J., to General Motors Corp. Anti-friction joint. 2,791,894, 5-14-57, Cl. 64-23.
- Duckworth, Walter A.: *See*—
Gass, Howard S. 2,801,895.
- Duckworth, Walter E., to The Glacier Metal Co. Ltd. Bearings and bearing materials and method of making same. 2,799,080, 7-16-57, Cl. 29-182.3.
- Duckworth, Wesley H., and W. E. Barnes. Christmas tree lighting system. 2,795,768, 6-11-57, Cl. 339-99.
- Duckworth, Winston H., to the United States of America as represented by the United States Atomic Energy Commission. Ceramic fuel element material for a neutronic reactor and method of fabricating same. 2,814,857, 12-3-57, Cl. 29-182.5.
- Ducoff, George, to Bendix Aviation Corp. Temperature responsive servomotor system. 2,790,120, 4-23-57, Cl. 318-29.
- Ducon Co., The: *See*—
Leech, Robert R. 2,811,222.
- Dudchik, Nicholas: *See*—
Gardes, Alfred W., and Dudchik. 2,788,126.
- Duddleston, Kenneth J. Compress air spreader for a vehicle tarpaulin cover. 2,807,499, 9-24-57, Cl. 296-100.
- Duddy, Joseph C., to The Electric Storage Battery Co. Method of producing microporous materials resistant to chemical attack. 2,794,753, 6-4-57, Cl. 117-138.8.
- Dudek, Beatrice: *See*—
Kayton, Robert, Freundel, Jeter, and Dudek. 2,783,880.
- Dudek, Edmund C., to Portable Electric Tools, Inc. Power driven hand manipulated portable saws. 2,782,813, 2-26-57, Cl. 143-43.
- Dudley, Edward C., to Eastman Pacific Co. Hydraulic pump or motor. 2,779,296, 1-29-57, Cl. 103-162.
- Dudley, John S., to Whitin Machine Works. Comber cushion plate. 2,802,241, 8-13-57, Cl. 19-120.
- Dudley, Victor I., to Joy Mfg. Co. Low height mine haulage vehicle. 2,777,526, 1-15-57, Cl. 180-2.
- Dudley, Victor I., to Joy Mfg. Co. Operator control station for mine haulage vehicle. 2,777,530, 1-15-57, Cl. 180-77.
- Dudley, William G., P. Hart, and O. Osborn, to The Dow Chemical Co. Method and apparatus for detecting the moisture content of liquid halo-hydrocarbons. 2,809,928, 10-15-57, Cl. 204-1.
- Dudley, Wray E., to The Skinner Irrigation Co. Rotary sprinkler, including impact absorbing means. 2,778,681, 1-22-57, Cl. 299-69.
- Dudley, Wray E., to The Skinner Irrigation Co. Sprinkler including coupling. 2,793,911, 5-28-57, Cl. 299-69.
- Dudman, Ruth K., to Swift & Co. Method of making high-protein food products. 2,785,069, 3-12-57, Cl. 99-14.
- Dudziak, Chester, and J. F. McCoy, to Radio Corp. of America. Voltage regulating circuits. 2,807,774, 9-24-57, Cl. 323-22.
- Duell, Morgan V., to Buxton, Inc. Key hanger support for key cases. 2,780,089, 2-5-57, Cl. 70-456.
- Duenke, Clarence G., to Moloney Electric Co. Cores for electrical induction apparatus. 2,804,600, 8-27-57, Cl. 336-210.
- Duerksen, Arnold, to Super Mold Corp. of California. Matrix latching device. 2,778,063, 1-22-57, Cl. 18-38.
- Duerksen, Arnold, to Super Mold Corp. of California. Electrically heated tire mold matrix. 2,801,443, 8-6-57, Cl. 18-18.
- Duerksen, Arnold, and E. Roesch, to Super Mold Corp. of California. Tire retreading mold. 2,812,547, 11-12-57, Cl. 18-18.
- Duesel, Bernard F.: *See*—
Green, Daniel M., and Duesel. 2,783,224.
- Scudi, John V., Duesel, and Mayurik. 2,789,980.
- Ladenburg, Kurt, Duesel, and Fand. 2,776,287.
- Dufault, Charles R. Water closets. 2,799,865, 7-23-57, Cl. 4-41.
- Dufault, Emmanuel J., J. W. E. Ruddell, and E. W. D. Campbell, to Canada Packers, Ltd. Method of derinding hog fats. 2,785,719, 3-19-57, Cl. 146-226.
- Du Faut, Homer D., and E. A. Walen. Gas burner. 2,794,497, 6-4-57, Cl. 158-99.
- Duff, Duncan S.: *See*—
Lien, Howard C. 2,783,046.
- Duff, Jack E., to The Hoover Co. Method of making an extensible flexible hose. 2,783,819, 3-5-57, Cl. 154-8.
- Duff, Jack E., to The Hoover Co. Method of close coiling sheathed spring wire. 2,793,672, 5-28-57, Cl. 153-65.
- Duff, Julia: *See*—
Lien, Howard C. 2,783,046.
- Duff, Mort. Animal scratchers and medicators. 2,800,108, 7-23-57, Cl. 119-157.
- Duff-Norton Co.: *See*—
Carroll, Charles. 2,789,791.
- Duff, Robin A., to F. H. Lloyd & Co. Ltd., James Bridge Steel Works. Grinding machines. 2,816,401, 12-17-57, Cl. 51-99.
- Duff, Waitis J. Inertia-momentum operated rotatable sign. 2,798,321, 7-9-57, Cl. 40-68.
- Duffee, Homer W.: *See*—
Biefeld, Lawrence P., and Duffee. 2,780,909.
- Duffee, Homer W., and M. C. Armstrong, to Owens-Corning Fiberglas Corp. Binders for fibrous products. 2,782,178, 2-19-57, Cl. 260-33.4.
- Duffey, Robert T., and V. L. Dagostino, to The Teleregister Corp. Means for generating synchronizing pulses for magnetic storage devices. 2,797,402, 6-25-57, Cl. 340-174.
- Duffield, Robert R. Form fit heat and cold applicator device. 2,783,807, 3-5-57, Cl. 150-2.4.
- Duffing, Paul, to Siemens-Schuckertwerke Aktiengesellschaft. Alternating-current control apparatus with holding magnets. 2,784,352, 3-5-57, Cl. 317-11.
- Duffing, Paul, to Siemens-Schuckertwerke Aktiengesellschaft. Oscillating armature and switch provided therewith. 2,802,079, 8-6-57, Cl. 200-90.
- Duffing, Paul, and G. Conradi, to Siemens-Schuckertwerk Aktiengesellschaft. Magnetically controlled electric counting apparatus. 2,777,098, 1-8-57, Cl. 317-148.
- Dufford, Harry M. Plastic mix texturing device. 2,811,767, 11-5-57, Cl. 25-1.
- Duffy, Dan W.: *See*—
Schumacher, John N. 2,796,852.
- Schumacher, John N. 2,796,855.
- Duffy, Edward F., to La Crosse Trailer Corp. Hinged drawbar for trailers. 2,784,857, 3-12-57, Cl. 214-506.
- Duffy, John M., to Bomec Laboratories Inc. Shunted resonant window. 2,812,504, 11-5-57, Cl. 333-98.

- Duffy, Joseph W. Operating table for pigs. 2,781,740, 2-19-57, Cl. 119-103.
- Dufour, Charles, to Compagnie Generale de Telegraphie Sans Fil. Targets for storage tubes. 2,803,780, 8-20-57, Cl. 315-12.
- Dufour, Claude: *See*—
Beaufour, Henri and A. Buzas, and Dufour. 2,794,045.
- Dugan, Gordon F.: *See*—
Widiger, Alexander H., Jr., Aaron, and Dugan. 2,799,713.
Widiger, Alexander H., Jr., Aaron, and Dugan. 2,799,714.
- Dugan, John W., to Flo-Mix Fertilizers Corp. Method of soil conditioning and fertilizing. 2,781,612, 2-19-57, Cl. 47-58.
- Dugan, John W., to Flo-Mix Fertilizers Corp. Method for mixing ammonia with water and introducing the mixture into the soil. 2,784,530, 3-12-57, Cl. 47-58.
- Duggan, Morgan T. Screw holding and guiding means for a screwdriver bit. 2,780,257, 2-5-57, Cl. 145-51.
- Duggan, Robert B.: *See*—
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- Du Grenier, Francis C., and F. B. Perri; said Perri assor. to B. E. Bouchard. Change maker for vending machine. 2,802,474, 8-13-57, Cl. 133-2.
- Duinker, Simon, and G. W. van Oosterhout, to North American Philips Co., Inc. Inductance controllable by premagnetisation. 2,813,256, 11-12-57, Cl. 336-83.
- Duisburger Kupferhutte: *See*—
Schackmann, Heinrich, Gregor, Kayser, and Teworte. 2,793,111.
- Duisenberg, Charles E., and R. H. Bedford. Apparatus for rejuvenating and prolonging the life of hypo solutions. 2,791,555, 5-7-57, Cl. 204-212.
- Dujic, Milan. Convertible top. 2,798,763, 7-9-57, Cl. 296-107.
- Du Kane Corp.: *See*—
Larson, Robert, and Shoemaker. 2,777,541.
Supitilov, Michael C. 2,798,581.
- Duke, Bernard S., to Institutional Industries, Inc. Adjustable leg rest assembly for wheel chairs. 2,793,682, 5-28-57, Cl. 155-171.
- Duke, Edward T.: *See*—
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- Duke, James B., to Minerals & Chemicals Corp. of America. Crystallization process for recovering sylvite from sylvinitic ore. 2,788,257, 4-9-57, Cl. 23-31.
- Duke, John A.: *See*—
Werme, John V., Dever, and Duke. 2,814,731.
- Duke, Marshall W., to The Dow Chemical Co. Process for raising the melting point of acetone-soluble copolymers. 2,817,650, 12-24-57, Cl. 260-85.5.
- Dukes, Phillip J., and H. B. Clark, to Vascoloy-Ramet Corp. Molding cutterhead and knife. 2,814,320, 11-26-57, Cl. 144-228.
- Duklaet, Harald, to T. Greiff. Clamping devices for fixing line wires to insulator blocks. 2,813,923, 11-19-57, Cl. 174-169.
- Duks, Karlis, to Aircraft-Marine Products, Inc. Sleeve applicators. 2,783,813, 3-5-57, Cl. 153-1.
- Dulaney, Eugene L., to Merck & Co., Inc. Preparation of ergosterol containing yeast. 2,817,624, 12-24-57, Cl. 195-82.
- Dulaney, Eugene L., and W. McAleer, to Merck & Co., Inc. 11 alpha-hydroxylation of steroids by aspergillus ochraceus. 2,802,775, 8-13-57, Cl. 195-51.
- Dulaney, Eugene L., and W. J. McAleer, to Merck & Co. Inc. 17a oxygenation of steroids by sporormia. 2,813,060, 11-12-57, Cl. 195-51.
- Du Laney, Lucius B. Mold. 2,791,019, 5-7-57, Cl. 25-118.
- Dulaney, Richard O. Pneumatic rotary drill hammer. 2,786,451, 3-26-57, Cl. 121-30.
- Dulaney, Richard O. Pneumatic rotary drill hammer. 2,813,516, 11-19-57, Cl. 121-30.
- Dulberg, Murray. Flashlight. 2,797,309, 6-25-57, Cl. 240-10.68.
- Dulberg, Murray. Cosmetic case cover. 2,805,674, 9-10-57, Cl. 132-79.
- Dulberg, Murray. Tubular kit. 2,809,647, 10-15-57, Cl. 132-79.
- Dulberg, Murray. Rotary holder. 2,814,384, 11-26-57, Cl. 206-56.
- Dullum, Arthur E. Process for forging hollow tubular objects. 2,778,101, 1-22-57, Cl. 29-535.
- Dumas, Albert, to Ste: Anciens Etablissements A Savy, Jeanjean & Cie; and Ste: Baker Perkins Ltd. Brush-sieve for confectionery machines. 2,801,598, 8-6-57, Cl. 107-44.
- Dumas, Edward E., to Western Electric Co., Inc. Expansion nut comprised of flanged outer sleeve and tapered threaded expander thereof. 2,796,907, 6-25-57, Cl. 151-41.74.
- Dumas, Jack. Fishing tackle. 2,775,840, 1-1-57, Cl. 43-42.16.
- Dumbauld, George K.: *See*—
Morgan, Bryan E., and Dumbauld. 2,798,003.
Morgan, Bryan E., and Dumbauld. 2,801,931.
- Dumer, Johann (Hans). Appliance for radiographic representation of sections of the body. 2,789,231, 4-16-57, Cl. 250-61.5.
- Dummett, George A., to The A. P. V. Co. Ltd. Treatment of cream. 2,812,253, 11-5-57, Cl. 99-61.
- Du Mont, Allen B., Laboratories, Inc.: *See*—
Bang, Mogens W. 2,798,897.
Berkley, Carl. 2,811,696.
Beste, Harold E. 2,800,528.
Beste, Harold E. 2,814,757.
De Bell, John M., Jr. 2,808,573.
Eaton, Roland D. 2,801,566.
Ecklund, Elvin E., and Gavr. 2,810,887.
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Frenkel, Lothar. 2,779,890.
Fulmer, Norman C. 2,788,471.
Fulmer, Norman C. 2,790,024.
Fulmer, Norman C. 2,807,741.
Haberkost, Jerome G. 2,794,148.
Hoagland, Kenneth. 2,803,768.
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Koch, Stanley J., and Rutherford. 2,782,953.
McElroy, George E. 2,781,458.
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Nestlerode, Clifford D., and Felt. 2,808,515.
Palmer, Richard C. 2,786,096.
Palmer, Richard C. 2,786,960.
Reid, James H. 2,786,993.
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Slate, Matthew W. 2,794,922.
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Tyminski, Walter V., and Hylas. 2,786,142.
- Du Mont, Charles S.: *See*—
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- Dumonte, Edmund: *See*—
Jahnel, Edwin J., and Dumonte. 2,800,858.
- Dumore Co., The: *See*—
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- Dunay, John, to Haft and Sons, Inc. Electromagnetic oscillating motors. 2,810,083, 10-15-57, Cl. 310-39.
- Dunbar, Allen S., to the United States of America as represented by the Secretary of the Army. Microwave lens antenna. 2,795,783, 6-11-57, Cl. 343-754.
- Dunbar, Arthur. Electric zigzag labyrinth ozone generator. 2,793,184, 5-21-57, Cl. 204-318.
- Dunbar, Robert R. Adjustable chuck adapter. 2,780,468, 2-5-57, Cl. 279-16.
- Duncan, Angus W., to The Mining Engineering Co. Ltd. Conveyors. 2,790,539, 4-30-57, Cl. 198-204.
- Duncan, Dan B.: *See*—
Schrotter, Jerome H., and Duncan. 2,800,560.
- Duncan Electric Co., Inc.: *See*—
Coleman, Orville K. 2,782,387.
Graefnitz, Russell F. 2,783,488.
Road, Richard A. 2,805,403.
Road, Richard A., and Coleman. 2,788,472.
- Duncan, George E. Automatic multiple egg laying and cooling apparatus. 2,793,614, 5-28-57, Cl. 119-48.
- Duncan, Gordon W., W. E. Lifson, and J. P. Haworth, to Esso Research and Engineering Co. Motor fuel. 2,784,067, 3-5-57, Cl. 44-63.
- Duncan, Gordon W., and D. A. Guthrie, to Esso Research and Engineering Co. Method of separating sulfonates from solutions containing them. 2,786,868, 3-26-57, Cl. 260-504.
- Duncan, Ira J., to Detrex Corp. Electrolytic method of cleaning containers. 2,778,791, 1-22-57, Cl. 204-141.
- Duncan, James E., and S. L. Seymour, to Pittsburgh Plate Glass Co. Glass composition. 2,776,900, 1-8-57, Cl. 106-52.
- Duncan, Richard A., and D. M. Burns, to Hawaiian Development Co., Ltd. Sugar cane segmentizing apparatus. 2,808,865, 10-8-57, Cl. 146-119.
- Duncan, Thomas M., one-sixth to E. O. Ayscue, one-sixth to W. C. Clark, and one-sixth to A. Y. Dowell and A. Y. Dowell, Jr., jointly. Method of winding filling, cam, and cop produced thereby. 2,804,273, 8-27-57, Cl. 242-26.45.
- Duncan, Thomas W., to Whirlpool-Seeger Corp. Door holder and closer. 2,783,492, 3-5-57, Cl. 16-80.
- Duncan, William M. Chain-grate heat machine. 2,777,429, 1-15-57, Cl. 122-371.
- Duncan, William M. Apparatus and method of filling ingot molds. 2,799,906, 7-23-57, Cl. 22-155.
- Duncan, William M. Apparatus for heat treating ore. 2,800,319, 7-23-57, Cl. 266-21.
- Duncanson, Robert H., to General Mills, Inc. Turbulence controlled steam iron. 2,793,448, 5-28-57, Cl. 38-77.
- Dunklee, Romanzo E. and V. R. Grain hopper. 2,806,074, 9-10-57, Cl. 220-1.
- Dunklee, Vernon R.: *See*—
Dunklee, Romanzo E. and V. R. 2,806,074.
- Dunell, Basil A., A. E. J. Eggleton, and I. E. Puddington, to National Research Council. Apparatus for classifying or settling fluid suspensions. 2,793,186, 5-21-57, Cl. 210-521.

- Duner Co.: *See*—
 Duner, John C. 2,816,294.
 Duner, John C., to Duner Co. Water closets. 2,816,294, 12-17-57, Cl. 4—8.
- Dunford & Elliott Process Engineering Ltd.: *See*—
 Heathcote, Charles W. 2,792,641.
- Dungan, Richard T. Control for non-hypergolic liquid propellant rocket engines. 2,779,158, 1-29-57, Cl. 60—35.6.
- Dungan, Theodore A., to Food Machinery and Chemical Corp. Heat exchange shelf. 2,787,445, 4-2-57, Cl. 257—158.
- Dungfelder, Chris C., and C. A. Siver, to Barry-Wehmiller Machinery Co. Bottle centering cup assembly. 2,786,479, 3-26-57, Cl. 134—72.
- Dungler, Julien. Supporting and transporting means for web or sheet material in nozzle driers. 2,777,213, 1-15-57, Cl. 34—160.
- Dungler, Julien. Foulards or paddlers. 2,784,583, 3-12-57, Cl. 68—15.
- Dunham-Bush, Inc.: *See*—
 Bolling, Cecil. 2,787,134.
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- Dunham, Clinton H. Expandable spectacle line-blind. 2,789,582, 4-23-57, Cl. 138—94.3.
- Dunham Co., The: *See*—
 Elton, Byron G. 2,810,486.
- Dunham, George W. Looms. 2,785,701, 3-19-57, Cl. 139—126.
- Dunham, George W. Lay and pilot guides. 2,793,658, 5-28-57, Cl. 139—188.
- Dunham, Kenneth R.: *See*—
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- Dunham, Richard M.: *See*—
 Beveridge, Harold N., and Dunham. 2,814,760.
- Dunham, Richard M., and J. Mofenson, to Raytheon Mfg. Co. Range marker generators. 2,815,447, 12-3-57, Cl. 250—27.
- Dunkel, Walter L., F. P. Ford, and W. C. Dowling, to Esso Research and Engineering Co. Oil extended synthetic rubber compositions. 2,778,808, 1-22-57, Cl. 260—33.6.
- Dunkelman, Lawrence: *See*—
 Friedman, Herbert, and Dunkelman. 2,791,712.
- Dunkelman, Robert L., to General Electric Co. Audible signalling means for clothes dryer lint traps. 2,779,305, 1-29-57, Cl. 116—112.
- Dunkelman, Robert L., to General Electric Co. Automatic clothes dryer control. 2,796,679, 6-25-57, Cl. 34—45.
- Dunkelman, Robert L., to General Electric Co. Control system for clothes dryers. 2,807,889, 10-1-57, Cl. 34—45.
- Dunker, Josef, and D. M. Evans, to Ajem Laboratories, Inc. Vapor-tight fluorescent lamp fixture. 2,791,681, 5-7-57, Cl. 240—51.11.
- Dunkley, Rowland A. G.: *See*—
 Starr, Arthur T., Grayson, Dunkley, and Walker. 2,802,170.
- Dunlap, Charles M. Time delay switch. 2,780,086, 2-5-57, Cl. 68—24.
- Dunlap, Henry F.: *See*—
 Schuler, Ellis W., Jr., Dunlap, and Gourley. 2,782,564.
- Dunlap, William C., Jr.: *See*—
 Gurewitsch, Anatole M., and Dunlap. 2,792,484.
- Dunlap, William C., Jr., to General Electric Co. Germanium-zinc alloy semi-conductors. 2,776,920, 1-8-57, Cl. 148—33.
- Dunleavy, Thomas: *See*—
 Lombardo, Joseph and P. P., and Dunleavy. 2,801,853.
- Dunlee Corp.: *See*—
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 Atlee, Zed J. 2,790,102.
- Dunlevy, Ralph, H. Frick, and J. H. Shoemaker, to Rolene Corp. Method of cleaning metal strip continuously. 2,800,420, 7-23-57, Cl. 134—15.
- Dunlevy, Ralph, H. Frick, and J. H. Shoemaker, to Kolene Corp. Apparatus for cleaning metal strip continuously. 2,818,075, 12-31-57, Cl. 134—63.
- Dunlop, Adam, to Rolls-Royce Ltd. Moulds for precision casting. 2,806,269, 9-17-57, Cl. 22—196.
- Dunlop, Andrew P., to The Quaker Oats Co. Stabilization of levulinic acid. 2,780,588, 2-5-57, Cl. 202—52.
- Dunlop, Andrew P., and J. W. Madden, to The Quaker Oats Co. Process of preparing gamma-valerolactone. 2,786,852, 3-26-57, Cl. 260—343.6.
- Dunlop, Andrew P., and P. A. Wells, Jr., to The Quaker Oats Co. Process for producing levulinic acid. 2,813,900, 11-19-57, Cl. 260—528.
- Dunlop, James, to Westinghouse Electric Corp. Accurate landing elevator systems. 2,792,080, 5-14-57, Cl. 187—29.
- Dunlop Rubber Co. Ltd.: *See*—
 Brazier, Leslie R. 2,803,853.
 Butler, Henry J. 2,784,811.
 Butler, Henry J. 2,816,631.
 Crabbe, John D., and Warren. 2,788,838.
 Dowell, Peter T. G., and Pumphrey. 2,815,988.
 Dunn, Richard L. 2,804,130.
 Harper, Thomas W. 2,803,846.
 Henson, Douglas R. 2,799,177.
 Mercer, George K. 2,815,750.
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- Dunlop Rubber Co. Ltd.: *See*—Continued
 Trevaskis, Henry W. 2,775,868.
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- Dunlop Tire and Rubber Corp.: *See*—
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 Neale, Albert E. T., and Fishbein. 2,796,449.
- Dunlop, Wirt V.: *See*—
 Wittnebert, Frederick R., Dunlop, and Neely. 2,782,438.
- Dunmire, Robert W., to Goodyear Aircraft Corp. Method of forming multi-axially stretched enclosures. 2,784,457, 3-12-57, Cl. 18—56.
- Dunn, Bernard J. Swimming pool basket ball apparatus. 2,818,254, 12-31-57, Cl. 273—1.5.
- Dunn, Earl F.: *See*—
 Parry, Frank, and Dunn. 2,808,796.
- Dunn, Edward J. Apparatus for producing titanium metal. 2,792,438, 5-14-57, Cl. 13—31.
- Dunn, Elman R., to Gardner Machine Co. Telescoping hood for a disc grinder. 2,801,500, 8-6-57, Cl. 51—109.
- Dunn, Eustace S. Fluid tight seal for electric motors and generators. 2,800,597, 7-23-57, Cl. 310—86.
- Dunn, Eustace S. Heat dissipation in rotors of electric motors. 2,803,763, 8-20-57, Cl. 310—54.
- Dunn, Eustace S., and D. C. Haynes, said Haynes assor. to The Louis Allis Co. Sealed electric motor. 2,809,810, 10-8-57, Cl. 310—86.
- Dunn, Floyd, to the United States of America as represented by the Secretary of the Navy. Method of bonding metal to ceramic. 2,800,710, 7-30-57, Cl. 29—473.1.
- Dunn, George B., Jr., to General Electric Co. Closed slot rotor punching. 2,794,138, 5-28-57, Cl. 310—211.
- Dunn, George B., Jr., to General Electric Co. Polyphase induction-type motors. 2,796,543, 6-18-57, Cl. 310—202.
- Dunn, George E., Jr., to Radio Corp. of America. Semiconductor devices and method of making same. 2,805,968, 9-10-57, Cl. 148—1.5.
- Dunn, Gertrude S. Crust ring. 2,814,289, 11-26-57, Cl. 126—385.
- Dunn, Guy A.: *See*—
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- Dunn, Harold G., to The Hoover Co. Washing machines incorporating squeeze driers. 2,797,568, 7-2-57, Cl. 68—21.
- Dunn, Harold G., to The Hoover Co. Clothes driers. 2,800,010, 7-23-57, Cl. 68—242.
- Dunn, Harold H., and E. H. Granberry, to West Point Mfg. Co. Slub mechanism and signal generator therefor. 2,810,165, 10-22-57, Cl. 19—143.5.
- Dunn, Harry L., to International Business Machines Corp. Electroscopic toner metering device. 2,779,306, 1-29-57, Cl. 118—303.
- Dunn, James H.: *See*—
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- Dunn, Jenuis L., to General Electric Co. Radar receiver automatic noise leveling circuits. 2,783,466, 2-26-57, Cl. 343—17.1.
- Dunn, John, 50% to F. Newmiller. Turn signal for vehicle drivers. 2,787,975, 4-9-57, Cl. 116—63.
- Dunn, John C.: *See*—
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- Dunn, John H.: *See*—
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- Dunn, Joseph A. Printing and segregating machine. 2,781,721, 2-19-57, Cl. 101—46.
- Dunn, Loyal T., and G. F. Kuhn. Circuit breaker. 2,801,399, 7-30-57, Cl. 339—224.
- Dunn, Nelson H.: *See*—
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- Dunn, Raymond E., to General Motors Corp. Anti-rattle device. 2,800,800, 7-30-57, Cl. 74—325.
- Dunn, Raymond J., Jr., and O. L. Wright, Jr., to The Hartford Special Machinery Co. Universal drilling machine. 2,779,220, 1-29-57, Cl. 77—64.
- Dunn, Reginald W., and J. F. A. Meyer, to Kelvin & Hughes Ltd. Frequency controlling or indicating devices. 2,815,477, 12-3-57, Cl. 318—341.
- Dunn, Richard L., to Dunlop Rubber Co. Ltd. Elastomer products. 2,804,130, 8-27-57, Cl. 155—182.
- Dunn, Robert C., to Kaiser Aluminum & Chemical Corp. Extraction of alumina from its ores. 2,785,956, 3-19-57, Cl. 23—143.
- Dunn, Roy E., W. B. Grandjean, and F. L. Padgett, to Ethyl Corp. Deodorization of benzene hexachloride. 2,790,012, 4-23-57, Cl. 260—648.
- Dunn, Thomas H., and J. L. Lummus, to Pan American Petroleum Corp. Oil base drilling fluid. 2,797,196, 6-25-57, Cl. 252—8.5.
- Dunn, Thomas J., to Howard H. Samuel, Inc. Cutter knife head construction for a mower cutter assembly. 2,794,311, 6-4-57, Cl. 56—303.
- Dunn, Thomas J. Automotive air conditioner. 2,794,330, 6-4-57, Cl. 62—117.1.
- Dunn, William L., to Magnecord, Inc. Electric motor. 2,796,571, 6-18-57, Cl. 318—171.
- Dunn, William M., to Ace Engineering & Machine Co., Inc. Radio shielded enclosures. 2,793,245, 5-21-57, Cl. 174—35.
- Dunnam, Pete H. Joint for concrete slabs. 2,798,418, 7-9-57, Cl. 94—17.

- Dunnet, Charles W. Butter dispenser. 2,810,195, 10-22-57, Cl. 31-21.
- Dunnet, Wallace J.: *See*—
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- Dunnican, Ward G., to Becton, Dickinson and Co. Hypodermic syringe tip assembly. 2,811,155, 10-29-57, Cl. 128-218.
- Dunning, John W., A. K. Moses, Jr., and M. J. Toth, to International Basic Economy Corp. High velocity film heat exchanger. 2,779,724, 1-29-57, Cl. 202-236.
- Dunning, Leighton, to William M. Wilson's Sons, Inc. Metering pumps. 2,813,660, 11-19-57, Cl. 222-36.
- Dunning, Robert M.: *See*—
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- Dunnington, Frank G., to the United States of America as represented by the Secretary of the Navy. Frequency indicator. 2,807,798, 9-24-57, Cl. 343-5.
- Dunshee, Bryant R., and H. M. Keller, to General Mills, Inc. Icing mix. 2,795,503, 6-11-57, Cl. 99-139.
- Dunsmuir, Robert, to The British Thomson-Houston Co. Ltd. Magnetron oscillators and their associated output circuits. 2,805,337, 9-8-57, Cl. 250-36.
- Dunsmuir, Robert, T. W. C. Fisher, and N. S. Nicholls, to The British Thomson-Houston Co. Ltd. Magnetrons. 2,778,975, 1-22-57, Cl. 315-39.69.
- Dunston, James M.: *See*—
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- Duo-Bed Corp.: *See*—
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- Dupasquier, Joseph H. Upwardly directed steam shower assembly. 2,809,867, 10-15-57, Cl. 299-104.
- Duplan Corp., The: *See*—
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- Dupler, Raymond R. Fuel burning air heating apparatus. 2,789,554, 4-23-57, Cl. 126-63.
- Dupli-Color Products Co., Inc.: *See*—
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- Du Pont, E. I., de Nemours and Co.: *See*—
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- Copelin, Harry B., and Feldhausen. 2,783,268.
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- Covington, Robert A., Jr., and Waldin. 2,781,894.
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- De Long, William B. 2,805,148.
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- Donaruma, Lorraine G. 2,791,611.
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- Dorn, Stephen S., and Fairbanks. 2,784,149.
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- Ehrich, Felix F. 2,799,594.
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- Elston, Arthur A. 2,795,595.
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- Fritzing, George H. 2,794,488.
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- Gaylor, Norman G. 2,805,963.
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- Gleason, Willard S. 2,810,666.
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- Golding, David R. V. 2,791,608.
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- Grabenstein, Thomas A. 2,784,456.
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- Hair, Zera L. 2,784,058.
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- Haven, Alfred C., Jr. 2,810,737.
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 Thompson, Wallace W. 2,805,124.
 Tordella, John P. 2,791,806.
 Tullock, Charles W. 2,816,131.
 Tyrant, Leo W. 2,776,981.
 Umberger, Jacob Q. 2,803,543.
 Vining, William H. 2,779,752.
 Walker, Joseph F. 2,790,755.
 Weaver, Clay. 2,806,798.
 Weldman, Verne W. 2,782,180.
 Weinmayr, Viktor. 2,777,754.
 Weinmayr, Viktor. 2,777,887.
 Whelen, Myron S. 2,795,586.
 Wilfong, Robert E. 2,804,645.
 Wilkinson, William K. 2,812,312.
 Wilcox, Oswin B. 2,780,558.
 Wilcox, Oswin B. 2,791,490.
 Wilcox, Oswin B. 2,798,831.
 Winter, Charles H., Jr. 2,817,585.
 Winter, Charles H., Jr., and Tully. 2,778,726.
 Wirth, Walter V., and Krahler. 2,786,864.
 Wittbecker, Emerson L. 2,816,879.
 Wolinski, Leon E. 2,801,446.
 Wolinski, Leon E. 2,801,447.
 Wolinski, Leon E. 2,805,960.
 Young, James H. 2,777,749.
 Young, James H. 2,783,272.
 Young, William O., Jr. 2,811,770.
 Zimmerman, Joseph. 2,805,214.
 Zirm, Fred P., Jr. 2,797,986.
 Zwilgmeyer, Frithjof. 2,818,409.
 Zwilgmeyer, Frithjof. 2,818,410.
 Dupuy, Vincent G. B. Rigging for the jib of a sailing boat. 2,795,203, 6-11-57, Cl. 114-102.
 Dupps Co., The: *See*—
 Dupps, John A. 2,818,165.
 Dupps, John A., to The Dupps Co. Screw conveyor. 2,818,165, 12-31-57, Cl. 198-213.
 Dupre, Henry P., and P. Greco, to Burndy Corp. Conductive locking element. 2,783,446, 2-26-57, Cl. 339-276.
 Du Pree, Ernest L., to Schenley Industries, Inc. Universal dispensing closure for bottles. 2,785,839, 3-19-57, Cl. 222-479.
 Durable Products Co.: *See*—
 Lickteig, Albert F. 2,789,851.
 Duralite Mfg. Co., The: *See*—
 Pritchard, Kenneth L. 2,812,973.

- Durall, Hugh. Chain saw sharpener. 2,792,724, 5-21-57, Cl. 76-40.
- Duran, Frank W. Card holder. 2,800,732, 7-30-57, Cl. 40-11.
- Duran, Patrick J., to Raytheon Mfg. Co. Multiple slicing tools. 2,813,377, 11-19-57, Cl. 51-59.
- Durand & Huguenin A. G.: *See*—
Brentano, Willy. 2,776,958.
Brentano, Willy, Grossmann, and Muller. 2,776,957.
Opplinger, Walter. 2,803,630.
Peyer, Eduard. 2,784,198.
Ratti, Roger. 2,794,004.
Schenkel, Hans, and Aeberli. 2,776,983.
- Durant, John D., and K. R. McClelland. Pumping mechanism. 2,808,004, 10-1-57, Cl. 103-42.
- Durant, Leonard G., J. E. Irvine, R. V. Pennington, and A. Surino, to Condi Engineering Corp. Wood chip digestion. 2,803,540, 8-20-57, Cl. 92-7.
- Durant, Leonard G., J. E. Irvine, R. V. Pennington, and A. Surino, to Condi Engineering Corp. Apparatus for wood chip digestion. 2,809,111, 10-8-57, Cl. 92-7.
- Durant, Lyndon A., to General Patent Corp. Step-up mechanisms. 2,779,200, 1-29-57, Cl. 74-128.
- Durant, Lyndon A., to General Patent Corp. Bowling game apparatus. 2,806,701, 9-17-57, Cl. 273-95.
- Durant, Lyndon A., G. G. Ehrler, and F. Murphy, to General Patent Corp. Radar chart projection plotter and film picture projector apparatus. 2,791,152, 5-7-57, Cl. 88-24.
- Durant, Lyndon A., and M. P. Wolverton, to General Patent Corp. Relay unit. 2,800,552, 7-23-57, Cl. 200-98.
- Durant Mfg. Co.: *See*—
Hoffmann, Walter W. 2,781,976.
- Duray, Joseph P., and W. E. Kurz, to Precision Scientific Co. Electric heater. 2,777,043, 1-8-57, Cl. 219-19.
- Durbin, Edward, to Sperry Rand Corp. Electronic switching circuit. 2,817,757, 12-24-57, Cl. 250-27.
- Durbin, Eugene J. Load compensating carburetor. 2,789,801, 4-23-57, Cl. 261-46.
- Durbin, Vernon, to National Pneumatic Co., Inc. Dynamo electric machine. 2,808,483, 10-1-57, Cl. 200-80.
- Durbin, Vernon, to National Pneumatic Co., Inc. Heavy duty treadle. 2,813,163, 11-12-57, Cl. 200-86.
- Durbin, Vernon, to National Pneumatic Co., Inc. Heavy duty treadle. 2,813,164, 11-12-57, Cl. 200-86.
- Durex, S. A.: *See*—
Lang, Heinrich. 2,810,373.
- Durfee, Benjamin M., and A. D. Miller, to International Business Machines Corp. Code translating mechanism. 2,797,667, 7-2-57, Cl. 235-61.6.
- Durham, Edwin: *See*—
Woolley, Charles H., and Durham. 2,778,346.
- Durham, James D., H. Otte, and D. B. Neal. Ticket holder. 2,779,115, 1-29-57, Cl. 40-17.
- Durham, Leland G., to Hughes Aircraft Co. Pulse height measurement system. 2,812,494, 11-5-57, Cl. 324-121.
- Durham, Lois I., to Litterall, Inc. Waste disposal bag. 2,798,650, 7-9-57, Cl. 224-42.46.
- Durieux, Caroline W.: *See*—
Wheeler, Harry E. and N. L., and Durieux. 2,780,732.
- Duriez, Pierre. Carburetors. 2,786,658, 3-26-57, Cl. 261-41.
- Durig, Rudolf, to J. R. Geigy A.-G. Metallisable polyazo dyestuffs. 2,794,798, 6-4-57, Cl. 260-159.
- Dürig, Rudolf, and E. Keller, to J. R. Geigy A. G. Metallisable disazo dyestuffs. 2,780,619, 2-5-57, Cl. 260-153.
- Duriron Co., Inc.: *See*—
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- Durisol A.-G. für Leichtbaustoffe: *See*—
Schnell, August, and Bosshard. 2,805,567.
- Durite Corp.: *See*—
Potts, Harry A. 2,800,987.
- Durkee, James D., to Farm Devices, Inc. Automatic electrically-charged swinging gate switch. 2,796,485, 6-18-57, Cl. 200-61.62.
- Durkin, William M. Spray gun for viscous materials. 2,795,461, 6-11-57, Cl. 299-86.
- Durland, Philip C.: *See*—
Arms, Merton H., and Durland. 2,793,479.
- Durndell, George J. Means for forming grinding wheels. 2,803,238, 8-20-57, Cl. 125-11.
- Duro Co. The: *See*—
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- Duro Metal Products Co.: *See*—
Hess, Theophil A. 2,779,362.
Hess, Theophil A., and Hosford. 2,787,305.
Hess, Theophil A., and McKain. 2,778,053.
Hosford, William F., and Wieser. 2,794,459.
Odum, William H., and Hosford. 2,796,091.
- Dur-O-Lite Pencil Co.: *See*—
Stoeberl, Frank J. 2,803,219.
- Du Rose, Arthur H., to The Harshaw Chemical Co. Electrodeposition of chromium. 2,784,153, 3-5-57, Cl. 204-51.
- Du Rose, Arthur H., to The Harshaw Chemical Co. Alkaline antimony plating. 2,801,959, 8-6-57, Cl. 204-45.
- Du Rose, Arthur H., to The Harshaw Chemical Co. Heterocyclic nitrogen compound containing antimony plating solutions and process. 2,813,065, 11-12-57, Cl. 204-45.
- Du Rose, Arthur H., and J. D. Little, to The Harshaw Chemical Co. Electrodeposition of nickel. 2,782,152, 2-19-57, Cl. 204-49.
- Du Rose, Arthur H., and J. D. Little, to The Harshaw Chemical Co. Nickel electrodeposition. 2,782,153, 2-19-57, Cl. 204-49.
- Du Rose, Arthur H., and J. D. Little, to The Harshaw Chemical Co. Nickel plating. 2,782,154, 2-19-57, Cl. 204-49.
- Du Rose, Arthur H., and J. D. Little, to The Harshaw Chemical Co. Electroplating of nickel. 2,782,155, 2-19-57, Cl. 204-49.
- Duro-Test Corp.: *See*—
Cox, James L. 2,814,748.
- Durox International Societe Anonyme: *See*—
Bergling, Charles G. B. and K. A. L. 2,799,073.
- Durr, Arthur W. Storm window. 2,814,078, 11-26-57, Cl. 20-55.
- Durr, Frank L. Strand store device. 2,802,564, 8-13-57, Cl. 203-280.
- Durrett, William R.: *See*—
Lutz, Charles H., Durrett, Posta, and Susel. 2,817,395.
- Durst A. G.: *See*—
Durst, Julius and G. 2,800,844.
- Durst, Gilbert: *See*—
Durst, Julius and G. 2,800,844.
- Durst, Julius and G., to said J. and G. Durst and to Durst A. G. Automatic control for photographic cameras. 2,800,844, 7-30-57, Cl. 95-60.
- Dusablon, Arthur, and J. P. Carr, to Evans Case Co. Fish lure. 2,808,677, 10-8-57, Cl. 43-42.22.
- Duschinsky, Robert: *See*—
Heidelberger, Charles, and Duschinsky. 2,802,005.
- Dusek, Carl. Canopy construction and the like. 2,790,452, 4-30-57, Cl. 135-1.
- Dusek, Jerry A. Welding guns. 2,817,003, 12-17-57, Cl. 219-130.
- Dusenberry, John Co., Inc.: *See*—
Mastriani, Elvin A. 2,802,528.
- Dusenbury, Theodore P., P. Ellsworth, and C. G. Warren, to Burroughs Corp. Method and apparatus for making shingled strips. 2,816,755, 12-17-57, Cl. 270-58.
- Dusenbury, Theodore P., and C. G. Warren, to Burroughs Corp. Check shingling machine. 2,816,756, 12-17-57, Cl. 270-58.
- Du Shane, Wallace H., to Deere Mfg. Co. Parking lock for brake mechanism. 2,815,104, 12-3-57, Cl. 188-265.
- Dushek, Charles D., and A. R. Montella, to General Electric Co. Liquid container and dispenser. 2,786,606, 3-26-57, Cl. 222-156.
- Dusinski, John M.: *See*—
Buzas, August J., Dusinski, and Schenck. 2,793,124.
- Dussaussoy, Pierre: *See*—
Bleuze, Jacques, and Dussaussoy. 2,808,448.
- Dusseldorfer Eisenhüttengesellschaft: *See*—
Martin, Ludwig. 2,804,270.
- Dussine, Roger R.: *See*—
Raymond, François H., and Dussine. 2,808,205.
- Dussy, Paul: *See*—
Bossard, Werner, and Dussy. 2,813,855.
- Dustin, Ernest G. Tie-out stake. 2,812,743, 11-12-57, Cl. 119-117.
- Dustman, Darius D., to Ford Motor Co. Vehicle air conditioning intake duct. 2,787,206, 4-2-57, Cl. 98-2.
- Dustman, Herman C., to Lindberg Engineering Co. High frequency heat treating apparatus. 2,777,041, 1-8-57, Cl. 219-107.9.
- Dustman, William S., to Mechanical Handling Systems, Inc. Electric control system. 2,806,157, 9-10-57, Cl. 310-94.
- Dutcher, Garner W. Decorator's square and level. 2,803,062, 8-20-57, Cl. 33-89.
- Dutcher, Harris A., and C. E. Alleman, to Phillips Petroleum Co. Process for conversion of reactant materials with the use of heated pebbles. 2,776,249, 1-1-57, Cl. 196-55.
- Dutfield, Albert E., to Rubber Glazing (Patents) Ltd. Panel edge mounting means. 2,815,105, 12-3-57, Cl. 189-78.
- Dutting, Franz: *See*—
Wittmoser, Adalbert, Biefang, and Dutting. 2,800,691.
- Dutton, Herbert J.: *See*—
Scholfield, Charles R., and Dutton. 2,801,255.
- Dutton, John C., to General Electric Co. High voltage bushing ground sleeve. 2,809,228, 10-8-57, Cl. 174-31.
- Dutton, Oscar B.: *See*—
Stellmacher, Donald D., and Dutton. 2,802,942.
- Duty, Dorsey G. Changeable exhibitor. 2,794,280, 6-4-57, Cl. 40-32.
- Duty, John B. Vehicle air conditioner. 2,777,298, 1-15-57, Cl. 62-117.
- Duurkoop, Hendrik J. Magnetic centrifugal switch. 2,786,913, 3-26-57, Cl. 200-80.
- Duval D'Adrian, Vincent L.: *See*—
Law, Preston D., and Duval D'Adrian. 2,794,301.
- Duval, Jean J. E., to Société dite: Appareils & Evaporateurs Kestner. Method of separating water and anhydrous sodium sulfate from coagulating and washing baths employed in viscose manufacturing processes. 2,807,520, 9-24-57, Cl. 23-121.
- Du Val, Ronald W. Apparatus for making waistbands for trousers. 2,812,733, 11-12-57, Cl. 112-2.
- Duvall, Arndt J.: *See*—
Duvall, Thure C. 2,803,188.
- Duvall, Harold A., and C. G. Esler, to Square D Co. Electric switch mechanism. 2,789,169, 4-16-57, Cl. 200-50.
- Duvall, Thure C., deceased; by A. J. Duvall, administrator; to Wood Conversion Co. Production of embossed porous coated porous fiberboard. 2,803,188, 8-20-57, Cl. 101-32.
- Duvall, Walter J. Door locking mechanism. 2,793,896, 5-28-57, Cl. 292-165.

- Duvall, Walter J. Convertible lock for sliding doors. 2,802,685, 8-13-57, Cl. 292-337.
- Du Varry, Panayiotis B. Gun sight. 2,815,574, 12-10-57, Cl. 33-47.
- Dux, Henry: *See—*
Harty, James J., Hansen, and Dux. 2,806,911.
- Duyn, Nick J. Key case. 2,778,217, 1-22-57, Cl. 70-456.
- Duz, Angel. Liquefied gas refrigerator unit. 2,791,104, 5-7-57, Cl. 62-92.
- Dvorak, Howard A.: *See—*
Clough, Robert C., Dvorak, and Stuhlfauth. 2,801,328.
- Dvorak, Jarsley. Combination safety steering column and electrical system control for automotive vehicles. 2,800,190, 7-23-57, Cl. 180-82.
- Dvorkovitz, Vladimir: *See—*
Ellis, John G., and Dvorkovitz. 2,815,311.
- Dvorsky, Frank. Mail sorting mechanism. 2,795,341, 6-11-57, Cl. 214-11.
- Dwyer, James J.: *See—*
Speed, William C., and Dwyer. 2,797,170.
- Dwyer, Richard M., and W. H. Pleines. Meat grinders. 2,792,042, 5-14-57, Cl. 146-189.
- Dwyer, Russell. Self-aligning rod end bearing. 2,795,465, 6-11-57, Cl. 305-72.
- Dwyer, Thiel E., to Tholand, Inc. Recovery of lithium from spodumene ores. 2,801,153, 7-30-57, Cl. 23-27.
- Dwyer, Walter J., to Sanders Associates, Inc. Method of manufacturing electrical resistors. 2,781,277, 2-12-57, Cl. 117-4.
- Dyall, William T.: *See—*
Fadner, Glenn R., Jr., Dyall, and Harsh. 2,815,468.
- Dybvig, Edwin S., to General Motors Corp. Refrigeration apparatus. 2,817,124, 12-24-57, Cl. 20-4.
- Dycewicz, Edward H.: *See—*
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- Dyco Color Corp.: *See—*
Long, John R. 2,814,565.
- Dye, Dean C., to Aero Equipment Corp. Capacitance sensing element. 2,805,371, 9-3-57, Cl. 317-246.
- Dye, Edward R., and N. E. Shoemaker, to Cornell Aeronautical Laboratory, Inc. Chest crash protector for vehicle steering wheels. 2,784,006, 3-5-57, Cl. 280-150.
- Dye, Edward R., and M. Kamrass, to Cornell Aeronautical Laboratory, Inc. Self-equalizing, self-aligning body support. 2,788,531, 4-16-57, Cl. 5-191.
- Dye, Edward R., H. W. Naulty, and C. F. Maylott, to Cornell Aeronautical Laboratory, Inc. Soldering gun. 2,789,198, 4-16-57, Cl. 219-27.
- Dye, Edward R., and H. W. Naulty, to Cornell Aeronautical Laboratory, Inc. Hydraulic power steering with manual steering interlock in case of power failure. 2,796,945, 6-25-57, Cl. 180-79.2.
- Dye, Edward R., and W. W. Bird, to Di Stasio and Van Buren. Building construction. 2,817,423, 12-24-57, Cl. 189-36.
- Dye, Rebecca A.: *See—*
Stevens, Norma J. D., and Dye. 2,789,289.
- Dye, Robert W.: *See—*
Felts, Basil B., and Dye. 2,815,676.
Felts, Basil B., and Dye. 2,815,677.
- Dye, William T., Jr.: *See—*
Krase, Herbert J., and Dye. 2,786,075.
- Dye, William T., Jr., to Monsanto Chemical Co. Herbicide. 2,785,967, 3-19-57, Cl. 71-2.3.
- Dyer, Colver P., to Monsanto Chemical Co. Production of melamine. 2,776,285, 1-1-57, Cl. 260-249.7.
- Dyer, James A.: *See—*
Mangold, George B., Dyer, and Hart. 2,786,531.
Mangold, George B., Dyer, and Hart. 2,793,957.
- Dyer, John B., to General Motors Corp. Windshield wiper actuating mechanism. 2,790,333, 4-30-57, Cl. 74-600.
- Dyer, John B., and C. T. Wallis, to General Motors Corp. Windshield cleaning apparatus. 2,785,430, 3-19-57, Cl. 15-253.
- Dyer, Lloyd W., and W. F. Born, to Westinghouse Electric Corp. Plug-in bus duct structure. 2,780,788, 2-5-57, Cl. 339-22.
- Dyer, Lloyd W., and C. L. Jones, to Westinghouse Electric Corp. Terminal construction for circuit breaker. 2,795,766, 6-11-57, Cl. 339-64.
- Dyer, Lloyd W., and F. L. Gelzheiser, to Westinghouse Electric Corp. Circuit breaker. 2,809,255, 10-8-57, Cl. 200-116.
- Dyer, Otto M., Jr. Breath tester. 2,780,220, 2-5-57, Cl. 128-2.
- Dyer, Otto M., Jr. Shoe shine device. 2,790,980, 5-7-57, Cl. 15-97.
- Dyett, James G., and B. A. Doty, to Hard Mfg. Co. Side guard for beds. 2,811,726, 11-5-57, Cl. 5-331.
- Dyk, Karl, and M. B. Widess, to Pan American Petroleum Corp. Determining optimum conditions for seismic surveying. 2,810,444, 10-22-57, Cl. 181-5.
- Dyke, Edwin: *See—*
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Magnuski, Henry, and Dyke. 2,813,198.
- Dyke, Edwin, to Motorola, Inc. Diversity receiving system. 2,786,133, 3-19-57, Cl. 250-20.
- Dyke, Edwin, to Motorola, Inc. Snow detector. 2,787,695, 4-2-57, Cl. 219-20.
- Dyke, Edwin, and H. Magnuski, to Motorola, Inc. Modulation meter. 2,782,300, 2-19-57, Cl. 250-15.
- Dyke, Walter P., to the United States of America as represented by the Secretary of the Navy. Filament voltage terminal for pulse transformer. 2,782,381, 2-19-57, Cl. 333-79.
- Dyke, Walter P., and J. K. Trolan, to Research Corp. Fabrication of metal articles. 2,817,002, 12-17-57, Cl. 219-121.
- Dykehouse, Robert H. Pre-plasticizing unit for use with a plastic molding machine. 2,790,203, 4-30-57, Cl. 18-30.
- Dyken, Charles P. Cutting and feeding devices. 2,792,890, 5-21-57, Cl. 164-73.
- Dykes, Lewis W.: *See—*
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- Dykes, Robert L., 25% to S. H. Parrott. Gear shifting mechanism. 2,785,779, 3-19-57, Cl. 192-073.
- Dykrex Corp.: *See—*
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- Dym, Joseph B. Method of molding bodies of fibrous resinated material. 2,778,765, 1-22-57, Cl. 154-110.
- Dymond, Joseph J., to Sylvania Electric Products Inc. Electric circuit element. 2,796,564, 6-18-57, Cl. 317-237.
- Dymond, Joseph J., to Sylvania Electric Products Inc. Alkaline titanate rectifiers. 2,806,189, 9-10-57, Cl. 317-237.
- Dymora, Frank J.: *See—*
Carroll, Elmer J., and Dymora. 2,802,323.
- Dyna-Labs, Inc.: *See—*
Shaper, Harry B. 2,780,681.
- Dynamic Electronics-New York, Inc.: *See—*
Mehlman, Samuel J. 2,784,375.
- Dynamit-Actien-Gesellschaft vormals Alfred Nobel & Co.: *See—*
Fuchs, Otto, and Elsnar. 2,795,570.
Wienand, Michael. 2,796,797.
- Dyrkacz, Wasil W., E. E. Reynolds, and R. R. MacFarlane, to Allegheny Ludlum Steel Corp. High temperature alloys. 2,814,563, 11-26-57, Cl. 75-126.
- Dyroff, George V., P. Skiba, Jr., and A. Y. Mottlau, to Esso Research and Engineering Co. Apparatus for X-ray analysis of liquid materials. 2,791,698, 5-7-57, Cl. 250-43.5.
- Dyson, Ernest F., to The Bristol Co. Relay valve. 2,780,242, 2-5-57, Cl. 137-620.
- Dyson, Ernest F., to The Bristol Co. Disposable pilot valve. 2,803,258, 8-26-57, Cl. 137-82.
- Dyson, Ernest F., to The Bristol Co. Adjustable proportionating spring assembly and control system. 2,816,562, 12-17-57, Cl. 137-85.
- Dyson, Thomas N., to John E. Mitchell Co. Cotton cleaning machinery. 2,776,454, 1-8-57, Cl. 19-1.
- Dzuricza, George. Combination auto wheel block and door mat. 2,813,600, 11-19-57, Cl. 138-32.
- Dzaak, Heinz A. Device for simultaneous registration of indication of different units of measure. 2,780,201, 2-5-57, Cl. 116-129.
- Dzialis, Daniel J.: *See—*
Dzialis, Edward G., Z. E. and D. J. 2,789,384.
- Dzialis, Edward G., Z. E. and D. J. Fish lure for casting and trolling. 2,789,384, 4-23-57, Cl. 43-42.06.
- Dzialis, Zygmunt E.: *See—*
Dzialis, Edward G., Z. E. and D. J. 2,789,384.
- Dzuba, Leonard F. Fishing accessory. 2,788,602, 4-16-57, Cl. 43-17.
- Dzus, William. Rotatable fastener having circular toothed tool receiving groove. 2,813,450, 11-19-57, Cl. 85-45.
- E. B. C. Ltd.: *See—*
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- E. M. B. Co. Ltd.: *See—*
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- E. M. P. Electric Ltd.: *See—*
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- E Z Paints Corp.: *See—*
Pharris, John A., and Mlachnik. 2,817,868.
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- Eaby, LeRoy, to Armstrong Cork Co. Calender roll. 2,793,006, 5-21-57, Cl. 257-95.
- Eadie, Arthur F., to California Research Corp. Well cementing apparatus. 2,811,208, 10-29-57, Cl. 166-26.
- Eads, Charles L., to A. R. Adams. Lock mechanism. 2,789,832, 4-23-57, Cl. 292-110.
- Eager, Herbert H., and E. E. Heinzelman, to Armstrong Cork Co. Dispensing device. 2,803,859, 10-8-57, Cl. 141-144.
- Eagle, Edward, and J. W. Bremer, Jr., to Swift & Co. Detoxification of cottonseed material. 2,797,997, 7-2-57, Cl. 99-2.
- Eagle, John H., to Eastman Kodak Co. Combination lens attachment. 2,794,360, 6-4-57, Cl. 88-1.
- Eagle Lock Co., The: *See—*
Biblin, Daniel L. 2,804,765.
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- Eagle Machinery Co., Ltd.: *See—*
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- Eagle Mfg. Co.: *See—*
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Richmond, Roy H., Sr. 2,815,892.
- Eagle-Picher Co., The: *See—*
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Meyers, George L. 2,816,853.

- Eagle Signal Corp.: *See*—
Hendricks, George D., and Rambo. 2,798,917.
Kozikowski, Felix. 2,792,468.
Pearson, Frank A. 2,784,276.
Pearson, Frank A., Schwieters, and Rambo. 2,815,410.
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Yerger, Elwood L. 2,803,092.
- Eaglesfield, Charles C.: *See*—
Rogers, Douglas C., and Eaglesfield. 2,797,360.
- Eagleson, David A. Adjustable awning-supporting frame structure. 2,780,847, 2-12-57, Cl. 20—57.
- Eames, Charles, to Herman Miller Furniture Co. Multiple seating assembly. 2,812,800, 11-12-57, Cl. 155—130.
- Eames, James O., to The Michaels Art Bronze Co., Inc. Coin collection apparatus. 2,813,674, 11-19-57, Cl. 232—16.
- Eames, Walter R., Jr., to Eaton Mfg. Co. Rotor pump. 2,792,788, 5-21-57, Cl. 103—126.
- Eames, William F., to Westinghouse Electric Corp. Elevator systems. 2,776,732, 1-8-57, Cl. 187—29.
- Eames, William F., to Westinghouse Electric Corp. Elevator systems. 2,795,293, 6-11-57, Cl. 187—29.
- Eames, William F., to Westinghouse Electric Corp. Elevator systems. 2,795,297, 6-11-57, Cl. 187—29.
- Eames, William F., to Westinghouse Electric Corp. Elevator systems. 2,806,553, 9-17-57, Cl. 187—29.
- Eannarino, George, to Sarkes Tarzian, Inc. Plug in rectifier assembly. 2,783,417, 2-26-57, Cl. 317—234.
- Eannarino, George, and E. Parsons, to Sarkes Tarzian, Inc. Selenium rectifier. 2,794,943, 6-4-57, Cl. 317—241.
- Eargle, Verde H., to General Electric Co. Control for cooking appliances. 2,801,319, 7-30-57, Cl. 219—37.
- Earing, Mason H.: *See*—
Ash, Arthur B., and Earing. 2,791,551.
- Earl, Harley J., to General Motors Corp. Tilttable seat-back actuated window operating means for two-door vehicles. 2,795,455, 6-11-57, Cl. 296—44.
- Earl, Harry W. Electrical connector. 2,780,792, 2-5-57, Cl. 339—256.
- Earle, Edwin L., to International Telephone and Telegraph Corp. Armature keeper for an electromagnetic relay. 2,811,681, 10-29-57, Cl. 317—198.
- Earle, Guyon L. C. "L" refrigerator assembly. 2,798,367, 7-9-57, Cl. 62—117.3.
- Early, Paul F.: *See*—
Kimm, Ewald J., and Early. 2,785,861.
- Early, William F., to Armstrong Cork Co. Scribing tool. 2,786,274, 3-26-57, Cl. 33—41.
- Earnhardt, Cornelius F. and J. E., to Earnhardt Electric Service, Inc. Special clutch and motor for looms. 2,797,785, 7-2-57, Cl. 192—68.
- Earnhardt Electric Service, Inc.: *See*—
Earnhardt, Cornelius F. and J. E. 2,797,785.
- Earnhardt, James E.: *See*—
Earnhardt, Cornelius F. and J. E. 2,797,785.
- Earnhardt, Ray A.: *See*—
Benfield, John K., Jr., and Earnhardt. 2,795,853.
- Earnshaw, John S. Account and record analysing system. 2,817,455, 12-24-57, Cl. 216—1.
- Earnshaw, Spencer A. Machine for applying material to walls and other objects. 2,809,865, 10-15-57, Cl. 299—62.
- Earp, Charles W., to International Standard Electric Corp. Electric code modulation systems of communication. 2,783,305, 2-26-57, Cl. 179—15.
- Earp, Charles W., to International Standard Electric Corp. Keyed frequency modulation carrier wave systems. 2,784,255, 3-5-57, Cl. 179—15.
- Earp, Charles W., to International Standard Electric Corp. Receivers for pulse communication systems. 2,784,257, 3-5-57, Cl. 179—15.6.
- Earp, Charles W., to International Standard Electric Corp. Pulse communication systems. 2,786,100, 3-19-57, Cl. 179—15.
- Earp, Charles W., to International Standard Electric Corp. Receiving arrangements for electric communication systems. 2,787,787, 4-2-57, Cl. 343—106.
- Eash, Edwin R., to C. G. Conn Ltd. Water key. 2,795,162, 6-11-57, Cl. 84—397.
- Eash, George H.: *See*—
Rowe, Horace N., and Eash. 2,798,121.
- Eash, George H., to G. H. Poulsen, deceased; The Toledo Trust Co. and C. I. Poulsen, executors. Static eliminator for endless magnetic tape cartridges. 2,778,635, 1-22-57, Cl. 271—2.18.
- Eash, George H., to G. H. Poulsen, deceased; The Toledo Trust Co. and C. I. Poulsen, executors. Endless tape cartridge. 2,778,636, 1-22-57, Cl. 271—2.18.
- Eash, George H., to G. H. Poulsen, deceased; The Toledo Trust Co. and C. I. Poulsen, executors. Endless magnetic tape cartridge. 2,778,637, 1-22-57, Cl. 271—2.18.
- Eash, George H., to The Toledo Trust Co. and C. I. Poulsen, co-executors of the estate of G. H. Poulsen, deceased. Endless magnetic tape cartridge and recording play-back instrument mounting same. 2,778,880, 1-22-57, Cl. 179—100.2.
- Eash, John T.: *See*—
Schelleng, Robert D., and Eash. 2,809,888.
- Easley, Jack H., and E. M. Smith, to General Electric Co. Electric current distribution system. 2,776,393, 1-1-57, Cl. 317—25.
- East, Edward, and E. Green, to Lever Brothers Co. Extruding protein solutions. 2,809,090, 10-8-57, Cl. 18—54.
- East, James V. T., to Fawick Flexi-Grip Co. Golf club weighting means. 2,782,035, 2-19-57, Cl. 273—81.
- East, Robert C., to Allied Chemical and Dye Corp. Process for producing chromyl chloride. 2,793,937, 5-28-57, Cl. 23—203.
- Eastburg, Clifford L., to The Timken Roller Bearing Co. Sealed joint. 2,781,942, 2-19-57, Cl. 220—46.
- Easter, Ross A.: *See*—
Fienup, William F. J., Putnam, and Easter. 2,793,126.
Geist, William L., Fienup, Putnam, Easter, and Zoeller. 2,793,127.
- Easter, William M., Jr.: *See*—
Carpenter, Marion S., Easter, and Wood. 2,800,511.
Carpenter, Marion S., Easter, and Wood. 2,815,381.
Carpenter, Marion S., Easter, and Wood. 2,815,382.
- Eastern Air Devices, Inc.: *See*—
Naul, James M. 2,788,458.
Naul, James M. 2,807,735.
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- Eastern Cabinet Co., Inc.: *See*—
Nordsieck, William. 2,803,511.
- Eastern Industries, Inc.: *See*—
Midlock, Bernard J. 2,797,324.
- Eastern Malleable Iron Co., The: *See*—
Lambert, Clifford H., and Davies. 2,789,234.
- Eastern Metals Research Co., Inc.: *See*—
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- Eastern Rotorcraft Corp.: *See*—
Arnold, Garland. 2,809,860.
Campbell, Harris S. 2,809,701.
Huber, John R. 2,777,668.
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- Eastern Tool & Mfg. Co.: *See*—
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- Eastern Venetian Blind Co., The: *See*—
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Rosenbaum, Harry S. 2,809,409.
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- Eastern Wood Products Co.: *See*—
Herz, Julius J. and R. H. 2,783,960.
- Eastes, John W., and T. F. Cooke, to American Cyanamid Co. Hydrophobic, organophilic pigments and process of producing the same. 2,789,919, 4-23-57, Cl. 106—308.
- Eastis, Truman D. Power driven brush having a swingable nozzle. 2,801,431, 8-6-57, Cl. 15—29.
- Eastling, Harvey V.: *See*—
Carlton, Kirkendall, and Eastling. 2,804,209.
- Eastman, du Bois, to The Texas Co. Production of ammonia synthesis feed gas. 2,795,558, 6-11-57, Cl. 252—374.
- Eastman, du Bois, and L. P. Gaucher, to The Texas Co. Manufacture of synthesis gas. 2,789,094, 4-16-57, Cl. 252—376.
- Eastman, du Bois, and W. L. Slater, Jr., to The Texas Co. Method of shutting down the gas generator. 2,818,326, 12-31-57, Cl. 48—196.
- Eastman Kodak Co.: *See*—
Akin, George A., and Young. 2,784,214.
Allen, Charles F. H., and Kennard. 2,776,211.
Allen, Charles F. H., and Laakso. 2,816,125.
Barnes, Edgar S. 2,807,981.
Baxendale, Ralph W., Rasch, and Crabtree. 2,816,026.
Bell, Alan. 2,805,170.
Bell, Alan, Kibler, and Strickland. 2,794,826.
Bell, Alan, and Lappin. 2,787,551.
Bell, Alan, and Lappin. 2,798,083.
Bell, Alan, and Lappin. 2,805,135.
Bell, Alan, and Lappin. 2,808,416.
Beuckman, Frank O., and Tucker. 2,801,213.
Bornemann, William. 2,797,753.
Bornemann, William. 2,797,754.
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Brimer, Marshall R. 2,801,268.
Brinsmaid, Doris S., Keenan, Koch, and Parsons. 2,784,115.
Brokaw, George Y. 2,808,419.
Brokaw, George Y. 2,808,421.
Brooker, Leslie G. S., and Heseltine. 2,776,280.
Brooker, Leslie G. S., and Van Lare. 2,778,823.
Brooker, Leslie G. S., and Van Lare. 2,786,054.
Brooker, Leslie G. S., and White. Re. 24,292.
Caldwell, John R. 2,799,666.
Caldwell, John R. 2,801,231.
Caldwell, John R. 2,808,385.
Caldwell, John R. 2,808,390.
Caldwell, John R., and Hill. 2,805,215.
Caldwell, John R., and Jackson. 2,790,825.
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Carroll, Burt H. 2,784,090.
Carroll, Burt H., and Beach. 2,784,091.
Cawley, John D. 2,816,117.
Chandler, Jasper S. 2,780,135.
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Clemens, Milton L. 2,776,321.
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Coney, Charles H., and Ball. 2,787,559.
Coover, Harry W. 2,816,093.
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Coover, Harry W., Jr. 2,794,787.
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Coover, Harry W., Jr., and Dickey. 2,776,271.

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 Coover, Harry W., Jr., and Dickey. 2,811,543.
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 Coover, Harry W., Jr., and Shearer. 2,790,823.
 Coover, Harry W., Jr., and Shearer. 2,794,788.
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 Crawford, Robert T., and Stevens. 2,794,239.
 Crawford, Robert T., and Stevens. 2,794,480.
 De Paolis, Paul F. 2,787,554.
 Dickey, Joseph B., and Coover. 2,780,616.
 Dickey, Joseph B., and Joyner. 2,808,440.
 Dickey, Joseph B., and Towne. 2,777,863.
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 Eagle, John H. 2,794,360.
 Edwards, Evan A., and Ulmschneider. 2,790,204.
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 Elam, Edward U., and Hasek. 2,794,806.
 Elam, Edward U., and Hasek. 2,798,080.
 Farrell, Thomas H., Kugler, and Mayne. 2,816,027.
 Fessenden, Leon D. 2,794,628.
 Fierke, Scheuring S., and Chechak. 2,801,171.
 Fletcher, George L. 2,811,561.
 Foster, John L. 2,790,728.
 Fowler, William F., Jr., and Cathcart. 2,794,742.
 Fowler, William F., Jr., and Hellmann. 2,798,063.
 Gates, John W., Jr., Dann, Illingsworth, and Lovett. 2,787,545.
 Gertin, Leo A. 2,784,364.
 Godowsky, Leopold, and Duane. 2,787,544.
 Griggs, William H. 2,784,088.
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 Hagemeyer, Hugh J., Jr. 2,811,514.
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 Hagemeyer, Hugh J., Jr., Thompson, and Hargis. 2,786,867.
 Hanley, Thomas G. 2,780,560.
 Harter, Paul G., and Steisslinger. 2,780,348.
 Harvey, Douglas C., and Craig. 2,780,152.
 Hasek, Robert H. 2,777,873.
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 Head, William I. 2,807,864.
 Heinrich, Wolfgang A. 2,784,155.
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 Hiatt, Gordon D., Blanchard, and Tanghe. 2,801,239.
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 Hilborn, Edwin H. 2,790,727.
 Hill, Hubert M. 2,808,395.
 Hill, Hubert M. 2,808,396.
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 Hintz, Harvey P., Hayden, and Offensend. 2,800,832.
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 Horton, William H., and Estes. 2,787,191.
 Hoyt, Fred W., and Kendall. 2,776,219.
 Humphlett, Wilbert J. 2,780,632.
 Humphlett, Wilbert J. 2,784,225.
 Humphlett, Wilbert J. 2,808,420.
 Hutchison, Miller R., Jr. 2,810,177.
 Jeffreys, Roy A. 2,808,412.
 Jones, Jean E. 2,801,172.
 Jones, Jean E. 2,816,028.
 Joyner, Frederick B. 2,784,215.
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 Keenan, William J., Scharf, and Parsons. 2,784,639.
 Kerney, Myron L. 2,808,148.
 Klein, William C. 2,807,980.
 Koonz, John C. 2,808,518.
 Krell, Max W., and Johnson. 2,798,090.
 Lake, Orson W., and Amering. 2,794,888.
 Lappin, Gerald R., and Brimer. 2,776,313.
 Lappin, Gerald R., and Tholstrup. 2,801,254.
 Lappin, Gerald R., and Thompson. 2,811,429.
 Larive, Henri, and Pierre. 2,798,066.
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 Leubner, Gerhard W., Williams, and Unruh. 2,811,510.
 Luboshez, Benjamin E. 2,780,140.
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 Malm, Carl J., and Blanchard. 2,801,238.
 Malm, Carl J., and Blanchard. 2,801,999.
 Malm, Carl J., and Blanchard. 2,816,104.
 Malm, Carl J., and Blanchard. 2,816,107.
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 Malm, Carl J., Tanghe, and Blanchard. 2,790,794.
 Malm, Carl J., Tanghe, and Blanchard. 2,816,105.
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 Malone, Harold L., and Vroom. 2,775,933.
 Maurer, Paul B. 2,780,130.
 Maurer, Richard E. 2,805,157.
 McLeod, John H. 2,775,918.
 McLeod, John H. 2,807,982.
 Meyer, Lester W. A., and Broyles. 2,811,460.
 Meyer, Lester W. A., and Broyles. 2,811,461.
 Meyers, John J. 2,808,122.
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 Nadeau, Gale F. 2,812,279.
 Nadeau, Gale F., and Thompson. 2,801,191.
 Ott, Howard F., and Poling. 2,780,574.
 Painter, Edwin S. 2,784,065.
 Painter, Edwin S., and Haller. 2,776,192.
 Pomeroy, Frederick A., and Walther. 2,797,804.
 Reynolds, Delbert D., and Allen. 2,811,486.
 Reynolds, Delbert D., and Dunham. 2,789,966.
 Reynolds, Delbert D., and Dunham. 2,789,969.
 Reynolds, Delbert D., and Dunham. 2,789,971.
 Reynolds, Delbert D., and Dunham. 2,789,972.
 Reynolds, Delbert D., and Laakso. 2,784,163.
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 Reynolds, Delbert D., and Van Den Berghe. 2,789,964.
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 Reynolds, Delbert D., and Van Den Berghe. 2,789,967.
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 Robertson, Earl M., and Unruh. 2,811,443.
 Rugg, Gordon S. 2,783,839.
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 Sawdey, George W. 2,798,067.
 Sawdey, George W. 2,808,330.
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 Scharf, Philip T., Keenan, and Fay. 2,815,695.
 Schrader, Robert J. 2,790,838.
 Schulken, Roger M., Jr., and Moore. 2,816,088.
 Schulken, Roger M., Jr., and Tamblin. 2,811,505.
 Shearer, Newton H., Jr. 2,815,761.
 Shearer, Newton H., Jr. 2,816,083.
 Shearer, Newton H., Jr., and Coover. 2,776,232.
 Shearer, Newton H., Jr., and Coover. 2,790,744.
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 Smith, Donald A., and Fowler. 2,811,494.
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 Smith, James L. 2,805,228.
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 Staehle, Henry C. 2,776,236.
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 Straley, James M., and Giles. 2,776,310.
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 Tholstrup, Clarence E. 2,808,417.
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 Thompson, Russell G. 2,776,337.
 Toney, George P. 2,780,228.
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 Unruh, Cornelius C., Smith, and Priest. 2,808,331.
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 Weigel, Edward M. 2,798,004.
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 Wenhe, Stephen J., and Murray. 2,783,710.
 White, Walter R., and Nadeau. 2,775,954.
 White, William M., and Fox. 2,780,153.
 Whitmore, Keith E. 2,808,329.
 Williams, Jack L. R. 2,780,649.
 Williams, Robert F., Jr. 2,805,171.
 Wittel, Otto. 2,780,133.
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Eastman Machine Co. : *See*—
 Clark, Frederick G. 2,776,483.
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Eastman Pacific Co. : *See*—
 Dudley, Edward C. 2,779,296.

Easton, George P. Mobile ladders and platforms. 2,798,652, 7-9-57, Cl. 228-5.

Easton, John A., to James Howden & Co., Ltd. Centrifugal dust separators. 2,799,355, 7-16-57, Cl. 183-37.

Easton Metal Powder Co. Inc. : *See*—
 Michalke, Max. 2,784,073.

Easton, William H. : *See*—
 Warner, Fred J., Easton, and Davenport. 2,794,321.

Eastwood, Sylvander C., to Socony Mobil Oil Co., Inc. Hydrogen production. 2,783,133, 2-26-57, Cl. 23-212.

Eastwood, Sylvander C., to Socony Mobil Oil Co., Inc. Method and apparatus for hydrocarbon conversion. 2,783,186, 2-26-57, Cl. 196-52.

Eastwood, Sylvander C., to Socony Mobil Oil Co., Inc. Method of using a single reactor for a plurality of conversions. 2,791,544, 5-7-57, Cl. 196-52.

Eastwood, Sylvander C., to Socony Mobil Oil Co., Inc. Process for hydrocarbon conversion. 2,798,029, 7-2-57, Cl. 196-52.

Easy Washing Machine Co., Ltd., The : *See*—
 Bruckman, William C. 2,776,557.

- Eatinger, Cloyde B., $\frac{1}{2}$ to C. M. McCarthy. Power actuated locking mechanism for vehicle door lock striker plate assemblies. 2,799,526, 7-16-57, Cl. 292-341.16.
- Eaton, Bourne G., and W. W. Boynton, to The Physics Corp. Drill tool telemetering systems. 2,810,546, 10-22-57, Cl. 255-1.
- Eaton, De Witt D., and G. S. Paschal. Sheet material for plant culture. 2,786,306, 3-26-57, Cl. 47-37.
- Eaton, Edward N. Lip and mouth adjuster. 2,779,083, 1-29-57, Cl. 27-21.
- Eaton, Ernest E.: *See*—
Dence, Donald S., and Eaton. 2,811,048.
- Eaton, Hugh M., Jr., to Gregory Industries, Inc. Welding stud assembly. 2,788,434, 4-9-57, Cl. 219-99.
- Eaton Mfg. Co.: *See*—
Dahmer, Roy S. 2,803,047.
Deska, Theodore J. 2,813,488.
Eames, Walter R., Jr. 2,792,788.
Faulhaber, James W., Fisher, Simons, and Murray. 2,804,756.
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- Eaton Metal Products Co.: *See*—
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- Eaton, Milton, to The Shawinigan Water and Power Co. Grid shielded electrode for electric boilers. 2,783,356, 2-26-57, Cl. 219-40.
- Eaton, Richard T. Fish pole rest for night fishing. 2,785,494, 3-19-57, Cl. 43-17.
- Eaton, Roland D., to Allen B. Du Mont Laboratories, Inc. Apparatus for making photographic negatives. 2,801,566, 8-6-57, Cl. 88-24.
- Eaton, Samuel E.: *See*—
Gordon, William E., and Eaton. 2,813,042.
- Eaton, Stanley L., to The Procter & Gamble Co. Treatment of soap particles. 2,776,943, 1-8-57, Cl. 252-109.
- Eaton, Temple O., to I-T-E Circuit Breaker Co. Circuit interruptions with non-linear resistance. 2,813,953, 11-19-57, Cl. 200-147.
- Eaton, Wayne H. Pneumatic drill jack. 2,776,653, 1-8-57, Cl. 125-33.
- Eaz-Lift Spring Corp.: *See*—
Mathisen, Ray C. 2,817,541.
- Ebauches, S. A.: *See*—
Beyner, André. 2,817,207.
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- Ebbeler, John R., to Avco Mfg. Corp. Blanking circuit for television receiver. 2,789,251, 4-16-57, Cl. 315-20.
- Ebbeler, John R., and E. C. Wallbrech, to Avco Mfg. Corp. Television receiver mechanical subassembly. 2,800,620, 7-23-57, Cl. 321-8.
- Ebbert Engineering Co.: *See*—
Ebbert, Robert, and Van Deberg. 2,790,211.
- Ebbert, Robert, and W. H. Van Deberg, to Ebbert Engineering Co. Window construction. 2,790,211, 4-30-57, Cl. 20-42.
- Ebberts, Avery R. Device for dispensing and applying predetermined quantities of a flowable material. 2,802,604, 8-13-57, Cl. 222-207.
- Ebbs, John W., and H. C. Powers; said Ebbs assor. to said Powers. Apparatus for testing rotary electric devices. 2,811,692, 10-29-57, Cl. 324-158.
- Ebco Mfg. Co., The: *See*—
Fischer, Harry C. 2,784,879.
Fischer, Harry C., and Benua. 2,778,202.
- Ebel, Friedrich, R. Randerbrock, and W. Rupp, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Quinazoline-amino-anthraquinone dyestuffs. 2,792,397, 5-14-57, Cl. 260-256.5.
- Ebel, Lawrence C., and R. G. D'Ascoli, to Belden Mfg. Co. Cables for high frequency use. 2,782,251, 2-19-57, Cl. 174-113.
- Ebel, Robert H.: *See*—
Cherlow, Herman, and Ebel. 2,776,297.
Kinstler, Robert C., and Ebel. 2,791,612.
- Eben, Franz, and W. Hofmann, to Schloemann Aktiengesellschaft. Vertical hydraulic press. 2,785,594, 3-19-57, Cl. 78-42.
- Eben, George E. Combined folding seat and cane. 2,793,680, 5-28-57, Cl. 155-135.
- Eber, Jack. Lightweight luggage. 2,782,889, 2-26-57, Cl. 190-28.
- Eber, Mortimer: *See*—
Gleim, William E., and Eber. 2,787,149.
- Eber, Mortimer, to Westinghouse Electric Corp. Manufacture of small lamps. 2,794,699, 6-4-57, Cl. 316-19.
- Eberhard, Albert, to Daimler-Benz Aktiengesellschaft. Multi-throw crankshaft. 2,817,980, 12-31-57, Cl. 74-603.
- Eberhard, Elmer T., and E. Eklund, to Kelman Electric and Mfg. Co. Circuit breaker. 2,813,177, 11-12-57, Cl. 200-150.
- Eberhard, Everett, to Motorola, Inc. Transistor oscillator. 2,811,643, 10-29-57, Cl. 250-36.
- Eberhardt, Heinz: *See*—
Sifrin, Andreas, Eberhardt, and Hennecke. 2,778,327.
- Eberhardt, John E., to Bethlehem Steel Co. Treatment of iron bearing material. 2,777,555, 1-15-57, Cl. 23-200.
- Eberhart, Dale R., and N. M. Mackenzie, to American Cyanamid Co. Process for diazotization and coupling. 2,812,321, 11-5-57, Cl. 260-141.
- Eberl, James J.: *See*—
George, William, and Eberl. 2,817,437.
- Eberle, Allan R.: *See*—
Rodden, Clement J., and Eberle. 2,789,884.
- Eberle, Allan R., to the United States of America as represented by the United States Atomic Energy Commission. Conversion of dimethyl ether boron trifluoride complex to potassium fluoborate. 2,796,323, 6-18-57, Cl. 23-59.
- Eberle, Edward E., to Sperry Rand Corp. Wattmeter self-balancing bridge apparatus. 2,799,826, 7-16-57, Cl. 324-95.
- Eberle, Fritz T., to The Babcock & Wilcox Co. Forgeable high strength austenitic alloy with copper and columbium-tantalum additions. 2,797,992, 7-2-57, Cl. 75-125.
- Eberline, William C. Fuel control means for internal combustion engines. 2,813,540, 11-19-57, Cl. 137-479.
- Eberly, Arthur E.: *See*—
Eberly, Ernest E. and A. E. 2,802,233.
- Eberly, Ernest E. and A. E. Mop wringer. 2,802,233, 8-13-57, Cl. 15-261.
- Eberly, Harry C., to Sperry Rand Corp. Discharge spout locator. 2,789,705, 4-23-57, Cl. 214-42.
- Eberly, Willis D. Collapsible trailer. 2,808,287, 10-1-57, Cl. 296-23.
- Ebers, Jewell J., and J. J. Kleimack, to Bell Telephone Laboratories, Inc. Semiconductor devices. 2,796,563, 6-18-57, Cl. 317-235.
- Ebersberger, Josef: *See*—
Stroh, Rudolf, and Ebersberger. 2,803,397.
- Ebersold, Robert C., to The Warner & Swasey Co. Machine tool transmission and control therefor. 2,781,879, 2-19-57, Cl. 192-4.
- Ebersold, William, to James Lees and Sons Co. Tufted fabrics with taped edges and method of making the same. 2,784,414, 3-12-57, Cl. 2-278.
- Ebersold, William, to James Lees and Sons Co. Machine and method for making tufted rugs, carpets and the like. 2,784,688, 3-12-57, Cl. 112-79.
- Ebersole, Benjamin S. Water fountain regulator. 2,796,078, 6-18-57, Cl. 137-454.
- Ebert & Co.: *See*—
Ebert, Henry F. 2,796,747.
- Ebert, Dwight L.: *See*—
Olson, George E., and Ebert. 2,784,846.
- Ebert, Edward A. Air tempering device. 2,789,200, 4-16-57, Cl. 219-39.
- Ebert Electronics Corp.: *See*—
Mitchell, Irving L. 2,776,351.
- Ebert, Hans: *See*—
Meyer, Oskar, Ebert, and Frank. 2,805,933.
- Ebert, Henry F., to Ebert & Co. Locket attachment for watch bands or the like. 2,796,747, 6-25-57, Cl. 63-19.
- Eberts, Richard K.: *See*—
Cosby, John N., Eberts, and Raynsford. 2,808,429.
- Eberz, William F.: *See*—
Steinman, Robert, and Eberz. 2,778,746.
- Ebling, William F., Jr., to International Resistance Co. Spiralling apparatus. 2,797,290, 6-25-57, Cl. 219-19.
- Ebner, Karl, to Metallgesellschaft Aktiengesellschaft. Steam jet apparatus. 2,790,595, 4-30-57, Cl. 230-103.
- Ebnother, Anton: *See*—
Jucker, Ernst, and Ebnother. 2,800,483.
- Eby, Lawrence T., to Esso Research and Engineering Co. Light-stable pure gum butyl vulcanizates. 2,810,709, 10-22-57, Cl. 260-45.9.
- Eby, Richard R., and E. B. Nolt, to Sperry Rand Corp. Hay baler wire tying mechanism. 2,807,204, 9-24-57, Cl. 100-23.
- Echeverria, Charles M., Jr., to United Aircraft Corp. Helicopter rotor blade connection. 2,815,821, 12-10-57, Cl. 170-160.55.
- Eck, John C., and S. J. Tunkel, to Allied Chemical & Dye Corp. Continuous production of methacrylic acid esters. 2,783,271, 2-26-57, Cl. 260-486.
- Eck, John C., and S. J. Tunkel, to Allied Chemical & Dye Corp. Continuous process for the production of methacrylic acid esters and ammonium sulphate. 2,786,739, 3-26-57, Cl. 23-119.

- Eck, John C., and E. C. Perrine, to Allied Chemical & Dye Corp. Application of soil conditions. 2,787,864, 4-9-57, Cl. 47-58.
- Eck, Robert N., and E. W. Seeger, to Cutler-Hammer, Inc. Control means for power operated forming presses and the like. 2,806,967, 9-17-57, Cl. 310-96.
- Eck, Robert N., and E. W. Seeger, to Cutler-Hammer, Inc. Control for power operated presses and the like. 2,809,312, 10-8-57, Cl. 310-94.
- Eck, Robert N., and V. H. Simson, to Cutler-Hammer, Inc. Control system for power presses having a magnetic flux clutch-brake drive. 2,818,150, 12-31-57, Cl. 192-144.
- Eckardt, Wolfgang M. J., and S. R. Preisinger, to Lever Brothers Co. Thickened hair dyeing composition comprising polyhydroxyl compound and alkanolamine. Re. 24,373, 10-15-57, Cl. 167-88.
- Eckart, Robert H., to The Keller Mfg. Co. Conveyor system for woodworking machines. 2,786,565, 3-26-57, Cl. 198-33.
- Eckblad, Alvin W., to Edwin L. Wiegand Co. Electric heating means. 2,816,206, 12-10-57, Cl. 219-37.
- Ecke, George G.: See—
Kolka, Alfred J., Ecke, and Closson. 2,814,646.
- Eckel, Carl C., and J. M. McCulley, to Radio Corp. of America. Timing signal generator. 2,798,976, 7-9-57, Cl. 310-155.
- Eckel, Heinrich. Automatically releasable ski binding. 2,793,046, 5-21-57, Cl. 280-11.35.
- Eckel, John E., to Esso Research and Engineering Co. Over-shot for controlling wild wells. 2,793,700, 5-28-57, Cl. 166-90.
- Eckel, Oliver C. Door body construction. 2,815,808, 12-10-57, Cl. 160-354.
- Eckels, Warren H., to Hercules Powder Co. Insulated conductor. 2,809,229, 10-8-57, Cl. 174-117.
- Eckert, Clarence R.: See—
Bettoli, Phillip S., Brown, Eckert, and Kine. 2,778,283.
- Eckert, Ernst R. G., to the United States of America as represented by the Secretary of the Air Force. Fluid cooled turbine blade construction. 2,778,601, 1-22-57, Cl. 253-39.15.
- Eckert, John P., Jr.: See—
Bonn, Theodore H., Eckert, and Talambiras. 2,798,168.
- Eckert, John P., Jr., to Sperry Rand Corp. Forcible reversal of magnetic amplifiers. 2,792,507, 5-14-57, Cl. 307-88.
- Eckert, John P., Jr., to Sperry Rand Corp. Transistor-magnetic amplifier bistable devices. 2,798,169, 7-2-57, Cl. 307-88.
- Eckert, John P., Jr., to Sperry Rand Corp. Bistable device. 2,806,152, 9-10-57, Cl. 307-88.
- Eckert, John P., Jr., to Sperry Rand Corp. Bipolar output carrier magnetic amplifier. 2,808,520, 10-1-57, Cl. 307-88.
- Eckert, John P., Jr., J. R. Weiner, R. F. Shaw, and A. A. Auerbach, to Sperry Rand Corp. Pulse cycling circuit. 2,781,446, 2-12-57, Cl. 250-27.
- Eckert, John P., Jr., and T. H. Bonn, to Sperry Rand Corp. Regenerative pulse translating circuit. 2,801,345, 7-30-57, Cl. 307-88.
- Eckert, Joseph F., Jr.: See—
Musolf, Gunter F., Eckert, and Senior. 2,808,536.
- Eckert, Samuel B.: See—
Hopkins, Howe H. 2,812,664.
- Eckhardt, Elmer R.: See—
Tomarelli, Rudolph M., Eckhardt, and Bernhart. 2,792,389.
- Eckhardt, Owen S., and I. E. Knapp, to Leach Brothers, Inc. Adducts of the ether of homo-abietic acid with α,β -unsaturated organic polybasic acids. 2,818,412, 12-31-57, Cl. 260-346.6.
- Eckhart, Charles R., to The Dayton Rubber Co. Wheel chock. 2,797,774, 7-2-57, Cl. 188-32.
- Eckler, Norman H. E. W. Jacobson, and B. M. Wedner, to Gulf Research & Development Co. Material handling apparatus. 2,779,485, 1-29-57, Cl. 214-17.
- Eckles, Howard W., to The Emerson Electric Mfg. Co. Starting switch for electric motors. 2,783,317, 2-26-57, Cl. 200-6.
- Eckley, William A., to Goodman Mfg. Co. Take-up device for V-belt drives. 2,791,910, 5-14-57, Cl. 74-242.1.
- Ecklund, Elvin E., and N. W. Gaw, Jr., to Allen B. Du Mont Laboratories, Inc. Electrical delay line. 2,810,887, 10-22-57, Cl. 333-31.
- Eckman, Donald P., and J. G. Horn, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,795,239, 6-11-57, Cl. 137-620.
- Eckman, Pete. Weighing device. 2,793,850, 5-28-57, Cl. 265-47.
- Eckman, Russell E.: See—
Burke, Francis T., and Eckman. 2,801,627.
- Eckold, Walter. Apparatus for deforming, especially upsetting or stretching, sheets or profiles. 2,798,388, 7-9-57, Cl. 78-61.
- Eckstein, Ernest E. Automatic tong extracting and re-setting mechanism. 2,776,164, 1-1-57, Cl. 294-110.
- Eckstein, Paul H.: See—
Troeller, Charles G., Hampel, Eckstein, and Nicolaus. 2,805,379.
- Eckstrom, Albert W., to Blaw-Knox Co. Method and apparatus for concentrating liquids. 2,777,514, 1-15-57, Cl. 159-17.
- Eckstrom, John E. Machine for making doll shoes. 2,776,444, 1-8-56, Cl. 12-12.
- Eckweiler, Howard J., to Kollsman Instrument Corp. Artificial horizon. 2,782,675, 2-26-57, Cl. 88-1.
- Ecoff, Francis A., to ACF Industries, Inc. Underframe for railway cars. 2,801,597, 8-6-57, Cl. 105-414.
- Economics Laboratory, Inc.: See—
Borell, George L. 2,784,394.
- Borell, George L. 2,817,806.
- Economos, Milton. Appliance for use in stacking coins for wrapping. 2,794,305, 6-4-57, Cl. 53-213.
- Economy Fuse and Mfg. Co.: See—
Laing, Gordon F. 2,787,684.
- Ecusta Paper Corp.: See—
Schur, Milton O. 2,775,952.
- Edbar Products, Inc.: See—
Tozloski, Edward B. 2,786,549.
- Edcliff Instruments: See—
Gearheart, John D., Sayre, and Rehnberg. 2,813,183.
- Eddington Metal Specialty Co.: See—
Czarnecki, Casimer M. 2,815,805.
- Eddison, William B., to Gisholt Machine Co. Seal opening and applying head. 2,815,627, 12-10-57, Cl. 53-291.
- Eddison, William B., and W. E. Erickson. Magazine feed electromagnetic vibratory sheet. 2,794,636, 6-4-57, Cl. 271-8.
- Eddison, William B., and W. E. Erickson, to Gisholt Machine Co. Seal handling head. 2,815,628, 12-10-57, Cl. 53-291.
- Eddison, William B., and W. E. Erickson, to Gisholt Machine Co. Pull-down device. 2,815,629, 12-10-57, Cl. 53-292.
- Eddleblute, Carl L. Control system. 2,803,012, 8-20-57, Cl. 1-1.
- Eddy, Lee B., to Universal Oil Products Co. Delayed automatic restart circuit. 2,798,968, 7-9-57, Cl. 307-35.
- Eddy Paper Corp.: See—
Sharts, Earl L. 2,783,933.
- Eddy, William C., to Television Associates, Inc. Closure for plastic containers. 2,781,146, 2-12-57, Cl. 220-4.
- Eddy, William C. Endless-tape magazine. 2,791,423, 5-7-57, Cl. 271-2.18.
- Edel, Hans, to Bowman Dairy Co. Milk filler apparatus. 2,792,680, 5-21-57, Cl. 53-281.
- Edeleanu Gesellschaft m. b. H.: See—
Hoppe, Alfred. 2,816,859.
- Edelen, James G., Sr. Bed rail and post connections. 2,776,442, 1-8-57, Cl. 5-296.
- Edelen, James G., Sr. Bed rail and post connections and the like. 2,795,801, 6-18-57, Cl. 5-296.
- Edelen, James L., to ACF Industries, Inc. Shaft and plate assembly and method of assembling the same. 2,779,612, 1-29-57, Cl. 287-20.2.
- Edelman, Aaron P. Nutating antenna assembly. 2,803,007, 8-13-57, Cl. 343-762.
- Edelman, Leonard B., and C. F. Miller, to the United States of America as represented by the Secretary of the Navy. Return burning motor. 2,814,179, 11-26-57, Cl. 60-35.6.
- Edelman, Leonard E., and H. L. Gales, to The International Nickel Co., Inc. Hydrocarbon oils having improved oxidation resistance. 2,813,076, 11-12-57, Cl. 252-32.7.
- Edelman, Walter, to Jantzen Inc. Swim suit including puffed shirring. 2,794,187, 6-4-57, Cl. 2-67.
- Edelmann, Sylvester G., to United States Steel Corp. Floating lifting lugs for annealing cover. 2,191,418, 5-7-57, Cl. 263-49.
- Edelson, Leo: See—
Hafekost, Frederick. 2,776,482.
- Edelson, Leon: See—
Bernard, Raymond C., and Edelson. 2,788,811.
- Edelstein, Sidney M.: See—
Welles, Ernest I., and Edelstein. 2,809,159.
- Eden, Arthur: See—
Swain, Stanley, and Eden. 2,811,249.
- Eden, Carsten: See—
Geffeken, Walter. Eden, and Faulstich. 2,781,411.
- Eden, Carsten, to Jena'er Glaswerk Schott & Gen. Electric melting furnace. 2,804,492, 8-27-57, Cl. 13-6.
- Edens, Jan W.: See—
Diemer, Giesinus, Knol, Edens, and Uijtens. 2,797,266.
- Edens, Jan W., and H. Broekema, to North American Philips Co., Inc. Band and channel switching receiver with capacitor connectible either for main or vernier tuning. 2,816,221, 12-10-57, Cl. 250-20.
- Edens, Jan W., and J. Stolk, to North American Philips Co., Inc. Mixing circuit for superheterodyne receivers. 2,816,222, 12-10-57, Cl. 250-20.
- Edens, Robert S., to Southwest Welding & Mfg. Co. Floating roof seal construction. 2,803,371, 8-20-57, Cl. 220-26.
- Eder, Heinz, to Wacker Chemie G. m. b. H. Methylhydrogen-polyisiloxane composition for treating textile. 2,789,936, 4-23-57, Cl. 260-29.2.
- Eder, Kurt W., to Fabrique de Produits Chimiques G. Zimmerli S. A. Optical bleach. 2,806,054, 9-10-57, Cl. 260-490.
- Eder, Theodor. Continuous horizontal sedimentation process and apparatus for carrying out the same. 2,790,551, 4-30-57, Cl. 209-155.
- Ederer, Arthur F., and B. A. Pearson, to Ederer Engineering Co. Machine and method for the edge-gluing of strip stock. 2,790,483, 4-30-57, Cl. 154-42.
- Ederer Engineering Co.: See—
Ederer, Arthur F., and Pearson. 2,790,483.
- Edgar, Albert C., and H. T. Spannuth, to Wilson & Co., Inc. Method of treating containers for food. 2,800,410, 7-23-57, Cl. 99-187.

- Edgerton, Frank R., to General Dynamics Corp. Electric switch. 2,806,104, 9-10-57, Cl. 200—104.
- Edge, Norman, to Britains Ltd., Cheddleton Paper Mills. Transfer paper and dry-strip transfers made with such paper. 2,811,475, 10-29-57, Cl. 154—46.8.
- Edge, Stanley H., and F. L. Beet, to Clayton Dewandre Co. Ltd. Servo braking apparatus. 2,800,770, 7-30-57, Cl. 60—54.6.
- Edgecombe, David A., to The Babcock & Wilcox Co. Apparatus for cleaning an extrusion press container and for preventing spraying during cooling of the mandrel. 2,815,127, 12-3-57, Cl. 207—2.
- Edgecombe, David A., and S. O. Evans, to The Babcock & Wilcox Co. Apparatus for lubricating external surface of extrusion billet. 2,803,215, 8-20-57, Cl. 118—233.
- Edgerley, Peter G., to Imperial Chemical Industries Ltd. Rubber reinforced with a butadiene 1,3-methyl methacrylate copolymer. 2,785,143, 3-12-57, Cl. 260—5.
- Edgerly, Charles R.: *See*—
May, Theodore F., and Edgerly. 2,811,394.
- Edgerton, Arthur H. Trivet lifter. 2,784,024, 3-5-57, Cl. 294—19.
- Edgerton, Germeshausen and Grier, Inc.: *See*—
Colson, Edward A., and Fussell. 2,815,453.
- Edgerton, Harold E. Multiple light-dash-producing system. 2,781,707, 2-19-57, Cl. 95—11.
- Edgerton, Harold E. Gaseous-discharge apparatus. 2,794,906, 6-4-57, Cl. 240—11.4.
- Edgerton, Roy G. Drill depth stop. 2,779,218, 1-29-57, Cl. 77—55.
- Edgerton, William H., to Parke, Davis & Co. Long chain esters of nitrophenylaminopropanediols and preparation thereof. 2,791,595, 5-7-57, Cl. 260—404.5.
- Edgerton, William H., and J. R. Fisher, to Parke, Davis & Co. Process for the production of organic amino diols. 2,777,854, 1-15-57, Cl. 260—307.
- Edgerton, William H., and R. L. Hull, to Parke, Davis & Co. Substituted *A*-benzylphenethylamines and methods for producing the same. 2,797,242, 6-25-57, Cl. 260—570.8.
- Edgington, Alexander G.: *See*—
Wale, John, and Edgington. 2,783,954.
- Edmon, Henry L. Crib having means for providing a reciprocating longitudinal motion thereto. 2,805,427, 9-10-57, Cl. 5—109.
- Edinger, Fred S. Convertible trailer hitch. 2,812,956, 11-12-57, Cl. 280—491.
- Edis, John N., and L. Brook, to The Forgrove Machinery Co. Ltd. Wrapping machines. 2,784,541, 3-12-57, Cl. 53—234.
- Edison Swan Electric Co. Ltd.: *See*—
Deakin, Stanley T. 2,779,011.
Deakin, Stanley T. 2,802,996.
Lane, Clayton A. 2,811,018.
- Edison, Thomas A., Inc.: *See*—
Logan, William W. 2,777,012.
- Edison, Willard O.: *See*—
Killian, Stanley C., and Edison. 2,784,012.
- Edit dell'ing. Renato Piana & C.-Società in Accomandita Semplice: *See*—
Piana, Renato. 2,814,341.
- Edlen, George G.: *See*—
Diambra, Henry M., and Edlen. 2,782,379.
- Edlo Inc.: *See*—
Fahrenbach, Wolfgang B. 2,815,626.
- Edman, Ernst E. T.: *See*—
Tunberg, Gustav V., Jørgensen, Parschin, and Edman. 2,781,817.
- Edmark, Karl W., Jr., to Physio-Control Co., Inc. Heart beat indicator. 2,801,629, 8-6-57, Cl. 128—2.05.
- Edminster, Robert E., and J. C. Shaver, Jr., to International Business Machines Corp. Program device. 2,800,539, 7-23-57, Cl. 200—46.
- Edmond, Russell B., to Bostitch, Inc. Magazine and feed means for fastener-applying implements. 2,799,019, 7-16-57, Cl. 1—3.
- Edmonds, Charles G. Freight car traffic control device. 2,813,360, 11-19-57, Cl. 40—19.5.
- Edmonds, Harvey A.: *See*—
Spurlock, William H., Edmonds, and Evanson. 2,810,997.
- Edmonds, Harvey A., to Swift & Co. Check weighing scale apparatus. 2,796,172, 6-18-57, Cl. 209—121.
- Edmonds, James T.: *See*—
Hillyer, John C., and Edmonds. 2,785,148.
- Edmonds, James T., Jr.: *See*—
Goodhue, Lyle D., and Edmonds. 2,795,526.
Lyons, Harold D., and Edmonds. 2,813,905.
- Edmonds, Landon W. L.: *See*—
Konet, Henry, and Edmonds. 2,790,119.
- Edmonds, Lee O.: *See*—
Himel, Chester M., and Edmonds. 2,792,394.
- Edmonds, Lee O., to Phillips Petroleum Co. Condensation products of alkene oxides and hydroxylated polymers of conjugated dienes, and their preparation. 2,792,382, 5-14-57, Cl. 260—94.7.
- Edmonds, Radcliffe G., and E. W. Doughty, to Union Carbide and Carbon Corp. Method and apparatus for separating coal hydrogenation products. 2,784,148, 3-5-57, Cl. 196—94.
- Edmondson, William R. Sound device. 2,791,628, 5-7-57, Cl. 179—1.
- Edmonston, Woolford L. Constant mass liquid dispensing control. 2,810,367, 10-22-57, Cl. 119—81.
- Edmund, James M., to United States of America as represented by the Secretary of the Navy. Firing pin safety device for breech mechanisms. 2,789,473, 4-23-57, Cl. 89—27.
- Edmund, James M., to the United States of America as represented by the Secretary of the Navy. Breech mechanism. 2,802,400, 8-13-57, Cl. 89—24.
- Edmund, James M., to the United States of America as represented by the Secretary of the Navy. Powder case lock for breech mechanism. 2,809,561, 10-15-57, Cl. 89—24.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Terminal and terminal wire connector. 2,777,119, 1-8-57, Cl. 339—272.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Mounting block for circuit breaker. 2,805,294, 9-3-57, Cl. 200—51.
- Ednalite Optical Co., Inc.: *See*—
Bechtold, Edwin W., Kapilow, and Weinstein. 2,800,052.
- Ednell, Daniel F. Method for producing cones from a fibrous pulp suspension. 2,777,367, 1-15-57, Cl. 92—57.
- Edney, Hubert A.: *See*—
Houghton, John, and Edney. 2,784,569.
- Edo Corp.: *See*—
Ries, Rudy F., and Ryan. 2,793,827.
- Edrich, Joseph G.: *See*—
Wallace, Bert H., Sterne, and Edrich. 2,793,038.
- Edrich, Joseph G., to Del-Pro Corp. Pulse detecting network. 2,798,950, 7-9-57, Cl. 250—27.
- Edrich, Joseph G., to the United States of America as represented by the Secretary of the Navy. Target hit indicator. 2,818,560, 12-31-57, Cl. 340—372.
- Edsall, William S., to The Chase-Shawmut Co. Cable protection. 2,803,786, 8-20-57, Cl. 317—36.
- Edsall, William S., to The Chase-Shawmut Co. Composite fusible protective device. 2,809,254, 10-8-57, Cl. 200—114.
- Edson, James O., to Bell Telephone Laboratories, Inc. Multiplexing various modes in composite conductors. 2,799,006, 7-9-57, Cl. 333—24.
- Edstrand, Elmer W., to Lindberg Engineering Co. Automatic lading control for metal melting furnace. 2,816,334, 12-17-57, Cl. 22—79.
- Edvar, Torsten F. A., to Selas Corp. of America. Strip cooling tower. 2,779,584, 1-29-57, Cl. 266—3.
- Edwards, A. O.: *See*—
Davis, Fred W., and Stokes. 2,813,056.
Davis, Fred W., and Stokes. 2,813,059.
- Edwards, Andrew W.: *See*—
Wallace, James M., and Edwards. 2,806,105.
- Edwards, Andrew W., to Westinghouse Electric Corp. Automatic load pickup switch. 2,792,529, 5-14-57, Cl. 317—22.
- Edwards, Andrew W., to Westinghouse Electric Corp. Circuit breakers. 2,795,671, 6-11-57, Cl. 200—89.
- Edwards, Andrew W., and L. V. Chabala, to Westinghouse Electric Corp. Load pickup sectionalizer. 2,806,182, 9-10-57, Cl. 317—22.
- Edwards, Baden J., and D. M. Johnstone, to Pye Ltd. Variable color filter for color television. 2,804,803, 9-3-57, Cl. 88—106.
- Edwards, Bryant, to Illinois Tool Works. Plastic nut having frusto-conical bore and locking portion. 2,788,829, 4-16-57, Cl. 151—7.
- Edwards, Bryant, to Illinois Tool Works. Plastic grease fitting. 2,797,703, 7-2-57, Cl. 137—539.
- Edwards, Bryant, to Illinois Tool Works. Closure device. 2,814,405, 11-26-57, Cl. 215—41.
- Edwards, Charles F., to Bell Telephone Laboratories, Inc. Impedance matching devices for wave-guide hybrid junctions. 2,806,210, 9-10-57, Cl. 333—11.
- Edwards, Cyril E. K., to Vickers-Armstrong Ltd. Aircraft control. 2,786,176, 3-19-57, Cl. 318—489.
- Edwards, David B. G.: *See*—
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,789,759.
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,796,218.
Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,813,255.
- Edwards, David N. Portable tool. 2,775,904, 1-1-57, Cl. 74—472.
- Edwards, Delbert. Adjustable header for seed harvester with pneumatic conveying means. 2,780,046, 2-5-57, Cl. 56—158.
- Edwards, Elizabeth G. Scrub pail accessory. 2,778,398, 1-22-57, Cl. 150—52.
- Edwards, Evan A., and C. R. Wilson, to Eastman Kodak Co. Automatic spooling machine for roll film. 2,776,094, 1-1-57, Cl. 242—55.
- Edwards, Evan A., and L. A. Ulmschneider, to Eastman Kodak Co. Injection molding machine with stress control system. 2,790,204, 4-30-57, Cl. 18—30.
- Edwards, Francis E., and H. S. Wille, to Pullman-Standard Car Mfg. Co. Hydraulic draft gear. 2,816,670, 12-17-57, Cl. 213—43.
- Edwards, George. Animal trap. 2,778,149, 1-22-57, Cl. 43—83.5.
- Edwards, George S.: *See*—
Bonewitz, Paul W., Edwards, Fults, and Hockett. 2,804,432.
- Edwards, Gordon. Liquid flow control valve. 2,781,050, 2-12-57, Cl. 137—119.
- Edwards, Greene B., Jr. License plate cover. 2,797,513, 7-2-57, Cl. 40—125.

- Edwards, Harold G.: *See*—
Barrow, Norman, Robert, and Edwards. 2,788,394.
- Edwards, Harold, Sr., and G. H. Goodemote, to The O. M. Edwards Co., Inc. Weatherstrip construction. 2,790,214, 4-30-57, Cl. 20—69.
- Edwards, John F., Jr., L. C. Friend, and K. D. Shaub, to Bendix Aviation Corp. Hermetically sealed switch. 2,802,912, 8-13-57, Cl. 200—14.
- Edwards, John H.: *See*—
Tallis, Ernest E., and Edwards. 2,784,107.
- Edwards, John H., to Courtaulds Ltd. Production of artificial filaments, threads and the like. 2,813,038, 11-12-57, Cl. 106—165.
- Edwards, John H., and E. E. Tallis, to Courtaulds Ltd. Production of artificial filaments, threads, and the like. 2,777,775, 1-15-57, Cl. 106—165.
- Edwards, LeRoy B., and H. I. Hersh. Compositions for use in steam ironing and pressing. 2,789,379, 4-23-57, Cl. 38—144.
- Edwards, Lewis W., and R. A. West, to Lukens Steel Co. Apparatus for loading and unloading trailers. 2,786,590, 3-26-57, Cl. 214—506.
- Edwards, Miles L. Vehicle speed limiting device with manual override means. 2,809,708, 10-15-57, Cl. 180—82.1.
- Edwards, Miles L. Vapor separating pump. 2,811,110, 10-29-57, Cl. 103—113.
- Edwards, O. M., Co., Inc.: *See*—
Edwards, Harold, Sr., and Goodemote. 2,790,214.
Goodemote, George H., and Seaburg. 2,787,348.
Henderson, Cloyd S., and Axe. 2,787,347.
- Edwards, Ray C. Apparatus for making heat exchange tubes. 2,779,222, 1-29-57, Cl. 80—12.
- Edwards, Ray C. Apparatus for making lipped finned tubing. 2,780,268, 2-5-57, Cl. 153—21.
- Edwards, Ray C. Apparatus for manufacturing helically finned tubes. 2,792,050, 5-14-57, Cl. 153—64.5.
- Edwards, Richard H., to Engineering Laboratories, Inc. Bridge-type modulator mixer. 2,814,780, 11-26-57, Cl. 332—43.
- Edwards, Robert N. Camera. 2,787,942, 4-9-57, Cl. 95—37.
- Edwards, Robert V., to American Pipe and Construction Co. Bell end forming and troweling ring. 2,786,253, 3-26-57, Cl. 25—39.
- Edwards, Russell G.: *See*—
Harrison, Raymond B., and Edwards. 2,780,879.
- Edwards, Sidney G. Perpetual calendar device. 2,788,595, 4-16-57, Cl. 40—107.
- Edwards, Stephen P., O. H. Johnson, S. K. Reed, and S. F. Wilson, to Food Machinery and Chemical Corp. Preparation of thiophosphoryl chloride. 2,802,717, 8-13-57, Cl. 23—14.
- Edwards, Thomas C., and C. G. Roberts. Sewer inlet. 2,795,240, 6-11-57, Cl. 138—39.
- Edwards, Thomas J.: *See*—
Horne, Frederick F., and Edwards. 2,795,542.
- Edwards, Thomas W., and G. E. Crosby, to Radio Corp. of America. Method of coating phosphor particles. 2,817,599, 12-24-57, Cl. 117—33.5.
- Edwards, William E. M., to Filter Tips Ltd. Manufacture of composite cigarettes. 2,809,639, 10-15-57, Cl. 131—94.
- Edwards, William G., to General Motors Corp. Automatic indicating instrument. 2,806,207, 9-10-57, Cl. 324—99.
- Edwards, William R. Rotating internal contact miniature switch. 2,817,721, 12-24-57, Cl. 200—6.
- Edwards, William S.: *See*—
Winchester, John H., and Edwards. 2,801,947.
- Edwards, William S., to National Dairy Products Corp. Apparatus for emptying containers of liquid. 2,803,361, 8-20-57, Cl. 214—305.
- Edwards, William S., to The Coca-Cola Bottling Works Co. Pallet moving device. 2,818,156, 12-31-57, Cl. 198—21.
- Edworthy, Frederick J. Landing net. 2,782,546, 2-26-57, Cl. 43—11.
- Effmann, Karl H., to Perfect Circle Corp. Cylinder block and liner construction and method of assembling the same. 2,783,749, 3-5-57, Cl. 123—41.83.
- Efron, Edward, to Esso Research and Engineering Co. Method of improving storage characteristics of wax and product thereof. 2,810,678, 10-22-57, Cl. 196—149.
- Efromson, Philip C., to The Calidyne Co. Electrodynamic vibration test equipment. 2,789,237, 4-16-57, Cl. 310—27.
- Egan, Frank W., & Co.: *See*—
Egan, Lawrence W. 2,812,910.
Willert, William H. 2,785,438.
Willert, William H. 2,796,632.
- Egan, Lawrence W., to Frank W. Egan & Co. Double drum winding machine and flying winding roll changer. 2,812,910, 11-12-57, Cl. 242—66.
- Egan, Thomas F., to Bell Telephone Laboratories, Inc. Electrical contact. 2,812,406, 11-5-57, Cl. 200—166.
- Egbert, Robert B., to Chempatents, Inc. Process for the catalytic oxidation of olefins. 2,777,862, 1-15-57, Cl. 260—348.5.
- Egbert, Robert B., and M. Becker, to Chempatents, Inc. Catalysis. 2,777,860, 1-15-57, Cl. 260—346.8.
- Egbert, Robert B., and D. Brown, to Chempatents, Inc. Process for recovery of sulfur from elemental-sulfur-bearing ore. 2,798,034, 7-2-57, Cl. 202—46.
- Egenwall, Gustaf C., to Aktiebolaget Rosenblads Patent. Heat exchanger of the plate-pile type. 2,791,402, 5-7-57, Cl. 257—245.
- Eger, Edward F., to Western Electric Co., Inc. Loading fixture. 2,796,710, 6-25-57, Cl. 53—124.
- EGGE, Robert A.: *See*—
Jeannin, John F., and Egge. 2,787,959.
- Eggenberger, Markus A., to General Electric Co. Governing system for reheat turbine. 2,811,837, 11-5-57, Cl. 60—73.
- Eggink, Bernard F. Dispensers. 2,788,923, 4-16-57, Cl. 222—336.
- Egglestone, Robert W.: *See*—
Bonn, Robert P., and Egglestone. 2,802,154.
- Egglestone, Robert W., to Westinghouse Electric Corp. Motor control system. 2,813,234, 11-12-57, Cl. 318—6.
- Egglestone, Robert W., and P. E. Graham, to Westinghouse Electric Corp. Outdoor motor. 2,777,079, 1-8-57, Cl. 310—58.
- Eggleton, Alan E. J.: *See*—
Dunell, Basil A., Eggleton, and Puddington. 2,793,186.
- Egle, Arthur, and W. Bethge, to said W. Bethge, J.-P. De Montmolin, and R. Gugger. Electric surface heater. 2,813,960, 11-19-57, Cl. 219—19.
- Egleston, Ann K. Anklet. 2,784,411, 3-12-57, Cl. 2—22.
- Egry Register Co.: *See*—
Sadgebury, Herman F. 2,789,817.
- Eglin, James F., to Bell Telephone Laboratories, Inc. Demodulation of vestigial sideband signals. 2,797,314, 6-25-57, Cl. 250—20.
- Egner, Börje P. H.: *See*—
Thuresson Af Ekenstam, Bo, and Egner. 2,792,399.
Thuresson Af Ekenstam, Bo, and Egner. 2,799,679.
- Eguchi, Yasukata, to Janome Sangyo, K. K. Fabric advancing means in sewing machine. 2,783,725, 3-5-57, Cl. 112—215.
- Egyesült Izzólámpa és Villamosági Részvénytársaság: *See*—
Jeges, Karoly. 2,809,316.
Winter, Ernő. 2,798,180.
- Ehler, Herman W., to General Hardware Mfg. Co., Inc. Unitary rule slide. 2,799,942, 7-23-57, Cl. 33—173.
- Ehlers, Edward, Jr. Self-contained fire alarm unit. 2,809,368, 10-8-57, Cl. 340—227.
- Ehlers, George M., to Sprague of Wisconsin, Inc. Electrical capacitor. 2,793,333, 5-21-57, Cl. 317—242.
- Ehlers, William E., Jr.: *See*—
Tullis, Samuel E., and Ehlers. 2,810,060.
- Ehlert, William A., to The Ajax Mfg. Co. Apparatus for drawing wire and operating thereon. 2,797,799, 7-2-57, Cl. 205—4.
- Ehke, Edward C., to Controls Co. of America. Valve operator. 2,794,600, 6-4-57, Cl. 236—48.
- Ehman, Shirley F., to General Motors Corp. Air distributor for air conditioning units. 2,807,992, 10-1-57, Cl. 98—40.
- Ehrat, Kurt, to Dr. E. Gretener. Enciphering device. 2,785,224, 3-12-57, Cl. 178—22.
- Ehrenfeld, Robert L. Oxygen free halopolyfluoro compounds and method of producing same. 2,788,375, 4-9-57, Cl. 260—653.
- Ehrenfried, Albert D., to the United States of America as represented by the Secretary of the Navy. Simultaneous lobing with monitored dual receiver. 2,784,400, 3-5-57, Cl. 343—74.
- Ehrenhaft, Franz F., and S. Rosin, to Scaenoptic Inc. Aerial viewing apparatus. 2,817,994, 12-31-57, Cl. 88—1.
- Ehret, Robert D. Funeral car and ambulance. 2,803,490, 8-20-57, Cl. 296—16.
- Ehret, Robert J.: *See*—
Moore, Warren, Jr., and Ehret. 2,778,574.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Indicating and recording apparatus. 2,787,511, 4-2-57, Cl. 346—29.
- Ehret, Robert J., and W. Moore, Jr., to Minneapolis-Honeywell Regulator Co. Electrical control apparatus. 2,778,942, 1-22-57, Cl. 250—36.
- Ehrett, Frank E.: *See*—
Asbeck, Hans J., and Ehrett. 2,780,496.
- Ehrhart, Gustav, and L. Stein, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New alkylaminobenzoic acid esters and salts thereof and a process of preparing them. 2,794,024, 5-28-57, Cl. 260—326.3.
- Ehrhart, Gustav, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Amino propane derivatives and process for their manufacture. 2,799,675, 7-16-57, Cl. 260—247.2.
- Ehrhart, Gustav, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Basic benzilic esters and a process of preparing them. 2,816,895, 12-17-57, Cl. 260—294.3.
- Ehrich, Felix F., to E. I. du Pont de Nemours and Co. Phthalocyanine pigments. 2,799,594, 7-16-57, Cl. 106—288.
- Ehrich, Felix F., to E. I. du Pont de Nemours and Co. Phthalocyanine pigments. 2,805,957, 9-10-57, Cl. 106—288.
- Ehrich, Felix F., and A. J. Stratton, to E. I. du Pont de Nemours & Co. Production of improved organic pigments. 2,816,114, 12-10-57, Cl. 260—314.5.
- Ehricke, Erich: *See*—
Töpfer, Herbert, Ehricke, Brandstetter, and Peissner. 2,803,705.
- Ehringer, Hermann: *See*—
Von Seelen, Carola, Ehringer, and Boettcher. 2,802,925.
- Ehrl, Hans: *See*—
Buder, Karl, and Ehrl. 2,807,860.
- Ehrler, Gustav G.: *See*—
Durant, Lyndon A., Ehrler, and Murphy. 2,791,152.

- Ehrlich, Charles N., to De Jur-Amsco Corp. Shock-proof instrument mounting. 2,798,686, 7-9-57, Cl. 248—358.
- Ehrlich, Howard B., to Pastushin Aviation Corp. Demountable tank joint construction. 2,811,375, 10-29-57, Cl. 285—342.
- Ehrlich, Joseph C. Lancets. 2,801,633, 8-6-57, Cl. 128—314.
- Ehrlich, Louis B., and H. I. Chambers. Window operating mechanism. 2,777,688, 1-15-57, Cl. 268—124.
- Ehrlich, Morris J., and W. G. Sterns, to Hughes Aircraft Co. Arrangement for controlling edge diffraction of microwaves. 2,808,586, 10-1-57, Cl. 343—838.
- Ehrlich, Raphael H.: *See—*
- Potter, Claud N., and Ervin. 2,801,626.
- Ehrlich, Robert J. Button stapler. 2,786,201, 3-26-57, Cl. 1—3.
- Ehrlinger, Robert J., and H. R. Lambert, to the United States of America as represented by the Secretary of the Navy. Vibrating reed-type frequency standard. 2,793,293, 5-21-57, Cl. 250—36.
- Ehrman, Herbert H., to Borg-Warner Corp. Treatment of milk. 2,816,500, 12-17-57, Cl. 99—252.
- Ehrsam, J. B., & Sons Mfg. Co., The: *See—*
- Connell, Willard B. 2,784,831.
- Connell, Willard B. 2,814,397.
- Eichenberger, Kurt: *See—*
- Druey, Jean, and Eichenberger. 2,782,195.
- Eichel, Herman J.: *See—*
- Schock, Richard U., and Eichel. 2,785,165.
- Eichenberger, Charles D.: *See—*
- Hebbel, Emil B., and Eichenberger. 2,778,895.
- Eichelhardt, Gustave B. Synthetic coated wire stripper. 2,797,422, 7-2-57, Cl. 15—93.
- Eichenauer, Rudolf. Compressed air filling apparatus for tires and the like. 2,788,795, 4-16-57, Cl. 137—224.5.
- Eichenauer, Rudolf. Compressed air tire-filling apparatus. 2,818,080, 12-31-57, Cl. 137—224.5.
- Eichenauer, Rudolf. Tire inflating and testing device. 2,818,081, 12-31-57, Cl. 137—224.5.
- Eichenlaub, Richard. Vacuum filling apparatus. 2,784,748, 3-12-57, Cl. 141—65.
- Eichhorn, Reinhold. Key and screw attached gem setting for a finger ring. 2,775,878, 1-1-57, Cl. 63—29.
- Eichhorn, Robert L., and R. D. Verdick, to Whirlpool-Seeger Corp. Vacuum release mechanism for refrigerated cabinet. 2,810,493, 10-22-57, Cl. 220—44.
- Eichler, Joseph L. Sliding door assembly. 2,791,006, 5-7-57, Cl. 20—19.
- Eichler, Ulrich J. R.: *See—*
- Kiel, Wilhelm K. B., and Eichler. 2,780,411.
- Eichner, Ferdinand R., to General Motors Corp. Package rack with vehicle illuminating means. 2,779,862, 1-29-57, Cl. 240—7.1.
- Eichner, Ferdinand R., to General Motors Corp. Light rail. 2,779,864, 1-29-57, Cl. 240—7.1.
- Eichorn, Adrian, to Screen Engineering Co. Photographic method for making templates. 2,801,919, 8-6-57, Cl. 96—27.
- Eickele, Walter: *See—*
- Stelzer, William, and Eickele. 2,777,675.
- Eicken, Henri, known as Estienne. Apparatus for determining the relative, specific or absolute humidity in the atmosphere. 2,804,593, 8-27-57, Cl. 324—65.
- Eickman, Willis E.: *See—*
- Placke, Everett H., and Eickman. 2,811,918.
- Eickmeier, Edward W., and E. Olson, to General Motors Corp. Automatic choke valve for carburetors. 2,818,239, 12-31-57, Cl. 261—39.
- Eickmann, Olin J.: *See—*
- Carlson, Harold A., and Eickmann. 2,798,703.
- Eigen, Morris. Preparation and mounting of specimen sections. 2,776,596, 1-8-57, Cl. 88—40.
- Eigenbrode, Glenn S., to Landis Machine Co. Method and apparatus for synchronizing threading rolls. 2,781,586, 2-19-57, Cl. 33—181.
- Eigler, John H., and M. V. Sullivan, to Bell Telephone Laboratories, Inc. Method of treating the surface of solids with liquids. 2,797,193, 6-25-57, Cl. 204—143.
- Eike, Eugene F., to American Can Co. Tearing strip container. 2,797,021, 6-25-57, Cl. 220—54.
- Eilbracht, Hans, and M. Haeblerle, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for manufacturing pellets from fusible materials. 2,790,201, 4-30-57, Cl. 18—24.
- Eilenberger, Stanley D., to Minneapolis-Honeywell Regulator Co. Capacitor photoflash circuit. 2,789,486, 4-23-57, Cl. 95—11.5.
- Eilermann, Charles W. Fish hook. 2,781,605, 2-19-57, Cl. 43—44.2.
- Eilers, Hajo: *See—*
- Bachmann, Ditmar, Eilers, Grundmann, and Buchtmeyer. 2,783,544.
- Eilers, Louis H.: *See—*
- Cardwell, Paul H., Eilers, and Park. 2,802,531.
- Cardwell, Paul H., Eilers, and Hendrickson. 2,794,779.
- Eilertsen, Adolph. Quick coupling and releasing garter clasp. 2,781,569, 2-19-57, Cl. 24—246.
- Eilmann, Fred H., to The Scott & Fetzer Co. Bearing mounting structures. 2,812,987, 11-12-57, Cl. 308—178.
- Eimco Corp., The: *See—*
- Schwartz, Daniel M. 2,792,140.
- Schwartz, Daniel M. 2,811,259.
- Spanjer, David L. 2,813,760.
- Thompson, Robert B. 2,781,133.
- Einhiple, John A., to National Gypsum Co. Automatic drill pointer. 2,810,992, 10-29-57, Cl. 51—92.
- Einhorn, Harry E., to Wilco Metal Products, Inc. Supporting frame for collapsible luggage. 2,806,563, 9-17-57, Cl. 190—43.
- Einhorn, Harry E., to Wilco Metal Products, Inc. Shoe rack. 2,815,862, 12-10-57, Cl. 211—37.
- Einsle, Alfred: *See—*
- Dannenhoffer, Nicholas, and Einsle. 2,787,548.
- Eipper, Daniel C., and R. C. Weber, to Moline Tool Co. Apparatus for presetting cutters for use in a machine tool. 2,775,821, 1-1-57, Cl. 33—185.
- Eiringer, Phil, to California Abrasives, Inc. Apparatus for making sanding disks. 2,813,505, 11-19-57, Cl. 118—56.
- Eisan, James R., to Raytheon Mfg. Co. Grids and methods and apparatus for forming same. 2,794,934, 6-4-57, Cl. 313—350.
- Eisele, Andrew. Precision measuring instrument. 2,795,049, 6-11-57, Cl. 33—147.
- Eisele, Andrew. Universal precision work holder for machine tools. 2,803,064, 8-20-57, Cl. 33—174.
- Eisele, Andrew. Alignment and concentricity gauge. 2,810,202, 10-22-57, Cl. 33—172.
- Eisele, Dudley E. Gage for positioning igniter electrode in wall flame burners. 2,798,300, 7-9-57, Cl. 33—180.
- Eisele, Julius: *See—*
- Schuster, Curt, Maier, Gehm, Eisele, and Frederkiel. 2,813,774.
- Eisele, Julius, W. Federkiel, and E. W. Gassenmeier, deceased (by R. M. Gassenmeier, heir and guardian of minor heirs), and C. Schuster, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Acid fading inhibition. 2,813,773, 11-19-57, Cl. 8—61.
- Eisele, Lloyd E.: *See—*
- Alcorn, Estes E. 2,799,319.
- Eisele, William A., to The Reflectone Corp. Positioning device. 2,790,124, 4-23-57, Cl. 318—254.
- Eisen, John B., to Bjorksten Research Laboratories, Inc. Battery electrode component. 2,805,274, 9-3-57, Cl. 136—120.
- Eisenberg, Morris M. Strapping machine. 2,781,516, 2-19-57, Cl. 1—123.
- Eisenhardt, Robert G.: *See—*
- Mackenzie, Elbert K., and Eisenhardt. 2,817,318.
- Eisenhart, Arlin C., to U. S. Electrical Motors, Inc. Lubricant cooling system. 2,813,763, 11-19-57, Cl. 308—77.
- Eisengrein, Robert H.: *See—*
- Sadler, Carl L., Jr., Eisengrein, and Hermanson. 2,803,112.
- Eisengrein, Robert H., and E. W. Erikson, to Sundstrand Machine Tool Co. Automatic paralleling circuit. 2,785,318, 3-12-57, Cl. 307—87.
- Eisenhauer, Hugh R., and K. P. Link, to Wisconsin Alumni Research Foundation. Esters of 4-hydroxycoumarin. 2,786,065, 3-19-57, Cl. 260—343.2.
- Eisenhut, Arnold. Veterinary evacuating probe for use on cattle. 2,799,274, 7-16-57, Cl. 128—356.
- Eisenkraft, Bernard J. Electromechanical atomizer. 2,779,623, 1-29-57, Cl. 299—1.
- Eisenwerke Geisendörchen Aktiengesellschaft: *See—*
- Wittmoser, Adalbert, Biefang, and Dutting. 2,800,691.
- Eiserman, Gert V., to The Green Fuel Economizer Co., Inc. Drive-in fan. 2,814,432, 11-26-57, Cl. 230—117.
- Eisler, Charles. Tube shrinking machine. 2,779,135, 1-29-57, Cl. 49—7.
- Eisler, Charles. Work holder turntable mechanism. 2,783,531, 3-5-57, Cl. 29—288.
- Eisler, Henry: *See—*
- Harvey, Winston S., and Eisler. 2,802,977.
- Eisler, Joseph D., and D. Silverman, to Pan American Petroleum Corp. Seismic wave generation. 2,808,894, 10-8-57, Cl. 181—5.
- Eisler, Paul, to Technograph Printed Circuits Ltd. Electric capacitor and method of making same. 2,778,762, 1-22-57, Cl. 154—80.
- Eisler, Paul, and E. Hauser, to Technograph Printed Circuits Ltd. Printed electric circuits and electric circuit components. 2,785,280, 3-12-57, Cl. 219—69.
- Eisler, Paul, and E. Hauser, to Technograph Printed Circuits Ltd. Variable capacitors. 2,789,259, 4-16-57, Cl. 317—249.
- Eismann, Helmut, W. Jahn, and G. Lange, to C. Zeiss. Photographic objective having three meniscus shaped elements air spaced apart. 2,780,138, 2-5-57, Cl. 88—57.
- Eismann, William. Mobile baling press. 2,816,502, 12-17-57, Cl. 100—100.
- Eisner, Burton D.: *See—*
- Briggs, Lloyd A., Lehrer, and Eisner. 2,786,401.
- Eisner, Burton D., H. G. Miller, Jr., and W. M. Lehrer, to American Photocopy Equipment Co. Photo-copy machine. 2,783,697, 3-5-57, Cl. 95—77.5.
- Eisner, Franz F.: *See—*
- Carlsson, Bengt O., and Eisner. 2,803,556.
- Eisner, Jack, to Castle Offset-Printing Corp. One piece foldable display box and book combinations and method of making them. 2,799,391, 7-16-57, Cl. 206—47.

- Eissfeldt, Werner, to J. G. J. Metzner. Pull-down claw mechanism for cinematographic cameras. 2,787,189, 4-2-57, Cl. 88—18.4.
- Eitel-McCullough, Inc.: *See—*
 La Forge, Louis H., Jr. 2,780,561.
 La Forge, Louis H., Jr. 2,798,577.
 Murdock, Clayton E. 2,812,466.
 Murdock, Clayton E. and Woerner. 2,814,751.
 Polese, James P. 2,814,750.
 Sorg, Harold E. and Drieschman. 2,794,933.
- Eitel, William W., Jr. and J. H. Bantz, to Westinghouse Electric Corp. Optical image projection system for cameras and fluoroscopic apparatus. 2,812,687, 11-12-57, Cl. 88—24.
- Ekblom, John O. and L. E. Ravich, to Hupp Corp. Switching circuit. 2,791,724, 5-7-57, Cl. 315—153.
- Ekco-Alcoa Containers, Inc.: *See—*
 Schmied, Joseph M. 2,813,465.
- Ekco Products Co.: *See—*
 Gordon, Anthony. 2,797,654.
 Hvale, James L. 2,779,959.
 Kollman, Jack and Beck. 2,779,497.
 Newman, Charles H. 2,812,116.
- Ekholm, Carl R. and R. L. Krabbe, to Flexonics Corp. Tube bending apparatus and method. 2,777,500, 1-15-57, Cl. 153—40.
- Ekholm, Cecil R. Conveying system having diverting means. 2,814,378, 11-26-57, Cl. 198—185.
- Ekholm, Wesley C. and G. L. Heller, to Columbian Carbon Co. Carbon black. 2,813,009, 11-12-57, Cl. 23—209.6.
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 Simpson, Lester C., and Merrill. 2,785,319.
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- Elbel, Roy E.: *See—*
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- Eldred, John W. Continuous glass molding machine. 2,811,815, 11-5-57, Cl. 49—36.
- Eldredge, Robert B. Treatment of ores and metallurgical products. 2,815,263, 12-3-57, Cl. 23—14.5.
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- Electra Mfg. Co.: *See—*
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- Electric Machinery Mfg. Co.: *See—*
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- Electric Stop Nut Corp. of America: *See—*
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- Electrodynamics Corp.: *See*—
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- Electro-Flasher Co.: *See*—
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- Electroflo Meters Co. Ltd.: *See*—
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- Electrographic Corp.: *See*—
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- Electrolux Corp.: *See*—
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Brown, Raymond L. 2,789,660.
Clark, Murray P., and Anderson. 2,779,255.
Ferraris, John T. 2,817,414.
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- Electro-Mechanical Products Co.: *See*—
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Lemmer, Clarence G. 2,801,839.
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- Electrotherm Research Corp.: *See*—
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- Electro-Way Corp.: *See*—
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- Electronic Instrument Co., Inc.: *See*—
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- Elfgren, Ernest T. Wire container structure. 2,804,227, 8-27-57, Cl. 220-4.
- Elfvig, Claes T.: *See*—
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- Elfvig, Thore M. and C. T. Refrigerant condensing unit. 2,813,405, 11-19-57, Cl. 62-117.8.
- El-Ge Vending Co.: *See*—
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- Elges, Joseph A. Fountain brush. 2,808,604, 10-8-57, Cl. 15-138.
- Elgin American, Inc.: *See*—
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- Elgin, Gustavus S. Improved humidifier system. 2,804,067, 8-27-57, Cl. 126-113.
- Elgin Instrument Co.: *See*—
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- Elias, Nathaniel M. Spermicidal composition. 2,777,796, 1-15-57, Cl. 167-58.
- Eliaison, Edgar D. Harvesting pickup with reciprocating reel. 2,817,946, 12-31-57, Cl. 56-364.
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- Elilot, Warner A., to Fairchild Camera and Instrument Corp. Automatic-gain-control system for photoelectric engraving machines. 2,804,497, 8-27-57, Cl. 178-7.1.
- Eljanian, George, and P. J. Andonian. Joining separate molded sections of polyethylene. 2,803,865, 8-27-57, Cl. 24-204.
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- Elkin, Harold F., to Sun Oil Co. Apparatus for elevating granular solids. 2,818,307, 12-31-57, Cl. 302-59.
- Elkin, Hugh W.: *See*—
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- Elkin, Robert D. Device for drawing curves through a plurality of plotted points. 2,785,472, 3-19-57, Cl. 33-177.
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- Elkins, Ira D.: *See*—
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- Elkins, Randell L., to Shell Development Co. Well clean-out method. 2,811,209, 10-29-57, Cl. 166-38.
- Elkins, William R. Device for the measurement of irregular areas. 2,785,468, 3-19-57, Cl. 33-121.
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- Elling, Delmar O. Mounting carriage for vehicle wheels. 2,804,222, 8-27-57, Cl. 214-330.
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- Ellinger, Don C., to Downing Box Co. Apparatus for forming folded reinforcements on box blanks. 2,775,923, 1-1-57, Cl. 93-49.
- Ellinger, Earl H. Adjustable scaffolding. 2,803,502, 8-20-57, Cl. 304-5.
- Ellingsworth, William H. Perambulatory arc welder. 2,815,083, 12-3-57, Cl. 180-19.
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- Ellins, Arthur, to Federal Machine & Tool Co., Inc. Mixing device for frozen desserts. 2,793,841, 5-28-57, Cl. 259-108.
- Elliott, William H., to Cutler-Hammer Inc. Load current and voltage control means for electrical systems. 2,778,983, 1-22-57, Cl. 318-331.
- Elliott, William H., to Cutler-Hammer, Inc. Electronic motor controllers. 2,785,368, 3-12-57, Cl. 318-331.
- Elliott, William H., to Cutler-Hammer, Inc. Electronic timer. 2,790,115, 4-23-57, Cl. 317-142.
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- Elliott, Brantford G., to Harry Ferguson, Inc. Feed roll supporting mechanism. 2,775,991, 1-1-57, Cl. 146-118.
- Elliott Brothers (London) Ltd.: See—
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- Elliott Co.: See—
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- Elliott, Frank S., Jr., to Skinner & Kennedy Co. Desk calendar construction. 2,783,565, 3-5-57, Cl. 40-120.
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- Elliott, George, to General Dynamics Corp. Electronic switches. 2,816,238, 12-10-57, Cl. 307-88.5.
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- Elliott, Harold V., to General Motors Corp. Electric switches. 2,785,255, 3-12-57, Cl. 200-153.
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- Elliott, Kenneth M., to Socony Mobil Oil Co., Inc. Process of retorting of oil shale. 2,796,390, 6-18-57, Cl. 202-6.
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- Elliott, Richard M., to United Shoe Machinery Corp. Apparatus for testing processes. 2,798,375, 7-9-57, Cl. 73-1.
- Elliott, Stanley B., to Ferro Corp. Light sensitive composition and photographic process using same. 2,789,052, 4-16-57, Cl. 96-27.
- Elliott, Stanley B., to Ferro Corp. Photographic process using a light sensitive resin composition. 2,789,053, 4-16-57, Cl. 96-27.
- Elliott, Taylor M. Indicating device. 2,780,686, 2-5-57, Cl. 200-56.
- Elliott, Thomas H.: See—
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- Ellis, Cadwalader H. Child's merry-go-round. 2,785,896, 3-19-57, Cl. 272-33.
- Ellis, Calvin L., to General Electric Co. Amplifier with plural inputs and parallel output. 2,807,679, 9-24-57, Cl. 179-171.
- Ellis, Carlos B.: See—
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- Ellis, Charles A.: See—
Brozek, John S., and Ellis. 2,805,880.
- Ellis, Charles A., to Sargent & Co. Screen door latch. 2,776,157, 1-1-57, Cl. 292-126.
- Ellis, Charles A., to Sargent & Co. Doorknob and spindle structure. 2,779,184, 1-29-57, Cl. 70-216.
- Ellis, Charles A., to Sargent & Co. Interlocking lock mechanism for communicating doors. 2,798,372, 7-9-57, Cl. 70-264.
- Ellis, Charles A., and H. B. Cole, to American Optical Co. Vision testing devices. 2,798,408, 7-9-57, Cl. 88-20.
- Ellis, Charles R., to General Electric Co. Variable inductance coupling loop. 2,794,960, 6-4-57, Cl. 333-24.
- Ellis, David A., and R. O. Lindblom, to the United States of America as represented by the United States Atomic Energy Commission. Process for recovery of uranium and vanadium from carbonate solutions by reduction-precipitation. 2,807,518, 9-24-57, Cl. 23-14.5.
- Ellis, David G., to The Harshaw Chemical Co. Electrodeposition of nickel. 2,784,152, 3-5-57, Cl. 204-49.
- Ellis, Edwin E. Awning support. 2,808,065, 10-1-57, Cl. 135-5.
- Ellis-Foster Co.: See—
Rust, John B., and Spialter. 2,788,280.
Rust, John B., and Spialter. 2,813,839.
- Ellis, Greer. Apparatus for indicating variables on oscillograph with X and Y axes. 2,778,972, 1-22-57, Cl. 315-24.
- Ellis, Guy P. Pipe cutter. 2,796,123, 6-18-57, Cl. 164-6.
- Ellis, Horace R. Sign post. 2,814,140, 11-26-57, Cl. 40-125.
- Ellis, Hubert C. Centrifugal extractor. 2,787,377, 4-2-57, Cl. 210-138.
- Ellis, Jack J. Convertible material working machine having a tiltable bed and slidably and rotatably adjustable head stock and tailstock. 2,800,154, 7-23-57, Cl. 144-1.
- Ellis, Jack T. Fishing line carrying device. 2,803,914, 8-27-57, Cl. 43-26.1.
- Ellis, Jefferson P., to Celanese Corp. of America. Packing of yarn packages. 2,792,112, 5-14-57, Cl. 206-65.
- Ellis, John G., and V. Dvorkovitz, to The Diversey Corp. Stable solid disinfectant compositions. 2,815,311, 12-3-57, Cl. 167-18.
- Ellis, John L.: See—
Goetzel, Claus G., and Ellis. 2,798,810.
- Ellis, Kenneth A., to Baker Mfg. Co. Reciprocating pump. 2,812,720, 11-12-57, Cl. 103-175.
- Ellis, Richard B., to Callery Chemical Co. Production of elemental boron by fused salt electrolysis. 2,810,683, 10-22-57, Cl. 204-60.
- Ellis, Robert B.: See—
Stolle, Anthony D., and Ellis. 2,801,305.
- Ellis, Robert W. C.: See—
Milrod, Murray, and Ellis. 2,794,393.
- Ellis, Samuel B. Voltage regulating circuit. 2,779,897, 1-29-57, Cl. 315-151.
- Ellis, Sidney G., to Radio Corp. of America. Electron-optical apparatus. 2,782,335, 2-19-57, Cl. 313-84.
- Ellis, Sidney G., to Radio Corp. of America. Method of treating semi-conductor devices and devices produced thereby. 2,812,480, 11-5-57, Cl. 317-240.
- Ellis, Sidney G., to Radio Corp. of America. Radiant energy detection. 2,816,234, 12-10-57, Cl. 250-83.3.
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- Ellis, Stanley P. J., to Blaw Knox Ltd. Apparatus for storing and transporting powdered material. 2,793,085, 5-21-57, Cl. 302-55.
- Ellis, Steven G.: See—
Atkinson, Ralph B., and Ellis. 2,806,904.
- Ellis, Truman V.: See—
Cardinal, Durand D., and Ellis. 2,807,365.
- Ellis, Warren C., Jr., to Stauffer Chemical Co. Oxidation-resistant oleaginous materials. 2,800,491, 7-23-57, Cl. 260-398.5.
- Ellison, Arnold B. Computers. 2,792,992, 5-21-57, Cl. 235-79.5.
- Ellison, Henry H., and P. E. Wightman. Differential meter. 2,787,736, 4-2-57, Cl. 317-123.
- Ellison, Leslie J.: See—
Richards, Edward A., and Ellison. 2,817,047.
- Ellison, Luther A. Power mower control mechanism. 2,792,718, 5-21-57, Cl. 74-486.
- Ellison, Lynn E.: See—
Marsh, Glenn A., and Ellison. 2,796,583.

- Ellman, Jacob L. Detachable handle mop. 2,810,150, 10-22-57, Cl. 15-244.
- Ellms, Robert W., to The Osborn Mfg. Co. Mechanical movement and rock-over device utilizing the same. 2,775,800, 1-1-57, Cl. 22-33.
- Ells, Victor R., to The Norwich Pharmacal Co. Stabilized aqueous solution of nitrofurazone. 2,812,282, 11-5-57, Cl. 167-53.1.
- Ellson, Douglas G. Multi-purpose rotating mount and drive for tractor-operated equipment. 2,794,382, 6-4-57, Cl. 97-46.41.
- Ellsworth, Ivan W., and K. S. Johnson. Apparatus for simultaneous photographic printing and developing. 2,817,279, 12-24-57, Cl. 95-73.
- Ellsworth, Phil: See—
Dusenbury, Theodore P., Ellsworth, and Warren. 2,816,755.
- Ellsworth, Robert B.: See—
Bryant, Louis D. 2,780,031.
- Ellzey, Floyd P. Method of making a spirally wrapped multi-layer tube. 2,786,435, 3-26-57, Cl. 113-116.
- Elmcroft Corp.: The: See—
Garsson, Henry M. 2,785,452.
Garsson, Henry M. 2,786,250.
Garsson, Henry M. 2,788,557.
- Elmer, Gilbert C.: See—
Grosz, Frank, and Elmer. 2,784,662.
- Elmer, Otto C., and E. R. Christensen, to The Texas Co. Fungicidal coating composition containing thianaphthene carboxylic acid salt. 2,781,289, 2-12-57, Cl. 167-33.
- Elmer, William B. Street lighting luminaire. 2,786,130, 3-19-57, Cl. 240-25.
- Elming, Niels: See—
Clauson-Kaas, Niels K. F. W., and Elming. 2,806,852.
Clauson-Kaas, Niels K. F. W., Elming, and Nielsen. 2,802,009.
- Elmore, Daniel B. Launching and trailer attachments. 2,792,232, 5-14-57, Cl. 280-47.13.
- Elmore, Robert T.: See—
Loomis, Glenn L. 2,780,294.
- Elms, Edwin F., to R. L. Brown. Fastener. 2,783,512, 3-5-57, Cl. 24-73.
- Elms, Edwin F., to R. L. Brown. Fastener for corner moldings. 2,783,513, 3-5-57, Cl. 24-73.
- Elms, Frank: See—
Peckham, Roy, and Elms. 2,787,033.
- Elman, Odin R. S.: See—
Cairnes, Charles W., and Elman. 2,779,464.
- Elofson, Harry. Readily attachable and detachable straw disintegrating and scattering device. 2,810,583, 10-22-57, Cl. 275-3.
- Eloranta, Vaito K., to Polaroid Corp. Photographic apparatus, including fluid-spreading and sheet-arresting mechanism. 2,769,488, 4-23-57, Cl. 95-13.
- Elox Corp. of Michigan: See—
Matulaitis, Victor E. 2,783,411.
Matulaitis, Victor E. 2,794,152.
Matulaitis, Victor E. 2,800,566.
Matulaitis, Victor E. 2,804,575.
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Matulaitis, Victor E. 2,818,491.
- El-Re-Ma S. A. per lo sfruttamento di brevetti: See—
Hoppe, Walter. 2,794,153.
- Elsasser, Viktor, to J. P. Bemberg A. G. Shower head type spinning nozzle for the cuprammonium process. 2,807,831, 10-1-57, Cl. 18-8.
- Elsbernd, Carl A., to Burton-Rodgers Inc. Knockdown display structure. 2,808,221, 10-1-57, Cl. 248-197.
- Elsden-King, Herbert E., and S. R. Gittins, to Tipdex (Holdings) Ltd. Cabinets. 2,779,653, 1-29-57, Cl. 312-326.
- Elsden-King, Herbert E., and S. R. Gittins, to Tipdex (Holdings) Ltd. Cabinets. 2,785,036, 3-12-57, Cl. 312-327.
- Else, Harry D., to Westinghouse Electric Corp. Vaporization cooled dynamoelectric machine. 2,780,738, 2-5-57, Cl. 310-54.
- Elsey, Howard M., to Westinghouse Electric Corp. Electrical brush and dynamoelectric apparatus embodying the same. 2,780,743, 2-5-57, Cl. 310-228.
- Elsey, Warren R., $\frac{1}{2}$ to P. H. Griffith. Supporting means for fuses and the like. 2,795,386, 6-11-57, Cl. 248-46.
- Elsey, Warren R., $\frac{1}{2}$ to P. H. Griffith. Supporting means for fuses and the like. 2,795,387, 6-11-57, Cl. 248-46.
- Elsken, Richard H.: See—
Shaw, Thomas M., and Elsken. 2,799,823.
- Elsner, George S.: See—
Dirksen, Arnold D., and Elsner. 2,784,304.
- Elsner, Horst: See—
Fuchs, Otto, and Elsner. 2,795,570.
- Elson, David W.: See—
Arbon, Robert S., Elson, and Hunt. 2,786,892.
- Elson, David W., to The General Electric Co. Ltd. Electric signalling systems of the kind using pulse code modulation. 2,790,953, 4-30-57, Cl. 332-11.
- Elsner, Richard, to American Enka Corp. Spinning apparatus. 2,799,895, 7-23-57, Cl. 18-8.
- Elston, Arthur A., to E. I. du Pont de Nemours and Co. Method for bleaching vegetable oils. 2,795,595, 6-11-57, Cl. 260-423.
- Elton, Byron G., to The Dunham Co. Unloading end gate for vehicles. 2,810,486, 10-22-57, Cl. 214-82.
- Elvander, Hans I. Method and apparatus for producing molten iron. 2,795,497, 6-11-57, Cl. 75-41.
- Elvingson, Carl-Olof: See—
Krantz, Karl G. E., Bergman, Elvingson, and Karlsson. 2,815,860.
- Elwell Parker Electric Co., The: See—
Draxler, John A. 2,790,513.
Vance, Robert G. 2,815,878.
- Elwess, Roy. Method of drying grain. 2,799,947, 7-23-57, Cl. 34-15.
- Elwood, John T.: See—
Myrent, Harry L., and Elwood. 2,802,081.
- Elwood Research Co., The: See—
Freiberger, Herman. 2,803,013.
- Ely, Frederic G.: See—
Romer, John B., Phillips, Kooistra, and Ely. 2,800,172.
- Elzea, Douglas W. Wheelbarrow attachment. 2,805,885, 9-10-57, Cl. 296-36.
- Emanuelli, Luigi, to Pirelli Società per Azioni. Gas-pressure electric cables. 2,799,720, 7-16-57, Cl. 17-25.
- Emary, Robert J.: See—
Delon, Edwin, and Emary. 2,793,681.
- Emary, Robert J., to The Colson Corp. Reclinable chair construction. 2,792,876, 5-21-57, Cl. 155-158.
- Embee, John M., to Minneapolis-Honeywell Regulator Co. Pressure compensated seal. 2,779,197, 1-29-57, Cl. 74-18.1.
- Embury, Lloyd E. Internal combustion engine. 2,786,459, 3-26-57, Cl. 123-56.
- Emco Brass Mfg. Co. Ltd.: See—
Judd, William F. 2,809,666.
- Emco Porcelain Enamel Co., Inc.: See—
Wallace, Donald A. 2,784,047.
- Emels, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing rod-shaped bodies of crystalline material. 2,793,103, 5-21-57, Cl. 23-301.
- Emele, Günther W., to Krauss-Maffei Aktiengesellschaft. Connecting-rod bearing. 2,780,502, 2-5-57, Cl. 308-23.
- Emerick, Lloyd C., and W. C. Welsh, to Sylvania Electric Products Inc. Locating mechanism. 2,818,320, 12-31-57, Cl. 316-30.
- Emerson, Alfred. Fountain pen. 2,796,850, 6-25-57, Cl. 120-46.
- Emerson, Dell W. Strain releasable ski binding. 2,788,981, 4-16-57, Cl. 280-11.35.
- Emerson Electric Mfg. Co., The: See—
Eckles, Howard W. 2,783,317.
- Emerson, John: See—
Hiatt, Gordon D., and Emerson. 2,794,799.
- Emerson, John H. Chest respirator. Re. 24,357, 9-17-57, Cl. 128-30.
- Emerson-Pryne Co.: See—
Pryne, Ralph. 2,810,009.
- Emerson Radio and Phonograph Corp.: See—
Jones, Lester L. 2,794,155.
Kasimir, Bernard. 2,787,717.
- Emerson, Roy J. Speed trigger. 2,775,836, 1-1-57, Cl. 42-69.
- Emerson, William S.: See—
Wildt, Bernard S. 2,818,437.
- Emerson, William S., and B. S. Wildt, to Monsanto Chemical Co. Organic peroxides. 2,795,618, 6-11-57, Cl. 260-610.
- Emery, Alfred H. Multi-range adjustable dial indicator gauge. 2,799,941, 7-23-57, Cl. 33-172.
- Emery, Geraldine H. Drop front panel girdle. 2,782,415, 2-26-57, Cl. 2-38.
- Emery Industries, Inc.: See—
Aylesworth, Robert D. 2,792,348.
Aylesworth, Robert D., and Stegemeyer. 2,795,492.
Barrett, Fred O., Goebel, and Peters. 2,793,219.
Barrett, Fred O., Goebel, and Peters. 2,793,220.
Goebel, Charles G., Brown, Oehlschlaeger, and Rolfes. 2,813,113.
Peters, Robert M. 2,812,342.
Stegemeyer, Lou A. 2,792,347.
- Emery, John L., and R. T. W. Liang, to Burroughs Corp. Magnetic torque transmitting devices. 2,806,158, 9-10-57, Cl. 310-103.
- Emery, Richard L. Packaging with molded pulp cushioning pads. 2,778,490, 1-22-57, Cl. 206-65.
- Emery, Richard L., to Keyes Fibre Co. Molded pulp valve tray and package. 2,783,879, 3-5-57, Cl. 206-65.
- Emery, Richard L., to Keyes Fibre Co. Molded pulp plant container. 2,814,427, 11-26-57, Cl. 229-2.5.
- Emhart Mfg. Co.: See—
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Holstebro, Kaye B. 2,805,533.
Holstebro, Kaye B., and Lippincott. 2,815,623.
Jennings, Frank C. 2,781,576.
Kulig, Constantine W. 2,781,575.
Park, Robert H. 2,796,914.
Wythe, Frederick J. 2,812,619.
- Emhiser, Donald E., to Pittsburgh Plate Glass Co. Refractory compositions and bonding agents therefor. 2,793,128, 5-21-57, Cl. 106-64.
- Emil Pauls, Ingolf F. F., and R. R. A. Quatz. Process for brewing a special beer. 2,783,147, 2-26-57, Cl. 99-38.
- Emley, Edward F., to Magnesium Elektron Ltd. Composition for introducing zirconium into magnesium and method of making same. 2,788,271, 4-9-57, Cl. 75-93.
- Emley, Philip W., and C. F. Robbins, to Cutler-Hammer, Inc. Speed control apparatus for induction motors. 2,814,009, 11-19-57, Cl. 318-238.

- Emmerling, Edward M. Garment hangers. 2,786,618, 3-26-57, Cl. 223-98.
- Emmerling, Edward M. Garment hanger. 2,797,031, 6-25-57, Cl. 223-88.
- Emmert, Dale C., and K. E. Vail. Method and apparatus for producing flat fiberglass reinforced plastic panels. 2,782,458, 2-26-57, Cl. 18-1.
- Emmert, George W., to Federal Tool Corp. Tape dispenser. 2,776,095, 1-1-57, Cl. 242-55.5.
- Emmert, George W., to Federal Tool Corp. Tape dispenser. 2,814,383, 11-26-57, Cl. 206-52.
- Emmert, George W., and J. O. Reinecke; said Reinecke assor. to said G. W. Emmert. Pitcher construction. 2,805,561, 9-10-57, Cl. 65-66.
- Emmett, Paul H., to Gulf Research & Development Co. Composite materials and processes for making the same. 2,779,742, 1-29-57, Cl. 252-455.
- Emmons, Arthur N., to The Porter-Cable Machine Co. Abrading element. 2,784,482, 3-12-57, Cl. 29-81.
- Emmons, Arthur N., to The Porter-Cable Machine Co. Grass cutter blade mounting. 2,800,759, 7-30-57, Cl. 56-25.4.
- Emmons, Arthur N., and J. G. Bentley, to The Porter-Cable Machine Co. Grass trimmer. 2,793,485, 5-28-57, Cl. 56-25.4.
- Emmons, Joseph V., to The Cleveland Twist Drill Co. Acoustical tile drill. 2,792,862, 5-21-57, Cl. 145-117.
- Emmons, Kenneth, to General Electric Co. Paper sleeve lamp wrapper. 2,798,596, 7-9-57, Cl. 206-46.
- Emmons, Nelson, III: *See—*
- Tangeman, Urban B., and Emmons. 2,802,360.
- Emmons, Nelson, III, to The Sheffield Corp. Gaging float for indicating rate of flow. 2,805,573, 9-10-57, Cl. 73-209.
- Emmons, Nelson, III, to The Sheffield Corp. Pneumatic gauging device. 2,806,370, 9-17-57, Cl. 73-37.5.
- Emmons, Robert A., to S & L Sales, Inc. Heat barrier container with means to supply tempered gas to replace discharged tempered liquids. 2,781,948, 2-19-57, Cl. 222-1.
- Empire Brushes, Inc.: *See—*
- Schwartz, Harold H., and Tucker. 2,790,986.
- Empire Electronics, Inc.: *See—*
- Mossington, Manlius C. 2,804,934.
- Empire Steel Products Corp.: *See—*
- Howell, George B. 2,782,680.
- Emrick, Agnes G.: *See—*
- Emrick, Robert G. 2,809,845.
- Emrick, Homer R., to Emrick, Inc. Multiple purpose machine tool. 2,784,752, 3-12-57, Cl. 144-1.
- Emrick, Inc.: *See—*
- Emrick, Homer R. 2,784,752.
- Emrick, Melvin H. Sealed forward and reverse drive for a tapper. 2,778,238, 1-22-57, Cl. 74-377.
- Emrick, Melvin H. Flexible drive multiple chuck heads. 2,790,646, 4-30-57, Cl. 279-1.
- Emrick, Melvin H. Reversing drive for lead screw tapping units. 2,809,533, 10-15-57, Cl. 74-472.
- Emrick, Robert G., deceased; A. G. Emrick, administratrix. Quick detachable and adjustable die holder chucks. 2,809,845, 10-15-57, Cl. 279-82.
- Emslie, Alfred G.: *See—*
- Arenberg, David L., and Emslie. 2,788,520.
- Emulsol Egg Products Corp., The: *See—*
- Joffe, Morris H., and Lipschultz. 2,776,119.
- Enabnit, Robert S., to The Goodyear Tire & Rubber Co. Sawtooth waveform generator. 2,790,904, 4-30-57, Cl. 250-36.
- Enamelstrip Corp.: *See—*
- Uhleen, Arthur E. 2,784,697.
- Enchelmaier, Harvard W. K.: *See—*
- Enchelmaier, William F., and H. W. K. 2,797,966.
- Enchelmaier, William F., and H. W. K. Apparatus for making brushes. 2,797,966, 7-2-57, Cl. 300-2.
- Enckevoort, Victor H. Sash lock. 2,802,682, 8-13-57, Cl. 292-128.
- Enco Magnetic Tool Co.: *See—*
- Benes, Gordon J. 2,817,546.
- En Dean, Howard J., to Gulf Research & Development Co. Storm choke for oil wells. 2,785,755, 3-19-57, Cl. 166-72.
- En Dean, Howard J., to Gulf Research & Development Co. Positive-action storm choke for dual-zone completions. 2,796,133, 6-18-57, Cl. 166-73.
- Enderlein, Dieter: *See—*
- Thuermel, Eberhard, Siebertz, Henker, and Enderlein. 2,817,048.
- Endermann, Fritz: *See—*
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- Enders, Edgar: *See—*
- Dittmar, Gerhard, Enders, and Pütter. 2,802,817.
- Dorlars, Alfons, Bayer, and Enders. 2,804,455.
- Enders, Edgar, and H. F. Piepenbrink, deceased, by U. B. Piepenbrink, administratrix, to Farbenfabriken Bayer Aktiengesellschaft. Monoazo dyestuffs. 2,785,158, 3-12-57, Cl. 260-199.
- Enders, Edgar, and A. Muller, to Farbenfabriken Bayer Aktiengesellschaft. 3-benzhydryl-4-hydroxycoumarins and their preparation. 2,816,899, 12-17-57, Cl. 260-343.2.
- Endicott, Clarence J.: *See—*
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- Endicott, Clarence J., and E. R. Dalton, to Abbott Laboratories. Calcium cyclamate tablet and process of making the same. 2,784,100, 3-5-57, Cl. 99-141.
- Endicott Johnson Corp.: *See—*
- Shultz, Edward L. 2,795,868.
- Endo Laboratories Inc.: *See—*
- Schiesinger, Albert, and Gordon. 2,793,226.
- Schiesinger, Albert, and Gordon. 2,813,861.
- Endres, Herbert A., J. W. Shaw, Jr., and H. B. Pullar, to The Goodyear Tire & Rubber Co. Rubber barytes compositions and methods of preparation. 2,809,179, 10-8-57, Cl. 260-41.5.
- Endres, Leo J., and G. H. Anderson, to Carter Machine & Tool Co. Vehicle tail gate. 2,797,960, 7-2-57, Cl. 296-61.
- Endres, Richard O.: *See—*
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- Rajchman, Jan A., Stuart-Williams, and Endres. Re. 24,359.
- Endrezze, William E. Concussion breaker. 2,798,446, 7-9-57, Cl. 114-16.
- Endter, Waldemar A. Car door lock. 2,786,348, 3-26-57, Cl. 70-149.
- Enenstein, Norman H., to Hughes Aircraft Co. Multiple response-wave guide discriminator. 2,806,140, 9-10-57, Cl. 250-27.
- Engberg, William M., and W. D. Wells. Hand apparatus for controlling brakes and accelerators. 2,777,335, 1-15-57, Cl. 74-481.
- Engel, Noble. Fastener. 2,803,478, 8-20-57, Cl. 292-96.
- Engel, Charles F. Sheet metal flanger of the roller type. 2,804,905, 9-3-57, Cl. 153-29.
- Engel, David, Container. 2,798,631, 7-9-57, Cl. 220-4.
- Engel, Ellsworth C.: *See—*
- Williams, Robert E., and Engel. 2,782,048.
- Engel, J. Anthony, J. P. Flannery, and H. E. Hullar, to The Murray Corp. of America. Control for laundry dryers. 2,797,497, 7-2-57, Cl. 34-45.
- Engel, John A., Jr. Magnetic game apparatus. 2,782,038, 2-19-57, Cl. 273-130.
- Engel, Manfred, to Marienberger Mosaikplattenfabrik A. G. Method and device for grinding tiles. 2,817,929, 12-31-57, Cl. 51-80.
- Engel, Willem F., to Shell Development Co. Reforming of gasoline with platinum catalyst and method of regenerating the catalyst. 2,792,337, 5-14-57, Cl. 196-50.
- Engelage, Gunter. Multiple rotary switch. 2,793,258, 5-21-57, Cl. 200-6.
- Engelage, Günther, and L. Padberg, to Regula-King K. G. Spring mechanism for camera. 2,794,520, 6-4-57, Cl. 185-39.
- Engelbart, Keith D., to Northrop Aircraft, Inc. Flex jack. 2,802,635, 8-13-57, Cl. 254-1.
- Engelberg Huller Co., Inc., The: *See—*
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- Engelberger, Joseph F.: *See—*
- Beck, Rudolf, and Engelberger. 2,808,484.
- Engelbert, Richard M. Device for determining the positions of the illi in relation to each other. 2,810,964, 10-29-57, Cl. 33-174.
- Engelder, Arthur E. Apparatus for determining metabolic rates. 2,792,828, 5-21-57, Cl. 128-2.07.
- Engelder, Arthur E. Functional potentiometer. 2,796,502, 6-18-57, Cl. 201-60.
- Engeler, William E., to General Electric Co. Intermediate zone locating servosystem. 2,802,160, 8-6-57, Cl. 318-29.
- Engelhard, Noe N., and H. Loebstein, to Gnome Photographic Products Ltd. Focussing aid for optical projection apparatus. 2,811,078, 10-29-57, Cl. 88-24.
- Engelhard, William F. Method of nitriding ferrous alloys. 2,789,930, 4-23-57, Cl. 148-16.6.
- Engelhardt, Friedrich: *See—*
- Köbel, Herbert, and Engelhardt. 2,786,863.
- Engelhardt, William F. Mounting device. 2,796,690, 6-25-57, Cl. 40-158.
- Engelke, Karl, to Koppers Co., Inc. Tower-type gas purifier. 2,788,263, 4-9-57, Cl. 23-283.
- Engelman, Joseph H., T. A. Haddad, and L. R. Landrey, to Burroughs Corp. Indicator gas tube. 2,802,130, 8-6-57, Cl. 313-110.
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- Engelmann, Helmut M., to Hercules Powder Co. Preparation of pentaerythritol chloroacylates. 2,816,912, 12-17-57, Cl. 260-488.
- Engelmann, Herbert F.: *See—*
- Grieg, Donald D., and Engelmann. 2,800,634.
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- Leitz, Ludwig, Engelmann, and Schneider. 2,791,937.
- Engels, Christiaan: *See—*
- Heijnis, James W. I., and Engels. 2,786,674.
- Engelsman, Tennis: *See—*
- Dethmers, Robert, and Engelsman. 2,786,358.
- Engelson, George E.: *See—*
- Wendell, Charles B., Jr., and Engelson. 2,780,525.
- Engelsted, John N.: *See—*
- Bushey, Esmonde J., and Engelsted. 2,796,703.
- Engemann, Herbert H. Clearance regulator for valve operating linkage. 2,791,206, 5-7-57, Cl. 123-90.
- Enger-Kress Co.: *See—*
- Anderson, Jac B. 2,777,494.
- Landdeck, Roland. 2,781,810.
- Engine Parts Mfg. Co., The: *See—*
- Stetz, Robert J., Hill, and Rogers. 2,815,889.
- Engineered Products Co., The: *See—*
- Saxton, Millard F. 2,792,249.

- Engineering Development Corp.: See—
Schaefer, Ernest R., and Kessler. 2,812,769.
- Engineering Laboratories, Inc.: See—
Carle, Guy F., and Baker. 2,783,971.
Edwards, Richard H. 2,814,780.
Fuller, William D. 2,786,942.
Pike, Carl M., and Xeros. 2,814,464.
- England, David C., to E. I. du Pont de Nemours and Co.
Preparation of polyfluorocarboxylic acids and amides from
1,1-difluoro-1-alkenes, alkali metal cyanides and water.
2,802,028, 8-6-57, Cl. 260—539.
- Englander Co., Inc., The: See—
Koenigsberg, Max. 2,800,954.
Piliero, James. 2,803,018.
Wetzler, Justin J. 2,794,494.
Wetzler, Justin J. 2,794,495.
Wetzler, Justin J. 2,807,808.
- Engle, Homer A., to Viking Industries, Inc. Servomotor
control system. 2,807,764, 9-24-57, Cl. 318—29.
- Engle, Homer A., to Viking Industries, Inc. Voltage-regulat-
ing system. 2,808,559, 10-1-57, Cl. 323—21.
- Engle, Homer A., and H. M. Greene, Jr., to Viking Industries,
Inc. Incremental motor and stop therefor. 2,797,786,
7-2-57, Cl. 192—142.
- Englehart, John C., C. Johnson, and W. T. Cain, to The Magee
Carpet Co. Attachment for wire looms. 2,790,466, 4-30-57,
Cl. 139—291.
- Englehart, Oscar D., to Pittsburgh Plate Glass Co. Sealing
means for glazing unit. 2,805,452, 9-10-57, Cl. 20—56.5.
- Englemann, Herbert F., to International Telephone and Tele-
graph Corp. Attenuators. 2,810,891, 10-22-57, Cl.
333—81.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington
Co. Conveying and transporting mechanism for elongated
articles. 2,778,476, 1-22-57, Cl. 198—35.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington
Co. Anti-jam arrangement for conveyers. 2,802,560,
8-13-57, Cl. 198—31.
- Engleson, Harry E., and E. Sramek, to F. B. Redington Co.
Article conveying and transferring mechanism. 2,815,112,
12-3-57, Cl. 198—30.
- Englesson, Sixten, ½ to Aktiebolaget Flygt Pumpar. Pump
device. 2,810,345, 10-22-57, Cl. 103—4.
- English, Alfred C., and J. E. Whitfield, to Ingersoll-Rand Co.
Pressure relief valve. 2,805,681, 9-10-57, Cl. 137—508.
- English, Arthur R.: See—
Sobin, Ben A., English, Lees, and Routien. 2,787,580.
- English, Arthur R., and J. H. Kane, to Chas. Pfizer & Co., Inc.
Antibiotic compositions containing oxytetracycline and
polymyxin. 2,813,820, 11-19-57, Cl. 167—65.
- English, Charles C. Lawn sprinkler. 2,816,799, 12-17-57,
Cl. 299—73.
- English Electric Co. Ltd., The: See—
Asbury, Allan. 2,786,974.
Boswell, Arthur C. 2,777,463.
Bradford, Fred. 2,816,686.
Corbett, James P., Sutton, and Ball. 2,807,763.
Cowburn, Clarence D., and Proudlove. 2,817,999.
Dériaz, Paul. 2,801,068.
Fenemore, Alan S. 2,783,399.
Fenemore, Alan S. 2,786,416.
Harris, Richard A. 2,783,956.
Hughes, John O. P., Frankel, and Latoszynski. 2,807,480.
Morgan, John W. H. 2,786,951.
Russell, James L. 2,786,361.
Smart, David L., and Gavrilovic. 2,817,791.
Smart, David L., and Weaver. 2,818,533.
Warrington, Albert R. van C. 2,802,972.
- English Electric Valve Co. Ltd.: See—
Coulson, Robert B. 2,784,340.
Sixsmith, Herbert. 2,815,469.
Young, Arthur J., Esterson, Pickering, and Crook.
2,813,994.
- English, Jackson P.: See—
Lester, Margaret M., and English. 2,790,798.
- English, John R.: See—
Adams, Cecil E., and English. 2,797,551.
- English, Robert R.: See—
Cappelle, Norman D., and English. 2,800,808.
- English, Robert R., to Oak Mfg. Co. High frequency tuning
apparatus. 2,782,315, 2-19-57, Cl. 250—40.
- English Steel Corp. Ltd.: See—
Ballington, Bernard T. 2,780,719.
Smith, Eric W. 2,792,605.
- English, Weber. Spout distributors. 2,799,378, 7-16-57,
Cl. 193—23.
- Engnell, Knute O.: See—
Adams, William J., Jr., and Engnell. 2,813,433.
- Engstrand, Clinton O.: See—
Kimball, Willard B. 2,808,231.
- Engstrom, Carl O.: See—
Papellian, Roger G., Giacomuzzi, and Engstrom. 2,808,308.
- Engstrom, Ernst F. Citrus fruit peeling device. 2,815,370,
12-10-57, Cl. 30—24.
- Engstrom, Knute F.: See—
Klopfenstein, Jess D., Zimmerman, and Engstrom.
2,776,511.
- Engstrom, Lydia. Portable container. 2,800,382, 7-23-57,
Cl. 312—305.
- Engstrom, Ralph W., M. E. Craig, and O. W. Thuler, to Radio
Corp. of America. Photocathode for a multiplier tube.
2,818,520, 12-31-57, Cl. 313—95.
- Engstrom, Russell A. Paper folding and creasing machine.
2,815,205, 12-3-57, Cl. 270—79.
- Enison, Morton. Hand puppet. 2,801,495, 8-6-57, Cl.
46—154.
- Enk, Eduard, and F. Büttner, to Wacker-Chemie G. m. b. H.
Method for producing acetylacetone. 2,787,642, 4-2-57,
Cl. 260—595.
- Ennis, Harlan M. Safety electric coupling. 2,784,385,
3-5-57, Cl. 339—89.
- Ennor, William T., and J. P. Lyle, Jr., to Aluminum Co. of
America. Method of making articles from aluminous metal
powder. 2,809,891, 10-15-57, Cl. 75—226.
- Eno, Robert F., to North American Aviation, Inc. Amplifier.
2,781,420, 2-12-57, Cl. 179—171.
- Enochs, John R.: See—
Phaneuf, Edgar A., Springer, and Enoch. 2,818,518.
- Enos, Herman I., Jr., to Hercules Powder Co. Preparation of
m- and p-diisopropylbenzene. 2,817,687, 12-24-57, Cl.
260—668.
- Enos, Herman I., Jr., to Hercules Powder Co. Preparation of
m- and p-diisopropylbenzene. 2,817,688, 12-24-57, Cl.
260—671.
- Enos, John P., to The Singer Mfg. Co. Work-jogging attach-
ments for sewing machines. 2,788,757, 4-16-57, Cl.
112—160.
- Enright, Maurice A., to Gregory Industries, Inc. Arc brazing
and pins therefor. 2,788,233, 4-9-57, Cl. 287—20.2.
- Enright, Maurice A., to Gregory Industries, Inc. Brazing
housing. 2,806,933, 9-17-57, Cl. 219—99.
- Ensign Carburetor Co.: See—
Ensign, Roy F. 2,777,432.
Ensign, Roy F. 2,795,494.
Ensign, Roy F. 2,799,564.
Ensign, Roy F. 2,814,932.
- Ensign, George G., and T. L. Boswell, to Elgin National
Watch Co. Electrical energy producing cells and method
of making the same. 2,781,414, 2-12-57, Cl. 136—133.
- Ensign, George G., G. T. Soper, and O. Lundahl, to Elgin
National Watch Co. Electric timepiece with power take-off.
2,789,411, 4-23-57, Cl. 58—28.
- Ensign, George G., G. T. Soper, and O. Lundahl, to Elgin
National Watch Co. Power take-off device with staggered
ratchets. 2,800,763, 7-30-57, Cl. 58—28.
- Ensign Ribbon Burners, Inc.: See—
Wildermann, Otto. 2,807,320.
- Ensign, Robert H.: See—
Wasseng, Seymour D., and Ensign. 2,808,222.
- Ensign, Robert H., and D. C. Holloway, to Hough Mfg. Corp.
Accordion doors. 2,801,687, 8-6-57, Cl. 160—84.
- Ensign, Roy F., to Ensign Carburetor Co. Gas fuel feed sys-
tems, and pressure regulators, with safety cut-offs, for
internal combustion engines and the like. 2,777,432,
1-15-57, Cl. 123—120.
- Ensign, Roy F., to Ensign Carburetor Co. Starting and idling
system for gaseous fuel feeds. 2,795,494, 6-11-57, Cl. 48—
184.
- Ensign, Roy F., to Ensign Carburetor Co. Gaseous fuel feed
systems for internal combustion engines. 2,799,564,
7-16-57, Cl. 48—184.
- Ensign, Roy F., to Ensign Carburetor Co. Fluid vaporizing
pressure regulator. 2,814,932, 12-3-57, Cl. 62—1.
- Ensinger, Earl H. Hopper conveyor. 2,779,508, 1-29-57,
Cl. 222—178.
- Ensink, Anthony L. Planographic printing plate. 2,806,424,
9-17-57, Cl. 101—149.2.
- Ensink, Johannes: See—
Scholten, Jacob W., and Ensink. 2,794,860.
- Ensink, Johannes, and J. Verhagen, to Hartford National Bank
and Trust Co., as trustee. Stabilized transistor oscillator.
2,776,372, 1-1-57, Cl. 250—36.
- Ensink, Johannes, and W. Hermes, to North American Philips
Co., Inc. Automatic frequency control. 2,794,919, 6-4-57,
Cl. 250—36.
- Ensley, Horton H. Aerial roundabout toy. 2,779,595,
1-29-57, Cl. 272—31.
- Ensminger, Dale: See—
Kunz, Eric C., and Ensminger. 2,798,673.
- Ensor, Arthur J. Filing device. 2,816,379, 12-17-57, Cl.
40—130.
- Ensslin, Hellmut, and K. Meier, to Ciba Pharmaceutical Prod-
ucts, Inc. N-methyl carbamic acid esters of acetylenic
carbinols. 2,798,885, 7-9-57, Cl. 260—482.
- Enterprise Aluminum Co., The: See—
Sill, Gurdon G. 2,809,577.
- Enterprise Division of General Metals Corp., The: See—
Morris, Donald W. 2,815,680.
- Enterprise Division of Silco Co.: See—
Frank, Robert H. 2,795,958.
- Enterprise Railway Equipment Co.: See—
Dath, George E. 2,810,355.
Dath, George E. 2,810,356.
Dath, George E. 2,810,357.
Dath, George E. 2,818,032.
Dorey, George B. 2,778,319.
Dorey, George B. 2,791,973.
Dorey, George B. 2,810,358.
- Entron, Inc.: See—
Diambra, Henry M., and Edlen. 2,782,379.
- Entwistle, Donald, and S. Robertson, to Courtaulds Ltd.
Production of coloured filaments, fibers, threads, and the
like. 2,783,158, 2-26-57, Cl. 106—165.

- Entwistle, James, to the United States of America as represented by the United States Atomic Energy Commission. Pump cylinder assembly. 2,782,081, 2-19-57, Cl. 309-3.
- Entwistle, John E., to Harvard Mfg. Co. Control means for movable divans. 2,786,212, 3-26-57, Cl. 5-12.
- Entz, Gerhard B., to Southwest Industrial Products, Inc. Power cylinders and pistons for hydraulic presses, jacks and the like. 2,811,950, 11-5-57, Cl. 121-38.
- Envoldsen, Karl C. Shrimp grader. 2,776,746, 1-8-57, Cl. 209-102.
- Epley, Frederic L., to Combustion Engineering, Inc. Control of heat absorption in steam superheater. 2,804,853, 9-3-57, Cl. 122-479.
- Eppens, Smith Co., Inc.: See—
Dannenhoffer, Nicholas, and Einsle. 2,787,548.
- Epperson, John C. Street lighting fixture. 2,800,576, 7-23-57, Cl. 240-25.
- Eppich, Elizabeth. Hair curler. 2,792,843, 5-21-57, Cl. 132-43.
- Eppich, John E., to The Lincoln Electric Co. Method of manufacturing commutators. 2,795,841, 6-18-57, Cl. 29-155.54.
- Eppig, Henry J., to Westinghouse Electric Corp. Photoflash lamp and mount therefor. 2,783,632, 3-5-57, Cl. 67-31.
- Eppig, Henry J., to Westinghouse Electric Corp. Photoflash lamp. 2,816,406, 12-17-57, Cl. 53-21.
- Eppley Laboratory, Inc., The: See—
Vincent, George D. 2,816,946.
- Epprecht, Edward H., to American Instrument Co., Inc. Thermocouple assembly for fluid lines. 2,788,380, 4-9-57, Cl. 136-4.
- Epstein, Albert A., to V. de B. Epstein. Method of producing a coffee extract. 2,783,149, 2-26-57, Cl. 99-71.
- Epstein, David W., and E. G. Ramberg, to Radio Corp. of America. Post-accelerated color-kinescopes. 2,795,720, 6-11-57, Cl. 313-85.
- Epstein, David W., P. E. Kaus, and D. D. Van Ormer, to Radio Corp. of America. Manufacture of color-kinescopes, etc. 2,817,276, 12-24-57, Cl. 95-1.
- Epstein, Henry D.: See—
Mascioli, Walter A., Epstein, and Cardin. 2,813,168.
- Epstein, Henry D., to Metals & Controls Corp. Circuit breaker. 2,816,191, 12-10-57, Cl. 200-106.
- Epstein, Herman, to Burroughs Corp. Magnetostrictive device. 2,780,774, 2-5-57, Cl. 324-34.
- Epstein, Herman. Weaving tool. 2,786,490, 3-26-57, Cl. 139-33.
- Epstein, Herman, to Burroughs Corp. Binary counters. 2,795,776, 6-11-57, Cl. 340-174.
- Epstein, Herman, and J. R. Pratt. Reverse travel signalling device for automobiles. 2,802,441, 8-13-57, Cl. 116-35.
- Epstein, Saul, and L. D. Statham, to Statham Laboratories, Inc. Strain gage. 2,785,470, 3-19-57, Cl. 33-147.
- Epstein, Violet B.: See—
Epstein, Albert A. 2,783,149.
- Epsztajn, Bernard, and H. Huber, to Compagnie General de Telegraphie Sans Fil. Travelling wave tube with crossed electric and magnetic fields and transversely directed beam. 2,791,717, 5-7-57, Cl. 315-3.5.
- Equipment Development Co., Inc.: See—
Smith, Edmund G., and Cocchiarella. 2,798,424.
Smith, Edmund G., and Cocchiarella. 2,798,609.
- Equipment Engineers, Inc.: See—
Krebs, Kellogg. 2,776,053.
- Eranosian, John. Food warming cabinet. 2,795,684, 6-11-57, Cl. 219-35.
- Erasmus, Hendrik D., to Union Carbide Corp. Reduction of metal compounds in the presence of sulphur. 2,801,915, 8-6-57, Cl. 75-84.1.
- Erasmus, Hendrik D., to Union Carbide Corp. Process and apparatus for reducing metal chlorides employing calcium carbide. 2,814,561, 11-26-57, Cl. 75-84.5.
- Erath, Louis W., P. E. Madeley, and S. Hatchl, to Southwestern Industrial Electronics Co. Means for measuring and for generating motion. 2,776,560, 1-8-57, Cl. 73-71.2.
- Erba, Carlo, S. p. A.: See—
Bacchetti, Tullio. 2,784,196.
- Erban, Richard T. Kinoptic devices. 2,780,136, 2-5-57, Cl. 88-28.93.
- Erbel, Arthur J., and E. E. Kenaga, to The Dow Chemical Co. Diamido anilido phosphine oxides and sulfides. 2,776,311, 1-1-57, Cl. 260-551.
- Erbel, Arthur J., and D. L. Kenaga, to The Dow Chemical Co. Treatment of cellulose materials to impart flame resistance thereto. 2,803,562, 8-20-57, Cl. 117-136.
- Erbstösser, Erich, to Firma Siemens Feinmechanische Werke G. m. b. H. Switching arrangement. 2,789,167, 4-16-57, Cl. 200-18.
- Erchak, Michael, Jr., to Allied Chemical & Dye Corp. Chlorinated ethylene-alkanol telomers. 2,779,754, 1-29-57, Cl. 260-94.9.
- Erck, Louis J.: See—
Holt, Grover J., and Erck. 2,799,572.
- Ercoli, Raffaele: See—
Natta, Giulio, Pino, and Ercoli. 2,805,245.
- Erdkamp, Richard E., 1/2 to L. A. Wadhams. Baby and youth bed assembly. 2,787,007, 4-2-57, Cl. 5-2.
- Erdman, Albert R. Box and package slitting and opening tool. 2,797,477, 7-2-57, Cl. 30-2.
- Erdman, Donald D. Folding duck retriever. 2,801,486, 8-6-57, Cl. 43-1.
- Erdmann, Albert, & Co.: See—
Erdmann, Albert, and Boelke. 2,793,147.
- Erdmann, Albert, and E. Boelke, to Albert Erdmann & Co. Salt bath for heat treating carbon alloyed steel. 2,793,147, 5-21-57, Cl. 148-15.
- Erdmann, Fred H., to Phillips Petroleum Co. Packing support for fluid-liquid contacting vessels. 2,803,528, 8-20-57, Cl. 23-270.5.
- Erdmann, Hans, to Walde Kohinoor, Inc. Slide fasteners. 2,792,610, 5-21-57, Cl. 24-205.11.
- Erdmann, Hans, to Walde Kohinoor, Inc. Slide fasteners. 2,806,274, 9-17-57, Cl. 24-205.11.
- Erdmann, Hans, to Walde Kohinoor, Inc. Apparatus for assembling open-ended spring retaining rings on grooved shafts, pins and the like. 2,807,078, 9-24-57, Cl. 29-229.
- Erdmann, Hans, to Walde Kohinoor, Inc. Apparatus for assembling open-ended retaining rings on grooved shafts, pins and the like. 2,814,858, 12-3-57, Cl. 29-229.
- Erdmann, Hans, to Walde Kohinoor, Inc. Apparatus for assembling open-ended spring retaining rings on grooved shafts, pins and the like. 2,814,859, 12-3-57, Cl. 29-229.
- Erdmenger, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Means for feeding to machines sticky or crust-forming materials. 2,782,963, 2-26-57, Cl. 222-227.
- Erdmenger, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Mixing and kneading machine. 2,814,472, 11-26-57, Cl. 259-104.
- Erekson, Arthur B., to The Borden Co. Cheese and processes of producing cheese. 2,793,122, 5-21-57, Cl. 99-116.
- Erekson, Arthur B., to The Borden Co. Preparation of cheese cultures. 2,805,950, 9-10-57, Cl. 99-116.
- Erekson, Arthur B., to The Borden Co. Container for leavened dough. 2,811,455, 10-29-57, Cl. 99-172.
- Ergen, William K., A. H. Palya, and A. W. Frick, to the United States of America as represented by the Secretary of the Air Force. Heading computer for radio navigation systems. 2,794,594, 6-4-57, Cl. 235-61.
- Ergenc, Mehmet S., to Aktiengesellschaft-Fuer Technische Studien. Reversible inward radial flow turbine. 2,800,297, 7-23-57, Cl. 253-51.
- Erickson, Arthur E.: See—
Chemerd, John M., and Erickson. 2,786,053.
Chemerd, John M., and Erickson. 2,794,801.
- Erickson, Clarence E.: See—
Manning, Harold E. 2,787,845.
- Erickson, Donald R. Apparatus for producing hydroxy alkyl cellulose film. 2,817,114, 12-24-57, Cl. 18-15.
- Erickson, Edward B.: See—
Cuthbertson, George R., Erickson, and Fontana. 2,789,616.
- Erickson, Edwin L., 25% to G. H. Erickson. Ignition device for internal combustion engines. 2,797,252, 6-25-57, Cl. 123-148.
- Erickson, Floyd B., to Monsanto Chemical Co. Process for making methylenedianilines. 2,818,433, 12-31-57, Cl. 260-570.
- Erickson, George F.: See—
Bryant, Harry, Erickson, and Kaufmann. 2,795,704.
- Erickson, George H.: See—
Erickson, Edwin L. 2,797,252.
- Erickson, Harold E., B. Brookhyser, and D. L. Schubert, to Industrial Development Co. Power cultivator. 2,791,953, 5-14-57, Cl. 97-43.
- Erickson, Harold E., and B. B. Brookhyser, 1/2 to Columbia Veneer Co., and 1/2 to D. L. Schubert. Oscillating feeding apparatus. 2,792,096, 5-14-57, Cl. 193-17.
- Erickson, Helmer E.: See—
Beyerstedt, John M., and Erickson. 2,796,898.
- Erickson, Henry: See—
Hettinger, William P., Jr., and Erickson. 2,798,097.
- Erickson, John A., to Viking Mfg. Co. Flight type conveyor with forwardly projecting load supporting arms on the flights. 2,815,116, 12-3-57, Cl. 198-172.
- Erickson, John E. Tractor hitch. 2,805,082, 9-3-57, Cl. 280-478.
- Erickson, John G., to General Mills, Inc. Methyl fatty tertiary amines. 2,776,314, 1-1-57, Cl. 260-583.
- Erickson, John G., to General Mills, Inc. Soil conditioning with polyquaternary ammonium compounds. 2,807,910, 10-1-57, Cl. 47-58.
- Erickson, John G., to General Mills, Inc. Reaction products of primary fatty amines and aldose sugars. 2,808,401, 10-1-57, Cl. 260-211.
- Erickson, John G., to General Mills, Inc. Sulfated fatty urea N-glycosides. 2,808,404, 10-1-57, Cl. 260-211.5.
- Erickson, John G., to General Mills, Inc. Reaction products of primary fatty amines and ketose sugars. 2,815,339, 12-3-57, Cl. 260-211.
- Erickson, John G., to General Mills, Inc. Reaction products of fatty amines and reducing disaccharides. 2,815,340, 12-3-57, Cl. 260-211.
- Erickson, John R., to Norton Co. Cut-off wheel. 2,814,918, 12-3-57, Cl. 51-206.
- Erickson, Lennarth E., to S. & E. Mfg. Co. Collapsible baby walkers. 2,788,054, 4-9-57, Cl. 155-24.
- Erickson, Lewis C. Knock-down conveyor gallery. 2,793,738, 5-28-57, Cl. 198-184.
- Erickson, Lowell H.: See—
Merrill, Marcellus S., and Erickson. 2,798,379.
- Erickson, Melvin E.: See—
Armstrong, James K., Erickson, and Willis. 2,799,782.

- Erickson, Melvin E., R. D. Kern, and N. H. Willis, to Waukesha Motor Co. Self-contained air conditioning apparatus for use in the roof hatch of a railway refrigerator car or the like. 2,809,812, 10-15-57, Cl. 257-7.
- Erickson, Norman B.: *See*—
Mann, Howard H., Erickson, and Mathews. 2,816,181.
Mathews, Joseph A., Erickson, Welsh, and Mann. 2,788,400.
- Erickson, Norman R. Emergency crash seat. 2,777,531, 1-15-57, Cl. 180-82.
- Erickson, Porter W., and I. Silver, to the United States of America as represented by the Secretary of the Navy. Method of coating glass fibers with reaction product of organo silsilanes and glycidol derivatives and then with epoxy resins and the product per se. 2,776,910, 1-8-57, Cl. 117-62.
- Erickson Tool Co.: *See*—
Benjamin, Milton L. and S. S. 2,778,647.
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Benjamin, Milton L. and S. S. 2,778,650.
Benjamin, Milton L. and S. S. 2,778,651.
Benjamin, Milton L. and S. S. 2,793,866.
Benjamin, Milton L., and Winnen. 2,776,839.
Benjamin, Milton L., and Winnen. 2,785,579.
Benjamin, Milton L., and Winnen. 2,788,120.
Benjamin, Milton L., and Winnen. 2,793,547.
- Erickson, Virginius R., and B. B. Bullwinkle, to Oregon Saw Chain Corp. Stud driving tool. 2,778,020, 1-22-57, Cl. 1-44.5.
- Erickson, Wallace A., to Wallace A. Erickson & Co. Impression composition. 2,816,843, 12-17-57, Cl. 106-38.5.
- Erickson, Wallace A. & Co.: *See*—
Erickson, Wallace A. 2,816,843.
- Erickson, Warren E.: *See*—
Eddison, William B., and Erickson. 2,794,636.
Eddison, William B., and Erickson. 2,815,628.
Eddison, William B., and Erickson. 2,815,629.
- Erickson, Willard E., to Link-Belt Co. Box car unloaders. 2,788,904, 4-16-57, Cl. 214-52.
- Erico Products, Inc.: *See*—
Burke, Donald J. 2,801,914.
- Ericson, Albert A., to The Farmingdale Corp. Hydraulic drives for machine tools. 2,782,798, 2-26-57, Cl. 137-505.22.
- Ericson, Elmer W. Display binder. 2,776,150, 1-1-57, Cl. 281-33.
- Ericson, Elof M., to Norton Co. Encapsulating machine-spreader box and gelatin level control. 2,815,533, 12-10-57, Cl. 18-15.
- Ericson, Franklin R., to General Electric Co. Valve mechanism. 2,777,466, 1-15-57, Cl. 137-630.15.
- Ericson, George R., deceased; M. A. Ericson, executrix. Convalescent's pillow. 2,782,427, 2-26-57, Cl. 5-338.
- Ericson, George R., to ACF Industries, Inc. Lubricated valve. 2,786,484, 3-26-57, Cl. 137-246.14.
- Ericson, George R., to ACF Industries, Inc. Automatic starting device. 2,793,634, 5-28-57, Cl. 123-179.
- Ericson, John F. E., to Marvel Industries, Inc. Drum handling attachment for trucks. 2,814,403, 11-26-57, Cl. 214-654.
- Ericson, John P., to Illinois Tool Works. Electrical connector mounting assembly. 2,811,323, 10-29-57, Cl. 248-27.
- Ericson, Mary A.: *See*—
Ericson, George R. 2,782,427.
- Ericson, Roy G., and F. E. Stratton, to United Shoe Machinery Corp. Safety device for a press comprising strokes terminating means. 2,783,838, 3-5-57, Cl. 164-23.
- Ericson, Walter M. Acoustical and air distributing ceiling construction. 2,781,557, 2-19-57, Cl. 20-4.
- Ericson, Walter M., to Airson Co., Inc. Ventilating ceiling construction. 2,807,993, 10-1-57, Cl. 98-40.
- Ericsson, Gustav. Workpiece holder. 2,811,771, 11-5-57, Cl. 29-59.
- Ericsson, Ralph L. Tobacco composition. 2,776,916, 1-8-57, Cl. 131-17.
- Ericsson Telephones Ltd.: *See*—
Acton, John R. 2,816,250.
Williams, David J., Bacon, and Acton. 2,783,408.
- Ericsson, Tore, to Aktiebolaget Sangfabriken. Mechanism in wheeled hospital beds for raising and lowering the supporting wheels. 2,798,232, 7-9-57, Cl. 5-328.
- Erie Meter Systems, Inc.: *See*—
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- Erie Mining Co.: *See*—
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- Erie Resistor Corp.: *See*—
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- Eriez Mfg. Co.: *See*—
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- Eriksen, Edwin P. Balt saving fish lure. 2,797,517, 7-2-57, Cl. 43-43.06.
- Eriksen, Edward B.: *See*—
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- Eriksen, Erik J., to Telefonaktiebolaget L M Ericsson. Switching system in multiple line multiplex transmission system. 2,802,990, 8-13-57, Cl. 333-7.
- Erikson, Evans W.: *See*—
Eisengrein, Robert H., and Erikson. 2,785,318.
- Erikson, Herman E.: *See*—
Pierce, Norton T., Bartlett, Erikson, Fairbank, McCune, and Wright. 2,784,653.
- Eriksson, Allan H., to Husqvarna Vapenfabriks Aktiebolag. Eccentric drives, particularly for sewing machines. 2,795,968, 6-18-57, Cl. 74-571.
- Eriksson, Artur J., to Aktiebolaget Svensktkonstsilke. Means for treatment of freshly spun rayon filament yarn. 2,817,227, 12-24-57, Cl. 68-20.
- Eriksson, Karl-Erik. Device for mounting caterpillar track rollers. 2,804,358, 8-27-57, Cl. 308-184.
- Eriksson, Lars G. A., to Aktiebolaget Pumpindustri. Method and means for storing foam liquid in fire extinguishers. 2,811,211, 10-29-57, Cl. 169-14.
- Erish, Otto. Universal joints. 2,809,504, 10-15-57, Cl. 64-7.
- Erismann, Raymond, Jr.: *See*—
Wolfe, H. Hix, and Erismann. 2,805,835.
- Erke, August F., to J. F. Rhodes. Lock seal suitable for manufacture in plastics. 2,809,065, 10-8-57, Cl. 292-307.
- Erkes, William J. Guide device for causing a roller bending machine to form a cone. 2,808,096, 10-1-57, Cl. 153-54.
- Erkkila, Andrew, to Independent Lock Co. Screen door latch. 2,795,446, 6-11-57, Cl. 292-169.
- Erkkila, Armas V., to Allied Chemical & Dye Corp. Reduction of aromatic nitrogen compounds. 2,804,452, 8-27-57, Cl. 260-143.
- Erl, Edward J., to Refrigeration Appliances, Inc. Widespread air circulating refrigerating unit. 2,798,366, 7-9-57, Cl. 62-102.
- Erlbacher, Robert W. Tubular rudder. 2,803,211, 8-20-57, Cl. 114-166.
- Erie, Donald Z., and R. L. Vick, to Bendix Aviation Corp. Combination master cylinder and power valve. 2,795,234, 6-11-57, Cl. 137-87.
- Erlichman, Irving, to Polaroid Corp. Photographic apparatus. 2,788,722, 4-16-57, Cl. 95-13.
- Erling, Sven J., to Aktiebolaget Separator. Self-cycling valve. 2,803,423, 8-20-57, Cl. 251-13.
- Erling, Sven J., to Aktiebolaget Separator. Apparatus for cleaning of pipelines for milk, and the like. 2,818,076, 12-31-57, Cl. 134-102.
- Ermilio, John B. Tailor's measuring device. 2,795,852, 6-18-57, Cl. 33-8.
- Ernst, Harold. Method and apparatus for handling bulky stock. 2,792,252, 5-14-57, Cl. 294-74.
- Ernst, John L., and J. L. Betts, Jr., to Esso Research and Engineering Co. Process for producing aqueous dispersions of elastomers. 2,799,662, 7-16-57, Cl. 260-29.7.
- Ernst, John L., and N. L. Cull, to Esso Research and Engineering Co. Aldolization by sodamide and hydrogenation of product. 2,810,762, 10-22-57, Cl. 260-602.
- Ernst, Max. Remote controlled vehicle toy. 2,778,158, 1-22-57, Cl. 46-219.
- Ernst, Max. Toy vehicle with spring-actuated drive. 2,795,897, 6-18-57, Cl. 46-208.
- Ernst, Max. Remotely controlled toy aircraft. 2,801,494, 8-6-57, Cl. 46-75.
- Ernst, Max. Toy motor cycle with mounting and dismounting cyclist. 2,814,908, 12-3-57, Cl. 46-107.
- Ernst, Otto: *See*—
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- Ernst, Robert A. Wagon unloading jack. 2,796,182, 6-18-57, Cl. 214-82.
- Ernst, W. Arthur. Motorized drink mixers. 2,798,979, 7-9-57, Cl. 310-258.
- Ernst, W. Arthur, to Howard Industries, Inc. Oil pad retainer connection to an electric motor shell casing. 2,800,374, 7-23-57, Cl. 308-132.
- Ernst, Walter, to The Commonwealth Engineering Co. of Ohio. Press ladder construction. 2,794,583, 6-4-57, Cl. 228-48.
- Ernst, Wentworth A., J. A. Karnavas, and R. E. Bish, to Westinghouse Electric Corp. Matchplate for the production of shell molds and process of making the same. 2,808,630, 10-8-57, Cl. 22-157.
- Ernst, Wentworth A., F. T. Parr, J. W. Evans, and R. E. Lee, to Westinghouse Electric Corp. Electrical members provided with high temperature electrical insulation comprising organopolysiloxanes. 2,813,047, 11-12-57, Cl. 117-218.
- Eron, Alan H., to Sinclair Refining Co. Apparatus for separating solid particles from gases. 2,788,859, 4-16-57, Cl. 183-41.
- Eron, Theodore. Paper cup and holder. 2,782,616, 2-26-57, Cl. 65-61.
- Eronen, Toivo J. Poultry fountain. 2,795,210, 6-11-57, Cl. 119-78.
- Errede, Louis A., and B. F. Landrum, to The M. W. Kellogg Co. Polymerizable cyclic compounds. 2,777,005, 1-8-57, Cl. 260-668.
- Erren, Rudolf A. Mixing machine for materials such as cement. 2,814,474, 11-26-57, Cl. 259-175.
- Ertelt, Henry R.: *See*—
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- Ertl, Emerich, and L. Peterlik. Electromagnetic switch relays. 2,794,090, 5-28-57, Cl. 200—88.
- Ervin, Preston S. Berry stemmer having a helical rubber tube. 2,799,812, 7-16-57, Cl. 146—55.
- Ervin, Steven C.: *See*—
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- Ervin, Vernon J.: *See*—
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- Erving, Eric R. Wrap-on tire chain applicator. 2,777,499, 1-13-57, Cl. 152—213.
- Erwin, Arthur F., to Allis-Chalmers Mfg. Co. Linear electromagnetic pump having concentric fluid passages. 2,808,002, 10-1-57, Cl. 103—1.
- Erwin, Katherine S.: *See*—
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- Erwin, Weldon C. Method for loosening stuck drill pipe. 2,808,887, 10-8-57, Cl. 166—43.
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- Erxleben, Reinhold, to Daimler-Benz Aktiengesellschaft. Control mechanism for a marine Diesel engine. 2,804,782, 9-3-57, Cl. 74—472.
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- Gabbett, James F., Jr., and Robertson. 2,780,640.
- Gabbett, James F., Jr., and Steadman. 2,805,244.
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- Gardner, James H., and Robertson. 2,780,635.
- Gardner, James H., and Tewksbury. 2,784,202.
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- Robertson, Nat C. 2,780,634.
- Robertson, Nat C. 2,807,573.
- Robertson, Nat C., and Gardner. 2,780,654.
- Robertson, Nat C., Gardner, and Di Nardo. 2,780,650.
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- Esche, Delbert E. Sleeping device for motor vehicles. 2,782,068, 2-19-57, Cl. 296—23.
- Eschenbach, Rudolf, to C. Proebster, Jr. Compass. 2,794,259, 6-4-57, Cl. 33—153.
- Eschenburg, William A., to Yates-American Machine Co. Safety guard for circular saw. 2,786,496, 3-26-57, Cl. 143—159.
- Eschenburg, William A., and E. Balstad, to Yates-American Machine Co. Adjustable guide fence for power tool work table. 2,808,084, 10-1-57, Cl. 143—174.
- Escher Wyss Aktiengesellschaft: *See*—
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- Eschliman, William E.: *See*—
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- Esdaile, E., & Sons Pty. Ltd.: *See*—
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- Esdaile, Walter, to Sperry Rand Corp. Nonprint mechanism for intermediate operations of multiplying and dividing machines. 2,795,375, 6-11-57, Cl. 235—60.25.
- Eshelman, Walter I.: *See*—
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- Eshelman, Walter I., to Clarostat Mfg. Co., Inc. Control assembly and contact. 2,814,705, 11-26-57, Cl. 201—48.
- Esken, Robert L., to The Sheffield Corp. Gauging device. 2,785,799, 3-19-57, Cl. 209—88.
- Esken, Robert L., to The Sheffield Corp. Gauging device. 2,786,109, 3-19-57, Cl. 200—83.
- Eskew, Roderick K.: *See*—
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- Eskew, Roderick K., to the United States of America as represented by the Secretary of Agriculture. Process for making powdered fruit juices. 2,816,039, 12-10-57, Cl. 99—206.
- Eskin, Samuel G., to The Dole Valve Co. Liquid regulating valve. 2,795,881, 6-11-57, Cl. 236—93.
- Eskin, Samuel G., to The Dole Valve Co. Gas control valve. 2,797,872, 7-2-57, Cl. 236—48.
- Eskin, Samuel G., to The Dole Valve Co. Thermostatically operated safety device. 2,805,303, 9-3-57, Cl. 200—140.
- Eskin, Samuel G., to The Dole Valve Co. Gas oven thermostatic valve. 2,807,423, 9-24-57, Cl. 236—99.
- Eskin, Samuel G., and T. B. Legeza, to The Dole Valve Co. Cooling system thermostatically operated valve. 2,811,312, 10-29-57, Cl. 236—34.
- Eskin, Samuel G., and T. B. Legeza, to The Dole Valve Co. Gas temperature shut off valve. 2,815,035, 12-3-57, Cl. 137—65.
- Esko, Earl E. Butter slicing and dispensing device. 2,799,931, 7-23-57, Cl. 31—20.
- Eskowitz, Irving, to Westinghouse Electric Corp. Mount construction for butt-sealed lamps. 2,816,426, 12-17-57, Cl. 67—31.
- Eskridge, Thomas C.: *See*—
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- Esler, Charles G.: *See*—
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- Eslinger, Margaret. Manually-actuated snow plow. 2,782,533, 2-26-57, Cl. 37—53.
- Esmay, Paul O. Weed-killing spray cane. 2,817,189, 12-24-57, Cl. 47—1.
- Esmenard, Emile, to Brandt & Fils. Device for locking movable parts, notably relay armatures. 2,814,691, 11-26-57, Cl. 200—88.
- Esnault-Pelterie, Robert, to Spladis Societe pour l'Application d'Inventions Scientifiques. Shock therapy. 2,785,680, 3-19-57, Cl. 128—419.
- Espari, Alphonse A., and L. J. Paffumi, to Interstate Mfg. Corp. Rod-sawing machine. 2,781,573, 2-19-57, Cl. 29—69.
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- Espenlaub, Walter C., to Hazeltine Research, Inc. High-frequency wave-signal tuning device. 2,806,211, 9-10-57, Cl. 333—82.
- Espenlaub, Walter C., and B. D. Loughlin, to Hazeltine Research, Inc. Matrixing apparatus for a color-signal translating system. 2,807,661, 9-24-57, Cl. 178—54.
- Esper, Amen. Patty molding machine. 2,799,893, 7-23-57, Cl. 17—32.
- Espersen, William G.: *See*—
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- Esposito, Ralph J. Garfish trapping snare. 2,793,466, 5-28-57, Cl. 43—87.
- Esposy, Henry M.: *See*—
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- Esseling, Ludovicus A. L., to North American Philips Co., Inc. Blocking layer rectifier. 2,786,167, 3-19-57, Cl. 317—234.
- Esser, Richard C.: *See*—
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- Essick, James H., to Essick Mfg. Co. Shipping container support and advertisement unit. 2,804,199, 8-27-57, Cl. 206—44.
- Essick, James H., to Essick Mfg. Co. Boxing and display unit. 2,810,474, 10-22-57, Cl. 206—44.
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- Essig, Jacob F. M., to Union Carbide and Carbon Corp. Sigma spot or tack welding. 2,776,361, 1-1-57, Cl. 219—74.
- Esslinger, Robert A., to United States Rubber Co. Method and apparatus for molding conveyor belts. 2,782,461, 2-26-57, Cl. 18—6.
- Essmann, Harvey E., deceased; by M. A. Essmann administratrix. Machine for affixing labels to mailing pieces and the like. 2,787,243, 4-2-57, Cl. 118—212.
- Essmann, Mary A.: *See*—
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- Evans, Charles R., and W. G. McElroy. Operating mechanism for sectional garage doors. 2,790,635, 4-30-57, Cl. 268-59.
- Evans, Charles S. Frozen seal receptacle. 2,780,386, 2-5-57, Cl. 220-45.
- Evans, Charles S. Venetian blind structure. 2,784,780, 3-12-57, Cl. 160-178.
- Evans, Charles S., to Calnetian Blinds, Inc. Venetian blind structure. 2,786,521, 3-26-57, Cl. 160-178.
- Evans, Charles S., to Calnetian Blinds, Inc. Venetian blind. 2,796,927, 6-25-57, Cl. 160-178.
- Evans, Charles T.: *See*—
Denmer, Adolph P., and Evans. 2,782,024.
- Evans, Cyril D.: *See*—
Hodge, John E., and Evans. 2,806,794.
- Evans, Cyril D., and A. W. Schwab, to the United States of America as represented by the Secretary of Agriculture. Stabilization of oils with B-(carboxymethylmercapto) tri-carballic acid. 2,797,231, 6-25-57, Cl. 260-398.5.
- Evans, Cyril G., to Deering Milliken Research Corp. Method of dyeing acrylic fibers using a cupric salt-phenylphenol reaction product. 2,796,318, 6-18-57, Cl. 8-55.
- Evans, Cyril G., to Deering Milliken Research Corp. Dyeing of acrylonitrile fibers and composition for same. 2,812,230, 11-5-57, Cl. 8-55.
- Evans, Cyril G., and W. T. Rainey, Jr., to Deering Milliken Research Corp. Dyeing acrylonitrile fibers with acid dyes, a cupric salt and a naphthol compound. 2,812,998, 11-12-57, Cl. 8-55.
- Evans, David C., to Bendix Aviation Corp. Flip-flop circuit. 2,795,696, 6-11-57, Cl. 250-27.
- Evans, Dewey M.: *See*—
Dunker, Josef, and Evans. 2,791,681.
- Evans, Ernest B. Bookshelf. 2,806,606, 9-17-57, Cl. 211-43.
- Evans, Eugene M., and H. A. Grant. Distress signaling device. 2,803,811, 8-20-57, Cl. 340-63.
- Evans, Francis C., M. W. Muehter, and W. G. Holzbock, to American District Telegraph Co. Supervisory signal system for automatic fuel burner. 2,807,318, 9-24-57, Cl. 158-28.
- Evans, Fraser M., to C. A. V. Ltd. Control means for liquid fuel injection pumps of internal combustion engines. 2,795,219, 6-11-57, Cl. 123-140.
- Evans, George O., to Chrysler Corp. Universal mounting for vehicle steering gear. 2,796,142, 6-18-57, Cl. 180-90.
- Evans, Glenn C. Closure structure. 2,808,174, 10-1-57, Cl. 220-25.
- Evans, Harry D., to Shell Development Co. Catch vessel for separating particles from rotating fluid streams. 2,786,545, 3-26-57, Cl. 183-34.
- Evans, Harry D., and W. J. D. Van Dijk, to Shell Development Co. Centrifugal separator. 2,797,769, 7-2-57, Cl. 183-32.
- Evans, Harry W. Pipe cutting machine of the pantograph type. 2,778,625, 1-22-57, Cl. 266-23.
- Evans, Howard J., to Rockwell Mfg. Co. Gas meters. 2,818,046, 12-31-57, Cl. 121-48.
- Evans, James W., to American Maize-Products Co. Process of preparing starch derivatives. 2,806,026, 9-10-57, Cl. 260-233.3.
- Evans, Jerry E., Jr.: *See*—
Harris, Leslie M., Jr., and Evans. 2,809,289.
- Evans, Jesse L., to General Motors Corp. Illuminated oven with viewing means. 2,794,434, 6-4-57, Cl. 126-200.
- Evans, John, to Radio Corp. of America. Color television transmitter. 2,810,781, 10-22-57, Cl. 178-5.4.
- Evans, John E.: *See*—
Law, Harold B., Evans, and Rynn. 2,797,331.
- Evans, John G., J. H. Leach, and W. S. Meals, to The Bradford Dyers Association Ltd. Process of fixing mechanical finishes to cellulose fabrics by applying isocyanate-bisulphite addition salts. 2,786,734, 3-26-57, Cl. 8-116.2.
- Evans, John S., and W. H. De Vries, to The Upjohn Co. Extraction of coenzyme A from microbiological materials. 2,781,340, 2-12-57, Cl. 260-211.5.
- Evans, John W.: *See*—
Ernst, Wentworth A., Parr, Evans, and Lee. 2,813,047.
- Evans, Latimer R., to The Dow Chemical Co. Process for chlorinating dimethyl ether. 2,811,485, 10-29-57, Cl. 204-158.
- Evans, Lawrence J., to Vickers Inc. Power transmission. 2,807,274, 9-24-57, Cl. 137-108.
- Evans, Louis P.: *See*—
Bowles, Vernon O., and Evans. 2,776,876.
- Evans, Louis P., to Socony Mobil Oil Co., Inc. Method of maintaining substantially constant catalyst activity. 2,791,543, 5-7-57, Cl. 196-50.
- Evans, Louis P., to Socony Mobil Oil Co., Inc. Lift pot and method of contacting lift gas with granular solid particles. 2,793,915, 5-28-57, Cl. 302-53.
- Evans, Louis P., to Socony Mobil Oil Co., Inc. Preliminary hydrocarbon conversion of heavy hydrocarbon oils for use in catalytic cracking. 2,794,771, 6-4-57, Cl. 196-49.
- Evans, Lyon D., and N. J. Hebert, to Reynolds Metals Co. Pivoted window structure with frame sealing means. 2,805,451, 9-10-57, Cl. 20-53.
- Evans, Lyon D., and N. J. Hebert, to Reynolds Metals Co. Pivoted window sash with sash sealing means. 2,805,741, 9-10-57, Cl. 189-69.
- Evans, Martin E. Apparatus and method for photography of television. 2,788,388, 4-9-57, Cl. 178-5.8.
- Evans Medical Supplies Ltd.: *See*—
White, Charles F. 2,795,199.
- Evans, Owen T., R. Hathaway, and L. Abram, to Metropolitan-Vickers Electrical Co. Ltd. Control arrangements for braking alternating current induction motors. 2,805,376, 9-3-57, Cl. 318-212.
- Evans, Paul I., and H. Harvey, to the United States of America as represented by the Secretary of the Army. Sight mount for a rocket launcher. 2,814,118, 11-26-57, Cl. 33-48.
- Evans, Peter: *See*—
Knowlton, Robert E., Macgregor, and Evans. 2,815,376.
- Evans, Peter G. A.: *See*—
Swann, Geoffrey, and Evans. 2,781,332.
- Evans Products Co.: *See*—
Storch, Harold A. 2,802,429.
- Evans, Quentin J.: *See*—
Miner, Richard Y., and Evans. 2,785,857.
- Evans, Reid. Support for air filter units and the like. 2,792,906, 5-21-57, Cl. 183-44.
- Evans, Richard C.: *See*—
Blazek, William J., Evans, and Barkley. 2,812,621.
- Evans, Richard C., and N. H. Rosenberg, to Olin Mathieson Chemical Corp. Switch. 2,790,877, 4-30-57, Cl. 200-142.
- Evans, Richard E., and P. R. Haskell, to Remington Arms Co., Inc. Means for controlling the velocity of projectiles. 2,801,416, 8-6-57, Cl. 1-44.5.
- Evans, Richard E., and T. G. Owen, to Remington Arms Co., Inc. Magnetic reactor core and method of forming. 2,802,187, 8-6-57, Cl. 336-200.
- Evans, Richard H.: *See*—
Wootton, William R., and Evans. 2,804,854.
- Evans, Richard R., I. W. Mahacek, and L. A. McKinney, to Inflico Inc. Scum skimmer. 2,780,361, 2-5-57, Cl. 210-51.
- Evans, Robert, and L. T. Hogarth, to the United States of America as represented by the Secretary of the Navy. Process of preparing dialkyl sulfates. 2,816,126, 12-10-57, Cl. 260-459.
- Evans, Robert B.: *See*—
Ryan, Willard, and Evans. 2,807,493.
- Evans, Robert B., J. F. Byrnes, and E. J. Schubert, to Mine Safety Appliances Co. Protective device. 2,798,222, 7-9-57, Cl. 2-9.
- Evans, Robert D., to The American Agricultural Chemical Co. Hydraulic classification of solids. 2,784,841, 3-12-57, Cl. 209-158.
- Evans, Robert G. Combination beading, corrugating and flanging machine for steel drums. 2,793,671, 5-28-57, Cl. 153-2.
- Evans, Robert J. Liquid collection and return device. 2,793,652, 5-28-57, Cl. 137-399.
- Evans, Robert L., deceased, to Western Electric Co., Inc. Solder pot. 2,798,932, 7-9-57, Cl. 219-44.
- Evans, Robert M.: *See*—
Rieppel, Perry J., Clapp, and Evans. 2,779,086.
- Evans, Robert P., to W. F. O'Brien. Illuminating device attachable to a person's head. 2,794,908, 6-4-57, Cl. 240-59.
- Evans, Robert P., to North American Aviation, Inc. Regulator for an alternator. 2,806,990, 9-17-57, Cl. 322-25.
- Evans, Ronald K., to General Motors Corp. Hydraulic lash adjuster. 2,785,666, 3-19-57, Cl. 123-90.
- Evans, Ronald K., to General Motors Corp. Automobile refrigerating apparatus. 2,787,129, 4-2-57, Cl. 62-4.
- Evans, Ronald K., to General Motors Corp. Vacuum pump drive. 2,798,662, 7-9-57, Cl. 230-162.
- Evans, Sidney O.: *See*—
Edgecombe, David A., and Evans. 2,803,215.
- Evans, Theodore W.: *See*—
Smith, Curtis W., and Evans. 2,809,186.
- Evans, Thomas L., to Sylvania Electric Products Inc. Planar electron tubes. 2,814,752, 11-26-57, Cl. 313-270.
- Evans, Thomas P. Transient signal recorder. 2,817,815, 12-24-57, Cl. 324-77.
- Evans, Trevor E. Loading, hauling and dumping apparatus. 2,797,830, 7-2-57, Cl. 214-317.
- Evans, Walter E. Cake cutter and server. 2,800,714, 7-30-57, Cl. 30-114.
- Evans, Walter J.: *See*—
Fishwood, Rollin W., and Evans. 2,804,878.
- Evans, William H. Line reaming and boring machine. 2,788,683, 4-16-57, Cl. 77-4.
- Evans, William M., to U. S. Electrical Motors, Inc. Torque responsive brake system. 2,809,309, 10-8-57, Cl. 310-77.
- Evans, William R., to Pittsburgh Plate Glass Co. Curing of the bristle-bonding agents in brushes. 2,778,689, 1-22-57, Cl. 300-21.
- Evans, William V. Lawn mower trimmer attachment. 2,778,183, 1-22-57, Cl. 56-25.4.
- Evanson, Clifford E.: *See*—
Spurlock, William H., Edmonds, and Evanson. 2,810,997.
- Evarts, Ralph E., to The O. A. Sutton Corp., Inc. Twin window fan. 2,805,820, 9-10-57, Cl. 230-259.
- Evelyn, Harry C., to Crown Cork & Seal Co., Inc. Strip forming and inserting machine. 2,777,189, 1-15-57, Cl. 29-33.
- Even, Georges. Nail cleaning device having means for holding and expelling applicator pads. 2,813,289, 11-19-57, Cl. 15-134.

- Evenblij, Johan C. J., to American Flange & Mfg. Co. Inc. Indicating screw plug for barrels and other containers and sealing means for said plug. 2,801,022, 7-30-57, Cl. 220-39.
- Evenblij, Johan C. J. Method of making containers of glass fiber mat provided with end closures. 2,801,946, 8-6-57, Cl. 154-83.
- Even-Pul Foundations, Inc.: *See*—
Morano, Patrick J. 2,805,421.
- Everard, Joseph, to O. Heimbach. Flockage apparatus for the decoration of diverse objects. 2,777,977, 1-15-57, Cl. 317-262.
- Everard, Joseph J., to Paragon Electric Co. Time switch mechanism. 2,779,829, 1-29-57, Cl. 200-35.
- Everard, Kenneth B., and I. Harris, to Imperial Chemical Industries Ltd. Production of vinyl chloride polymers. 2,777,836, 1-15-57, Cl. 260-92.8.
- Everbrite Electric Signs, Inc.: *See*—
Jacobs, Gilbert C. 2,782,540.
Richter, Kenneth W. 2,791,851.
- Evers, Francis R., and J. H. Hanselman. Multi-blade planer. 2,787,846, 4-9-57, Cl. 37-154.
- Everest, Guy N.: *See*—
White, Paul V., and Everest. 2,781,285.
- Everett, Bernard S.: *See*—
McCamish, Harley M., and Everett. 2,800,912.
- Everett, Charles V., and C. Thordson, to Massey-Harris-Ferguson Inc. Conveyor. 2,785,929, 3-19-57, Cl. 302-23.
- Everett, Jack G.: *See*—
Phillips, Vernon B., Everett, and Hoekema. 2,808,791.
- Everett, Lemuel H. Supporting means for outlet boxes. 2,802,634, 8-13-57, Cl. 248-300.
- Everett, S. & R. J., & Co. Ltd.: *See*—
Everett, Samuel J. 2,802,468.
Everett, Samuel J. 2,814,296.
- Everett, Samuel J., to S. & R. J. Everett & Co. Ltd. Surgical needles. 2,802,468, 8-13-57, Cl. 128-339.
- Everett, Samuel J., to S. & R. J. Everett & Co. Ltd. Surgical needles. 2,814,296, 11-26-57, Cl. 128-339.
- Everett, Wilhelm S. Adjustable surge alleviator. Re. 24,390, 11-12-57, Cl. 138-30.
- Everett, Wilhelm S. Timed surge neutralizer. 2,811,931, 11-5-57, Cl. 103-223.
- Everett, Wilhelm S. Adjustable shock and vibration mount. 2,814,250, 11-26-57, Cl. 102-49.
- Evergard Fire Alarm Co. Inc.: *See*—
Jacoby, David M. 2,778,330.
- Everite Machine Products Co.: *See*—
Frager, Max, Stern, and Riegner. 2,803,928.
- Everly, Kenmore: *See*—
Locke, William B., Sr., and Everly. 2,796,776.
- Evers, Ernest C.: *See*—
Hainer, Raymond M., and Evers. 2,780,532.
- Evers, William J., and A. F. Nystrom, to A. O. Smith Corp. Method and apparatus for erecting a storage vessel. 2,794,242, 6-4-57, Cl. 29-429.
- Eversharp, Inc.: *See*—
Kuhn, Leopold K. 2,812,576.
Evershed & Vignoles Ltd.: *See*—
Askew, Joseph H. 2,786,174.
Tagg, George F. 2,800,629.
- Evert, Karl H. Apparatus for forming flexible metal tubing. 2,776,360, 1-1-57, Cl. 219-62.
- Evert, Lawrence L., to The Euclid Road Machinery Co. Self cleaning pulley. 2,801,733, 8-6-57, Cl. 198-230.
- Everts & van der Weyden N. V.: *See*—
Van der Weyden, Josephus A. C. 2,797,876.
- Every, Donald W., to Hughes Aircraft Co. Sub-miniature relay. 2,810,039, 10-15-57, Cl. 200-93.
- Ewald, Fred J., to Tuttle & Kift, Inc. Electrical heating unit and method of making same. 2,795,681, 6-11-57, Cl. 201-67.
- Ewaldson, Waldemar C., and H. W. Garbe, to Western Electric Co., Inc. Apparatus for supporting and moving elongate articles. 2,815,867, 12-10-57, Cl. 214-1.
- Ewalt, Claude. Adjustable ground engaging tool. 2,798,420, 7-9-57, Cl. 97-54.
- Ewart, John C., to A. O. Smith Corp. Hydraulic pipe testing apparatus. 2,780,093, 2-5-57, Cl. 73-49.6.
- Ewart, John C., and S. Malke, to A. O. Smith Corp. Apparatus for mechanically expanding large diameter pipe. 2,780,271, 2-5-57, Cl. 153-80.5.
- Ewing, Clifton H., to Westinghouse Electric Corp. Baffle and closure assembly for food waste disposer. 2,793,373, 5-28-57, Cl. 4-189.
- Ewing, Clifton H., to Westinghouse Electric Corp. Reversing control for food waste disposer. 2,811,316, 10-29-57, Cl. 241-32.5.
- Ewing, Frederick J.: *See*—
Zwicky, Fritz, Carter, and Ewing. 2,811,431.
Zwicky, Fritz, Ewing, Carter, and Stosick. 2,815,271.
- Ewing, George. Book support for maintaining the two opened pages of a book in substantially the same horizontal plane. 2,783,582, 3-5-57, Cl. 45-86.
- Ewing, Henry, to British Celanese Ltd. Coated unspun fibers and process of producing pile fabric therewith. 2,805,959, 9-10-57, Cl. 117-17.
- Ewing, John A., to E. Esdaile & Sons Pty. Ltd. Surveying instruments. 2,786,275, 3-26-57, Cl. 33-46.
- Ewing, Joseph. Railroad car for transporting road vehicles. 2,782,733, 2-26-57, Cl. 105-368.
- Ewing, Lewis M., to General Electric Co. Waveguide seal. 2,783,295, 2-26-57, Cl. 174-35.
- Ewing, Lloyd: *See*—
Matherne, Joseph L., and L. and R. Ewing. 2,812,271.
- Ewing, Reid: *See*—
Loebel, Fred A., and Ewing. 2,783,354.
Matherne, Joseph L., and L. and R. Ewing. 2,812,271.
- Ewing, Robert A.: *See*—
Kimball, Robert B., and Ewing. 2,800,387.
- Ewing, William M., and J. L. Worzel, to the United States of America as represented by the Secretary of the Navy. Apparatus for detonating explosive charges. 2,785,633, 3-19-57, Cl. 102-86.5.
- Ex Corp.: *See*—
Cousino, Walter F. 2,787,828.
- Exact Weight Scale Co., The: *See*—
Merrill, Roger L., and Hecox. 2,789,761.
- Excelmatic, Inc.: *See*—
Kraus, Charles E. 2,784,604.
- Excell, Arthur W., to Powers-Samas Accounting Machines Ltd. Accumulator mechanism. 2,794,592, 6-4-57, Cl. 235-60.
- Ex-Cell-O Corp.: *See*—
Carson, Thomas H. 2,790,427.
Dixon, Charles H. 2,792,967.
Ludwig, Carl, Wheeler, and Deedman. 2,793,623.
Ludwig, Carl, Wheeler, and Deedman. 2,798,462.
Mathys, Max A. 2,798,460.
Monroe, Charles, and Raymond. 2,798,582.
Monroe, Charles Z., and German. 2,780,900.
- Exlam Societe Anonyme: *See*—
Morand, Robert. 2,791,349.
- Exner, Helmut, to Zigarettenfabrik Haus Neuerburg KG. Method and means for tearing out filters from defective filter cigarettes. 2,815,029, 12-3-57, Cl. 131-20.
- Exner, Lawrence J.: *See*—
De Benneville, Peter L., and Exner. 2,810,675.
- Exomet, Inc.: *See*—
Pletsch, Erich C., and Bock. 2,791,816.
Pletsch, Erich C., and Diran. 2,798,818.
- Expert Die & Tool Co., Inc.: *See*—
Brems, John H., and Mareis. 2,810,817.
- Express Dairy Co. (London) Ltd.: *See*—
George, Frank G. 2,807,125.
- Extraction & Chemical Co., Inc.: *See*—
Nold, Hans. 2,781,097.
- Extraction Continue de Smet: *See*—
Vandervoort, Paul. 2,786,858.
- Extruded Plastics, Inc.: *See*—
Slaughter, Charles E. 2,788,834.
Slaughter, Charles E. 2,802,593.
Slaughter, Charles E. 2,806,528.
- Ey, Victor. Gas pressure regulators. 2,777,456, 1-15-57, Cl. 137-73.
- Eyb, Wolfgang: *See*—
Porsche, Ferdinand A. E., and Eyb. 2,814,503.
- Eye-Beam Displays, Inc.: *See*—
Stein, Elmer L. 2,805,504.
- Eyelet Specialty Co., The: *See*—
Hopgood, Robert B. 2,797,802.
Hopgood, Robert B. 2,797,803.
- Eyerly, Lee U. Rotary amusement device. 2,780,460, 2-5-57, Cl. 272-36.
- Eymann, Ludwig M.: *See*—
Strader, George A., and Eymann. 2,778,135.
- Eynard, Elysée. Injection moulding machines. 2,798,256, 7-9-57, Cl. 18-30.
- Eyre, Robert T. Recovery of oil from bituminous sands. 2,790,750, 4-30-57, Cl. 196-1.
- Eyster, Floyd E. Lid removing apparatus. 2,778,180, 1-22-57, Cl. 53-381.
- Ezdebski, Zigmund M. Coil type hot air heater. 2,811,151, 10-29-57, Cl. 126-116.
- Ezekiel, Freddie D. Variable orifice flowmeter. 2,816,441, 12-17-57, Cl. 73-207.
- Ezorsky, David M.: *See*—
Krieger, Maurice H., and Ezorsky. 2,777,145.
- F and F Kiddie Cassette Chair Co.: *See*—
Frohman, Isaac P., and Festa. 2,780,730.
- FKG Fritz Kesselring Geratebau A. G.: *See*—
Kesselring, Fritz. 2,782,345.
- F. T. Products Ltd.: *See*—
Fernberg, Eric B. 2,803,048.
Fernberg, Eric B. 2,803,050.
- Fa, Gas, Wasser- und Elektrische Anlagen Swatek & Cerny: *See*—
Cerny, Josef. 2,808,034.
- Faas, Louis D. Lawn mowing and trimming machine. 2,791,875, 5-14-57, Cl. 56-25.4.
- Faatz, Albert C., Jr., to Foster Wheeler Corp. Process for producing gases containing hydrogen from hydrocarbons. 2,813,779, 11-19-57, Cl. 23-212.
- Fabbrica Italiana Magneti Marelli: *See*—
Alferi, Giuseppe. 2,795,963.
- Fabbrica Italiana di Posateria e Oggetti di Metallo in genere G. B. Izar: *See*—
Melidonis, Giovanni. 2,792,623.
- Faber, Carl L. Flush tank valve. 2,776,672, 1-8-57, Cl. 137-437.
- Faber-Castell, A. W.: *See*—
Bachmann, Harald. 2,812,905.
Tegtmeyer, Heinrich, and Bachmann. 2,799,453.

- Faber, Edgar M.: *See*—
Gehauf, Bernard, and Faber. 2,806,062.
- Faber, Elmer L.: *See*—
MacArthur, Hamilton E., and Faber. 2,810,364.
- Faber, Elmer L., to Conforming Matrix Corp. Automatic spray painting apparatus. 2,795,206, 6-11-57, Cl. 118-11.
- Faber, Gilbert R.: *See*—
Faber, Jack L. and G. R. 2,794,193.
- Faber, Guy, to Aktiengesellschaft Brown, Boverie & Cie. Method of producing stabilized austenitic cast-steel. 2,806,732, 9-17-57, Cl. 75-51.
- Faber, Guy S., Blower. 2,781,963, 2-19-57, Cl. 230-134.
- Faber, Jack L. and G. R. Shoe sole flexing machine. 2,794,193, 6-4-57, Cl. 12-41.1.
- Faber & Schleicher Aktiengesellschaft: *See*—
Koch, Werner. 2,791,174.
Koch, Werner. 2,809,034.
Koch, Werner P. 2,817,521.
- Fabian, Lawrence H., to Nooter Corp. Seal hanger for floating roofs. 2,784,863, 3-12-57, Cl. 220-26.
- Fabig, Georg. Centrifugal pumps. 2,817,296, 12-24-57, Cl. 103-113.
- Fabio, Paul F.: *See*—
Brockman, John A., Jr., and Fabio. 2,789,991.
- Fabregas, Joseph A., and M. E. Underwood, to Alco Products, Inc. Heat exchanger. 2,797,898, 7-2-57, Cl. 257-32.
- Fabric Development Co., Ltd.: *See*—
Brookes, Mahath, and Sunderland. 2,788,835.
- Fabric Research Laboratories, Inc.: *See*—
Thomson, George, and Harris. 2,786,733.
- Fabrique d'Ebauches Venus S. A.: *See*—
Ramseier, Otto, and Meylan. 2,803,940.
- Fabrique de Produits Chimiques de Thann et de Mulhouse: *See*—
Mas, Robert J., and Matthieussent. 2,815,091.
- Fabrique de Produits Chimiques G. Zimmerli S. A.: *See*—
Eder, Kurt W. 2,806,054.
- Fabrique d'Horlogerie de Fontainemelon S. A.: *See*—
Von Aesch, Otto. 2,786,327.
- Fabrique Nationale d'Armes de Guerre: *See*—
Saive, Dieudonné J. 2,780,145.
- Fabrique Solvil des Montres Paul Ditisheim S. A.: *See*—
Vogel, Paul R. 2,793,810.
- Fabrique Suisse des Crayons Caran d'Ache S. A.: *See*—
Germann, Werner. 2,800,109.
Germann, Werner. 2,802,447.
- Fabriques de Produits Chimiques de Thann et de Mulhouse: *See*—
Frey, Walter. 2,779,662.
Frey, Walter. 2,790,703.
Mas, Robert J., and Michaud. 2,792,077.
- Fabriques Movado: *See*—
Diesheim, Bernard. 2,786,328.
- Fabry, Robert J. Picture frame. 2,785,490, 3-19-57, Cl. 40-156.
- Fabry, Robert J. Picture frame. 2,807,900, 10-1-57, Cl. 40-152.2.
- Facchini, Rigo R. Triple adjustable boat-supporting bracket. 2,816,672, 12-17-57, Cl. 214-84.
- Fachon, Emil E., to Bulova Watch Co., Inc. Wrist watch bracelet attachment. 2,775,861, 1-1-57, Cl. 58-88.
- Facial Graph Corp.: *See*—
Rosenbaum, Meyer. 2,780,004.
- Factory Mutual Research Corp.: *See*—
Nickerson, Malcolm H. 2,803,318.
- Fadner, Glenn R., Jr., W. T. Dyall, and M. D. Harsh, to the United States of America as represented by the Secretary of the Navy. Graphicon storage tube. 2,815,468, 12-3-57, Cl. 315-13.
- Faeber, Harry W., to Time, Inc. Apparatus for receiving printed material. 2,815,949, 12-10-57, Cl. 271-64.
- Faeber, Harry W., and L. C. Williams; said Faeber assor, to Time, Inc. Signature conveying mechanism. 2,810,468, 10-22-57, Cl. 198-133.
- Faenza, Vittorio: *See*—
Giardino, Loris, and Faenza. 2,793,026.
- Faerber, Hans A. Machine for coating with sugar jubes, jellies and like confections. 2,787,978, 4-9-57, Cl. 118-19.
- Fairair Bearing Co., The: *See*—
Downs, Russell E. 2,796,304.
Jones, Arthur B., Jr. 2,779,640.
Noe, Frank. 2,794,691.
Van Dorn, Horace B. 2,781,661.
- Fagan, John W. Method of forming objects and apparatus therefor. 2,792,046, 5-14-57, Cl. 153-32.
- Fagan, John W. Apparatus for forming objects. 2,792,047, 5-14-57, Cl. 153-32.
- Fagan, Roscoe: *See*—
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- Fagan, Roscoe. Collapsible bench. 2,782,075, 2-19-57, Cl. 304-2.
- Fagan, William P. Automatic air bleeder for pumping unit. 2,776,630, 1-8-57, Cl. 103-203.
- Fagen, Harold J., to Kraft Foods Co. Pepper. 2,778,738, 1-22-57, Cl. 99-140.
- Fageol, Louis J., to Twin Coach Co. Method for construction of self-propelled vehicles. 2,791,826, 5-14-57, Cl. 29-469.
- Fageol, Louis J., to Twin Coach Co. Single lever control for power plant carburetor and transmission. 2,808,733, 10-8-57, Cl. 74-472.
- Fagergren, Aaron H. Rope ladder swing. 2,795,423, 6-11-57, Cl. 272-60.
- Fagg, Leo W., and C. L. Sharp, to Johnson-Fagg Engineering Co. Stuffing box assembly. 2,806,721, 9-17-57, Cl. 286-27.
- Fagg, Robert M. Bait bag. 2,780,021, 2-5-57, Cl. 43-41.
- Fague, John D.: *See*—
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- Fahland, Frank. Attaching head for a supporting crossbar. 2,817,549, 12-24-57, Cl. 287-83.
- Fahlbusch, Heinz, and W. Klein, to Maschinenfabrik Augsburg-Nürnberg A. G. Truck arrangement. 2,796,841, 6-25-57, Cl. 105-199.
- Fahlenberg, Paul, to H. and F. W. Deckel. Automatic setting device for photographic cameras. 2,780,971, 2-12-57, Cl. 95-10.
- Fahner, Gottlieb C.: *See*—
Fahner, Kenneth C. 2,779,856.
- Fahner, Irene R.: *See*—
Fahner, Kenneth C. 2,779,856.
- Fahner, Kenneth C., $\frac{1}{2}$ to I. R. Fahner, and $\frac{1}{2}$ to G. C. Fahner. Hot air drier. 2,779,856, 1-29-57, Cl. 219-39.
- Fahrenbach, Marvin J.: *See*—
Brockman, John A., Jr., and Fahrenbach. 2,790,802.
- Fahrenbach, Marvin J., and K. A. Burke, to American Cyanamid Co. Heparin-aminobenzoate compositions. 2,778,769, 1-22-57, Cl. 167-74.
- Fahrenbach, Wolfgang B.: *See*—
Tonna, Arthur J., and Fahrenbach. 2,815,630.
- Fahrenbach, Wolfgang B., to Edio Inc. Banding machine. 2,815,626, 12-10-57, Cl. 53-198.
- Fahrenhorst, Heinz, and F. Stimler, to Reichhold Chemicals, Inc. Process for the production of fusible alcohol-modified melamine resins, and resulting product. 2,808,389, 10-1-57, Cl. 260-67.6.
- Fahrenwald, Arthur W. Flotation machine. 2,806,681, 9-17-57, Cl. 261-93.
- Fahringer, Jerry. Liquid-container pack. 2,782,915, 2-26-57, Cl. 206-65.
- Fahrni, Fred. Board dropping device. 2,790,562, 4-30-57, Cl. 214-6.
- Failing, George E., Co.: *See*—
Alexander, Emmett L. 2,809,856.
Mickle, Virgil C. 2,786,651.
- Fain, Lytton S.: *See*—
Phillips, Harry L., and Fain. 2,817,273.
- Fain, Morton E., and R. W. Alarie, to Tower Iron Works Inc. Dry chemical feeder. 2,818,199, 12-31-57, Cl. 222-189.
- Fainman, Morton, and R. A. Swenson, to Standard Oil Co. Grease composition. 2,790,770, 4-30-57, Cl. 252-33.6.
- Fair, William F., to Koppers Co., Inc. Bituminous composition. 2,805,954, 9-10-57, Cl. 106-278.
- Fair, William F., Jr.: *See*—
Christensen, John C., and Fair. 2,787,557.
- Fairbairn Lawson Combe Barbour Ltd.: *See*—
Cattr, Jean, and Humblot. 2,808,071.
- Fairbank, Murry N.: *See*—
Pierce, Norton T., Bartlett, Erikson, Fairbank, McCune, and Wright. 2,784,653.
- Fairbank, Murry N., to Polaroid Corp. Photographic apparatus and photographic product usable therewith. 2,778,734, 1-22-57, Cl. 96-29.
- Fairbank, Murry N., to Polaroid Corp. Photographic apparatus and process. 2,780,972, 2-12-57, Cl. 95-13.
- Fairbank, Murry N., to Polaroid Corp. Photographic apparatus. 2,780,974, 2-12-57, Cl. 95-89.
- Fairbank, Murray N., to Polaroid Corp. Self-developing camera including temperature-compensated timing means. 2,794,377, 6-4-57, Cl. 95-13.
- Fairbank, Murry N., to Polaroid Corp. Photographic apparatus. 2,797,625, 7-2-57, Cl. 95-13.
- Fairbank, Murray N., W. J. McCune, Jr., R. R. Wareham, and S. B. Whittier, to Polaroid Corp. Photographic apparatus. 2,794,376, 6-4-57, Cl. 95-13.
- Fairbank, Murray N., and R. R. Wareham, to Polaroid Corp. Photographic apparatus. 2,804,811, 9-3-57, Cl. 95-13.
- Fairbanks, Charles W.: *See*—
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- Fairbanks Co., The: *See*—
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- Fairbanks, Gordon J., to Stewart-Warner Corp. Internal combustion heater having means for relief of pulsations. 2,801,685, 8-6-57, Cl. 158-1.
- Fairbanks, Morse & Co.: *See*—
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Davids, John H. 2,780,211.
Fischer, Walther C. 2,791,988.
Lauler, Louis J., and Thorsson. 2,780,800.
Long, James. 2,780,179.
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Renken, Harry J. 2,780,210.
- Fairbrother, Forrest, Jr.: *See*—
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Boyajan, John A. 2,777,058.
 Doyle, Irving W., and Nash. 2,796,009.
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 Selwood, George, Fuell, and Rutledge. 2,810,399.

Fairfield, William E., to Size Control Co., a division of American Gage & Machine Co. Adjustable depth flush pin gauge. 2,816,364, 12-17-57, Cl. 33-170.

Fairgrieve, Donald P., to Fairgrieve & Son, Ltd. Roll stoppage means for wringers. 2,791,115, 5-7-57, Cl. 67-253.

Fairgrieve & Son, Ltd.: See—
 Fairgrieve, Donald P. 2,791,115.

Fairhaven Properties Corp.: See—
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Fairmount Chemical Co., Inc.: See—
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Fairweather, John R. Gasoline dispensing apparatus. 2,804,238, 8-27-57, Cl. 222-17.

Fairweather, Starr W. Apparatus for refrigerating foodstuffs. 2,781,643, 2-19-57, Cl. 62-87.

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 Wellington, Joseph C., Jr., Hinde, and Fairweather. 2,800,594.

Fairweather, Stephen H., to Thompson Products, Inc. Magnetic speed sensing system. 2,790,126, 4-23-57, Cl. 318-328.

Fairweather, Stephen H., to Thompson Products, Inc. Load division trim control. 2,802,952, 8-13-57, Cl. 307-57.

Fairweather, Stephen H., W. L. Hinde, and K. Seldner, to Thompson Products, Inc. Load division trim control by interconnected sensing devices. 2,800,593, 7-23-57, Cl. 307-57.

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Faizi, Salih. Target with electrical indicator. 2,789,822, 4-23-57, Cl. 273-102.2.

Falck, Harry C.: See—
 Johns, Edward, and Falck. 2,792,808.

Falco, Elvira A., G. B. Elion, and G. H. Hitchings, to Burroughs Wellcome & Co. (U. S. A.) Inc. Oxazolopyrimidines and method of preparing same. 2,807,616, 9-24-57, Cl. 260-256.4.

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Falcon Electronics Corp.: See—
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Falconbridge Nickel Mines Ltd.: See—
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 Thornhill, Philip G. 2,813,016.

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Faler, John A., to Kolene Corp. Apparatus for cleaning metal. 2,783,892, 3-5-57, Cl. 210-55.

Faler, John A., to Kolene Corp. Dipping bath pot. 2,789,807, 4-23-57, Cl. 263-11.

Faler, John A., G. W. Allen, and R. H. Stanton, to Kolene Corp. Metal cleaning apparatus. 2,815,614, 12-10-57, Cl. 51-164.

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Falge, Robert N., to General Motors Corp. Lighting element for automotive vehicle lamps. 2,814,749, 11-26-57, Cl. 313-115.

Falge, Robert N., and H. C. Mead, to General Motors Corp. Combination direction signal lamp. 2,783,452, 2-26-57, Cl. 340-73.

Falge, Robert N., and H. C. Mead, to General Motors Corp. Vehicle tail, stop, and turn signal lamp. 2,800,641, 7-23-57, Cl. 340-67.

Falge, Robert N., and C. W. Miller, to General Motors Corp. Override control for automatic headlamp dimmer. 2,806,180, 9-10-57, Cl. 315-83.

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Falk, Harold W., to Wright Products Inc. Door check. 2,812,533, 11-12-57, Cl. 16-16.

Falk, Harold W. Door knob. 2,812,967, 11-12-57, Cl. 292-347.

Falk, Irving M., to The Nu Pocket Method Co. Garment pocket. 2,800,663, 7-30-57, Cl. 2-247.

Falk, Joseph. Leak detector kit. 2,799,882, 7-23-57, Cl. 15-140.3.

Falk, Melvin. Arch support. 2,786,282, 3-26-57, Cl. 36-71.

Falk, William J. Calendar attachment for telephones. 2,795,877, 6-18-57, Cl. 40-10.5.

Falkenthal, Erwin E. Hot air heater. 2,777,934, 1-15-57, Cl. 219-39.

Fall, Herbert S. Electronic assembly chassis supporting track. 2,809,085, 10-8-57, Cl. 312-323.

Fall, Herbert S. Extensible chassis carrier. 2,809,086, 10-8-57, Cl. 312-323.

Fall, Wilfrid, to Pullman-Standard Car Mfg. Co. Window header construction. 2,806,437, 9-17-57, Cl. 105-397.

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Fallert, Clifford D., to Crown Zellerbach Corp. Battery shipping container. 2,779,527, 1-29-57, Cl. 229-39.

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Fallon, Albin F. Splined arbors. 2,788,978, 4-16-57, Cl. 279-1.

Fallon, Chester J., and H. W. Taggart. Telescopic gun sight mounting. 2,782,507, 2-26-57, Cl. 33-50.

Fallows, Albert N., to I-T-E Circuit Breaker Co. Disconnecting switch blade latch and pry out mechanism. 2,787,690, 4-2-57, Cl. 200-169.

Falls, John J., to The Standard Electrical Tool Co. Grinding apparatus. 2,791,067, 5-7-57, Cl. 51-72.

Falz, Friedrich K., to H. G. Weber & Co., Inc. Feeding means for slicing machine. 2,815,782, 12-10-57, Cl. 146-151.

Falzone, Joseph S. Hammer with detachable facings. 2,776,689, 1-8-57, Cl. 145-29.

Falzone, Joseph S. Fuel mixing means. 2,784,069, 3-5-57, Cl. 48-180.

Falzone, Joseph S. Fuel mixing means. 2,789,041, 4-16-57, Cl. 48-180.

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Fandoux, Paul G., to Societe Nationale de Constructions Aeronautiques du Sud-Ouest (S. N. C. A. S. O.). Aircraft auxiliary jet engine nacelle. 2,810,534, 10-22-57, Cl. 244-58.

Fannen, John. Muffling device for pneumatic tools of the turbine type. 2,789,652, 4-23-57, Cl. 181-36.

Fannen, John. Muffler attachment for air driven tools of the impact type. 2,789,653, 4-23-57, Cl. 181-36.

Fannen, John, to Super Mold Corp. of California. Inside curing rim. 2,817,877, 12-31-57, Cl. 18-18.

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Fanning, William I. Roll paper dispenser. 2,805,029, 9-3-57, Cl. 242-55.53.

- Fano, Roberto M., to the United States of America as represented by the Secretary of the Navy. Wave guide termination. 2,804,598, 8-27-57, Cl. 333-22.
- Fanslow, John R., to Kimberly-Clark Corp. Paper stock consistency regulation. 2,815,763, 12-10-57, Cl. 137-92.
- Fanslau, Herman: *See*—
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- Fansteel Metallurgical Corp.: *See*—
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- Fante, Harry H., and A. T. Gonias, to Rockwell Spring and Axle Co. Machine for bending preformed sinuous wire strips. 2,777,476, 1-15-57, Cl. 140-71.
- Farace, Stephen T. Cooker for cylindrical food articles. 2,788,735, 4-16-57, Cl. 99-443.
- Farafonov, Wladimir M. Continuous carbonization process and apparatus for solid carbonaceous materials. 2,787,584, 4-2-57, Cl. 202-16.
- Farah, Alexander J., and J. Di Costanza; said Di Costanza assor, to said Farah. Combination picnic cart. 2,780,474, 2-5-57, Cl. 280-41.
- Faranda, Anthony, to McCann-Erickson Inc. Footwear actuated noise maker. 2,811,811, 11-5-57, Cl. 46-175.
- Farbenfabriken Bayer: *See*—
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- Farber, Boris. Combined boat cushion and life preserver. 2,814,056, 11-26-57, Cl. 9-17.
- Farber, Eduard, and M. Sciascia, to Timber Engineering Co. Hardening condensation products of furfuryl alcohol. 2,813,846, 11-19-57, Cl. 260-67.
- Farber, Frank: *See*—
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- Farber, Monroe, to Fairchild Camera and Instrument Corp. Stylus indexing arrangement for engraving machines. 2,788,255, 4-9-57, Cl. 346-77.
- Farber, Monroe, to Fairchild Camera and Instrument Corp. Characteristic correction system for photoelectric engraving machines. 2,813,925, 11-19-57, Cl. 178-6.6.
- Farber, Monroe, to Fairchild Camera and Instrument Corp. Semi-automatic contrast control system for photoelectric engraving machines. 2,813,926, 11-19-57, Cl. 178-6.6.
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Schmetterling, Arie, and Krekeler. 2,785,210.
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- Fareri, Elizabeth L., and J. P. Pellegrini, Jr., to Gulf Research & Development Co. Hydrochlorination process. 2,812,341, 11-5-57, Cl. 260-408.
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- Faribaut Woolen Mill Co.: *See*—
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- Farinacci, Nicholas T. Oxidation of organic compounds with a chromic oxidizing agent. 2,794,813, 6-4-57, Cl. 260-376.
- Faris, Robert B., Jr.: *See*—
Wells, Elwood D., and Faris. 2,786,775.
- Farison, Glenn S., to Essex Wire Corp. Automobile door switch. 2,779,833, 1-29-57, Cl. 200-61.82.
- Farkas, Adalbert, A. F. D'Alessandro, and R. Rosenthal, to Aries Associates, Inc. Production of terephthalonitrile. 2,784,212, 3-5-57, Cl. 260-465.
- Farkas, Adalbert, A. F. D'Alessandro, and R. Rosenthal, to Aries Associates, Inc. Production of terephthalonitrile. 2,784,213, 3-5-57, Cl. 260-465.
- Farkas, Thomas P.: *See*—
Sims, James S., Jr., and Farkas. 2,809,714.
- Farkasch, Claire C. Drip cup bail. 2,804,990, 9-3-57, Cl. 220-94.
- Farley, Eugene D.: *See*—
Brooks, Linzy W. 2,807,827.
- Farley, Marvin P. Adjustable optical prism system for producing variation in size of images in projectors and cameras. 2,816,481, 12-17-57, Cl. 88-57.
- Farley, Robert N. Table leg extension. 2,780,507, 2-5-57, Cl. 311-109.
- Farley, Walter M. Apparatus for making ferrotype prints. 2,800,846, 7-30-57, Cl. 95-105.
- Farly, George M.: *See*—
Appleton, William H., and Farly. 2,782,993.
- Farm Devices, Inc.: *See*—
Durkee, James D. 2,796,485.
- Farmer, Delbert L., to The Cincinnati Tool Co. Veneer clamp. 2,779,364, 1-29-57, Cl. 144-281.
- Farmer, Edward B. Timing switch. 2,800,536, 7-23-57, Cl. 200-31.
- Farmer Feeder Co., Inc.: *See*—
Golay, Donaven E. 2,786,445.
Golay, Donovan E. 2,809,607.
- Farmer, Michael H.: *See*—
Pokorny, Oldrich S., and Farmer. 2,777,758.
- Farmer, Stanley E., to Hyster Co. Load grip side shift for lift trucks. 2,795,346, 6-11-57, Cl. 214-653.
- Farmers and Merchants National Bank of Los Angeles: *See*—
Miller, Robert P., Mathewson, and Meinzer. 2,777,578.

- Farmingdale Corp., The: *See*—
Ericson, Albert A. 2,732,798.
Modrovsky, Joseph, and Sherwood. 2,777,394.
- Farmington Co., Inc., The: *See*—
Wasley, Arthur J. 2,806,258.
- Farnwald, John A., and S. M. Johnson, to The Johnson Rubber Co. Pressure fluid operated tool actuator. 2,816,608, 12-17-57, Cl. 164-95.
- Farnam, Norman J. Truck mounted hoist. 2,804,216, 8-27-57, Cl. 212-53.
- Farnham, Alfred G., to Union Carbide Corp. Glycidyl polyether of a polyphenylol. 2,801,989, 8-6-57, Cl. 260-47.
- Farnham, Alfred G., and E. P. Klosek, to Union Carbide Corp. Manufacture of diphenylol methanes. 2,812,364, 11-5-57, Cl. 260-619.
- Farnham, Frederick R., to Gibson Electric Co. Electrical contacts. 2,799,081, 7-16-57, Cl. 29-195.
- Farnham, Merle G., to Dairyland Food Laboratories, Inc. Enzyme-containing powder and enzyme-modified product thereof. 2,794,743, 6-4-57, Cl. 99-56.
- Farnon, Robert B.: *See*—
Berg, David R., and Farnon. 2,813,767.
- Farnsworth, Alec G.: *See*—
Gresham, Harold E., Farnsworth, and Hall. 2,781,263.
Gresham, Harold E., Farnsworth, Hall, and Doyle. 2,781,262.
- Farnsworth, Lawrence, 50% to M. Seft. Control and feed mechanism for centering and drilling machines. Re. 24,289, 3-19-57, Cl. 77-18.
- Farnsworth, Ralph P.: *See*—
Schmidt, Lloyd K. 2,787,844.
- Farnsworth Research Corp.: *See*—
Henderson, J. Alvin. 2,777,948.
Larson, Christian C. 2,818,466.
- Farny, Paul, and E. Weidmann. Internal combustion engine. 2,799,269, 7-16-57, Cl. 123-41.43.
- Farquhar, Melville T., and D. H. Revell, to Reynolds Metals Co. Securing means for curtain wall panels. 2,809,726, 10-15-57, Cl. 189-34.
- Farquharson, Kenneth J., to American Machine & Foundry Co. Mechanism for orienting and transferring buttons. 2,783,897, 3-5-57, Cl. 214-1.
- Farr Co.: *See*—
Long, Richard H. 2,776,384.
- Farr, Harold K., to the United States of America as represented by the Secretary of the Navy. Wave guide directional coupler. 2,804,597, 8-27-57, Cl. 333-10.
- Farr, John B.: *See*—
Kraus, Edward W., and Farr. 2,795,026.
- Farr, Kenneth E.: *See*—
Balash, Edward J., and Farr. 2,795,699.
- Farr, Kenneth E., to Westinghouse Electric Corp. Television scanning unit. 2,777,089, 1-8-57, Cl. 315-27.
- Farr, Kenneth E., C. W. Baugh, Jr., and C. B. Heffron, to Westinghouse Electric Corp. Synchronizing system for color television. 2,780,668, 2-5-57, Cl. 178-5.4.
- Farr, Robert E., and G. T. H. D. and B. C. Niederhauser. Antenna rotating means. 2,787,169, 4-2-57, Cl. 74-506.
- Farrand, Clair L., to Farrand Optical Co., Inc. Electron lens. 2,786,260, 3-26-57, Cl. 29-25.16.
- Farrand Optical Co., Inc.: *See*—
Farrand, Clair L. 2,786,260.
Rosin, Seymour. 2,787,701.
Tripp, Robert W., and Cox. 2,813,458.
Tronnier, Albrecht W. 2,807,983.
- Farrar, Martin W., to Monsanto Chemical Co. Process for preparing vinyl ketone adducts. 2,812,346, 11-5-57, Cl. 260-468.
- Farrar, Martin W., H. Raffelson, and W. S. Knowles, to Monsanto Chemical Co. Compounds for synthesizing steroids. 2,786,836, 3-26-57, Cl. 260-239.55.
- Farrar, Martin W., H. Raffelson, and W. S. Knowles, to Monsanto Chemical Co. Compounds for synthesizing steroids. 2,786,837, 3-26-57, Cl. 260-239.55.
- Farrar, Renard W., to Phillips Petroleum Co. Casing running choke. 2,804,928, 9-3-57, Cl. 166-224.
- Farrel-Birmingham Co., Inc.: *See*—
De Matteo, Adolph J. 2,815,036.
Hultgren, Gunnar V. 2,814,914.
Roberts, Roland R. 2,783,687.
Tippett, Philip V. 2,783,870.
Whittum, Warren C. 2,785,021.
- Farrell, Eugene F., to Borg-Warner Corp. Hydrodynamic coupling. 2,784,675, 3-12-57, Cl. 103-115.
- Farrell, Edward M.: *See*—
De Felice, Orlando. 2,796,802.
- Farrell, Eugene F., to Borg-Warner Corp. Vaned elements and method of making the same. 2,799,228, 7-16-57, Cl. 103-115.
- Farrell, Henry T. Measuring device for liquid in a container. 2,807,166, 9-24-57, Cl. 73-292.
- Farrell, Hugh: *See*—
Alexander, Henry L., and Farrell. 2,790,738.
- Farrell, James M. Odometers. 2,807,417, 9-24-57, Cl. 235-95.
- Farrell, John P., to Robert L. Berner Co. Ventilated container. 2,801,742, 8-6-57, Cl. 206-65.
- Farrell, Lawrence S.: *See*—
Kelly, Earl M., Kivari, and Farrell. 2,779,731.
- Farrell, Thomas C., to Rockwell Mfg. Co. Rotor vane control. Re. 24,302, 4-16-57, Cl. 103-143.
- Farrell, Thomas H., R. E. Kugler, and D. I. Mayne, Jr., to Eastman Kodak Co. Photographic element having a polystyrene support. 2,816,027, 12-10-57, Cl. 96-87.
- Farrelly, Peter, and E. O. Ridgway, to Ridbo Laboratories, Inc. Dehydroabiatic acid derivatives and method for making the same. 2,793,232, 5-21-57, Cl. 260-586.
- Farrington, Berners C. D'E., and H. G. Hands. Control device to prevent brake mechanism from interfering with coupling of tractor and semi-trailer. 2,800,339, 7-23-57, Cl. 280-420.
- Farrington, Robert K.: *See*—
Farrington, Thayer B. and R. K., Dalzell, and Kurzenberger. 2,798,680.
- Farrington, Thayer B. and R. K., H. L. Dalzell, and R. F. Kurzenberger, to The Thompson Electric Co. Lowering hanger with constant tension. 2,798,680, 7-9-57, Cl. 242-107.13.
- Farries, Alexander G., to D. Napier & Sons Ltd. De-icing or anti-icing apparatus. 2,787,694, 4-2-57, Cl. 219-19.
- Farris, Clayton, to The Truettor Corp. Tandem axle suspension. 2,807,474, 9-24-57, Cl. 280-104.5.
- Farris, Victor W. Safety valves. 2,813,539, 11-19-57, Cl. 137-469.
- Farriss, Carl W.: *See*—
Shaw, Edwin C., and Farriss. 2,790,456.
- Farrow, Benjamin J. Means for cutting uniformly spaced tenons. 2,777,485, 1-15-57, Cl. 144-198.
- Farrow, Hunter A.: *See*—
Simmons, Curtis R., and Farrow. 2,776,643.
- Farrow, Joseph. Holder and roller of collapsible tubes. 2,808,963, 10-8-57, Cl. 222-100.
- Farwell, Frederick F., Sr. Rudder for screw driven vessels. 2,800,150, 7-23-57, Cl. 114-166.
- Farwick, Theodore, Sr., to American Gas Furnace Co. Blow-pipe assembly. 2,809,663, 10-15-57, Cl. 137-625.41.
- Fasano, Salvatore: *See*—
Willrich, Carl, Saretto, and Fasano. 2,797,488.
- Fasce, Egi V.: *See*—
Aldridge, Clyde L., and Fasce. 2,812,356.
Buchmann, Fred J., Mertzweiler, and Fasce. 2,796,436.
- Fasce, Egi V., and N. L. Cull, to Ezzo Research and Engineering Co. Diesters of oxo glycols. 2,802,024, 8-6-57, Cl. 260-488.
- Fasching, Leander F., and F. H. Bickman. Bale disintegrating and shredding apparatus. 2,792,183, 5-14-57, Cl. 241-222.
- Fasciati, Alfred: *See*—
Buehler, Arthur, Fasciati, and Zickendraht. 2,788,342.
Buehler, Arthur, Fasciati, and Zickendraht. 2,788,343.
- Fasciati, Alfred, to Ciba Ltd. New monoazo-dyestuffs. 2,795,576, 6-11-57, Cl. 260-153.
- Faino, Edna D. Method of making yarn pictures. 2,798,328, 7-9-57, Cl. 41-34.
- Faske, Arthur W. Bee robber and queen excluder. 2,811,727, 11-5-57, Cl. 6-4.
- Fas'naill, Inc.: *See*—
Working, Loren F., Jr. 2,784,405.
- Fassbender, Fred, to S. M. Frank & Co., Inc. Smoking pipes. 2,808,837, 10-8-57, Cl. 131-225.
- Fassotte, Adolphe D. H. L., to Compagnie des Metaux d'Overpelt-Lommel et de Corthalie S. A. Process for granulating sulfide ores or the like. 2,779,671, 1-29-57, Cl. 75.3.
- Fast, Johann D., to North American Philips Co., Inc. Method of making rolled ferrosilicon alloys. 2,802,761, 8-13-57, Cl. 148-113.
- Fast, John E., & Co.: *See*—
Musgrave, William J. 2,782,134.
- Fastee Products, Inc.: *See*—
O'Brien, Vincent R. 2,807,816.
- Fasth, Axel L., to Aktiebolag Magnus. Washing-up apparatus. 2,816,558, 12-17-57, Cl. 134-56.
- Faszczuk, Roman. Driving device for sleighs. 2,793,704, 5-28-57, Cl. 180-6.
- Fata, Bernard. Hinge. 2,777,155, 1-15-57, Cl. 16-164.
- Fata, Bernard. Machine for making tapered dove-tails. 2,790,472, 4-30-57, Cl. 144-86.
- Fate, Jesse E., Jr. Traveling block. 2,778,602, 1-22-57, Cl. 254-192.
- Fate-Root-Health Co., The: *See*—
Van Wagner, Rollo E. 2,801,653.
- Fath, Douglas W., and F. S. Horner, Jr., to Cutler-Hammer, Inc. Saturable reactor Ward Leonard control system. 2,783,424, 2-26-57, Cl. 318-145.
- Fatica, John A. Combination axe and adz with adjustable blade. 2,804,109, 8-27-57, Cl. 145-2.
- Fato, Gildo: *See*—
Kordig, James W., Fato, and Raczyński. 2,777,781.
- Fatt, Irving, to California Research Corp. Process for treating oil well formations. 2,799,342, 7-16-57, Cl. 166-38.
- Fatzinger, Russell C., and E. J. Gwallis. Animal target effigy unit. 2,812,947, 11-12-57, Cl. 273-102.4.
- Faucette, Charles D.: *See*—
Hackney, Edward J., Faucette, and Darkis. 2,778,403.
Hackney, Edward J., Faucette, and Darkis. 2,805,671.
- Faucher, Andrew J. Cooking apparatus. 2,815,888, 12-10-57, Cl. 222-166.
- Faughnder, Ila E. Combination waffle fork and spatula. 2,801,873, 8-6-57, Cl. 294-7.
- Faulhaber, Fritz, to Voigtlander Aktiengesellschaft. Device for transporting the film and setting the shutter in photographic cameras. 2,791,164, 5-7-57, Cl. 95-31.

- Faulhaber, James W., F. W. Fisher, H. C. Simons, and T. W. Murray, to Eaton Mfg. Co. Package unit vehicle air conditioning apparatus. 2,804,756, 9-3-57, Cl. 62—117.1.
- Faulkingham, Clifford H. Fluid brake with filtering means. 2,808,132, 10-1-57, Cl. 188—152.
- Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Line circuit using transistors. 2,785,229, 3-12-57, Cl. 179—18.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Impulse senders. 2,794,976, 6-4-57, Cl. 340—359.
- Faulkner, Alfred H. Electrical musical instrument. 2,811,069, 10-29-57, Cl. 84—101.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Alarm system. 2,817,074, 12-17-57, Cl. 340—213.
- Faulkner, Carl, to Orthopedic Equipment Co. Orthopedic splint for the feet. 2,804,070, 8-27-57, Cl. 128—80.
- Faulkner, Ellis M., 3rd, to Albany Billiard Ball Co. Method of making a bowling pin. 2,814,835, 12-3-57, Cl. 18—59.
- Faulkner, George D. Apparatus for equalizing the net contents of containers. 2,788,808, 4-16-57, Cl. 141—121.
- Faull, John T.: *See*—
Bailey, Roy W., and Faull. 2,798,585.
- Faulstich, Marga.: *See*—
Geffcken, Walter, Eden, and Faulstich. 2,781,411.
- Faultless Caster Corp.: *See*—
Noelting, Clarence B., and Skupas. 2,787,804.
Skupas, John A. 2,794,205.
- Faultless Rubber Co., The: *See*—
Hoffman, Herbert O., and Wiles. 2,815,753.
Hoffman, Herbert O., and Wiles. 2,815,754.
- Faulwetter, Roy C. Coated stone aggregate. 2,776,914, 1-8-57, Cl. 117—100.
- Faus, Harold T., and D. E. Ridgley, to General Electric Co. Tellurium-bismuth thermoelectric element. 2,788,382, 4-9-57, Cl. 136—5.
- Faus, Harold T., F. R. Sias, and J. R. MacIntyre, to General Electric Co. Self-starting synchronous motor. 2,794,137, 5-28-57, Cl. 310—164.
- Faus, Harold T., and C. L. Pike, to General Electric Co. Sensitive relay. 2,810,037, 10-15-57, Cl. 200—87.
- Fausser, Giacomo, to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Process for the production of urea. 2,777,877, 1-15-57, Cl. 260—555.
- Fausser, Oscar, Jr., to Oscar Martin Mfg. Co. Compartment heating device. 2,788,943, 4-16-57, Cl. 237—32.
- Fauske, Sig C., to Phillips Petroleum Co. Removal of oxygen from streams containing hydrocarbon diolefins and the like. 2,816,096, 12-10-57, Cl. 260—82.1.
- Faust, Bernard. Apparatus for use with tone producing devices. 2,793,554, 5-28-57, Cl. 84—126.
- Faust, Delbert G., to C. A. Norgren Co. Pilot controlled pressure regulator. 2,806,481, 9-17-57, Cl. 137—116.5.
- Faust, Madeleine.: *See*—
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- Faust, Otto. Luminous gas discharge tube more particularly for advertising purposes. 2,779,889, 1-29-57, Cl. 313—109.5.
- Faust, Ralph M.: *See*—
Hensgen, Bernard T., Palmer, and Faust. 2,802,658.
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- Faustini, Albert J., and R. T. McKenzie, to General Electric Co. Support strap for electron gun assemblies. 2,778,966, 1-22-57, Cl. 313—82.
- Faustyn, Norman W.: *See*—
Gould, James C., and Faustyn. 2,815,567.
- Fauth, Frederick E.: *See*—
Day, Carl L., and Fauth. 2,783,785.
Day, Carl L., and Fauth. 2,815,148.
- Favre, John A., to General Electric Co. Reciprocating switching device. 2,811,596, 10-29-57, Cl. 200—19.
- Fawcett, Beecher C. Sheet traveling and handling device. 2,796,259, 6-18-57, Cl. 271—86.
- Fawcett, Frank S., and B. W. Howk, to E. I. du Pont de Nemours and Co. Conversion of methanol to hydrocarbons with metallic cobalt catalysts. 2,793,241, 5-21-57, Cl. 260—682.
- Fawcett, George R. Automatically operated variable shotgun choke. 2,779,119, 1-29-57, Cl. 42—79.
- Fawcett, Millard F. Rotary impeller. 2,787,448, 4-2-57, Cl. 259—134.
- Fawdrey, Cecil A., and J. Barker, to Metropolitan-Vickers Electrical Co. Ltd. Fluid-blast circuit breaker. 2,790,050, 4-23-57, Cl. 200—148.
- Fawick Corp.: *See*—
Fawick, Thomas L. 2,816,626.
Fawick, Thomas L., and Bennett. 2,790,523.
Walsh, Joseph S. 2,812,960.
- Fawick Flexi-Grip Co.: *See*—
East, James V. T. 2,782,035.
- Fawick, Thomas L. Pneumatic cushioning assembly for vehicles and the like. 2,790,634, 4-30-57, Cl. 267—11.
- Fawick, Thomas L., to Fawick Corp. Pressure fluid braking system for tractor-trailer vehicles. 2,816,626, 12-17-57, Cl. 188—3.
- Fawick, Thomas L., and J. D. Bennett, to Fawick Corp. Protectively sealed brake assembly. 2,790,523, 4-30-57, Cl. 188—218.
- Fawkham Developments Ltd.: *See*—
Knibbs, Norman V. S., and Thyer. 2,812,592.
- Faxen, Per T., to Svenska Aeroplan Aktiebolaget. Target hit indicator. 2,783,047, 2-26-57, Cl. 273—102.2.
- Faximile, Inc.: *See*—
Clurman, Stanley P. 2,785,944.
Deuth, Albert F., and Stamps. 2,792,448.
Schwartz, Robert S. 2,776,251.
Schwartz, Robert S. 2,776,252.
Schwartz, Robert S. 2,786,807.
Smith, John W. 2,810,862.
Stamps, George M. 2,815,397.
- Fay, Charles H., and R. P. Gilmore, to Shell Development Co. System for analyzing the composition of fluid mixtures. 2,785,374, 3-12-57, Cl. 324—1.
- Fay, Fred A. Barreira. 2,813,533, 11-19-57, Cl. 132—48.
- Fay, James P., to Teletrek Corp. Apparatus for and method of recording. 2,809,238, 10-8-57, Cl. 179—100.2.
- Fay, Mervin A.: *See*—
Heuer, Russell P., and Fay. 2,791,116.
- Fay, Phillip S., and N. Visnapu, to The Standard Oil Co. Electrolytic regeneration of spent alkylation sulfuric acid. 2,793,180, 5-21-57, Cl. 204—130.
- Fay, Robert J.: *See*—
Scharf, Philip T., Keenan, and Fay. 2,815,695.
- Fay, Walter M. Selective trigger operating mechanism for a double barrel shotgun. 2,791,053, 5-7-57, Cl. 42—42.
- Fayles, Robert R., to Lukens Steel Co. Method of clad fabrication. 2,786,266, 3-26-57, Cl. 29—475.
- Feagans, Perry L., to The Garrett Corp. Machine for making impellers. 2,782,691, 2-26-57, Cl. 90—13.
- Featherly, Robert L., to The Dow Chemical Co. Cathodic protection apparatus. 2,802,781, 8-13-57, Cl. 204—197.
- Featherly, William E., ½ to J. Burgo. Device for facilitating the axial adjustment of rollers on printing presses. 2,800,649, 7-23-57, Cl. 340—282.
- Featonby, Joseph, to National Research Council. Turbine with adjustable stator blades. 2,809,803, 10-15-57, Cl. 253—78.
- Febraro, Mario. Container having sediment traps. 2,779,472, 1-29-57, Cl. 210—57.
- Fechheimer, Paul R., to The Karl Kiefer Machine Co. Bypass system for filling machines. 2,789,589, 4-23-57, Cl. 141—141.
- Fechheimer, Paul R., and E. F. Rowekamp, to The Karl Kiefer Machine Co. Filling machine incorporating means for purging air from containers prior to filling. 2,779,358, 1-29-57, Cl. 141—92.
- Fechter, Harry R., to the United States of America as represented by the Secretary of the Navy. Secondary emission monitor. 2,814,730, 11-26-57, Cl. 250—83.
- Fedde, George A., to Philco Corp. Phase error correction apparatus for color television indexing system. 2,782,252, 2-19-57, Cl. 178—5.4.
- Feder, Harry.: *See*—
Sundelin, Ronald R., and Feder. 2,779,978.
Sundelin, Ronald R., and Feder. 2,779,979.
Sundelin, Ronald R., and Feder. 2,779,983.
- Federal Auto Products Co., Inc.: *See*—
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- Federal Carton Corp.: *See*—
Dorfman, Irving. 2,801,754.
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- Federal Electric Products Co.: *See*—
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Christensen, Paul M. 2,784,278.
Christensen, Paul M. 2,789,179.
Christensen, Paul M. 2,810,048.
Christensen, Paul M., and Wiktor. 2,811,605.
Cole, Thomas M. 2,803,721.
Cole, Thomas M., and Christensen. 2,811,604.
Kipp, Calvin P. 2,798,935.
Norden, Alexander R. 2,786,113.
Norden, Alexander R. 2,811,606.
- Federal Foundry Supply Co., The: *See*—
Herbruggen, Heinrich J. B. 2,779,071.
Herbruggen, Heinrich J. B. 2,779,074.
Herbruggen, Heinrich J. B. 2,790,215.
Herbruggen, Heinrich J. B. 2,798,266.
- Federal Machine & Tool Co., Inc.: *See*—
Ellins, Arthur. 2,793,841.
- Federal Machine and Welder Co.: *See*—
Deffenbaugh, James F. 2,815,425.
Doutt, Kingsley A. 2,790,065.
Gladd, Joseph M., and Goldner. 2,805,318.
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Soman, Robert, Parker, and Loucks. 2,815,254.
- Federal-Mogul-Bower Bearings, Inc.: *See*—
Halvorsen, James V., and Wilson. 2,802,705.
Johnson, Lloyd A., Christensen, and Martin. 2,782,077.
Reynolds, Noel S. 2,794,662.
Reynolds, Noel S. 2,797,938.
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- Federal-Mogul Corp.: *See*—
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- Federal Pacific Electric Co.: *See*—
Christensen, Paul M. Re. 24,388.
Cole, Thomas M., and Christensen. 2,776,355.
Cole, Thomas M., and Christensen. 2,811,618.

- Federal Paper Board Co., Inc.: *See*—
 Arneson, Edwin L. 2,801,039.
 Arneson, Edwin L. 2,805,791.
 Arneson, Edwin L. 2,811,250.
 Arneson, Edwin L. 2,811,279.
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- Federal Process Co., The: *See*—
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- Federal Products Corp.: *See*—
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 Worthen, John H. 2,795,855.
- Federal Tool Corp.: *See*—
 Emmert, George W. 2,776,095.
 Emmert, George W. 2,814,383.
 Olson, Raymond J., and Brandt. 2,808,183.
 Olson, Raymond J., and Sabanoff. 2,789,735.
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- Federbush, Peter B., and R. N., to Ringmaster, Inc. Display panels for catalog binders and the like. 2,801,115, 7-30-57, Cl. 281—31.
- Federbush, Richard N.: *See*—
 Federbush, Peter B., and R. N. 2,801,115.
- Federighi, George J., and T. H. Noren. Drinking glass burnishing and washing machine. 2,802,228, 8-13-57, Cl. 15—95.
- Federkiel, Wilhelm: *See*—
 Eisele, Julius, Federkiel, Gassenmeier, and Schuster. 2,813,773.
- Federman, Alfred P., and D. M. Morgenstern; said Federman assor. to said Morgenstern. Method of and apparatus for die casting under vacuum. 2,799,066, 7-16-57, Cl. 22—73.
- Federman, Samuel I.: *See*—
 Ashley, Kenneth D., Federman, and Innes. 2,815,331.
- Federn, Klaus, to Carl Schenck Maschinenfabrik G. m. b. H. Dynamic material testing machine. 2,778,222, 1-22-57, Cl. 73—92.
- Federn, Klaus, and H. Haardt, to Carl Schenck Maschinenfabrik G. m. b. H. Balance measuring apparatus for electric rotors. 2,799,168, 7-16-57, Cl. 73—462.
- Federspiel, Jean. Servo-mechanism for regulating the suspension of vehicles. 2,792,235, 5-14-57, Cl. 280—124.
- Federspiel, Jean. Apparatus for the systematic study of the suspension of vehicles. 2,799,158, 7-16-57, Cl. 73—71.7.
- Federwitz, Theodore A., to Scriptomatic, Inc. Duplicating machines. 2,814,248, 11-26-57, Cl. 101—134.5.
- Fedje, Ida J. Grater with guard means. 2,796,900, 6-25-57, Cl. 146—180.
- Fedor, Andrew J.: *See*—
 Birchler, Robert O., and Fedor. 2,776,781.
- Fedoryszyn, Edward F. Music box. 2,812,680, 11-12-57, Cl. 84—102.
- Fee, William O. Resilient manually operable dispensers for viscous material. 2,804,995, 9-3-57, Cl. 222—95.
- Feed-O-Matic Mfg. Corp.: *See*—
 Wallace, Maurice E., and R. F. 2,891,610.
- Feed Service Corp.: *See*—
 Anderson, Philip C., and Rapp. 2,808,332.
- Feeley, Frank G., Jr., to Riley Stoker Corp. Slagging flyash. 2,811,953, 11-5-57, Cl. 122—240.
- Feeman, James F., to Althouse Chemical Co. Disazo compounds. 2,795,577, 6-11-57, Cl. 260—153.
- Feeman, James F., to Althouse Chemical Co. Disazo dyes. 2,795,578, 6-11-57, Cl. 260—153.
- Feehey, Robert. Hand-attached accessory device for infants. 2,798,482, 7-9-57, Cl. 128—133.
- Feehey, Thomas A., and R. D. Adams, to Coleman Engineering Co. Analog-to-digital converter. 2,809,369, 10-8-57, Cl. 340—347.
- Feenstra, Luitzen: *See*—
 Rooney, Sidney C., and Feenstra. 2,783,098.
- Feezell, Rasey R.: *See*—
 Ottinger, Oscar H., and Feezell. 2,790,949.
- Fefer, Gregory, and D. W. Rudorff, to Sparcatron Ltd. Methods and apparatus for surface grinding materials. 2,802,929, 8-13-57, Cl. 219—69.
- Feher, Joseph J., to American Can Co. Dispensing top closure assembly and method of attaching same to a container. 2,784,892, 3-12-57, Cl. 229—7.
- Fehlmann, Ewald. Threader for sewing machine needles. 2,777,622, 1-15-57, Cl. 223—99.
- Fehlmann, Hans B., to A. G. fur Grundwasserbauten. Installation for making bores in a stratum. 2,783,972, 3-5-57, Cl. 235—24.
- Fehlmann, Hans B., to A. G. fur Grundwasserbauten. Installation for making a borehole in a stratum. 2,810,547, 10-22-57, Cl. 255—1.
- Fehr, Edith B., and A. P. Haase, to General Electric Co. Electric discharge device structure. 2,787,723, 4-2-57, Cl. 313—261.
- Feibusch, E. Co. Inc.: *See*—
 Feibusch, Emanuel. 2,794,549.
- Feibusch, Emanuel, to E. Feibusch Co. Inc. Swatch cards. 2,794,549, 6-4-57, Cl. 206—82.
- Feichtinger, Hans: *See*—
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- Feichtinger, Hans, to Ruhrchemie Aktiengesellschaft. Production of amino sulfonic acids. 2,806,056, 9-10-57, Cl. 260—513.
- Feichtinger, Hans, H. Tummes, and S. Puschhof, to Ruhrchemie Aktiengesellschaft. Amino-alkyl-sulfonic acid chloride-hydrochlorides. 2,783,198, 2-26-57, Cl. 204—158.
- Feichtinger, Hans, and S. Puschhof, to Ruhrchemie Aktiengesellschaft. Production of N-aminoalkyl-sulfonic acids. 2,815,371, 12-3-57, Cl. 260—513.
- Feick, George, III, to Arthur D. Little, Inc. Liquid-liquid contact apparatus. 2,808,318, 10-1-57, Cl. 23—270.5.
- Feiertag, Arthur W., to Royal McBee Corp. Electric card groover. 2,815,811, 12-10-57, Cl. 164—48.
- Feiertag, Karl M., and L. W. Wightman, to General Electric Co. Dynamoelectric machine housing assembly. 2,778,965, 1-22-57, Cl. 310—254.
- Feig, Jerome H.: *See*—
 Dasher, Norman E., and Feig. 2,792,245.
- Feighner, George C., to Continental Oil Co. Purification of alkaryl sulfonates. 2,806,055, 9-10-57, Cl. 260—505.
- Feigl, Erich, to Trans-Tel Corp. Ultra high frequency converter. 2,802,946, 8-13-57, Cl. 250—40.
- Feigley, David A., Jr.: *See*—
 Baymiller, John W., and Feigley. 2,802,765.
- Feigley, David A., Jr., to Armstrong Cork Co. Method of making felted, fibrous sheet material. 2,786,759, 3-26-57, Cl. 92—21.
- Feild, George B., and W. S. Ropp, to Hercules Powder Co. Vulcanization of latex using organic peroxide. 2,802,891, 8-13-57, Cl. 260—773.
- Feill, Walter: *See*—
 Nurnberg, Werner, and Feill. 2,777,104.
- Fein, Martin L., E. H. Harris, Jr., and E. M. Filachione, to the United States of America as represented by the Secretary of Agriculture. Process for the preparation of acylated derivatives of N-substituted lactamides. 2,817,672, 12-24-57, Cl. 260—404.
- Feinberg, Albert E., to Advance Transformer Co. Apparatus for igniting and operating gaseous discharge devices. 2,788,469, 4-9-57, Cl. 315—138.
- Feinberg, Albert E., to Advance Transformer Co. Apparatus for starting and operating gaseous discharge devices. 2,791,726, 5-7-57, Cl. 315—239.
- Feinberg, Albert E., to Advance Transformer Co. Circuit for starting and operating gaseous discharge devices. 2,813,228, 11-12-57, Cl. 315—138.
- Feinberg, Isidore. Woven label and means for attachment to sweaters by looping machine or the like. 2,790,226, 4-30-57, Cl. 28—78.
- Feinstein, Edward. Method of forming a confection package. 2,796,033, 6-18-57, Cl. 107—54.
- Feinstein, Edward. Food slicing machine. 2,796,103, 6-18-57, Cl. 146—124.
- Feinstein, Joseph, to Bell Telephone Laboratories, Inc. Electron discharge device. 2,813,528, 12-31-57, Cl. 315—39.71.
- Feinstein, Lester, to Sylvania Electric Products Inc. Inertia responsive electro-mechanical transducer. 2,808,524, 10-1-57, Cl. 310—84.
- Feinstein, Louis N., and L. Boggero. Cam chain driving drum for knitting machines. 2,785,555, 3-19-57, Cl. 66—86.
- Feinte, Henri. Electric control means. 2,787,756, 4-2-57, Cl. 323—80.
- Feissel, Henri G., to Compagnie des Machines Bull. Pulse producing system with interrelated repetition frequencies. 2,777,945, 1-15-57, Cl. 250—27.
- Feissel, Henri G., to Compagnie des Machines Bull (Societe Anonyme). Pulse generator and distributor. 2,790,900, 4-30-57, Cl. 250—27.
- Feitl, Rudolf, to Waldes Kohinoor, Inc. Slide fastener manufacture. 2,798,549, 7-9-57, Cl. 164—49.
- Feitl, Rudolf, to Waldes Kohinoor, Inc. Apparatus for applying spring retaining rings to shafts, pins and the like. 2,814,097, 11-26-57, Cl. 29—229.
- Feitl, Rudolf, to Waldes Kohinoor, Inc. Slide fastener manufacture. 2,817,403, 12-24-57, Cl. 164—49.
- Feix, Robert. Drum type spray dryer. 2,787,840, 4-9-57, Cl. 34—57.
- Felbeck, George T., and J. T. Bowen, to Union Carbide Corp. Mining machine-cooling system. 2,812,169, 11-5-57, Cl. 262—7.
- Felber, John, to American Can Co. Fibre blank folding machine with adhesive heating attachment. 2,783,693, 3-5-57, Cl. 93—52.
- Felburg, Buddy M., to Hoffman Electronics Corp. Target structure for three-color cathode ray tubes or the like. 2,818,525, 12-31-57, Cl. 315—21.
- Felch, Edwin P., to Bell Telephone Laboratories, Inc. Crystal oscillator apparatus. 2,801,337, 7-30-57, Cl. 250—36.
- Felch, Edwin P., J. O. Israel, and O. Kummer, to Bell Telephone Laboratories, Inc. Frequency controlled variable oscillator. 2,808,509, 10-1-57, Cl. 250—36.
- Felcus, Otis R. Hot air heating apparatus. 2,790,604, 4-30-57, Cl. 237—2.
- Feld, Samuel. Method of adding fat to feed. 2,784,093, 3-5-57, Cl. 99—7.
- Feldberg, Nicolaas S. T.: *See*—
 Van der Willigen, Paul C., Feldberg, and Otten. 2,809,280.
- Feldbush, Harry A., to Worthington Corp. Rotary compressor. 2,780,406, 2-5-57, Cl. 230—158.
- Feldhausen, Frederick J., Jr.: *See*—
 Copelin, Harry B., and Feldhausen. 2,783,268.
 Copelin, Harry B., and Feldhausen. 2,786,072.

- Feldman, Albert W.: *See*—
Harris, Walter D., Feldman, and Zukel. 2,802,727.
- Feldman, Carl B. H., to Bell Telephone Laboratories, Inc. Band compression system. 2,817,711, 12-24-57, Cl. 179—15.55.
- Feldman, Irving: *See*—
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- Feldman, Irving, and I. Caster. Handle for a box. 2,795,367, 6-11-57, Cl. 229—52.
- Feldman, Louis I., and W. S. Allen, to American Cyanamid Co. 11 beta hydroxylation of steroids by botrytis cinerea. 2,789,940, 4-23-57, Cl. 195—51.
- Feldman, Moe: *See*—
Sussman, Sidney, Haber, and Feldman. 2,789,307.
- Feldman, Paul E.: *See*—
Bay, Alfred P. 2,787,859.
- Feldman, Raymond: *See*—
Koch, Samuel J., Appoldt, and Feldman. 2,811,603.
- Feldman, Samuel H. Cartons. 2,789,751, 4-23-57, Cl. 229—51.
- Feldmeier, Robert H., to Sanitary Processing Equipment Corp. Visible seal sanitary coupling for metal tubing. 2,786,696, 3-26-57, Cl. 285—13.
- Felenchak, William. Combination transferring punch and locating center punch. 2,795,052, 6-11-57, Cl. 33—191.
- Felici, Noel. Electrostatic machine with conveyor or insulating material. 2,781,460, 2-12-57, Cl. 310—6.
- Felici, Noel. System of regulating the output potential of an electrostatic machine. 2,810,878, 10-22-57, Cl. 322—2.
- Felici, Noel, and R. Morel, to Societe Anonyme de Machines Electrostatiques. Electrostatic generator and exciter. 2,798,345, 6-25-57, Cl. 310—6.
- Felici, Noel, and M. Point, to Societe Anonyme de Machines Electrostatiques. Electrostatic generator capable of rapid build-up of potential. 2,818,513, 12-31-57, Cl. 310—6.
- Felix, A., Industries Ltd.: *See*—
Clarke, William H. V. 2,793,669.
- Felix, James R., to Esso Research and Engineering Co. Liquid-liquid contacting apparatus. 2,791,538, 5-7-57, Cl. 196—14.52.
- Felix, James R., R. B. Long, C. H. Holder, and A. L. Saxton, to Esso Research and Engineering Co. Liquid-liquid contacting. 2,791,537, 5-7-57, Cl. 196—14.52.
- Felker, Lloyd L.: *See*—
Crooker, David E., and Frary. 2,777,498.
- Felker, William. Rain shield window sash. 2,783,040, 2-26-57, Cl. 268—123.
- Fell Developments Ltd.: *See*—
Fell, Louis F. R. 2,779,212.
- Fell, Louis F. R., and Bennett-Powell. 2,779,213.
- Fell, Eric T., to Stevensons (Dyers) Ltd. Process for making peroxymonosulphuric acid. 2,789,954, 4-23-57, Cl. 252—186.
- Fell, Louis F. R., to Fell Developments Ltd. Power units. 2,779,212, 1-29-57, Cl. 74—675.
- Fell, Louis F. R., and J. A. Bennett-Powell, to Fell Developments Ltd. Multi-engine power plant. 2,779,213, 1-29-57, Cl. 74—675.
- Feller, Morris: *See*—
Field, Edmund, and Feller. 2,780,660.
Field, Edmund, and Feller. 2,791,576.
- Feller, Morris, and E. Field, to Standard Oil Co. Olefin polymerization with group V metal oxide and alkali metal hydride. 2,791,575, 5-7-57, Cl. 260—94.9.
- Feller, Morris, and E. Field, to Standard Oil Co. Olefin polymerization with group V metal oxide and alkali metal. 2,795,574, 6-11-57, Cl. 260—94.9.
- Feller, Morris, and E. Field, to Standard Oil Co. Ethylene polymerization with catalyst of nickel oxide on carbon plus alkaline earth metal. 2,802,814, 8-13-57, Cl. 260—94.9.
- Fellers, Walter E.: *See*—
Greene, Lawrence P., and Fellers. 2,799,161.
Greene, Lawrence P., Leaf, and Fellers. 2,799,160.
- Fellmeth, Robert E. Rearview mirror. 2,778,273, 1-22-57, Cl. 88—87.
- Fellows, Edwin J., to Smith, Kline & French Laboratories. Method of potentiating drugs affecting the central nervous system and compositions therefor. 2,807,566, 9-24-57, Cl. 167—52.
- Fellows Gear Shaper Co., The: *See*—
Kendall, Lloyd F. 2,801,459.
- Felmlee, John T. Fish lure. 2,776,518, 1-8-57, Cl. 43—42.24.
- Felmley, Charles R., Jr., to Air Reduction Co., Inc. Multiple arc welding. 2,813,190, 11-12-57, Cl. 219—76.
- Felps, Newton O.: *See*—
Atherton, William C., Felps, and Fletcher. 2,792,845.
- Felt, David C.: *See*—
Nestlerode, Clifford D., and Felt. 2,797,582.
Nestlerode, Clifford D., and Felt. 2,808,515.
- Felt, David C., to Allen B. Du Mont Laboratories, Inc. Electrical tuning device. 2,807,724, 9-24-57, Cl. 250—40.
- Felt & Tarrant Mfg. Co.: *See*—
Brugman, Lawrence W., and Koch. 2,778,569.
- Felten & Guillaume Carlswerke Aktiengesellschaft: *See*—
Kirch, Ernst. 2,785,218.
- Feltman, Charles A. Amusement pneumatic machine gun. 2,801,624, 8-6-57, Cl. 124—11.
- Felton, Donald L., to The Kay-Dee Co. Cardboard storage file. 2,785,940, 3-19-57, Cl. 312—348.
- Felton, George E., to Hawaiian Pineapple Co., Ltd. Frozen pineapple product. 2,785,076, 3-12-57, Cl. 99—193.
- Felts, Basil B., and R. W. Dye. Depressible steering assembly for automotive vehicles. 2,815,676, 12-10-57, Cl. 74—493.
- Felts, Basil B., and R. W. Dye. Depressible steering construction for automotive vehicles. 2,815,677, 12-10-57, Cl. 74—493.
- Femco, Inc.: *See*—
Agnew, Norman F., and Sorensen. 2,814,032.
- Fender, Clarence L. Tone control for stringed instruments. 2,784,631, 3-12-57, Cl. 84—1.15.
- Fender, Clarence L. Pick-up and circuit for stringed musical instrument. 2,817,261, 12-24-57, Cl. 84—1.16.
- Fender, Clarence L. Amplifier with tremolo. 2,817,708, 12-24-57, Cl. 179—1.
- Fenemore, Alan S., to The English Electric Co. Ltd. Windings for magnetic structures. 2,783,399, 2-26-57, Cl. 310—64.
- Fenemore, Alan S., to The English Electric Co. Ltd. Electromagnetic pump. 2,786,416, 3-26-57, Cl. 103—1.
- Fenemore, Ronald W., to The Mullard Radio Valve Co. Ltd. Apparatus for positioning a movable member with reference to a datum reference point or position. 2,785,353, 3-12-57, Cl. 318—28.
- Fenemore, Ronald W., and C. J. Quartly, to Hartford National Bank and Trust Co., as trustee. Thyatron inverter. 2,784,365, 3-5-57, Cl. 318—230.
- Fenemore, Ronald W., and L. Coates, to Hartford National Bank and Trust Co., as trustee. Voltage divider. 2,784,369, 3-5-57, Cl. 323—79.
- Fener, Alfred, to N. Langer. Sealing device for heat sealing machines of the thermal impulse type. 2,802,086, 8-6-57, Cl. 219—19.
- Fener, Alfred, and N. Langer; said Fener assor. to said Langer. Art of heat sealing and severing thermoplastic films. 2,796,913, 6-25-57, Cl. 154—42.
- Fenestra Inc.: *See*—
Johnson, David G., and Mayer. 2,804,101.
- Feng Inc.: *See*—
De Haven, La Vern H. 2,809,455.
- Fenger, Christian, to United Aircraft Corp. Cross-flow heat exchanger. 2,813,701, 11-19-57, Cl. 257—245.
- Fenimore, Jerry K. Holding devices for welding metal parts. 2,815,728, 12-10-57, Cl. 113—99.
- Fenit, Robert D., C. G. Harman, and E. Wainer, to The Star Porcelain Co. Low loss ceramic insulators and method of manufacture. 2,803,554, 8-20-57, Cl. 106—65.
- Fenlind Engineering Co.: *See*—
Johnson, George W. 2,804,726.
- Fennell, Charles H. Safety cutting tool for steel bands. 2,798,289, 7-9-57, Cl. 130—134.
- Fennell, Francis L., to E. I. du Pont de Nemours and Co. Bleaching of kraft pulp. 2,779,656, 1-29-57, Cl. 8—106.
- Fennema, Richard: *See*—
Bredtschneider, Kurt B., and Fennema. 2,778,600.
- Fenner, J. H., & Co., Ltd.: *See*—
Watts, Gilbert E., Hainsworth, and Perry. 2,800,701.
- Fenner, Robert M., and D. E. Hamilton. Trampolines. 2,799,867, 7-23-57, Cl. 5—111.
- Fenner, Robert M., and D. E. Hamilton. Trampolines. 2,809,383, 10-15-57, Cl. 5—211.
- Fennimore, Marion H., and I. Stephenson. Variable speed transmission. 2,817,976, 12-31-57, Cl. 74—351.
- Fenning, Frederick W., and R. F. Jackson, to the United States of America as represented by the United States Atomic Energy Commission. Thermal nuclear reactor. 2,807,580, 9-24-57, Cl. 204—193.2.
- Fenno, John C. Nail feeder. 2,775,766, 1-1-57, Cl. 1—49.6.
- Fenske, Charles H.: *See*—
Sekul, Raymond F., and Fenske. 2,790,841.
- Fenske, Merrell R.: *See*—
Kittleson, Allen R., Arundale, Jones, and Fenske. 2,809,981.
- Fenske, Merrell R. Two cycle fuel injection, opposed piston, thrust plate internal combustion engine. 2,776,649, 1-8-57, Cl. 123—58.
- Fenske, Merrell R., to Esso Research and Engineering Co. Process for separating pure para xylene by complexing with antimony trichloride. 2,778,864, 1-22-57, Cl. 260—674.
- Fenske, Merrell R., and J. H. Jones, to Esso Research and Engineering Co. Process of preparing glycol diesters from epoxides. 2,802,023, 8-6-57, Cl. 260—487.
- Fenton, Charles F. High frequency transmission cable. 2,804,494, 8-27-57, Cl. 174—113.
- Fenton, Frank W., to Beacon Production Equipment Corp. Door snubber. 2,791,793, 5-14-57, Cl. 16—82.
- Fenton, Frank W., to Beacon Production Equipment Corp. Materials handling machines. 2,811,240, 10-29-57, Cl. 198—221.
- Fenton, Frank W., and H. G. Cook, to Beacon Production Equipment Corp. Pallet stacking machines. 2,792,950, 5-21-57, Cl. 214—6.
- Fenton, Leonard. Neostomy receptacles. 2,784,718, 3-12-57, Cl. 128—283.
- Fenton, Leonard. Devices for mounting a fecal pouch. 2,818,069, 12-31-57, Cl. 128—283.
- Fenton, Leonard, and J. S. Geller; said Geller assor. to said Fenton. Liver bile pouch. 2,815,025, 12-3-57, Cl. 128—275.
- Fenton, Paul E., to Scovill Mfg. Co. Snap fastener. 2,817,134, 12-24-57, Cl. 24—216.

- Fenton, Sidney A. J.: See—
Kennedy, Walter D., and Fenton. 2,801,580.
- Fentos, Ernest J. Automatic prompter attachment for typewriters. 2,780,421, 4-30-57, Cl. 120-32.
- Fenwal Inc.: See—
Cantlin, John H. 2,782,285.
Yanikowski, Florian F. 2,782,751.
- Fenwal Laboratories, Inc.: See—
Welch, Edward S., Jr. 2,816,596.
- Ferber, Le Roy W., to Radio Corp. of America. Magnetic transducer. 2,785,038, 3-12-57, Cl. 346-74.
- Fercana, James E. Latch for adjusting worm of a movable jaw wrench. 2,808,751, 10-8-57, Cl. 81-165.
- Ferdinand, Irwin J., and H. C. Pierson (deceased); B. Pierson administratrix to said H. C. Pierson. Fencing. 2,802,644, 8-13-57, Cl. 256-19.
- Ferdinand, Jerome, to S. A. Hirsh Mfg. Co. Shelf molding. 2,813,359, 11-19-57, Cl. 40-16.
- Ferdon, William S. Tamper proof envelope. 2,797,042, 6-25-57, Cl. 229-80.
- Ferdon, William S. Safety means for refrigerators, etc. 2,811,119, 10-29-57, Cl. 109-63.5.
- Ferdon, William S. Sanitary door and shelf for liquid dispensers. 2,811,993, 11-5-57, Cl. 141-88.
- Ferdon, William S. and W. V. Walking sticks for the blind. 2,794,166, 5-28-57, Cl. 324-41.
- Ferdon, William V.: See—
Ferdon, William S. and W. V. 2,794,166.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Chain tightener. 2,782,650, 2-26-57, Cl. 74-242.14.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Cotton spindle driving assembly. 2,783,602, 3-5-57, Cl. 56-42.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Moistening means for cotton picker. 2,787,880, 4-9-57, Cl. 56-41.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Cotton picking spindle. 2,791,877, 5-14-57, Cl. 56-50.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Spindle positioning and stripping mechanism for cotton pickers. 2,798,353, 7-9-57, Cl. 56-42.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Vehicle propelling and implement drive mechanism. 2,800,028, 7-23-57, Cl. 74-15.4.
- Ferguson, A. Kingsley, to Walter Kidde Constructors, Inc. Warehouse system. 2,815,871, 12-10-57, Cl. 214-16.
- Ferguson, Alton. Bag and funnel support. 2,783,010, 2-26-57, Cl. 248-94.
- Ferguson, Arthur D. Traction wheel construction. 2,781,813, 2-19-57, Cl. 152-208.
- Ferguson, Arthur D., and D. H. Gookin. Recording device. 2,787,069, 4-2-57, Cl. 40-70.
- Ferguson, Donald M., to the United States of America as represented by the Secretary of the Air Force. Radioactive container. 2,810,839, 10-22-57, Cl. 250-106.
- Ferguson, Edgar A., Jr. Methionine free reaction product of a water-soluble copper salt and lactalbumin hydrolysate as fungicide. 2,796,378, 6-18-57, Cl. 167-58.
- Ferguson Equipment Corp.: See—
Trogione, Vincent R. 2,777,178.
- Ferguson, Garwood W., to Becton, Dickinson and Co. Syringe assembly. 2,798,487, 7-9-57, Cl. 128-218.
- Ferguson, Garwood W., to Becton, Dickinson and Co. Syringe assembly. 2,812,763, 11-12-57, Cl. 128-218.
- Ferguson, George H.: See—
Senkowski, Alexander, Payne, and Ferguson. 2,780,159.
- Ferguson, Harold W.: See—
Ferguson, Paul R. and H. W. 2,810,571.
- Ferguson, Harry D., Jr., and J. E. Harris, Jr., to Philco Corp. Cabinet door hinging. 2,776,655, 1-8-57, Cl. 126-194.
- Ferguson, Harry de France, Societe Anonyme: See—
Moriceau, Pierre. 2,798,419.
- Ferguson, Harry, Inc.: See—
Bunting, Ernest V. 2,790,364.
Bunting, Ernest V. 2,790,365.
Elliott, Brantford G. 2,775,991.
Richey, Clarence B. 2,775,855.
- Ferguson, Harry, Research Ltd.: See—
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Hill, Claude. 2,796,942.
Hill, Claude. 2,816,616.
Rolt, Anthony P. R., and Hill. 2,796,943.
- Ferguson, Henry A.: See—
Rosenthal, William C., Ferguson, and Boyle. 2,806,389.
Rosenthal, William C., Ferguson, and Boyle. 2,806,565.
- Ferguson, J. L., Co.: See—
Ferguson, John L., Sr., and Talbot. 2,811,943.
Talbot, Richard C. 2,797,093.
Talbot, Richard C., and Pavnica. 2,781,119.
- Ferguson, James J., to J. A. Rooney. Rescue apparatus. 2,788,530, 4-16-57, Cl. 5-82.
- Ferguson, John H.: See—
Angle, Richard O. 2,813,710.
Stahl, Edward H., and Ferguson. 2,818,095.
- Ferguson, John L., Sr., and R. C. Talbot, to J. L. Ferguson Co. Apparatus for applying adhesive to the flaps of cases or cartons. 2,811,943, 11-5-57, Cl. 118-3.
- Ferguson, Lester E., to Kennedy-Van Saun Mfg. & Eng. Corp. Slugger roll crusher. 2,781,980, 2-19-57, Cl. 241-239.
- Ferguson Mfg. Co., Inc.: See—
Hines, Lloyd Q., Sr., and Harris. 2,784,881.
- Ferguson, Paul R., to The Stanley Works. Door check with hold-open latch. 2,786,226, 3-26-57, Cl. 16-55.
- Ferguson, Paul R. and H. W. Door actuator. 2,810,571, 10-22-57, Cl. 268-34.
- Ferguson Radio Corp. Ltd.: See—
Corney, John V. 2,802,054.
- Ferguson, Richard, and J. L. Brown, to Deering Milliken Research Corp. Feed chute mechanism. 2,813,616, 11-19-57, Cl. 198-26.
- Ferguson, Robert C., to General Dynamics Corp. Throttle and reversible pitch propeller interlocking means. 2,786,640, 3-26-57, Cl. 244-81.
- Ferguson, Robert E. Valve construction. 2,810,394, 10-22-57, Cl. 137-240.
- Ferguson, Robert N., to Dennison Mfg. Co. Capsules for covering bottle tops. 2,780,379, 2-5-57, Cl. 215-38.
- Ferguson, Syrl K., to the United States of America as represented by the Secretary of the Army. Electronic message timing circuit. 2,806,901, 9-17-57, Cl. 178-17.
- Ferguson, Vernon H. Universal heat treating apparatus. 2,777,683, 1-15-57, Cl. 266-4.
- Ferguson, Vernon H. Heat treating apparatus. 2,777,684, 1-15-57, Cl. 266-4.
- Ferguson, Warren T., to Anderson Products, Inc. Air venting valve for heating system. 2,776,671, 1-8-57, Cl. 137-197.
- Ferguson, Warren T., to Anderson Products, Inc. Air venting valve for use with hot water radiators. 2,777,459, 1-15-57, Cl. 137-197.
- Ferguson, William, to National Airoil Burner Co., Inc. Burners. 2,813,578, 11-19-57, Cl. 153-1.
- Ferguson, William C., to American-Marietta Co. Sheet metal nut with sealing means. 2,775,917, 1-1-57, Cl. 85-36.
- Ferguson, William E. Finger pressure douche. 2,792,835, 5-21-57, Cl. 128-260.
- Ferman, Harry. Motor vehicle guide. 2,779,863, 1-29-57, Cl. 240-7.1.
- Ferman, Harry. Motor vehicle guide. 2,791,678, 5-7-57, Cl. 240-8.1.
- Fermi, Enrico, to the United States of America as represented by the United States Atomic Energy Commission. Test exponential pile. 2,780,595, 2-5-57, Cl. 204-193.
- Fermi, Enrico and L. Szilard, to the United States of America as represented by the United States Atomic Energy Commission. Method of operating a neutronic reactor. 2,798,847, 7-9-57, Cl. 204-154.
- Fermi, Enrico, and L. Szilard, to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor. 2,807,581, 9-24-57, Cl. 204-193.2.
- Fermi, Enrico, and W. H. Zinn, to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor shield. 2,807,727, 9-24-57, Cl. 250-108.
- Fermi, Enrico, and M. C. Leverett, to the United States of America as represented by the United States Atomic Energy Commission. Method of sustaining a neutronic chain reacting system. 2,813,070, 11-12-57, Cl. 204-154.2.
- Fernandez, Frank C. Lawn mower sharpener. 2,789,449, 4-23-57, Cl. 76-82.1.
- Fernandez, John J., 1/2 to H. J. Loftus. Fluid filter. 2,785,804, 3-19-57, Cl. 210-169.
- Fernberg, Eric B., to F. T. Products Ltd. Fastener. 2,803,048, 8-20-57, Cl. 24-73.
- Fernberg, Eric B., to F. T. Products Ltd. Fasteners. 2,803,050, 8-20-57, Cl. 24-259.
- Fernicola, Anthony J. Stove burner. 2,810,058, 10-15-57, Cl. 219-37.
- Fernseh G. m. b. H.: See—
Harkensee, George. 2,803,770.
- Fernsler, George L., to Radio Corp. of America. Pulse amplitude analyzer. 2,806,651, 9-17-57, Cl. 235-92.
- Ferraguti, Luigi, to Officine Moncenisio Gia Anonima Bau-chiero S. p. A. Control device for circular knitting machines. 2,803,121, 8-20-57, Cl. 66-14.
- Ferranti Ltd.: See—
Alexander, William H., Arnott, and McCallum. 2,817,077.
Stewart, John. 2,792,570.
Whitemore, Edward J., and Baldock. 2,777,972.
Williamson, David T. N. 2,779,654.
- Ferrar, Bernard. Armrest for steering gear. 2,781,828, 2-19-57, Cl. 155-198.
- Ferrara, Achille K., and C. H. Serum. Depletion alarm. 2,781,432, 2-12-57, Cl. 200-84.
- Ferrara, Peter B. Brush type soldering device. 2,791,669, 5-7-57, Cl. 219-26.
- Ferrari, Andres, Jr.: See—
Weiskopf, Edwin C., and Ferrari. 2,800,102.
Weiskopf, Edwin C., and Ferrari. 2,810,366.
- Ferraris, John T., to Electrolux Corp. Control unit for automatic vacuum cleaners. 2,817,414, 12-24-57, Cl. 183-37.
- Ferraro, Luigi. Breathing valve for a submarine mask. 2,815,751, 12-10-57, Cl. 128-145.
- Ferraro, Raul C. Full key board listing-adding machine. 2,811,307, 10-29-57, Cl. 235-60.27.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Static spontaneous potential well logging systems. 2,812,490, 11-5-57, Cl. 324-1.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Electrical well logging. 2,813,248, 11-12-57, Cl. 324-1.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Cable measurements. 2,815,577, 12-10-57, Cl. 33-133.
- Ferrel, Robert E.: See—
Kester, Ernest B., and Ferrel. 2,785,070.

- Ferrell, A. T., & Co.: *See*—
 Randolph, Oliver W. 2,803,545.
 Ferrer, Jose C. Safety razor with separable cap. 2,780,865,
 2-12-57, Cl. 30—53.
 Ferrer, Raimundo. Vehicle parking device. 2,803,307,
 8-20-57, Cl. 180—1.
 Ferrero, Alberto: *See*—
 Vondrous, Jenik, and Ferrero. 2,783,521.
 Ferri, Antonio, to Curtiss-Wright Corp. Multi-scoop super-
 sonic inlet. 2,788,183, 4-9-57, Cl. 244—53.
 Ferri, Antonio. Stator for axial flow compressor with super-
 sonic velocity at entrance. 2,805,818, 9-10-57, Cl. 230—
 114.
 Ferri, Geno M. Self-adjusting cosmetic stick container.
 2,789,692, 4-23-57, Cl. 206—56.
 Ferrier, André P. S. Massage apparatus. 2,806,470, 9-17-57,
 Cl. 128—60.
 Ferrill, Thomas M., Jr., to Sperry Rand Corp. Air traffic
 control system. 2,776,099, 1-1-57, Cl. 244—77.
 Ferrill, Thomas M., Jr. Tank circuit apparatus. 2,796,524,
 6-18-57, Cl. 250—40.
 Ferrin, Jean P., to The General Tire and Rubber Co. Arctic
 rubber. 2,776,693, 1-8-57, Cl. 152—330.
 Ferrini, Gino P.: *See*—
 Wheelock, George L., and Ferrini. 2,791,571.
 Ferris, David R., to Kysor Heater Co. Automatic radiator
 shutter control. 2,805,027, 9-3-57, Cl. 236—35.2.
 Ferris, Donald K., to General Motors Corp. Propeller blade
 angle indicating device. 2,806,402, 9-17-57, Cl. 88—14.
 Ferris, Edwin A. Aligner and straightener for sickle-bar
 guards. 2,799,193, 7-16-57, Cl. 81—15.
 Ferris, Lockwood W., to Compania Salitrera Anglo-Lantaro
 (Anglo-Lantaro Nitrate Corp.). Froth flotation. 2,783,885,
 3-5-57, Cl. 209—166.
 Ferris, Robert G., to Starline, Inc. Conveyor flight for con-
 tinuous chain type barn gutter cleaners. 2,782,900,
 2-26-57, Cl. 198—176.
 Ferris, Seymour W., to Sun Oil Co. Process of cracking.
 2,782,145, 2-19-57, Cl. 196—66.
 Ferris, Seymour W., to Sun Oil Co. Preparation of waxes.
 2,783,183, 2-26-57, Cl. 196—18.
 Ferris, Seymour W., to Sun Oil Co. Suspensions of sponge
 blowing agents. 2,816,078, 12-10-57, Cl. 252—309.
 Ferro, Bernado J., Jr., to Phillips Petroleum Co. Water-
 quench absorption cycle. 2,784,806, 3-12-57, Cl.
 183—114.6.
 Ferro Corp.: *See*—
 Burgyan, Aladar. 2,811,463.
 Clawson, Clinton D. 2,785,969.
 Elliott, Stanley B. 2,789,052.
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 Sweo, Benjamin J., and Uher. 2,795,506.
 Ferro Engineering Co., The: *See*—
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 Ferro Stamping Co.: *See*—
 Pickles, Joseph. 2,798,719.
 Tessmer, Robert G., and Pickles. 2,785,889.
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 Ferry, Chamberlain, to The Stanley Works. Hinge. 2,817,871,
 12-31-57, Cl. 16—169.
 Ferry, J. D., Co., Inc.: *See*—
 Coleman, Richard A., and Long. 2,795,253.
 Ferry, Roger, to J. Billarant. Oil level indicator. 2,804,517,
 8-27-57, Cl. 200—84.
 Ferstendig, Louis L., to California Research Corp. Preparing
 5-tert-butyl-m-xylylene diamine. 2,784,230, 3-5-57, Cl.
 260—570.9.
 Ferwerda, Harold L., to General Electric Co. Method of mak-
 ing a laminated ore. 2,786,006, 3-19-57, Cl. 154—80.
 Ferwerda, Harold L., to General Electric Co. Process for
 bonding dynamoelectric machine coil end turns and article
 produced thereby. 2,802,120, 8-6-57, Cl. 310—45.
 Ferzola, Anthony J., and C. Botkin, to Charles Bruning Co.,
 Inc. Diazotype photoprinting materials and processes for
 preparing same. 2,780,547, 2-5-57, Cl. 96—75.
 Fessel, Paul. Abrasive cutting body. 2,811,960, 11-5-57,
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 Fessenden, Leon D., to Eastman Kodak Co. Propeller agi-
 tators and the dispersing of materials therewith.
 2,794,628, 6-4-57, Cl. 259—133.
 Fessia, Antonio, to Fiat Societa per Azioni. Propelling unit
 for motor vehicles with independent suspension driving
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 Fessler, Frank. Filter. 2,785,681, 3-19-57, Cl. 131—10.
 Fessler, Frank. Methods for conditioning molten metal.
 2,811,487, 10-29-57, Cl. 75—93.
 Fessler, Julius H., to Cuvineux Co. Process for treating wine.
 2,801,175, 7-30-57, Cl. 99—48.
 Festa, Nicholas V.: *See*—
 Frohman, Isaac P., and Festa. 2,780,730.
 Fetchko, Joseph A. Cargo handling device. 2,792,130,
 5-14-57, Cl. 214—15.
 Fetchko, Joseph A. Cargo handling device. 2,793,766,
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 Fetscher, Charles A., to Cluett, Peabody & Co., Inc. Process
 of topochemical modification of cellulose fabrics by
 reacting with a copolymerizable monomer and copolymeriz-
 ing the reaction product and product produced thereby.
 2,789,030, 4-16-57, Cl. 8—120.
 Fetter, Richard W.: *See*—
 Mathews, Victor M., Jr., and Fetter. 2,811,765.
 Fetterley, Guy H., and G. R. Watson, to Norton Co. Process
 for the manufacture of boron nitride. 2,801,903, 8-6-57,
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 Fetterley, Guy H., and G. R. Watson, to Norton Co. Process
 of molding boron carbide and boron. 2,806,799, 9-17-57,
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 Fetterly, Lloyd C., to Shell Development Co. Oxidation of
 alkylated benzenes in the presence of aliphatic hydro-
 carbons. 2,802,859, 8-13-57, Cl. 260—475.
 Fettes, Cecil R., to Libbey-Owens-Ford Glass Co. Preparing
 luminescent materials. 2,782,168, 2-19-57, Cl. 252—301.4.
 Fettes, Edward M., and J. A. Gannon, to Thiokol Chemical
 Corp. Resinous reaction products of polyepoxides and
 polysulfide polymers and methods of making the same.
 2,789,958, 4-23-57, Cl. 260—42.
 Fettinger, Paul I.: *See*—
 White, Fredrick L., and Fettinger. 2,797,283.
 Fetzer, Maurice C.: *See*—
 Russell, James B., Fetzer, and Belz. 2,804,976.
 Feucht, Albert, to Westinghouse Air Brake Co. Rock drill
 bit. 2,802,642, 8-13-57, Cl. 255—64.
 Feucht, Jacob E., to Westinghouse Air Brake Co. Portable
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 Feucht, Jacob E., and H. W. Hauch, to Cleveland Rock Drill
 Division, Westinghouse Air Brake Co. Rock drilling ap-
 paratus. 2,787,250, 4-2-57, Cl. 121—9.
 Feucht, Robert E., to Bendix Aviation Corp. Electrical ap-
 paratus. 2,796,559, 6-18-57, Cl. 317—100.
 Feuge, Reuben O., and E. R. Cousins, to the United States of
 America as represented by the Secretary of Agriculture.
 Process of recovering rice bran wax. 2,802,844, 8-13-57,
 Cl. 260—412.5.
 Feuillet, Georges. Portable apparatus for the purifying and
 filtering of water. 2,792,942, 5-21-57, Cl. 210—257.
 Few, William: *See*—
 Pearson, Arald B., and Few. 2,806,912.
 Few, William, and A. B. Pearson, to The Clark Controller Co.
 Split housing for circuit breakers held together by resilient
 clip. 2,798,925, 7-9-57, Cl. 200—168.
 Fewtrell, George E., and B. W. Tyrrell, to Northern Elec-
 tric Co., Ltd. Apparatus for forming multi-element cable.
 2,780,906, 2-12-57, Cl. 57—13.
 Fex, Fortunat B. Concrete beam form supports. 2,804,673,
 9-3-57, Cl. 25—131.5.
 Fey, Ephraim P.: *See*—
 Hehr, Elmer T., Fey, and Roth. 2,795,017.
 Fey, Ephraim P., and J. P. Roth, to Hehr Mfg. Co. Window
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 Fey, Ernest E. Vehicle operated automatic flush type gate.
 2,806,307, 9-17-57, Cl. 39—6.
 Feyes, Andrew: *See*—
 Lampke, Arthur R. 2,808,749.
 Feyling, Per L. F., to J. W. Greer Co. Fluid flow control
 for gas burner. 2,781,833, 2-19-57, Cl. 158—114.
 Fiaco, Sebastian J. Rotary snow removal attachment for
 motor vehicles. 2,815,590, 12-10-57, Cl. 37—43.
 Fiadung, Paul A. Tractor drawn agricultural implement.
 2,805,075, 9-3-57, Cl. 280—32.5.
 Fiala, Edward J., to Continental Can Co., Inc. Can end
 marking means. 2,818,015, 12-31-57, Cl. 101—5.
 Fiala, Joseph F. Hot air engines. 2,784,548, 3-12-57, Cl.
 60—24.
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 Baldwin, Philip S. 2,805,551.
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 Fiber Glass Industries, Inc.: *See*—
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 Dildilian, Ara T., and Wood. 2,794,238.
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 Lubersky, Albert R. 2,804,000.
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 Klein, Joseph J., and Maisel. 2,786,790.
 Fibre Corp. of America, Inc.: *See*—
 Spencer, Arthur M., and Jacobson. 2,794,738.
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 Bowers, Charles E., Jr. 2,788,558.
 Ficara, Samuel. Bowling alley sweep. 2,793,858, 5-28-57,
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 Fichtel & Sachs A. G.: *See*—
 Binder, Richard. 2,800,208.
 Binder, Richard I. 2,801,723.
 Fichter, Henry A. Heat-responsive controls. 2,788,417,
 4-9-57, Cl. 200—142.
 Fickert, Hanns: *See*—
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 Fickes, Clyde R. Burglar alarm. 2,804,040, 8-27-57, Cl.
 116—86.
 Fickett, Walter A., to Westinghouse Electric Corp. Fre-
 quency selective apparatus. 2,780,724, 2-5-57, Cl. 250—27

- Fickler, Leo J.: *See*—
Rochfort, Jean D., and Fickler. 2,817,725.
- Fidd, Joseph V., to The Gleason Works. Surface hardening machine. 2,805,056, 9-3-57, Cl. 266-4.
- Fiddelman, J., & Son, Inc.: *See*—
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- Fiddler, Theodore E., to Illinois Tool Works. Nut and lock washer assembly with strut means to prevent complete collapsing of the washer teeth. 2,815,059, 12-3-57, Cl. 151-37.
- Fidelity Co., Inc.: *See*—
Larkin, Walter. 2,784,579.
- Fidelity Instrument Corp.: *See*—
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- Fidelity Machine Co., Inc.: *See*—
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- Fidelity Union Trust Co.: *See*—
Byland, Hans-Rudolf. 2,803,624.
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Stoll, Arthur, Jucker, and Lindenmann. 2,800,477.
Stoll, Arthur, Hofmann, and Troxler. 2,810,723.
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- Fidelity Union Trust Co., executive trustee: *See*—
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- Fidler, Robert E., to Thompson Products, Inc. Method of making joint socket and tube assemblies. 2,779,093, 1-29-57, Cl. 29-441.
- Fiedler, Leon F.: *See*—
Anderson, John F., and Fiedler. 2,801,648.
- Fiedler, Stuart O.: *See*—
Bjorksten, Johan, Fiedler, and Yaeger. 2,801,936.
- Fiedler, Willy A. Jet direction control device. 2,780,059, 2-5-57, Cl. 60-35.55.
- Fiedler, Willy A. Split aircraft wing. 2,793,826, 5-28-57, Cl. 244-43.
- Field, Amy: *See*—
Field, Edward A. 2,801,056.
Field, Edward A. 2,818,060.
Field, Edward A. 2,818,216.
- Field, Edmund: *See*—
Feller, Morris, and Field. 2,791,575.
Feller, Morris, and Field. 2,795,574.
Feller, Morris, and Field. 2,802,814.
- Field, Edmund, and M. Feller, to Standard Oil Co. Catalytic process. 2,780,660, 2-5-57, Cl. 260-671.
- Field, Edmund, and M. Feller, to Standard Oil Co. Process of polymerizing olefins with group 6A oxide. 2,791,576, 5-7-57, Cl. 260-94.9.
- Field, Edward A., deceased; A. Field and City National Bank and Trust Co. of Chicago, executors. Barometric draft regulator. 2,801,056, 7-30-57, Cl. 236-45.
- Field, Edward A., deceased; A. Field and City National Bank and Trust Co. of Chicago, executors of the will of said D. A. Field. Draft and smoke control system for a furnace. 2,818,060, 12-31-57, Cl. 126-307.
- Field, Edward A., deceased; A. Field and City National Bank and Trust Co. of Chicago, executors of the will of said E. A. Field. Barometric draft regulator. 2,818,216, 12-31-57, Cl. 236-45.
- Field, Everett J., to I-T-E Circuit Breaker Co. Ice shield. 2,783,066, 2-26-57, Cl. 286-7.
- Field, Harry: *See*—
Field, Joe and H. 2,815,119.
- Field, Henry M., to Dayton Abrasive Products, Inc. Abrasive tool. 2,800,750, 7-30-57, Cl. 51-190.
- Field, Joe and H. Garment packing case. 2,815,119, 12-3-57, Cl. 206-7.
- Field, Joseph, to Bethlehem Steel Co. Treatment of hyper-eutectoid steel. 2,809,109, 10-8-57, Cl. 75-129.
- Field, Leonard D., and S. Chidel. Diameter measuring apparatus. 2,801,474, 8-6-57, Cl. 33-178.
- Field, Lester M.: *See*—
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- Field, Lester M., to The Board of Trustees of the Leland Stanford Junior University. Space harmonic amplifiers. 2,808,532, 10-1-57, Cl. 315-3.5.
- Field, Lester M., and D. A. Watkins, to The Board of Trustees of the Leland Stanford Junior University. Low noise electron discharge tubes. 2,800,602, 7-23-57, Cl. 315-3.5.
- Field Maintenance Service: *See*—
Heinrich, Samuel J. 2,776,045.
- Field, Merrill: *See*—
Rode, Neva. 2,817,093.
- Field, Milford: *See*—
Rode, Neva. 2,817,093.
- Field, Oscar S., to General Railway Signal Co. Railway car retarder. 2,801,711, 8-6-57, Cl. 188-62.
- Field, Oscar S., to General Railway Signal Co. Track circuit for railroad. 2,817,009, 12-17-57, Cl. 246-41.
- Field, Oswel R. Automatic sawmill carriage unloader. 2,816,585, 12-17-57, Cl. 143-157.
- Field, Philip M., to Charles Beseler Co. Adjustable platform for opaque copy and picture projector. 2,817,268, 12-24-57, Cl. 88-26.
- Field, Richard E.: *See*—
Wilkinson, Joseph M., and Field. 2,815,354.
- Field, William H., Co., Inc.: *See*—
French, Warren F. 2,787,094.
French, Warren F. 2,803,929.
- Fielden, John E., to Robertshaw-Fulton Controls Co. Pen mechanisms. 2,778,711, 1-22-57, Cl. 346-139.
- Fiedler, Lloyd L., Jr., and B. F. Kuhne, to Clary Corp. Speed and direction responsive brake. 2,793,715, 5-28-57, Cl. 188-184.
- Fielding, Francis W., to Lengsfeld Brothers, Inc. Three-bottle collapsible carrier. 2,794,571, 6-4-57, Cl. 220-113.
- Fields, Arnold C., to Westinghouse Electric Corp. Electrostatic precipitators. 2,789,657, 4-23-57, Cl. 183-7.
- Fields, Arnold C., to Westinghouse Electric Corp. Electrostatic precipitators. 2,796,948, 6-25-57, Cl. 183-7.
- Fields, Arnold C., to Westinghouse Electric Corp. Electrostatic precipitators. 2,798,572, 7-9-57, Cl. 183-7.
- Fields, Arnold C., to Westinghouse Electric Corp. Electrostatic precipitators. 2,813,595, 11-19-57, Cl. 183-7.
- Fields, Ellis K.: *See*—
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- Fields, Ellis K., to Standard Oil Co. Process of contacting sulfurized dipentene with activated alumina. 2,787,613, 4-2-57, Cl. 260-139.
- Fields, Ellis K., to Standard Oil Co. Rust preventative compositions of matter. 2,796,407, 6-18-57, Cl. 252-51.5.
- Fields, Ellis K., to Standard Oil Co. Corrosion resistant composition. 2,799,652, 7-16-57, Cl. 252-32.7.
- Fields, Ellis K., to Standard Oil Co. Lubricating oil compositions. 2,816,075, 12-10-57, Cl. 252-45.
- Fields, Ellis K., to Standard Oil Co. 2-para-t-butyl phenyl trithione. 2,816,116, 12-10-57, Cl. 260-327.
- Fields, Ellis K., and R. W. Watson, to Standard Oil Co. Fungicidal compositions containing salts of a hydroxy-quinoline and the method of preparing the same. 2,802,771, 8-13-57, Cl. 167-33.
- Fields, Ernest, deceased; H. F. Well, executrix. Toy train set. 2,794,296, 6-4-57, Cl. 46-202.
- Fields, Herbert P., and P. S. Mabie, to Fields-Mabie Corp. Tricycle-mounted hobby horse. 2,796,265, 6-18-57, Cl. 280-1.195.
- Fields-Mabie Corp.: *See*—
Fields, Herbert P., and Mabie. 2,796,265.
- Fields, Reuben T., to E. I. du Pont de Nemours and Co. Extruder assembly for extrusion of tetrafluoroethylene polymer tubes. 2,817,113, 12-24-57, Cl. 18-14.
- Fields, Robert E., to Whirlpool-Seeger Corp. Refrigerator trays. 2,786,729, 3-26-57, Cl. 312-270.
- Fienup, Wilbur C.: *See*—
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- Fienup, William F., H. W. Putnam, and R. A. Easter, to R. C. Can Co. Dough package and method of making same. 2,793,126, 5-21-57, Cl. 99-172.
- Fierce, William L.: *See*—
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- Fierce, William L., to The Pure Oil Co. Purification of crude naphthenic acid mixtures. 2,808,431, 10-1-57, Cl. 260-514.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of acetonitrile. 2,802,020, 8-6-57, Cl. 260-465.3.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of aliphatic nitriles. 2,803,642, 8-20-57, Cl. 260-465.3.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of acrylonitrile and ethylene. 2,809,987, 10-15-57, Cl. 260-465.3.
- Fierke, Scheuring S., and J. J. Chechak, to Eastman Kodak Co. Photographic color former dispersions. 2,701,171, 7-30-57, Cl. 96-97.
- Pieser, Louis F., to Merck & Co., Inc. Process for converting Δ^4 -3-keto- β -oxy pregnenes to Δ^4 -3-keto pregnenes. 2,787,624, 4-2-57, Cl. 260-397.45.

- Fiet, Owen O., and C. Polk, to Radio Corp. of America. Radio frequency coupling device. 2,790,958, 4-30-57, Cl. 333-33.
- Fieux, Jean, $\frac{1}{2}$ to Societe des Forges et Ateliers du Creusot. Appliance for braking of aircraft on landing or for launching of same. 2,783,004, 2-26-57, Cl. 244-63.
- Fife, Irwin L. Web shifting apparatus. 2,797,091, 6-25-57, Cl. 271-2.6.
- Fifer, Harvey R., to Brea Chemicals, Inc. Liquid dispensing device and method. 2,814,303, 11-26-57, Cl. 137-8.
- Fifield, Haven G., to General Electric Co. Heat pump including hot gas defrosting means. 2,801,524, 8-6-57, Cl. 62-4.
- Figge, Frank H. J., to Becton, Dickinson and Co. Unit for and method of inhibiting and controlling bleeding tendencies. 2,814,294, 11-26-57, Cl. 128-215.
- Fightmaster, Bernard A., and G. M. Marsh. Guide for flush tank float ball. 2,811,723, 11-5-57, Cl. 4-57.
- Figlio, Charles W., and J. S. Magielnicki, to American Cyanamid Co. Electrical tester for non-metallic linings. 2,812,491, 11-5-57, Cl. 324-54.
- Figueira, Joseph J., to The Liquidometer Corp. Moisture proof means for connecting a coaxial cable to a fitting. 2,785,385, 3-12-57, Cl. 339-94.
- Fihe, John L., to The B. F. Goodrich Co. Drive belts. 2,792,319, 5-14-57, Cl. 154-52.2.
- Fijn-Mechanische Industrie Becker's Sons N. V.: See—Van der Plas, Arie. 2,800,986.
- Fike, Harold L.: See—Purvis, Joseph L., and Fike. 2,796,433.
- Fike, Harold L., to International Minerals & Chemical Corp. Recovery of glutamic acid values. 2,796,434, 6-18-57, Cl. 260-527.
- Fikenscher, Friedrich, to L. & C. Steinmuller G. m. b. H. Heating and cooling apparatus. 2,803,439, 8-20-57, Cl. 257-6.
- Fikentscher, Hans, and H. Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of water-soluble methylol compounds of copolymers of an N-vinyl lactam and an acrylic acid amide and product obtained. 2,808,383, 10-1-57, Cl. 260-29.4.
- Filachione, Edward M.: See—Fein, Martin L., Harris, and Filachione. 2,817,672.
- Filachione, Edward M., and F. P. Luvisi, to the United States of America as represented by the Secretary of Agriculture. Process for purifying tannic acid. 2,787,635, 4-2-57, Cl. 260-473.6.
- Filachione, Edward M., and E. H. Harris, Jr., to the United States of America as represented by the Secretary of Agriculture. Tanning agent and process. 2,795,478, 6-11-57, Cl. 8-94.33.
- Filander, Arthur H., to Franklin Balmar Corp. Jar-handling mechanism for cap-setting equipment. 2,776,531, 1-8-57, Cl. 53-317.
- Filander, Arthur H., to Franklin Balmar Corp. Jar-capping apparatus. 2,782,897, 2-26-57, Cl. 193-22.
- Filar, Leo J., to Hercules Powder Co. Purification of dihydric phenols. 2,776,937, 1-8-57, Cl. 202-42.
- Filbert, Howard C., Jr. Deceleration discriminating firing device for a fuze. 2,801,588, 8-6-57, Cl. 102-70.2.
- Filbert, Howard C., Jr., and H. J. Plumley. Water discriminating fuze. 2,789,506, 4-23-57, Cl. 102-70.2.
- Filbey, Allen H., and T. H. Coffield, to Ethyl Corp. Production of bis-phenols. 2,807,653, 9-24-57, Cl. 260-619.
- Filbey, Emery T.: See—Pircon, Ladislav J. 2,795,139.
- Pircon, Ladislav J. 2,807,698.
- Filipoff, John W., and P. S. Shubin. Interchangeable truck body. 2,789,715, 4-23-57, Cl. 214-517.
- Filipowsky, Richard F. J., to Companhia Portuguesa Radio Marconi, S. A. R. L. Automatic auction circuit. 2,815,448, 12-3-57, Cl. 250-27.
- Filippi, Alberto: See—Malafarina, Aldo, and Filippi. 2,797,060.
- Filippi, Joseph C., $\frac{1}{2}$ to A. O. Bemiss. Metal cutting tool. 2,808,638, 10-8-57, Cl. 29-96.
- Filler, Isadore J. Apparatus and method of expanding plastic product. 2,802,430, 8-13-57, Cl. 107-14.
- Fillietaz, Jean A.: See—Gruber, Max H., and Fillietaz. 2,812,368.
- Fillingame, John E., to National Geographic Society. Film box for photographic cameras. 2,781,690, 2-19-57, Cl. 88-24.
- Filling, Jacques J., to Sloan Valve Co. Automatically self-cleaning shower heads. 2,779,625, 1-29-57, Cl. 299-59.
- Filling, Jacques J., and R. E. Campbell, to Sloan Valve Co. Automatic self-cleaning shower heads. 2,790,677, 4-30-57, Cl. 299-59.
- Filmer, Philip G., to General Motors Corp. Photographic views. 2,817,269, 12-24-57, Cl. 88-31.
- Filper Corp.: See—Perrelli, Joseph. 2,818,098.
- Filsinger, Jamieson A.: See—Braun, Philip N., and Filsinger. 2,808,767.
- Filsinger, John F., and H. E. Bridgwater, to Textile Marking Machine Co., Inc. Power operated stapling machine. 2,796,607, 6-25-57, Cl. 1-3.
- Filstrup, Edward C., to Armstrong Coalbreak Co. Gas pressure blasting device. 2,778,309, 1-22-57, Cl. 102-25.
- Filter Tips Ltd.: See—Edwards, William F. M. 2,809,639.
- Filtrox-Werk A. G.: See—Welz, Alfred. 2,779,252.
- Filut, James J. Line-jiggling attachment for fishing rods. 2,783,576, 3-5-57, Cl. 43-19.2.
- Fimple, Stanley S. Sanitary bag squeezer. 2,800,408, 7-23-57, Cl. 99-77.1.
- Finch, Charles A., to True Temper Corp. Rail anchors. 2,792,182, 5-14-57, Cl. 238-327.
- Finch, Donald M. Paddle-out ice cream freezer. 2,793,505, 5-28-57, Cl. 62-114.
- Finck, Emil, and G. Hummel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of hard, elastic waxes with low shrinkage. 2,795,505, 6-11-57, Cl. 106-38.6.
- Finch, Harry D., and A. D. Benedictis, to Shell Development Co. Aluminum alkoxide reduction of alpha methyldene alkanals. 2,779,801, 1-29-57, Cl. 260-638.
- Finch, Harry D., and S. A. Ballard, to Shell Oil Development Co. Hydroxy-substituted tetrahydrophthalic acids, derivatives thereof, and method for producing the same. 2,806,057, 9-10-57, Cl. 260-514.
- Finch, John B., Sr. Typewriter escapement mechanism. 2,777,557, 1-15-57, Cl. 197-88.
- Finch, John E., Sr. Locked-in-mesh-rack-and-pinion mechanism for typewriter. 2,777,558, 1-15-57, Cl. 197-96.
- Finch, Luther O. Dance barre fixture. 2,812,944, 11-12-57, Cl. 272-62.
- Finch, Percy R., to J. Lustfield. Clinical thermometer. 2,804,772, 9-3-57, Cl. 73-366.
- Finch, Roy L., and D. C. Hess. Device for preventing the accidental uncoupling of fifth wheels. 2,784,986, 3-12-57, Cl. 280-432.
- Fincke, John K., to Monsanto Chemical Co. 2-chloroethyl alkyl sulfones. 2,802,035, 8-6-57, Cl. 260-607.
- Findlay, Gordon R.: See—Benedict, Manson, and Findlay. 2,816,828.
- Findlay, James A., to Boeing Airplane Co. Liquid level indicators. 2,808,581, 10-1-57, Cl. 340-244.
- Findley, Joseph D., Jr., to Westinghouse Electric Corp. Circuit interrupter. 2,809,251, 10-8-57, Cl. 200-93.
- Findlay, Robert A.: See—Weedman, John A., and Findlay. 2,816,821.
- Findlay, Robert A., to Phillips Petroleum Co. Pebble heater. 2,779,658, 1-29-57, Cl. 263-19.
- Findlay, Robert A., to Phillips Petroleum Co. Purification of alkenylpyridines. 2,799,677, 7-16-57, Cl. 260-290.
- Findlay, Robert A., to Phillips Petroleum Co. Solvent extraction of aromatics from hydrocarbons. 2,806,071, 9-10-57, Cl. 260-674.
- Findlay, Robert A., to Phillips Petroleum Co. Solvent extraction with the operation of the uppermost portion of the extractor as a vapor liquid fractionation zone. 2,813,918, 11-19-57, Cl. 260-674.
- Findlay, Robert T.: See—Shields, Ronald E., Findlay, and Fitzgerald. 2,778,678.
- Findley Clay Products Co.: See—Armstrong, Leland R., Henry, Lambie, and Youngs. 2,739,338.
- Findlow, Eric, to Ernest Scragg & Sons Ltd. Spindles for use in textile machinery. 2,780,049, 2-5-57, Cl. 57-133.
- Fine, Albert: See—Subarsky, Daniel. 2,802,538.
- Fine, Amelia S.: See—Fine, Bernard M. 2,790,227.
- Fine, Bernard M., to A. S. Fine. Process of making crankshafts. 2,790,227, 4-30-57, Cl. 29-6.
- Fine, Clarence R., to Perspecta Sound, Inc. Perspective sound apparatus. 2,802,061, 8-6-57, Cl. 179-100.1.
- Fine, Edwin, to Hughes Aircraft Co. Precision null detector circuit. 2,808,561, 10-1-57, Cl. 324-55.
- Fine, James A.: See—Weisman, Sam, and Fine. 2,792,011.
- Fine, Roy S., and S. V. Perry, to Radio Corp. of America. Variable tone control circuit. 2,802,063, 8-6-57, Cl. 179-171.
- Fine, Samuel: See—Rittner, Edmund S., Grace, Fine, and Beutel. 2,803,779.
- Fine, Samuel, and R. E. Scott, to the United States of America as represented by the Secretary of the Army. Non-linear time domain filters. 2,791,751, 5-7-57, Cl. 333-6.
- Finelli, Anthony F., to The Goodyear Tire & Rubber Co. Improvements in nitrating 1-naphthylamine. 2,790,831, 4-30-57, Cl. 260-578.
- Finger, Charlotte. Writing device. 2,803,472, 8-20-57, Cl. 281-8.
- Fingerfett, Joseph A., and F. A. Hill, to Librascope, Inc. Magnetic amplifier. 2,777,073, 1-8-57, Cl. 307-17.
- Fingerut, Boris M.: See—May, Arthur E., Jr., and Fingerut. 2,777,673.
- Fingerhut, Solomon, and G. M. Carleton, to Zenith Plastics Co. Leg clamp for chairs and the like. 2,815,801, 12-10-57, Cl. 155-196.
- Finholt, Robert W., and W. J. Wunch, to General Electric Co. Process of insulating wire with polytetrafluoroethylene. 2,789,926, 4-23-57, Cl. 117-213.
- Finishine Laboratories, Inc.: See—Hagadorn, Elmore W. 2,779,853.
- Fink, Armand F., to the United States of America as represented by the United States Atomic Energy Commission. Pressure switch. 2,783,320, 2-26-57, Cl. 200-61.08.
- Fink, Carl J., and C. E. Heintz, to Creo-Dipt Co., Inc. Gaging support for shingles. 2,816,367, 12-17-57, Cl. 33-188.
- Fink, Elijah C. Adjustable power saw mounting. 2,804,890, 9-3-57, Cl. 143-35.

- Fink, Leroy E., to Electric Steel Foundry Co. Method for overcoming embrittlement of steel alloys. 2,811,438, 10-29-57, Cl. 75-130.
- Fink, Melvin M., to The Standard Oil Co. Pipeline mount for thermistor installation. 2,780,094, 2-5-57, Cl. 73-53.
- Fink, Norman S.: See—
- Haufe, Robert C. 2,811,359.
- Fink, Otto T. Basketball basket support. 2,786,678, 3-26-57, Cl. 273-15.
- Fink, Raymond E., to The New Haven Board & Carton Co. Display cartons. 2,801,783, 8-6-57, Cl. 229-16.
- Fink, Trevor: See—
- Green, Thomas A., Gorrie, Shannon, and Fink. 2,793,606.
- Fink, Walter A., to Toledo Scale Co. Weighing scales. 2,793,849, 5-28-57, Cl. 265-5.
- Fink, Wilbert E. Tar mop. 2,815,523, 12-10-57, Cl. 15-229.
- Finke, Herbert A., to Polytechnic Research & Development Co., Inc. Radio wave combination tuners. 2,798,161, 7-2-57, Cl. 250-40.
- Finkel, Edward, to J. F. D. Mfg. Co., Inc. Concealed indoor television antenna. 2,810,909, 10-22-57, Cl. 343-805.
- Finkel, Leonard, and R. W. Murray, Jr., to Tele-Dynamics Inc. Modulation converter. 2,789,270, 4-16-57, Cl. 332-1.
- Finkel Umbrella Frame Co., Inc., The: See—
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- Finkelstein, Morris B., and B. R. Clay, to Radio Corp. of America. Cathode ray beam centering apparatus. 2,795,717, 6-11-57, Cl. 313-76.
- Finkelstein, Theodor, to Glover Bros. (Mossley) Ltd. Devices for measuring the length of continuous lengths of material. 2,793,440, 5-28-57, Cl. 33-134.
- Finkelstein, William. Handle. 2,781,878, 2-19-57, Cl. 190-57.
- Finken, Walter S.: See—
- Frieder, Leonard P., and Finken. 2,778,761.
- Frieder, Leonard P., and Finken. 2,786,102.
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- Frieder, Leonard P., and Finken. 2,816,578.
- Finken, Walter S., to Leonard P. Frieder. Helmet for electrical workers. 2,795,792, 6-18-57, Cl. 2-3.
- Finken, Walter S., to L. P. Frieder. Headgear supporting structure. 2,802,212, 8-13-57, Cl. 2-3.
- Finken, Walter S., to L. P. Frieder. Protective pad and ear-phone support for safety helmets. 2,805,419, 9-10-57, Cl. 2-3.
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- Finken, Walter S., to Leonard P. Frieder. Helmet with retractable eye shield. 2,815,508, 12-10-57, Cl. 2-3.
- Finken, Walter S., and J. A. Alleo, to L. P. Frieder. Close-fitting helmet. 2,810,022, 10-15-57, Cl. 179-156.
- Finken, Warren E., to General Motors Corp. Windshield wiper transmission assembly and weather shield therefor. 2,806,557, 9-17-57, Cl. 188-85.
- Finkenbrink, Walter: See—
- Frensch, Heinz, Goebel, Staudermann, and Finkenbrink. 2,799,685.
- Finkes, George M., to The Union Fork and Hoe Co. Broom type lawn rake. 2,794,312, 6-4-57, Cl. 56-400.17.
- Finkes, George M., to The Union Fork and Hoe Co. Reinforced handle construction for farm and garden tools. 2,816,789, 12-17-57, Cl. 294-57.
- Finks, Charles E. Storage battery energized signal lamp for motor vehicles. 2,813,265, 11-12-57, Cl. 340-366.
- Finlay, Alexander, Jr., to The Battelle Development Corp. High speed switch. 2,796,475, 6-18-57, Cl. 200-32.
- Finlay, Hans, to North American Philips Co., Inc. Circuit-arrangement for operating a loudspeaker installation. 2,805,285, 9-3-57, Cl. 179-2.
- Finlay, Walter L., H. T. Clark, Jr., and J. A. Snyder, to Rem-Cru Titanium Inc. Titanium-base alloys. 2,787,541, 4-2-57, Cl. 75-175.5.
- Finlayson, Frank E., to General Electric Co. Water and power supply for steam irons. 2,777,226, 1-15-57, Cl. 38-77.
- Finlayson, Frank E., to General Electric Co. Temperature control and signal circuit. 2,778,913, 1-22-57, Cl. 219-20.
- Finlayson, Frank E., to General Electric Co. Steam fatiron. 2,791,045, 5-7-57, Cl. 38-77.
- Finlayson, Frank E., to General Electric Co. Thermostatically controlled fatiron. 2,810,813, 10-22-57, Cl. 219-25.
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- Finley, Henry C., to A. Finley. Corn borer and flying insect trap. 2,807,116, 9-24-57, Cl. 43-139.
- Finley, John E., and S. A. Fuller, to The Pipe Machinery Co. Method and means for checking and setting gages. 2,789,360, 4-23-57, Cl. 33-199.
- Finn, Arthur D. Railroad switch protector. 2,790,613, 4-30-57, Cl. 246-448.
- Finn, Charles O. Method and means for protecting soil slopes, water runs, gulches, ditches, and the like. 2,789,399, 4-23-57, Cl. 47-58.
- Finn Enterprises: See—
- Finn, John. 2,792,800.
- Finn, John, to Finn Enterprises. Wave-actuated drag. 2,792,800, 5-21-57, Cl. 115-05.
- Finn, John J., to Heatube Corp. Corrosion preventing mount for electric water heaters. 2,783,353, 2-26-57, Cl. 219-38.
- Finn, Sidney J., and W. L. Benedict, to United Shoe Machinery Corp. Cement sole attaching machines. 2,799,576, 7-23-57, Cl. 12-37.
- Finney, Donald C., and P. V. Ford, to Fort Pitt Packaging Co., Inc. Method and apparatus for preserving motor vehicles. 2,786,168, 3-19-57, Cl. 318-3.
- Finney, William E., and N. H. Whisler, to Capitol Products Corp. Gauge for rotor thread profile. 2,780,005, 2-5-57, Cl. 33-174.
- Finnigan, Frank. Method and composition of matter for destroying rodents. 2,780,025, 2-5-57, Cl. 43-124.
- Finucane, Thomas P., to General Foods Corp. Culinary mixes. 2,776,893, 1-8-57, Cl. 99-92.
- Finstad, Arthur K. Collapsible hand truck. 2,806,708, 9-17-57, Cl. 280-36.
- Fiordalisi, Fernanda M., to Air Reduction Co., Inc. Barbituric acids and salts thereof. 2,776,289, 1-1-57, Cl. 260-257.
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- Firkins, Carlyle M. Barn cleaning apparatus. 2,776,771, 1-8-57, Cl. 214-622.
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- Kirk, Dorothy G. 2,800,223.
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- Firma Rheinisch-Westfälische Kalkwerke Aktiengesellschaft: *See*—
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- Firma Robert Bosch G. m. b. H.: *See*—
Hägele, Karl, and Laib. 2,808,819.
Traub, Eberhardt. 2,808,345.
- Firma Schering A. G.: *See*—
Kaspar, Emanuel, and Schenck. 2,794,036.
Richter, Helmer, and Schenck. 2,794,048.
- Firma Siemens Feinmechanische Werke G. m. b. H.: *See*—
Erbstößer, Erich. 2,789,167.
- Firma USAG, Ultraschall A. G.: *See*—
Pohlman, Reimar. 2,799,157.
- Firma Vereinigte Seidenwebereien A. G.: *See*—
Zapf, Georg. 2,805,487.
- Firma Wilhelm Breitenbach, G. m. b. H.: *See*—
Stahl, Hans-Joachim, and Zeller. 2,796,220.
- Firmenich et Cie: *See*—
Stoll, Max, and Hinder. 2,802,880.
- Firmenich & Co., successors of la societe anonyme M. Naef & Cie: *See*—
Schinz, Hans. 2,801,266.
Stoll, Max. 2,803,662.
Stoll, Max. 2,809,996.
Stoll, Max. 2,813,894.
- First, Melvin W., to Buffalo Forge Co. Multi-dust collectors. 2,813,597, 11-19-57, Cl. 183-81.
- First National Bank of Philadelphia, The: *See*—
Messinger, William. 2,775,931.
- First Trust Co. of Saint Paul: *See*—
Riedel, Walter H. 2,792,029.
Riedel, Walter H. 2,796,894.
- Firth Carpet Co., Inc.: *See*—
Austin, Peter J. 2,777,475.
Matthews, Russell R. 2,794,449.
Wadely, Harold E. 2,787,558.
- Firth, David, to Dodge Mfg. Corp. Shaft mounting. 2,779,643, 1-29-57, Cl. 308-236.
- Firth, John W., to Tee-Pak, Inc. Package of artificial sausage casings. 2,794,344, 6-4-57, Cl. 206-46.
- Firth Sterling Inc.: *See*—
Adcock, John L. 2,815,435.
Dixon, Reginald J., and Bateman. 2,818,490.
Wellborn, William W. 2,778,757.
Williams, Everard M. 2,785,279.
- Fisch, Jerome: *See*—
Berlin, Jack, Cohen, Fisch, and Zimet. 2,787,761.
- Fisch, Kurt R., and H. Gisser, to the United States of America as represented by the Secretary of the Army. Apparatus for production of uniform specimen coatings. 2,783,734, 3-5-57, Cl. 118-404.
- Fisch, Richard A.: *See*—
Dick, Franklin. 2,801,879.
- Fischbach, Adolph, to the United States of America as represented by the Secretary of the Army. Silver peroxide electrodes. 2,795,638, 6-11-57, Cl. 136-120.
- Fischbach, Adolph, and A. L. Almerini, to the United States of America as represented by the Secretary of the Army. Method for making silver peroxide electrodes. 2,811,572, 10-29-57, Cl. 136-34.
- Fischback, Bryant C., and G. H. Harris, to The Dow Chemical Co. Triethylamine salt of N-(2-pyridyl)-dithiocarbamic acid. 2,789,114, 4-16-57, Cl. 260-294.8.
- Fischer, Alfred, to Heyden Newport Chemical Corp. Stabilized metal soap compositions. 2,807,553, 9-24-57, Cl. 106-243.
- Fischer, Alfred, and M. Nowak, to Heyden Newport Chemical Corp. Stabilized halogen containing vinyl resin compositions. 2,801,988, 8-6-57, Cl. 260-45.75.
- Fischer, Arno. Turbine for driving a generator. 2,782,321, 2-19-57, Cl. 290-4.
- Fischer, Charles, to Challenger Products, Inc. Window sashes. 2,781,112, 2-12-57, Cl. 189-76.
- Fischer, Edward F., to Aluminum Co. of America. Plaster mold for casting readily oxidizable metals. 2,802,747, 8-13-57, Cl. 106-38.35.
- Fischer, Ernst, and F. Muris, to Farbwerke Hoechst A. G., vormals Meister Lucius & Bruning. Monoazo-dyestuffs insoluble in water. 2,792,385, 5-14-57, Cl. 260-203.
- Fischer, Franz, and C. Punzmann, to Bulova Research and Development Laboratories, Inc. Jeweled electric relay. 2,807,687, 9-24-57, Cl. 200-87.
- Fischer, Franz, and C. Punzmann, to Bulova Research and Development Laboratories, Inc. Electromagnetic relay. 2,807,688, 9-24-57, Cl. 200-87.
- Fischer, Franz L., to Bulova Research and Development Laboratories, Inc. Mechanism for caging and presetting gyroscopes. 2,807,169, 9-24-57, Cl. 74-5.14.
- Fischer, Georg: *See*—
Hoff, Hubert, and Fischer. 2,816,052.
- Fischer, Georg. Sleeve filter plant. 2,781,104, 2-12-57, Cl. 183-58.
- Fischer, Georg, Aktiengesellschaft: *See*—
Von Zelewsky, Ottomar. 2,784,648.
Von Zelewsky, Ottomar. 2,784,649.
Von Zelewsky, Ottomar. 2,792,723.
Von Zelewsky, Ottomar, and Schmid. 2,790,337.
- Fischer, H. G., & Co.: *See*—
Kozinski, Joseph. 2,782,358.
- Fischer, Hans, to Kabel- und Metallwerke Neumeyer Aktiengesellschaft. Method and apparatus for the plastic shaping of metals. 2,800,813, 7-30-57, Cl. 78-9.
- Fischer, Hans F.: *See*—
Whitehouse, Zebulon W., Schulze, and Fischer. 2,812,866.
- Fischer, Harry C., to The Ebco Mfg. Co. Water-handling and heat transfer apparatus for hot and cold water dispensers. 2,784,879, 3-12-57, Cl. 222-146.
- Fischer, Harry C., and L. P. Benua, to The Ebco Mfg. Co. Dispenser for semifrozen beverages and agitator means therefor. 2,778,202, 1-22-57, Cl. 62-114.
- Fischer, Heinrich, to Fischer Industries, Inc. Tamper-proof proportioner and dispenser. 2,811,389, 10-29-57, Cl. 299-84.
- Fischer, Herbert C., to National Fibre Glass Co., Inc. Apparatus for continuously forming plastic tubing. 2,777,501, 1-15-57, Cl. 154-1.8.
- Fischer, Howard R., to Chicago Pneumatic Tool Co. Distributing valve arrangement for chipping hammer. 2,788,768, 4-16-57, Cl. 121-29.
- Fischer, Howard R., and M. P. D'Haem, to Chicago Pneumatic Tool Co. Pneumatically powered hydraulic pump. 2,781,728, 2-19-57, Cl. 103-50.
- Fischer, Howard R., and M. P. D'Haem, to Chicago Pneumatic Tool Co. Spring balancer. 2,801,814, 8-6-57, Cl. 242-107.4.
- Fischer Industries, Inc.: *See*—
Fischer, Heinrich. 2,811,389.
- Fischer, Jeanne-Francoise: *See*—
Lenglet, Jeanne-Francoise. 2,812,650.
- Fischer, Johannes, and W. Schwarze, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Bright metal plating. 2,800,439, 7-23-57, Cl. 204-43.
- Fischer, John C., Jr. Exhaust silencer. 2,798,569, 7-9-57, Cl. 181-42.
- Fischer, John J., to The Patterson-Kelley Co., Inc. Heat exchanger mixing mill. 2,816,371, 12-17-57, Cl. 34-134.
- Fischer, John P., to River Raisin Paper Co. Carton for supporting a container. 2,811,295, 10-29-57, Cl. 229-14.
- Fischer, Josef: *See*—
Berg, Herbert, and Fischer. 2,807,760.
- Fischer, Joseph. Rearview mirror. 2,775,919, 1-1-57, Cl. 88-98.
- Fischer, Karl A., and H. Sydow. Depolymerized alginic acid derivatives. 2,782,190, 2-19-57, Cl. 260-209.6.
- Fischer, Karl E., and H. Sydow. Drilling muds. 2,789,947, 4-23-57, Cl. 252-8.5.
- Fischer & Krecke, Messrs., (Maschinenfabrik): *See*—
Koop, Lambert. 2,777,368.
- Fischer, Kurt, and H. Oberrrauch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of lactams. 2,784,191, 3-5-57, Cl. 260-294.7.
- Fischer, Paul E.: *See*—
Langlois, Gordon E., and Fischer. 2,814,655.
- Fischer, Paul E., and E. J. Coffey, to General Mills, Inc. Fruit juice machine. 2,817,935, 12-31-57, Cl. 53-123.
- Fischer, Paul E., R. S. Hedin, C. H. Swanson, and H. E. Wissman, to General Mills, Inc. Mechanism and method for assembling and attaching container blanks. 2,776,606, 1-8-57, Cl. 93-36.6.
- Fischer, Paul E., R. S. Hedin, C. H. Swanson, and H. E. Wissman, to General Mills, Inc. Mechanism for preparing blanks. 2,776,607, 1-8-57, Cl. 93-36.6.
- Fischer, Paul E., R. S. Hedin, C. H. Swanson, and H. E. Wissman, to General Mills, Inc. Method of making a multi-layered container. 2,776,608, 1-8-57, Cl. 93-36.8.
- Fischer, Paul E., R. S. Hedin, C. H. Swanson, and H. E. Wissman, to General Mills, Inc. Mechanism for making containers. 2,776,609, 1-8-57, Cl. 93-51.
- Fischer, Paul M., to Cutler-Hammer, Inc. Means for reducing or nullifying the minimum output current of magnetic amplifiers. 2,779,911, 1-29-57, Cl. 323-89.

- Fischer, Paul W.: *See*—
Keller, Howard F., Jr., Nowak, and Fischer. 2,792,893.
Nowak, Theodore J., and Fischer. 2,781,850.
- Fischer, Paul W., to Union Oil Co. of California. Corrosion preventing in gas recovery systems. 2,776,870, 1-8-57, Cl. 23-2.
- Fischer, Paul W., to Union Oil Co. of California. Conductive oil-base drilling fluids. 2,793,187, 5-21-57, Cl. 252-8.5.
- Fischer, Paul W., to Union Oil Co. of California. Corrosion prevention in oil wells. 2,805,201, 9-3-57, Cl. 252-8.55.
- Fischer, Paul W., and J. W. Scheffel, to Union Oil Co. of California. Corrosion prevention. 2,782,164, 2-19-57, Cl. 252-8.55.
- Fischer, Paul W., and H. J. Matthews, to Union Oil Co. of California. Sludge treatment. 2,793,193, 5-21-57, Cl. 252-329.
- Fischer & Porter Co.: *See*—
Brewer, Nathaniel. 2,781,662.
- Fischer, Rudolf. Prosthesis. 2,789,350, 4-23-57, Cl. 32-5.
- Fischer, Walther C., to Fairbanks, Morse & Co. Dual fuel internal combustion engine. 2,791,988, 5-14-57, Cl. 123-27.
- Fischer, Wilbur F., and J. H. Bartlett, to Esso Research and Engineering Co. Acetal compounds as plasticizers for polymers. 2,782,177, 2-19-57, Cl. 260-33.2.
- Fiscus, Raymond L. Fishing bobber. 2,815,604, 12-10-57, Cl. 43-44.95.
- Fish, Bernard, to Interstate Container Corp. Cartons for garments. 2,779,460, 1-29-57, Cl. 206-7.
- Fish Carburetor Corp.: *See*—
Fish, John R. 2,801,086.
- Fish, Charles A., M. Hayano, and G. Pincus, to G. D. Searle & Co. Biochemical conversion of cortisone to hydrocortisone. 2,797,186, 6-25-57, Cl. 195-51.
- Fish, Herbert L., to T. P. Walker, as trustee. Open end ratchet wrenches. 2,787,180, 4-2-57, Cl. 81-57.
- Fish, John J., to Sun Chemical Corp. Treatment of petroleum materials and products thereof. 2,798,841, 7-9-57, Cl. 196-21.
- Fish, John R., to Fish Carburetor Corp. Carburetor. 2,801,086, 7-30-57, Cl. 261-34.
- Fish Products Co.: *See*—
Kreutzer, Conradin O. 2,792,659.
- Fish, Ulysess A. Folding seat. 2,816,871, 12-17-57, Cl. 155-133.
- Fish, Walter D.: *See*—
Curtis, John C., and Fish. 2,791,399.
- Fishbein, John: *See*—
Neale, Albert E. T., and Fishbein. 2,796,449.
- Fishbine, Harold L., and C. Sewell, Jr., to the United States of America as represented by the United States Atomic Energy Commission. Stabilized feedback amplifier. 2,802,070, 8-6-57, Cl. 179-171.
- Fishburne, Francis B. Portable press. 2,782,710, 2-26-57, Cl. 100-100.
- Fishelson, Joseph E., and G. G. Allenbaugh, Jr., to The Akron Brass Mfg. Co., Inc. Hose nozzle. 2,806,741, 9-17-57, Cl. 299-131.
- Fisher, Albert L. Wet line marker. 2,778,046, 1-22-57, Cl. 15-131.05.
- Fisher, Anton E. Floating grain lifter. 2,816,412, 12-17-57, Cl. 56-312.
- Fisher, Arthur L. Grain cleaner and separator. 2,801,005, 7-30-57, Cl. 209-261.
- Fisher, Berne N., and J. Chesney, to General Instrument Corp. Long-line tuner with variable end-loading for superheterodyne receiver. 2,795,693, 6-11-57, Cl. 250-20.
- Fisher, Charles B. Oscillation generators. 2,798,953, 7-9-57, Cl. 250-36.
- Fisher, Charles R., Jr.: *See*—
Pharis, William W., and Fisher. 2,792,451.
- Fisher, Charles R., Jr., to General Dynamics Corp. Code detecting system. 2,787,781, 4-2-57, Cl. 340-173.
- Fisher, Charles R., Jr., to General Dynamics Corp. Multi-office telephone system. 2,805,288, 9-3-57, Cl. 179-27.
- Fisher, Charles R., Jr., to General Dynamics Corp. Termination for a two-way trunk circuit. 2,806,086, 9-10-57, Cl. 179-16.
- Fisher, Chester D. to Sprout, Waldron & Co., Inc. Self loading and unloading truck for loose bulk material. 2,798,628, 7-9-57, Cl. 214-519.
- Fisher, Earl R., C. D. Robin, and R. C. Hurd, to United Aircraft Corp. Thermal expansion means for combustion chambers. 2,813,397, 11-19-57, Cl. 60-39.32.
- Fisher, Edward G.: *See*—
Fisher, Milton W. and E. G. 2,783,029.
- Fisher, Edward W., to The Garlock Packing Co. Shielded seals. 2,797,067, 6-25-57, Cl. 255-343.
- Fisher, Emery J. Cleaning mineral wool or rock wool. 2,808,929, 10-8-57, Cl. 209-36.
- Fisher, Evan D., and L. A. Lofgren, to the United States of America as represented by the Secretary of the Army. Arming wire release device. 2,789,469, 4-23-57, Cl. 89-1.5.
- Fisher, Ferd W.: *See*—
Faulhaber, James W., Fisher, Simons, and Murray. 2,804,756.
- Fisher, Frank R., and H. L. Pelzer, to Sinclair Oil and Gas Co. Thermal process for in-situ decomposition of oil shale. 2,780,449, 2-5-57, Cl. 262-3.
- Fisher, Franklin C. Machine for washing watch parts. 2,784,724, 3-12-57, Cl. 134-58.
- Fisher, George A. Method of processing maraschino cherries. 2,801,925, 8-6-57, Cl. 99-154.
- Fisher, Gordon S., and N. J. Morris, to the United States of America as represented by the Secretary of Agriculture. Aerator outlet. 2,788,083, 4-9-57, Cl. 183-24.
- Fisher Governor Co.: *See*—
Hunt, Verle J. 2,776,670.
Smith, Peter A. 2,813,401.
Wright, Harold B. 2,800,918.
- Fisher, Guy N., to Kraft Foods Co. Packaging. 2,777,770, 1-15-57, Cl. 99-178.
- Fisher, Hardin Y., to Controls Co. of America. Electrical relay. 2,793,916, 7-9-57, Cl. 200-87.
- Fisher, Henry B., to Phillips Petroleum Co. Minimizing water flow into oil wells. 2,816,610, 12-17-57, Cl. 166-9.
- Fisher, Herman W. Stem for tobacco pipes and the like. 2,782,739, 2-26-57, Cl. 131-210.
- Fisher, Hiram H., Jr., to Baker Oil Tools, Inc. Valves for controlling fluids in well bores. 2,815,925, 12-10-57, Cl. 251-347.
- Fisher, Howard M.: *See*—
Stratton, Edgar H., and Fisher. 2,780,384.
- Fisher, Howard W. Identification tag and signalling means. 2,807,108, 9-24-57, Cl. 40-2.2.
- Fisher, Hugh K., to James E. Kearney Corp. Packages. 2,782,911, 2-26-57, Cl. 206-47.
- Fisher, James G. Wheeled truck for roving. 2,813,642, 11-19-57, Cl. 214-84.
- Fisher, James R.: *See*—
Edgerton, William H., and Fisher. 2,777,854.
- Fisher, James W.: *See*—
Bates, Harold, Fisher, and Upton. 2,804,457.
Downing, John, Fisher, and Wheatley. 2,780,571.
Hindley, Frank, and Fisher. 2,782,237.
Wheatley, Edward W., Hodge, and Fisher. 2,806,010.
- Fisher, John A., to The Cleveland Pneumatic Tool Co. Ball deflector for ball screws. 2,783,656, 3-5-57, Cl. 74-459.
- Fisher, John T., to Stewart-Warner Corp. Purging system. 2,801,708, 8-6-57, Cl. 183-32.
- Fisher, John V., 20% to L. Crosby and 20% to K. M. Crawford. Container carrier clip. 2,815,855, 12-10-57, Cl. 206-65.
- Fisher, Joseph R., to Mine Safety Appliances Co. Protective hat with suspension attachment. 2,777,128, 1-15-57, Cl. 2-3.
- Fisher, Joseph R., to Mine Safety Appliances Co. Molded protective hat. 2,781,517, 2-19-57, Cl. 2-3.
- Fisher, Joseph R., and D. F. West, to Mine Safety Appliances Co. Protective helmet with shock absorbing suspension. 2,796,609, 6-25-57, Cl. 2-3.
- Fisher, Joseph V., to Precto, Inc. Machine for making electrical transmission lines. 2,787,567, 4-2-57, Cl. 154-2.24.
- Fisher, Joseph V. Foldable high gain antenna system. 2,813,268, 11-12-57, Cl. 343-915.
- Fisher, Lawrence E., to General Electric Co. Power distribution apparatus. 2,786,151, 3-19-57, Cl. 307-147.
- Fisher, Lawrence E., to General Electric Co. Current limiting busway. 2,786,152, 3-19-57, Cl. 307-147.
- Fisher, Louis L.: *See*—
Dolby, Ray M., Fisher, and Wernli. 2,797,263.
- Fisher & Ludlow Ltd.: *See*—
Orwin, Olaf J. B. 2,789,685.
- Fisher, Milton W. and E. G., to Modern Precasting Co. Precast picket fence. 2,783,029, 2-26-57, Cl. 256-19.
- Fisher-Price Toys, Inc.: *See*—
Doe, Walter P., and Sly. 2,810,986.
- Fisher, Ray. Loader and carry-all for automobiles. 2,785,816, 3-19-57, Cl. 214-450.
- Fisher, Ray W., to the United States of America as represented by the United States Atomic Energy Commission. Method of recovering thorium. 2,816,122, 12-10-57, Cl. 260-429.1.
- Fisher, Robert A.: *See*—
Sudarsky, Jerry M., and Fisher. 2,816,856.
- Fisher, Robert F. Differential gear locking mechanism. 2,803,150, 8-20-57, Cl. 74-710.5.
- Fisher, Robert P. Transmission mechanism for driving shafts at right angles to each other. 2,803,145, 8-20-57, Cl. 74-351.
- Fisher, Roy R., Sr., to Electric Radiator Corp. Vaporizer unit. 2,802,928, 8-13-57, Cl. 219-40.
- Fisher Scientific Co.: *See*—
Millen, Edwin R. 2,808,755.
- Fisher, Thomas W. C.: *See*—
Dunsmuir, Robert, Fisher, and Nicholls. 2,778,975.
- Fisher, Vernon H.: *See*—
Nichols, Nathaniel B., and Fisher. 2,814,167.
- Fisher, Walter J., and C. B. Sheerin, to International Harvester Co. Tubular tire carrier. 2,806,616, 9-17-57, Cl. 214-254.
- Fisher, Walter M., to Sturgis Posture Chair Co. Chair construction. 2,784,769, 3-12-57, Cl. 155-157.
- Fisher, Walter S., to General Motors Corp. Combustion chamber. 2,800,123, 7-23-57, Cl. 123-191.
- Fisher, Walter W., and C. E. Sohlgren, to Bendix Aviation Corp. Digital potentiometer for reflected binary code. 2,782,408, 2-19-57, Cl. 340-437.
- Fishing Fun, Inc.: *See*—
McBride, Russel E., and Porter. 2,784,515.
- Fishwood, Rollin W.: *See*—
Williams, Norman C., and Fishwood. 2,794,423.

- Fishwood, Rollin W., and W. J. Evans, to Power Brake Equipment Co. Governor for brake air compressor. 2,804,878, 9-3-57, Cl. 137-102.
- Fisk, Carl E. Educational devices. 2,797,500, 7-2-57, Cl. 35-45.
- Fisk, Wilbur. Shipping carton and readily installable garment hanger rack constructions. 2,788,888, 4-16-57, Cl. 206-7.
- Fiske, David. Window wiper for motor vehicles. 2,795,003, 6-11-57, Cl. 15-255.
- Fiske, Edward R., and M. A. Crozier, to National Fuel Conservation Co., Inc. Oil-burner and combustion head construction and installation. 2,796,923, 6-25-57, Cl. 158-76.
- Fiske, Paul E. Electronics matrix solver tube. 2,796,549, 6-18-57, Cl. 313-300.
- Fiskin, Jack M.: *See*—
Bennett, George A., Inatomi, and Fiskin. 2,789,038.
- Fitch, Clifford E. Insert bit and holder. 2,806,706, 9-17-57, Cl. 279-79.
- Fitch, Clyde J., to International Business Machines Corp. Electrophotographic printing machine. 2,807,233, 9-24-57, Cl. 118-637.
- Fitch, Ellery K., and C. E. Gates, to Bendix-Westinghouse Automotive Air Brake Co. Brake valve. 2,812,218, 11-5-57, Cl. 303-54.
- Fitch, Frederick T., to W. R. Grace & Co. Process for preparing a dry mixture of ammonium fluosilicate and silica. 2,785,953, 3-19-57, Cl. 23-88.
- Fitch, Frederick T., and M. P. From, to W. R. Grace & Co. Recovery of uranium from leached mud of the clinker process for producing phosphoric acid. 2,806,763, 9-17-57, Cl. 23-14.5.
- Fite, Harry H. Debris lifting self-cleaning rake. 2,797,544, 7-2-57, Cl. 56-400.1.
- Fites, Cyril B., to Wagner Electric Corp. Automatic drain valve. 2,810,393, 10-22-57, Cl. 137-204.
- Fitt, Theodore C.: *See*—
Fleming, Edward P., Fitt, and Muse. 2,810,563.
- Fitzer, Erich: *See*—
Hohn, Hans, Fitzer, and Müller. 2,810,667.
- Fitzgerald, Alan S., to Beckman Instruments Inc. Magnetic-amplifier binary counting system. 2,796,537, 6-18-57, Cl. 307-88.
- Fitzgerald, Charles W., to Joy Mfg. Co. Walking roof support. 2,795,935, 6-18-57, Cl. 61-45.
- Fitzgerald, Francis: *See*—
Shields, Ronald E., Findlay, and Fitzgerald. 2,778,678.
- FitzGerald, Harold G. Harmonica attachment. 2,811,070, 10-29-57, Cl. 84-378.
- Fitz Gerald, Harold G. Overhead projecting apparatus for bowling alleys and the like. 2,813,455, 11-19-57, Cl. 88-24.
- Fitz Gerald, Harold G. Image composing apparatus. 2,813,457, 11-19-57, Cl. 88-28.
- Fitzgerald, Harold M. Ventilating device for a water closet. 2,817,099, 12-24-57, Cl. 4-215.
- Fitzgerald, James W., and S. T. Marks, to the United States of America as represented by the Secretary of the Army. Piezoelectric blast gages. 2,799,788, 7-16-57, Cl. 310-8.3.
- Fitzgerald, John P. Safe protector. 2,804,029, 8-27-57, Cl. 109-34.
- Fitzgerald, John J.: *See*—
Singer, Marcus, and Fitzgerald. 2,786,468.
- Fitzgerald, Louis D.: *See*—
Caldwell, Carlyle G., Wurzburg, and Fitzgerald. 2,788,293.
- Fitzgerald, Maurice, to Sho-Me, Inc. Hoppers. 2,782,011, 2-19-57, Cl. 259-6.
- Fitz Gerald, Paulina. Hair treating apparatus. 2,776,667, 1-8-57, Cl. 132-32.
- Fitzgibbon, Thomas F., to North American Aviation, Inc. Gun charger. 2,814,971, 12-3-57, Cl. 89-1.
- Fitzhugh, William W., Inc.: *See*—
Maxon, Karl E. 2,811,297.
- Fitz Maurice, James J.: *See*—
Perry, Walter M., and Fitz Maurice. 2,813,637.
- Fitzner, Arthur O.: *See*—
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- Fitzpatrick, Arthur G., and S. Kuchinsky, to Burroughs Corp. Commutating circuit. 2,802,103, 8-6-57, Cl. 250-27.
- Fitzpatrick, John F.: *See*—
Fitzpatrick, Russell G. and J. L. 2,815,108.
- Fitz Patrick, James L. G. Air, land, and water craft. 2,783,955, 3-5-57, Cl. 244-22.
- Fitzpatrick, Russell G. and J. L. Parking meter. 2,815,108, 12-3-57, Cl. 194-1.
- Fitzpatrick, William. Skip-rope novelty. 2,795,424, 6-11-57, Cl. 272-75.
- Fitzsimmons, Archie L. Low velocity practice cartridge for firearms. 2,812,713, 11-12-57, Cl. 102-41.
- Fitzsimmons, Lloyd R. Dental face bow and hinge axis locator. 2,794,253, 6-4-57, Cl. 32-20.
- Fitzwater, Robert N.: *See*—
Rodriguez-Torrent, Ralph, and Fitzwater. 2,788,307.
- Five Star Co., Inc.: *See*—
Bengtsson, Bertil S. 2,784,277.
Bengtsson, Bertil S. 2,794,092.
- Fix, Earl L., to Pittsburgh Plate Glass Co. Sealing means for glazing unit. 2,784,462, 3-12-57, Cl. 20-56.5.
- Fixman, Carl M., and L. J. Lucas, to the United States of America as represented by the Secretary of the Navy. Servo-operated hydraulic power system. 2,792,813, 5-21-57, Cl. 121-38.
- Fixman, Isadore M.: *See*—
Fuchs, Theodore. 2,778,957.
- Fixture Hardware Corp.: *See*—
Keil, Henry P. 2,808,262.
Keil, Henry P. 2,813,483.
- Fjellstedt, Seth A. R. Agitator. 2,798,702, 7-9-57, Cl. 259-144.
- Flach, Patricia K. Combination clothing. 2,779,944, 2-5-57, Cl. 2-85.
- Flack, Herbert L.: *See*—
Jordan, George V., Flack, and Manzelli. 2,812,762.
- Flagg, Harold V., to Armco Steel Corp. Temperature control valve. 2,792,180, 5-14-57, Cl. 236-93.
- Flagg, Raymond P., S. W. Nickells, and R. T. Osen, to Minneapolis-Honeywell Regulator Co. Safety pilot. 2,795,637, 6-11-57, Cl. 136-4.
- Flagg, Willard A., Jr., to National Pneumatic Co., Inc. Motor field construction and method of making same. 2,804,680, 9-3-57, Cl. 29-155.5.
- Flagiello, Vincent A. Air operated clock. 2,779,152, 1-29-57, Cl. 58-46.
- Flagstad, Oscar A. Mop cloth or element. 2,800,674, 7-30-57, Cl. 15-229.
- Flair, Henry J., to Illinois Tool Works. Flexible mechanical recorder. 2,780,006, 2-5-57, Cl. 33-179.5.
- Flair, Henry J., to Illinois Tool Works. Profile checking machine. 2,787,060, 4-2-57, Cl. 33-179.5.
- Flair, Henry J., to Illinois Tool Works. Broach checking machine. 2,792,636, 5-21-57, Cl. 33-179.5.
- Flaith, George D., and J. E. Smith, Jr. Closure and tapping construction. 2,790,571, 4-30-57, Cl. 217-99.
- Flaith, George D., and J. E. Smith, Jr. Closure and tapping construction. 2,790,572, 4-30-57, Cl. 217-99.
- Flam, Abraham. Dry mop dust cleaner. 2,787,015, 4-2-57, Cl. 15-142.
- Flam, Edward. Simulated porthole or opening. 2,814,895, 12-3-57, Cl. 40-126.
- Flamand, Maurice R., to Draper Corp. Stop motion for looms. 2,782,807, 2-26-57, Cl. 139-228.
- Flämig, Fritz, and W. Kobitz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft Ingolstadt. Means for controlling the stroke of friction on rods in flat knitting machines. 2,787,898, 4-9-57, Cl. 66-126.
- Flammer, Howard A., to Bell Telephone Laboratories, Inc. Stapling machine. 2,775,763, 1-1-57, Cl. 1-49.
- Flan, Anthony, and H. N. Miller; said Miller assor. to said Flan. Control mechanism responsive to a recorded signal. 2,787,669, 4-2-57, Cl. 179-100.1.
- Flanagan, James L., to the United States of America as represented by the Secretary of the Air Force. Voltage selection and indication. 2,783,457, 2-26-57, Cl. 340-248.
- Flanders, Ernest V., to Jones and Lamson Machine Co. Method of grinding, including grinding wheel forming. 2,778,170, 1-22-57, Cl. 51-283.
- Flanders, George W., Jr.: *See*—
Golden, John. 2,783,931.
- Flanders, Jay D. Disposable napkin. Re. 24,385, 10-29-57, Cl. 128-290.
- Flanigan, Clifford H. Drive means for multiple rotating disc type lawn mower. 2,791,876, 5-14-57, Cl. 56-25.4.
- Flanigen, Cameron D., and R. Wiedis, to Bendix Aviation Corp. Combustor for turbine of aircraft starter. 2,811,832, 11-5-57, Cl. 60-39.65.
- Flannery, John P.: *See*—
Engel, J. Anthony, Flannery, and Hullar. 2,797,497.
- Flasko Forging Die Co.: *See*—
Green, George A. 2,815,545.
- Flatow, Tobias: *See*—
Blount, Alvie E., and Flatow. 2,812,922.
- Platz, Emil R., J. Hövel, deceased, by M. E. Hövel, executrix, and M. P. Roggendorff, to Klockner-Humboldt-Deutz Aktiengesellschaft. Air cooled internal combustion engine. 2,816,529, 12-17-57, Cl. 123-41.67.
- Flavin, Theodore F., to International Business Machines Corp. Controlled acceleration clutch mechanism. 2,777,552, 1-15-57, Cl. 192-52.
- Flaws, John, Jr., L. E. Dilts, and J. H. Hollopetre, to General Electric Co. Lamp mount making machine. 2,802,308, 8-13-57, Cl. 49-2.
- Flaxman, Marcellus T., to Wilco Co. Cleaning composition for automotive cooling systems. 2,802,788, 8-13-57, Cl. 252-105.
- Fleck, Fritz, to Sandoz A. G. Dry-cleaning and brightening of textiles. 2,776,909, 1-8-57, Cl. 117-33.5.
- Fleck, Fritz, to Saul & Co., as nominee of Fidelity Union Trust Co. Surface active agent containing 4-methyl-7-diethylaminocoumarin. 2,791,564, 5-7-57, Cl. 252-301.2.
- Fleck, Raymond N., to Union Oil Co. of California. Isotope separation process. 2,780,526, 2-5-57, Cl. 23-151.
- Fleck, Raymond N., to Union Oil Co. of California. Vanadium hydrocarbon conversion catalysts. 2,785,141, 3-12-57, Cl. 252-464.
- Fleck, Raymond N., to Union Oil Co. of California. Vibrational wave generator. 2,806,533, 9-17-57, Cl. 166-45.
- Fleckenstein, Hans, to Licenta Patent-Verwaltungs-G. m. b. H. Short-circuit winding for split-pole motors. 2,815,459, 12-3-57, Cl. 310-172.

- Fleetwood, Roscoe, to Properties, Inc. Pallet carrier. 2,803,369, 8-20-57, Cl. 220-19.
- Flegel, Curt, to Hartford National Bank and Trust Co., as trustee. Device for water-cooled oil coolers. 2,778,608, 1-22-57, Cl. 257-198.
- Fleischauer, Fred J., to H. H. Robertson Co. Roller coating machine. 2,789,530, 4-23-57, Cl. 118-248.
- Fleischauer, Fred J., to H. H. Robertson Co. Roller coating machine. 2,812,739, 11-12-57, Cl. 118-248.
- Fleischer, Arthur, to Nickel Cadmium Battery Corp. Alkaline electric storage battery and electrolyte therefor. 2,802,043, 8-6-57, Cl. 136-165.
- Fleischer, Harold, to International Business Machines Corp. Pulse sharpening circuits. 2,793,303, 5-21-57, Cl. 307-88.5.
- Fleischer, Henry, to The Finkel Umbrella Frame Co., Inc. Clamp for securing an umbrella cover to an umbrella rib. 2,784,727, 3-12-57, Cl. 135-36.
- Fleischer, Paul, to F. Ornstein. Frictional fastening method and device. 2,778,701, 1-22-57, Cl. 311-109.
- Fleischer, Ruth. Device for administering medicine to be attached to a spoon handle. 2,795,043, 6-11-57, Cl. 30-123.
- Fleischhacker, Desider, and N. Barsel, to International Hormones, Inc. Solubilized adrenochrome hemostatic compositions and process of producing same. 2,791,532, 5-7-57, Cl. 167-65.
- Fleischhauer, Heinrich: *See—*
Ley, Hellmut, Keller, Kopp, Rausch, and Fleischhauer. 2,813,813.
- Fleischhauer, Richard, to Cassella Farbwerke Mainkur Aktiengesellschaft. Tetrakisazo-dyestuffs. 2,786,830, 3-26-57, Cl. 260-166.
- Fleischmann, Herbert J., to Michigan Chemical Co. Method for the production of high purity caesium compounds from caesium-bearing minerals. 2,808,313, 10-1-57, Cl. 23-32.
- Fleischmann, Martin, to The Timken Roller Bearing Co. Electric welding apparatus. 2,816,212, 12-10-57, Cl. 219-106.
- Fleisher, Harry. Cloth marking drill. 2,778,297, 1-22-57, Cl. 101-26.
- Fleming, Alexander M.: *See—*
Hubbard, Arthur B., and Fleming. 2,791,193.
- Fleming, David H., Jr.: *See—*
Aitchison, Robert B., Fleming, Inskeep, and Armstrong. 2,781,754.
- Arnold, Cornelius S., Calaman, Napiorski, and Fleming. 2,794,620.
- Fleming, Edward P., T. C. Fitt, and R. B. Muse, to American Smelting and Refining Co. Liquid-gas contact tower. 2,810,563, 10-22-57, Cl. 261-114.
- Fleming, Howard L.: *See—*
Traisman, Edwin, and Fleming. 2,781,267.
- Fleming, Howard M., to Monro Calculating Machine Co. Delayed carriage return control means for listing calculators. 2,809,782, 10-15-57, Cl. 235-60.42.
- Fleming, James D., to General Motors Corp. Coated piston ring. 2,807,511, 9-24-57, Cl. 309-23.
- Fleming, James D., and A. O. De Hart, to General Motors Corp. Coated piston. 2,817,562, 12-24-57, Cl. 309-4.
- Fleming, Jere B., and M. B. Dry powder fire extinguisher. 2,785,759, 3-19-57, Cl. 169-31.
- Fleming, Jere B., and M. B. Dry powder fire extinguisher. 2,785,760, 3-19-57, Cl. 169-31.
- Fleming, John J.: *See—*
Kindle, Robert W., and Fleming. 2,776,699.
Kindle, Robert W., and Fleming. 2,788,839.
Kindle, Robert W., and Fleming. 2,798,527.
- Fleming, John S.: *See—*
Fleming, Margaret E. 2,811,160.
Fleming, Margaret E. 2,811,161.
- Fleming, Joseph. Door latch. 2,793,062, 5-21-57, Cl. 292-57.
- Fleming, Karl J., to General Electric Co. Coiled spring hinge. 2,803,034, 8-20-57, Cl. 16-180.
- Fleming, Karl J., and A. D. De Mott, to General Electric Co. Automatic cooking appliance. 2,818,011, 12-31-57, Cl. 99-329.
- Fleming, Lawrence. Beat frequency oscillator. 2,783,379, 2-26-57, Cl. 250-36.
- Fleming, Lawrence T., to Heath Co. Sweep signal generator. 2,789,225, 4-16-57, Cl. 250-36.
- Fleming, Margaret E., to J. S. Fleming. Manicure tools. 2,811,160, 10-29-57, Cl. 132-75.3.
- Fleming, Margaret E., to J. S. Fleming. Manicure tools. 2,811,161, 10-29-57, Cl. 132-76.4.
- Fleming, Martin B.: *See—*
Fleming, Jere B., and M. B. 2,785,759.
Fleming, Jere B., and M. B. 2,785,760.
- Fleming, Victor S. Plumb bob. 2,784,498, 3-12-57, Cl. 33-217.
- Fleming, William. Shoe shining kit. 2,791,791, 5-14-57, Cl. 15-265.
- Fleming, William L.: *See—*
Junk, William A., Jr., Schmidt, Seelig, and Fleming. 2,780,582.
- Fleming, William T., to Specialties Development Corp. Valve. 2,780,433, 2-5-57, Cl. 251-70.
- Fleming, William T., to Specialties Development Corp. Deformation switch. 2,790,873, 4-30-57, Cl. 200-86.
- Flemmert, Gösta L.: *See—*
Stelling, Per O., and Flemmert. 2,798,792.
- Flenniken, William W.: *See—*
Goldtrap, Charley L. 2,809,656.
- Flessner, William G., and E. W. Luke, to Fansteel Metallurgical Corp. Apparatus for riveting. 2,781,442, 2-12-57, Cl. 219-150.
- Fletcher, Cleo L. Power driven hand cultivator. 2,805,611, 9-10-57, Cl. 97-40.
- Fletcher, Arthur H., R. W. Corbitt, and W. S. Knowles, deceased (by J. W. Knowles and T. R. Grimsdick, administrators), to Rolls-Royce Ltd. Gas turbine engines. 2,802,334, 8-13-57, Cl. 60-39.16.
- Fletcher Aviation Corp.: *See—*
Billstrom, Victor J. 2,776,853.
Billstrom, Victor J. 2,776,854.
Gordon, Carroll G. 2,798,209.
Gordon, Carroll G. 2,813,536.
- Fletcher, Carney B.: *See—*
Atherton, William C., Felps, and Fletcher. 2,792,845.
- Fletcher, David C., to the United States of America as represented by the Secretary of the Army. Rate reducer for a firearm. 2,791,942, 5-14-57, Cl. 89-131.
- Fletcher, Ed: *See—*
Slayter, Games, and Fletcher. 2,810,157.
- Fletcher, Edward H.: *See—*
Johnson, John G., and Fletcher. 2,783,064.
- Fletcher, Edward H., to Deere Mfg. Co. Valve structure for steering mechanism. 2,782,652, 2-26-57, Cl. 74-388.
- Fletcher, Edward H., to Deere Mfg. Co. Hydraulic brake actuator. 2,816,422, 12-17-57, Cl. 60-54.6.
- Fletcher, George L., to Eastman Kodak Co. Preparation of vitamin A aldehyde. 2,811,561, 10-29-57, Cl. 260-598.
- Fletcher, Harlan B., to Wheeler Reflector Co. Fluorescent lighting fixture. 2,797,312, 6-25-57, Cl. 240-41.55.
- Fletcher, Horace, Jr. Stacking sheet. 2,784,131, 3-5-57, Cl. 154-53.5.
- Fletcher, Horace, Jr. Dull finish laminated drawing board cover. 2,810,232, 10-22-57, Cl. 45-131.
- Fletcher, J. H., & Co.: *See—*
Fletcher, James R. and W. F. 2,811,335.
Fletcher, William F. 2,805,073.
- Fletcher, J. N.: *See—*
Thomisee, Lanie. 2,813,369.
- Fletcher, James R. and W. F., to J. H. Fletcher & Co. Mobile roof drill. 2,811,335, 10-29-57, Cl. 255-51.
- Fletcher, John, to National Research Corp. Process for the production of a highly reflectant, heat resistant wrinkle finish on a base. 2,776,225, 1-1-57, Cl. 117-41.
- Fletcher, John O., 50% to H. Flint. Anti-lock device for a cabinet door. 2,783,722, 3-5-57, Cl. 109-63.5.
- Fletcher, Kenneth E. Fountain brush. 2,793,382, 5-28-57, Cl. 15-139.
- Fletcher, Lawrence A.: *See—*
Atton, Alfred M., and Fletcher. 2,797,374.
- Fletcher, Orion F. Fuel injection system for internal combustion engines. 2,800,121, 7-23-57, Cl. 123-119.
- Fletcher, Philip J., to Power Jets (Research and Development) Ltd. Turbine outlet ducting. 2,781,057, 2-12-57, Cl. 138-39.
- Fletcher, Robert C., and S. Millman, to Bell Telephone Laboratories, Inc. Magnetrans. 2,797,362, 6-25-57, Cl. 315-39.65.
- Fletcher, Robert E., and G. R. Reed, to Dana Corp. Power take-off control mechanism. 2,798,382, 7-9-57, Cl. 74-473.
- Fletcher, Walter G., and P. F. Ashwood, to Power Jets (Research and Development) Ltd. Combustion apparatus and liquid fuel discharge apparatus adapted for use therewith. 2,781,638, 2-19-57, Cl. 60-39.74.
- Fletcher, Wendell S. Muffling and oil-cooling device. 2,809,813, 10-15-57, Cl. 257-16.
- Fletcher, Wendell S. Remotely controlled plural antennas and radio frequency amplifiers for receiver. 2,815,440, 12-3-57, Cl. 250-20.
- Fletcher, Wendell S., and E. W. Holland; said Holland assor. to said Fletcher. Master radio receiver with audio distribution system. 2,798,151, 7-2-57, Cl. 250-20.
- Fletcher, William A., and M. E. Todd, to General Motors Corp. Workpiece handling device. 2,811,058, 10-29-57, Cl. 78-96.
- Fletcher, William F.: *See—*
Fletcher, James R. and W. F. 2,811,335.
- Fletcher, William F., to J. H. Fletcher & Co. Detachable self locking driving device. 2,805,073, 9-3-57, Cl. 279-9.
- Fletcher, William N., to Inland Container Corp. Fibreboard reel type package. 2,812,854, 11-12-57, Cl. 206-59.
- Flcury, Jack E., to Detroit Controls Corp. Horizontal type thermostat. 2,799,749, 7-16-57, Cl. 200-139.
- Flcury, Kenneth L. Cap for tube and bottles. 2,814,411, 11-26-57, Cl. 220-30.5.
- Flexible Mfg. Corp.: *See—*
Crane, Hubert R. 2,794,197.
- Flexible Sewer Rod Equipment Co.: *See—*
Ciaccio, Peter L. 2,793,060.
- Flexible Steel Lacing Co.: *See—*
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- Flexibox Ltd.: *See—*
Hanson, Oswin P. 2,782,571.
- Flexigrip Inc.: *See—*
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Svec, Emil F., and Staller. 2,780,261.

- Flexi-Mat Corp.: *See*—
Hoag, Charles R. 2,790,640.
- Flexi-Versal Corp.: *See*—
Kitselman, John P. 2,787,895.
Redard, Leslie J. 2,811,025.
- Flex-Let Corp.: *See*—
Vastano, Joseph J. 2,805,541.
- Flex-O-Glass, Inc.: *See*—
Christensen, Delbert L. 2,801,739.
Warp, Harold. 2,811,392.
- Flex-O-Lators, Inc.: *See*—
Platt, John G. 2,779,036.
Platt, John G. 2,794,493.
Richardson, William F. 2,800,186.
Richardson, William F. 2,800,170.
Richardson, William F. 2,816,409.
- Flex-O-Lite Mfg. Corp.: *See*—
Law, Preston D., and D. D'Adrian. 2,794,301.
- Flexonics Corp.: *See*—
Ekholm, Carl R., and Krabbe. 2,777,500.
- Fleysher, Maurice H., to Allied Chemical & Dye Corp. Process for producing pyranthroue. 2,787,622, 4-2-57, Cl. 260—360.
- Flick, Francis S., to Flick-Reedy Corp. Piston and cylinder device with replaceable piston rod seal. 2,798,788, 7-9-57, Cl. 309—2.
- Flick, Francis S., and W. J. Kudlaty, to Flick-Reedy Corp. Cylinder mount. 2,798,777, 7-9-57, Cl. 309—2.
- Flick-Reedy Corp.: *See*—
Flick, Francis S. 2,798,778.
Flick, Francis S., and Kudlaty. 2,798,777.
- Flick, Robert H.: *See*—
Dorfman, Hiller D., and Flick. 2,797,277.
Gelzheiser, Francis L., Flick, and Reichert. 2,797,278.
- Flickinger, John A., to United States Rubber Co. Comminuted particles of a composition containing a rubber, bitumen, and blowing agent, and method of using same in building roads. 2,807,596, 9-24-57, Cl. 260—28.5.
- Flight Equipment and Engineering Corp.: *See*—
Liljengren, Curtis P., and Bush. 2,799,326.
Liljengren, Curtis P., and Magrauth. 2,799,321.
- Flight Refueling Inc.: *See*—
Goodliffe, Arthur W., and MacGregor. 2,788,243.
Jones, Eric C. 2,796,884.
- Flight, Theodore N., and A. J. Chinn, to The Rheostatic Co. Ltd. Snap action device. 2,814,685, 11-26-57, Cl. 200—67.
- Flinchbaugh, Henry K. Automatic valves for liquid dispensing nozzles. 2,813,554, 11-19-57, Cl. 141—215.
- Flinn, George E., to Borg-Warner Corp. Transmission. 2,785,589, 3-19-57, Cl. 74—732.
- Flinn, Howard T. Bath mat hanger. 2,777,658, 1-15-57, Cl. 248—158.
- Flinn, Richard A.: *See*—
Brownell, Lloyd E., Flinn, and Young. 2,799,493.
- Flinn, Richard A. Apparatus for stressing and viewing metallurgical specimens. 2,817,232, 12-24-57, Cl. 73—100.
- Flint, Charles R. Intake valves for internal combustion engines. 2,787,992, 4-9-57, Cl. 123—188.
- Flint, Charles R. Ignition systems for internal combustion engines. 2,799,792, 7-16-57, Cl. 313—149.
- Flint, Harvey: *See*—
Fletcher, John O. 2,783,722.
- Flint, Hyland C., to American Metal Products Co. Spring construction. 2,790,488, 4-30-57, Cl. 155—179.
- Flint, Hyland C., to American Metal Products Co. Formed spring cushion construction. 2,815,797, 12-10-57, Cl. 155—179.
- Flint, John A., to Power Jets (Research and Development) Ltd. Cooling of turbine rotors. 2,788,951, 4-16-57, Cl. 253—39.15.
- Flint, Kenneth C.: *See*—
Werner, Frank R., Topper, and Flint. 2,800,854.
- Flint, Maurice B. Transparency in the form of an article of jewelry for personal wear as a pendant. 2,773,208, 1-22-57, Cl. 63—23.
- Flint, Ralph D., and R. Borglin, $\frac{1}{2}$ to C. A. Kane. Suspended kite string rider. 2,785,871, 3-19-57, Cl. 244—155.
- Flint, Thomas: *See*—
Pozorycki, John W., Lazott, Flint, and Smith. 2,783,830.
- Flintermann, Edgar D.: *See*—
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- Flisik, Alvin C., and L. Nicholl, to Kay-Fries Chemicals Inc. Method for the purification of malonitrile. 2,809,986, 10-15-57, Cl. 260—465.2.
- Flite-Tonics, Inc.: *See*—
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- Float-O-Matic Mfg. Co.: *See*—
Palmer, Elmer D. 2,816,446.
- Flo-Ball Pen Corp.: *See*—
Clary, Hugh L., Johnson, and Morgenroth. 2,809,609.
Clary, Hugh L., and Schwend. 2,809,610.
- Flockhart, James. Tractor trailer air brake system. 2,800,980, 7-30-57, Cl. 188—3.
- Flohr, William P., Jr.: *See*—
Mentzer, Charles R., and Flohr. 2,814,917.
- Flom, Melvin O. Automobile sun visor attachment. 2,793,054, 5-21-57, Cl. 281—15.
- Flo-Mix Fertilizers Corp.: *See*—
Dugan, John W. 2,781,612.
Dugan, John W. 2,784,530.
- Flood, Carl A., to Dennison Mfg. Co. Apparatus for making corner mounts. 2,791,948, 5-14-57, Cl. 93—1.
- Flood Control Wave Co.: *See*—
Weisman, Sam, and Fine. 2,792,011.
- Flood, Harry, and D. Tatlock. Foot pumps. 2,781,166, 2-12-57, Cl. 230—175.
- Flood, John E., to Siemens Brothers & Co. Ltd. Automatic selecting systems. 2,787,666, 4-2-57, Cl. 179—18.
- Flood, John E., to Siemens Brothers & Co. Ltd. Automatic exchange systems. 2,802,058, 8-6-57, Cl. 179—18.
- Flood, John J., and E. L. Pulnik. Flexible nozzle for welding. 2,817,749, 12-24-57, Cl. 219—130.
- Flood, Robert D.: *See*—
Torre, Alton J., Kirkwood, and Flood. 2,799,723.
- Flood City Brass & Electric Co.: *See*—
MacWilliams, Fred F. 2,810,350.
- Flook, William M., Jr., and D. D. Friel, to E. I. du Pont de Nemours and Co. Interference compensation in X-ray analysis. 2,784,319, 3-5-57, Cl. 250—43.5.
- Flora, Laurence H., to Tinnerman Products, Inc. Holder for fastening device. 2,779,377, 1-29-57, Cl. 151—41.76.
- Flora, Laurence H., to Tinnerman Products, Inc. Separable fastener. 2,798,271, 7-9-57, Cl. 24—73.
- Flora, Laurence H., to Tinnerman Products, Inc. Separable fastener. 2,798,277, 7-9-57, Cl. 24—221.
- Flora, Laurence H., to Tinnerman Products, Inc. Band clamp with axial manipulating means. 2,803,866, 8-27-57, Cl. 24—268.
- Flora, Rolla T. Viewing device for use with three-dimensional still film. 2,807,191, 9-24-57, Cl. 88—31.
- Florac, Richard R. Superregenerative receiver with non-linear element in tuned circuit. 2,799,775, 7-16-57, Cl. 250—20.
- Florac, Richard R., to Aircall, Inc. Paging machine. 2,804,507, 8-27-57, Cl. 179—100.2.
- Floraday, Burton S., to Detroit Harvester Co. Hydraulic pump. 2,797,647, 7-2-57, Cl. 103—173.
- Florant, Leroy F.: *See*—
Gettner, Mark E., Ornstein, and Florant. 2,797,616.
- Florence, Noel S., to Lightolier, Inc. Lighting system and ceiling panel. 2,817,752, 12-24-57, Cl. 240—9.
- Florence, Robert T.: *See*—
Klimkowski, Robert J., and Florence. 2,795,504.
Klimkowski, Robert J., and Florence. 2,798,427.
- Florence Stove Co.: *See*—
Mathis, John B. 2,787,948.
- Florentine, Frank P., Jr., to General Electric Co. Ozonolysis of primary amines. 2,793,221, 5-21-57, Cl. 260—413.
- Florentine, Frank P., Jr., to General Electric Co. Ozonolysis of furfural. 2,793,228, 5-21-57, Cl. 260—484.
- Flores, Fernando E.: *See*—
Friedman, Bernard, and Flores. 2,807,446.
- Flores, Joaquin E., 50% to J. W. Hernandez. Doweling jig. 2,796,778, 6-25-57, Cl. 77—62.
- Floreys, Klaus G., and J. Fried, to Olin Mathieson Chemical Corp. Purification of steroids. 2,809,977, 10-15-57, Cl. 260—397.45.
- Florian, Lawrence R. Snap-on guards for children's chairs. 2,807,312, 9-24-57, Cl. 155—127.
- Florin, Alan E.: *See*—
Heath, Roy E., and Florin. 2,815,266.
- Florio, Patrick A., to Mohasco Industries, Inc. Textile fabric rendered soil resistant with aluminum phosphate and method of producing same. 2,786,787, 3-26-57, Cl. 117—169.
- Florio, Patrick A., to Mohasco Industries, Inc. Process for increasing the filling power of land fowl feathers by digestion with acids and precipitating inorganic metal salts and feathers produced therefrom. 2,805,116, 9-3-57, Cl. 8—94.10.
- Florio, Vito W. Baby's feeding aid. 2,787,395, 4-2-57, Cl. 215—100.
- Florio, Vito W. Baby feeding spoon wiping aid. 2,802,030, 8-20-57, Cl. 15—245.
- Florman, Irving. Convertible timepiece. 2,780,050, 2-5-57, Cl. 58—88.
- Florschutz, Fritz E.: *See*—
Horn, Merl E., Tremblay, and Florschutz. 2,813,170.
MacNeill, John B., and Florschutz. 2,792,477.
- Florschutz, Fritz E., and C. G. Lentjes, to Westinghouse Electric Corp. Circuit interrupter contact structure. 2,790,880, 4-30-57, Cl. 200—166.
- Florsdorf, Earl W., to F. J. Stokes Corp. Vacuum gage. 2,780,102, 2-5-57, Cl. 73—400.
- Florsdorf, Earl W., and W. H. Hamilton, to F. J. Stokes Corp. Process for freeze-drying soft cheese. 2,789,909, 4-23-57, Cl. 99—115.
- Floreal Corp.: *See*—
Phillips, Harry L., and Fain. 2,817,273.
- Flourny, A. F.: *See*—
Menge, Theodore L. 2,792,984.
- Flow, Turner D.: *See*—
Stephens, Samuel J., and Flow. 2,800,338.
- Flower, Guiles, Jr.: *See*—
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- Flowers, Alfred A., to Western Electric Co., Inc. System for automatically aging a magnetron and suppressing arcing thereof. 2,804,865, 8-27-57, Cl. 316—27.
- Flowers, Alfred A., and G. A. Mitchell, to Western Electric Co., Inc. Apparatus for forming pulses. 2,798,154, 7-2-57, Cl. 250—27.

- Flowers, Thomas H. Pulse switching systems. 2,786,891, 3-26-57, Cl. 179-15.
- Floyd, Baron B. Fuel injection system. 2,793,628, 5-28-57, Cl. 123-28.
- Floyd, Edwin, Jr., to AMP Inc. Connector. 2,799,721, 7-16-57, Cl. 174-94.
- Floyd, Joseph E.: *See—*
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- Floyd, Marion. Retractable stove hood. 2,809,575, 10-15-57, Cl. 98-115.
- Floyd, Ronald W.: *See—*
West, De Witt H., Llewellyn, and Floyd. 2,712,276.
- Floyd, William B.: *See—*
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- Fluchaire, Maurice L. A., and J. A. Phélisse, to Societe des Usines Chimiques Rhone-Poulenc. Cellulosic plastic compositions. 2,777,825, 1-15-57, Cl. 260-17.
- Fluck, Linton A.: *See—*
Cooke, Theodore F., Fluck, and Roth. 2,785,145.
- Fluck, Linton A., and L. J. Moretti, to American Cyanamid Co. Flameproofing composition. 2,784,159, 3-5-57, Cl. 252-81.
- Fluegel, Dale A., and J. R. Parsons, to Phillips Petroleum Co. Temperature measurement and control. 2,805,311, 9-3-57, Cl. 219-20.
- Fluegel, Dale A., and D. E. Lupfer, to Phillips Petroleum Co. Flow measuring servosystem. 2,813,237, 11-12-57, Cl. 318-29.
- Flugge, Sylvester L., and J. Henchert, to Continental Can Co., Inc. Plastic nozzle mounting and method of forming same. 2,808,972, 10-8-57, Cl. 222-566.
- Fuhrer, Marvin P. Tossing discs. 2,798,722, 7-9-57, Cl. 273-106.
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- Fluke, Jefferson M., E. Albertson, and D. Peabody, to Ducking Ducks Inc. Diving duck decoys. 2,814,898, 12-3-57, Cl. 43-3.
- Fluke, John M.: *See—*
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- Flury, Karl, to Defensor A. G. Appliance intended for use with subscribers' telephone stations to reproduce incoming calls in a loudspeaker. 2,805,284, 9-3-57, Cl. 179-1.
- Flushmaster Corp., The: *See—*
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- Fluto, Alvin F. Grapple. 2,781,223, 2-12-57, Cl. 294-106.
- Flye, Arthur J., Sr. Hook protector. 2,802,293, 8-13-57, Cl. 43-25.2.
- Flygare, Carl G., to Norton Co. Valve grinding machine. 2,778,163, 1-22-57, Cl. 51-3.
- Flynn, Charles V. Applicator-type bottle cap. 2,803,028, 8-20-57, Cl. 15-140.4.
- Flynn, Edmund W.: *See—*
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- Flynn, Edward J., to General Electric Co. Self-supporting electromagnet coil. 2,814,581, 11-26-57, Cl. 154-80.
- Flynn, Edwin H., and H. W. Murphy, to Eli Lilly and Co. Des-N-methyl erythromycin. 2,812,323, 11-5-57, Cl. 260-211.
- Flynn, Elwin E. Water cooler. 2,792,690, 5-21-57, Cl. 62-4.
- Flynn, Elwin E. Blower mounting. 2,798,660, 7-9-57, Cl. 230-117.
- Flynn & Emrich Co.: *See—*
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- Turner, James F., and Breidenbaugh. 2,777,406.
- Flynn, Francis J.: *See—*
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- Flynn, James P., and W. P. Saunders, to The Dow Chemical Co. Method of making a magnesium-base alloy containing aluminum and zinc. 2,813,023, 11-12-57, Cl. 75-168.
- Flynn, John H. Gas burner. 2,789,633, 4-23-57, Cl. 158-116.
- Flynn, John H. Operating controls for print-drying apparatus. 2,797,074, 6-25-57, Cl. 263-3.
- Flynn, John H. Dual flame band oven burner with pilot cross-over. 2,801,686, 9-6-57, Cl. 158-115.
- Flynn, John H. Print-drying apparatus. 2,803,446, 8-20-57, Cl. 263-3.
- Flynn, William D., Jr. Reflector panel. 2,800,127, 7-23-57, Cl. 126-141.
- Flynn, William D., Sr. Releasable bait rig support. 2,790,265, 4-30-57, Cl. 43-43.1.
- Foard, Robert F. Printing machine. 2,814,987, 12-3-57, Cl. 101-115.
- Foch, Marcel J. Flash-light and extension-light combined. 2,818,498, 12-31-57, Cl. 240-10.66.
- Focht, Claude K., to Curtiss-Wright Corp. Oil pressure control valve. 2,796,075, 6-18-57, Cl. 137-108.
- Focht, Fred D. Sealing strip for sliding doors. 2,793,405, 5-28-57, Cl. 20-69.
- Focht, Fred D. Guards for sliding doors. 2,793,406, 5-28-57, Cl. 20-69.
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- Foderaro, Anthony J.: *See—*
Schiring, Ralph C., and Foderaro. 2,790,687.
- Fodor, Nicholas. Heating and cooling system for a bungalow. 2,784,945, 3-12-57, Cl. 257-3.
- Foebr, Edward G.: *See—*
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- Foebr, Edward G., to California Research Corp. Filter adhesives. 2,789,093, 4-16-57, Cl. 252-52.
- Foerster, Edward L.: *See—*
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- Foerster, Friedrich. Measuring and testing instruments. 2,806,992, 9-17-57, Cl. 324-34.
- Fogal, Gordon L., to the United States of America as represented by the Secretary of the Navy. Drill mine. 2,775,939, 1-1-57, Cl. 102-13.
- Fogal, Gordon L. Parachute release mechanism. 2,802,690, 8-13-57, Cl. 294-83.
- Fogal, Gordon L., and G. B. Brown. Parachute release mechanism. 2,778,308, 1-22-57, Cl. 102-4.
- Fogal, Gordon L., and G. B. Brown. Delayed opening parachute pack. 2,812,148, 11-5-57, Cl. 244-150.
- Fogarty, John J., and H. A. De Cenzo, to the United States of America as represented by the Secretary of the Navy. Pumpjet torpedo steering control. 2,795,201, 6-11-57, Cl. 114-23.
- Fogel, Aaron. Nut-holding socket wrench. 2,805,594, 9-10-57, Cl. 81-125.
- Fogel, Jacob: *See—*
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- Fogel, Jacob. Fan rotor. 2,800,967, 7-30-57, Cl. 170-163.
- Fogelberg, Clement V., and E. W. Morse, to National Video Corp. Internal pole piece arrangement for a magnetically-focused cathode ray tube. 2,785,330, 3-12-57, Cl. 313-84.
- Fogelson, Emile: *See—*
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- Fogerty, Edward H. Septic tank drain line. 2,802,339, 8-13-57, Cl. 61-11.
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- Foggiano, Pellegrino F., A. Alberelli, and H. Mattel. Device for moving baby carriages over curb and steps. 2,787,472, 4-2-57, Cl. 280-5.28.
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- Fogh, Victor, to Inter-Urban Express Corp. Flexible gate and latch means therefor. 2,812,814, 11-12-57, Cl. 160-328.
- Fogiel, Max. Automobile parking aid system. 2,783,463, 2-26-57, Cl. 340-282.
- Fogiel, Max. Tap and die holder. 2,800,670, 7-30-57, Cl. 10-116.
- Fogiel, Max. Automatic measuring device. 2,814,120, 11-26-57, Cl. 33-147.
- Foglia, Andrew J.: *See—*
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- Fohlen, George M.: *See—*
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- Foin, Owen F., Jr. Combination T-R. gas switching tube and a gas R. F. antenna tube. 2,807,714, 9-24-57, Cl. 250-13.4.
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- Fokker, Herman, to North American Philips Co. Inc. Method of fractionating gas mixtures in a rectifying column. 2,808,710, 10-8-57, Cl. 62-123.
- Folberth, Frederick G.: *See—*
Folberth, William M., Jr., and F. G. 2,796,262.
- Folberth, William M., Jr., and F. G. 2,782,036.
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- Foley, Jerrold S., to International Telephone and Telegraph Corp. Unidirectional signal-conducting system. 2,796,539, 6-18-57, Cl. 307-149.
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- McConnell, Duane J., Zbikowski, and Chenoweth. 2,802,379.
- Wicks, Donald L. 2,811,152.
- Foley, Marion B., to A. E. Staley Mfg. Co. Treatment of wash waters from alkali oil refining. 2,784,161, 3-5-57, Cl. 252-326.
- Foley, Rupert M., to Dorr-Oliver Inc. Method of treating copper ore concentrates. 2,783,141, 2-26-57, Cl. 75-26.
- Foley, Thomas P., to General Electric Co. Magnetic door latch. 2,781,216, 2-12-57, Cl. 292-251.5.
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- Foley, Thomas P., to General Electric Co. Refrigerator cabinet door stop. 2,811,936, 11-5-57, Cl. 109-63.5.
- Foley, William J., to Westinghouse Electric Corp. Refrigeration apparatus defrosting control. 2,781,641, 2-19-57, Cl. 62-4.
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- Folker, Herbert P., to National Safety Appliance Co., Ltd. Train control system. 2,810,611, 10-22-57, Cl. 303-18.

- Folkers, Karl, to Merck & Co., Inc. 4-pyridoxylamino-3-isoxazolidone compounds. 2,776,296, 1-1-57, Cl. 260-297.
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- Folkerts, Walter E., to Chrysler Corp. Power steering mechanism. 2,788,770, 4-16-57, Cl. 121-41.
- Folkerts, Walter E., to Chrysler Corp. Power steering unit having simplified control valve. 2,801,619, 8-6-57, Cl. 121-46.5.
- Follins, Hillis O., to The Pure Oil Co. Production of organic thiols. 2,786,079, 3-19-57, Cl. 260-609.
- Foll, John V., to Muirhead & Co. Ltd. Facsimile receiver. 2,816,955, 12-17-57, Cl. 178-7.4.
- Follette, Wallace J.: *See*—
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- Follis, Robert H., and R. M. Bundy. Toy animal bank. 2,804,718, 9-3-57, Cl. 46-3.
- Folsom, Ralph L., to Austenal, Inc. Refractory mold material. 2,812,265, 11-5-57, Cl. 106-38.9.
- Foltis, Anestis C., to Knit Wear Patents, Inc. Slide fastener. 2,809,412, 10-15-57, Cl. 24-205.15.
- Fondé, Dorothy. Mail dispenser. 2,804,263, 8-27-57, Cl. 232-45.
- Fong, Joseph C. Toy. 2,786,300, 3-26-57, Cl. 46-1.
- Fong, Willie, and H. P. Lundgren, to the United States of America as represented by the Secretary of Agriculture. Polyethyleneglycols as laundering aids. 2,806,001, 9-10-57, Cl. 252-161.
- Fong, Wing H. Combined accelerator and brake control. 2,792,092, 5-14-57, Cl. 192-3.
- Fonten, Gunther S., and J. A. Hogg, to The Upjohn Co. Diketopregnanespirothiazolidine. 2,776,967, 1-8-57, Cl. 260-239.5.
- Fonten, Gunther S., R. H. Levin, and A. V. McIntosh, Jr., to The Upjohn Co. 4,21-difialo-17-hydroxypregnane-3,11,20-trione. 2,778,842, 1-22-57, Cl. 260-397.45.
- Fonner, Dale E.: *See*—
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- Fons, Silas C., and W. V. Rollins, to United States Steel Corp. Method of making a coil of wire. 2,808,642, 10-8-57, Cl. 29-428.
- Font, Ramon, to Premier Research Laboratories, Inc. Temperature-controlled enclosure for electrical components. 2,791,706, 5-7-57, Cl. 310-8.9.
- Fontaine, John C. Nutcracker. 2,783,802, 3-5-57, Cl. 146-14.
- Fontaine, John G., and A. D. McLean, to Automatic Phone Recorder Co. Ltd. Telephone answering and recording devices. 2,783,303, 2-26-57, Cl. 179-6.
- Fontaine, Richard E. Animal tethering device. 2,776,644, 1-8-57, Cl. 119-109.
- Fontana, Andrea J.: *See*—
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- Fontana, Beppino J., to the United States of America as represented by the United States Atomic Energy Commission. Separation of uranium from foreign substances. 2,780,517, 2-5-57, Cl. 23-14.5.
- Fontein, Freerk J.: *See*—
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- Fontein, Freerk J., to Stamicarbon N. V. Process and apparatus for the separation of mixtures of solid particles. 2,781,906, 2-19-57, Cl. 209-172.5.
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- Fontein, Freerk J. Process of thickening suspensions or emulsions. 2,781,910, 2-19-57, Cl. 210-51.
- Fontein, Freerk J., and C. Dijkman, to Stamicarbon N. V. Process of manufacturing starch and byproducts from tubers by countercurrent hydrocyclone separation. 2,798,011, 7-2-57, Cl. 127-66.
- Fontein, Freerk J., and H. H. Dreissen, to Stamicarbon N. V. Screening device. 2,814,388, 11-26-57, Cl. 209-251.
- Food Chemical and Research Laboratories, Inc.: *See*—
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- Food Machinery and Chemical Corp.: *See*—
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- Food Machinery and Chemical Corp.: *See*—Continued
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- Foote-Burt Co., The: *See*—
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- Forbas, Gilbert R.: *See*—
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- Forbis, John. Telegraphy practice device. 2,808,660, 10-8-57, Cl. 35-14.
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- Forbush, Lothrop M., and R. V. Hutchinson, to General Motors Corp. Vehicle wheel. 2,809,869, 10-15-57, Cl. 301-97.
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- Ford, Barton H. and M. J. Boxcar opening closure. 2,797,749, 7-2-57, Cl. 160-368.
- Ford, Don E. and L. P. Container liner. 2,815,887, 12-10-57, Cl. 222-105.
- Ford, Earl G. Thermostatic switch. 2,801,314, 7-30-57, Cl. 200-138.
- Ford, Elmer A.: *See*—
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- Ford, Francis P.: *See*—
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- Ford, Frank R., Ltd.: *See*—
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Ford, Ronald M., and Crane. 2,791,425.
- Ford, Frederick A., Jr., to North American Aviation, Inc. Device for varying a jet engine orifice. 2,788,635, 4-16-57, Cl. 60-35.6.
- Ford, Geoffrey E., to Fords (Finsbury) Ltd. Dies for press tools. 2,808,799, 10-8-57, Cl. 113-50.
- Ford, Geoffrey E., to Fords (Finsbury) Ltd. Control device for cap forming apparatus. 2,811,126, 10-29-57, Cl. 113-114.
- Ford, Henry T.: *See*—
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- Ford, James B., to Lockheed Aircraft Corp. Cable tension regulator. 2,814,210, 11-26-57, Cl. 501.5.

- Ford, James G., to Westinghouse Electric Corp. Core structures. 2,780,785, 2-5-57, Cl. 336—210.
- Ford, Jerold R. Electric switch. 2,798,128, 7-2-57, Cl. 200—77.
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- Ford, Jesse E. Fishing lure and plug retriever. 2,807,905, 10-1-57, Cl. 43—172.
- Ford, John R.: *See—*
- Crawford, Carl F., and Ford. 2,810,908.
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- Ford, John W., $\frac{1}{2}$ to M. H. Iglehart. Electric nutcracker. 2,812,793, 11-12-57, Cl. 146—12.
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- Ford, Martin M. Rotatable impact tool holder. 2,793,551, 5-28-57, Cl. 81—52.3.
- Ford, Michael J.: *See—*
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- Ford Motor Co.: *See—*
- Bobrowsky, Alfred. 2,811,148.
- Bogart, Harold N. 2,816,829.
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- Jensen, Arvid E. 2,813,206.
- Johnson, Michael S., and Gasser. 2,793,532.
- Kaiser, Edward. 2,796,954.
- Kirby, Thomas G., and Oster. 2,782,329.
- Kulick, Alden T. 2,793,500.
- Laitur, Michael R. 2,781,084.
- Langtry, Edwin R., and Doney. 2,789,621.
- Manuel, Guy G., and Piziali. 2,783,075.
- May, James I. 2,790,246.
- McMillan, Lachlan, and Stocker. 2,776,174.
- McRae, Edwin C. 2,779,603.
- McRae, Edwin C. 2,811,016.
- Miller, Raymond J., and Richey. 2,777,733.
- Morgan, Eric R., and Zackay. 2,783,169.
- Morgan, Eric R., and Zackay. 2,804,387.
- Mosier, Jacques. 2,784,363.
- Mosier, Jacques. 2,787,763.
- Muller, George H., and McQuaid. 2,815,099.
- Muller, George H., and Miller. 2,789,830.
- Murphy, William J., Snow, and Zich. 2,786,405.
- Najjar, John. 2,804,931.
- Oliver, George A. 2,796,868.
- O'Malley, Charles A. 2,807,536.
- Pittman, Raymond A., and Rawden. 2,779,208.
- Radin, Bernard G. 2,810,447.
- Rawden, Cecil E., and Pittman. 2,797,115.
- Richey, Clarence B. 2,796,713.
- Richey, Clarence B., and Vandenberg. 2,814,351.
- Rothang, Donald W. H. 2,807,462.
- Sawyer, Frederick D. 2,786,364.
- Sawyer, Frederick D., and Kuhary. 2,807,991.
- Schaa, Henry W. 2,780,164.
- Schjolin, Eric O. 2,780,477.
- Setz, Henry L. 2,812,936.
- Slater, Carl C. 2,815,740.
- Talbot, William G. 2,804,944.
- Vennerholm, Gosta, and Bogart. 2,779,675.
- Wise, Ralph H. 2,809,388.
- Ford, Paul V.: *See—*
- Finney, Donald C., and Ford. 2,786,168.
- Ford, Perry M., and V. L. Doweling conversion unit. 2,794,463, 6-4-57, Cl. 144—92.
- Ford, Ralph E.: *See—*
- Ternes, William A., and Ford. 2,804,136.
- Ford, Robert S. Universal work holder for saws and other
- Ford, Richard A. Toy animals. 2,812,616, 11-12-57, Cl. 46—151.
- woodworking machines. 2,801,656, 8-6-57, Cl. 144—249.
- Ford, Ronald M., and D. P. Crane; said Crane assor, to Frank R. Ford Ltd. Feed tray for duplicating machines. 2,785,893, 3-19-57, Cl. 271—61.
- Ford, Ronald M., and D. P. Crane, said Crane to F. R. Ford, Ltd. Sheet feeding means. 2,791,425, 5-7-57, Cl. 271—36.
- Ford, Silas M. Knockdown toy telephone. 2,806,322, 9-17-57, Cl. 46—17.
- Ford, Stuart K.: *See—*
- Haines, Marcus W., Taylor, Werts, and Ford. 2,796,937.
- Ford, Vera L.: *See—*
- Ford, Perry M., and V. L. 2,794,463.
- Ford, William E.: *See—*
- Humason, Granville A. 2,814,992.
- Reynolds, Lewis J. 2,801,313.
- Ford, William H. Leaping figure toy. 2,776,525, 1-8-57, Cl. 46—129.
- Forde, Lewis. Bait and tackle box. 2,797,137, 6-25-57, Cl. 312—283.
- Forde, Milton N.: *See—*
- McCall, Clarence I. 2,799,038.
- Meyer, Alfonse H. 2,773,049.
- Fordham, James W. L., to Monsanto Chemical Co. Modified polystyrene compositions. 2,804,443, 8-27-57, Cl. 260—45.5.
- Fordham, James W. L., to Monsanto Chemical Co. Pearlescent polystyrene. 2,817,118, 12-24-57, Cl. 18—55.
- Fords (Finsbury) Ltd.: *See—*
- Ford, Geoffrey E. 2,808,799.
- Ford, Geoffrey E. 2,811,126.
- Fordyce, Homer E., to The Marley Co. Sectional cooling tower having intermediate water redistribution means between sections. 2,776,121, 1-1-57, Cl. 261—24.
- Fordyce, Homer E., to The Marley Co. Fan cylinder. 2,814,435, 11-26-57, Cl. 230—133.
- Foreman, Arnal B., Jr.: *See—*
- Medders, Weldon L., and Foreman. 2,801,078.
- Forman, Arthur W., A. E. Lovett, and M. Salway-Waller, to United Shoe Machinery Corp. Automatic weigher. 2,815,920, 12-10-57, Cl. 249—18.
- Foreman, Frank. Smoking device. 2,775,971, 1-1-57, Cl. 131—213.
- Foreman, Kenneth S. Compound master brake cylinder. 2,804,750, 9-3-57, Cl. 60—54.6.
- Foreman, Lemuel R. Hydraulic log debarker. 2,800,155, 7-23-57, Cl. 144—208.
- Foreman, Robert W., to The Standard Oil Co. Method of preventing carbonyl sulfide decomposition. 2,780,663, 2-5-57, Cl. 260—683.15.
- Foreman, Robert W., to The Standard Oil Co. Additive for motor fuels. 2,807,525, 9-24-57, Cl. 44—53.
- Foreman, Robert W., to The Standard Oil Co. Additive for motor fuels and fuel compositions containing the same. 2,807,526, 9-24-57, Cl. 44—56.
- Foreman, Robert W., R. A. Gardner, and S. M. Darling, to The Standard Oil Co. Formaldehyde treating of catalytic furnace oil. 2,792,335, 5-14-57, Cl. 196—39.
- Foremost Dairies, Inc.: *See—*
- Peebles, David D. 2,817,593.
- Peebles, David D., and Turner. 2,814,527.
- Reinhard, Robert N. 2,776,624.
- Smart, Paul H., and Nelson. 2,807,608.
- Stewart, Aubrey P., Jr., Wilcox, and Johnson. 2,788,283.
- Foremost Fittings Co.: *See—*
- Watson, Alexander N. 2,791,452.
- Foresta, Dominick G., and W. Levin. Adhesive applicator for wall joint tapes. 2,779,307, 1-29-57, Cl. 118—413.
- Forgash, Herbert L. Coupling. 2,797,562, 7-2-57, Cl. 64—11.
- Forges et Ateliers de Constructions Electriques de Jeumont: *See—*
- Cremer, Michel. 2,814,011.
- Cremer, Michel, and Pedoussaut. 2,806,943.
- Haraull, Georges. 2,788,403.
- Heidmann, Leon. 2,787,973.
- Heidmann, Leon. 2,794,519.
- Heidmann, Leon. 2,809,602.
- Heupgen, Marcel. 2,810,669.
- Forgette, Joseph O. File handle. 2,795,034, 6-11-57, Cl. 29—80.
- Forgó, László, to Licencia Talalmányokat Ertekisito Vallalat. Fan assembly. 2,808,197, 10-1-57, Cl. 230—120.
- Forgrave, Paul R. Light polarizing device for use as sun glasses or as stereo viewers. 2,789,462, 4-23-57, Cl. 88—41.
- Forgrove Machinery Co. Ltd.: *See—*
- Brook, Leonard. 2,778,478.
- Edis, John N., and Brook. 2,784,541.
- Hopton, Alan. 2,813,387.
- Forge, Stanley V., to Radio Corp. of America. Photoconductive orthicon. 2,810,087, 10-15-57, Cl. 313—65.
- Forkel, Curt E.: *See—*
- Hall, Dick S., and Forkel. 2,782,924.
- Forkel, Curt E., D. S. Hall, and L. E. Dean, to Phillips Petroleum Co. Pebble heater apparatus. 2,784,066, 3-5-57, Cl. 23—284.
- Forkner, Ewell W., to Precision Flexopress Corp. Feed roll drive and brake mechanism therefor for presses of the punch and blanking type. 2,783,996, 3-5-57, Cl. 271—2.4.
- Forkner, Ewell W., to Precision Flexopress Corp. Clutch and variable speed drive provided with automatic acceleration and deceleration mechanism for punch and blanking presses and the like. 2,789,672, 4-23-57, Cl. 192—3.5.
- Forman, Benjamin. Dispensing closures for bottles and other liquid containers. 2,810,499, 10-22-57, Cl. 222—482.

- Forman, Everett W. Circular adhesive bandage. 2,815,752, 12-10-57, Cl. 128-170.
- Forman Family, Inc.: *See*—
Forman, Sol. 2,803,366.
- Forman, Sol. to Forman Family, Inc. Combination pot and holder. 2,803,366, 8-20-57, Cl. 215-12.
- Formetal, Inc.: *See*—
Haas, Glenn B. 2,791,795.
Haas, Glenn B. 2,791,796.
Haas, Glenn B. 2,796,630.
- Formis, Frederick K. Launcher for a toy aerial propeller. 2,781,753, 2-19-57, Cl. 124-16.
- Formoso, Leonardo O. Rotatable refrigerator cabinet having plural compartments. 2,811,020, 10-29-57, Cl. 62-89.
- Formoso, Leonardo O. Refrigerator. 2,811,405, 10-29-57, Cl. 312-287.
- Formsprag Co.: *See*—
Szady, Leopold T. 2,788,102.
Szady, Leopold T. and King. 2,806,566.
- Fornaci Riunite S. p. A.: *See*—
Vondrous, Jenik, and Ferrero. 2,783,521.
- Fornelius, Axel F.: *See*—
Fornelius, Henry A. G. 2,812,969.
- Fornelius, Henry A. G. $\frac{1}{2}$ to A. F. Fornelius. Weed extractors. 2,812,969, 11-12-57, Cl. 294-50.7.
- Fornelli, Domenico. Apparatus for liquid treatment of a web of fabric. 2,779,183, 1-29-57, Cl. 68-175.
- Forness, Francis J.: *See*—
Hartung, Theodore M. and Forness. 2,784,582.
- Forney, Edgar W., Jr., to AMP Inc. Pre-insulated connector and method of making the same. 2,806,214, 9-10-57, Cl. 339-276.
- Forney, Frederick E.: *See*—
Forney, Ross H. and F. E. 2,815,068.
- Forney, Ross H. and F. E. Means for igniting and extinguishing furnace burners. 2,815,068, 12-3-57, Cl. 158-28.
- Fornwalt, Max B.: *See*—
Stewart, Vincent N., and Fornwalt. 2,776,346.
- Forrer, Homer W., to Atlanta Paper Co. Bottle carrier handle structure. 2,776,072, 1-1-57, Cl. 220-113.
- Forrer, Homer W., to Atlanta Paper Co. Partition structure for compartmented cartons. 2,778,526, 1-22-57, Cl. 220-113.
- Forrer, Homer W., to Atlanta Paper Co. Bottle carrier. 2,785,827, 3-19-57, Cl. 220-113.
- Forrer, Homer W., to Atlanta Paper Co. Paperboard carrier carton. 2,785,847, 3-19-57, Cl. 229-52.
- Forrer, John J., to Union Bag-Camp Paper Corp. Apparatus for end-matching lumber. 2,792,859, 5-21-57, Cl. 144-91.
- Forrest, Thomas E.: *See*—
Green, Sidney S., and Forrest. 2,797,401.
Hauser, John M., and Forrest. 2,781,757.
- Forrest, Cameron B., and S. S. Green, to Hughes Aircraft Co. Counter circuit. 2,816,226, 12-10-57, Cl. 250-27.
- Forrest, James, and V. Petrov, to The British Drug Houses Ltd. Piperazine adipate compositions and treatment of helminth infections therewith. 2,799,617, 7-16-57, Cl. 167-55.
- Forrest, John H. Smoke eliminators. 2,792,905, 5-21-57, Cl. 183-26.
- Forrest, Tom H., to Chicago Pump Co. Sewage digestion process. 2,777,815, 1-15-57, Cl. 210-2.
- Forrestal, Roger P., and G. Secor, to Cutler-Hammer, Inc. Feed-back regulating systems. 2,789,262, 4-16-57, Cl. 318-146.
- Forrester, William A., to International Staple and Machine Co. Cammed shoulder staple. 2,778,266, 1-22-57, Cl. 85-49.
- Forrester, William A., to International Staple and Machine Co. Carton spacing device for conveyers. 2,794,534, 6-4-57, Cl. 198-34.
- Forrow, Elwin W. Thread lubricant applicators. 2,810,145, 10-22-57, Cl. 15-121.2.
- Forry, Donald R., and H. B. Tryon, to D. E. McCarty. Package assembler for meat packaging machine. 2,815,624, 12-10-57, Cl. 53-184.
- Forsans, Pierre E. H. Coke-oven with independent heating flue structures. 2,786,806, 3-26-57, Cl. 202-222.
- Forsberg, Harold S. Hand saw with blade having a T-slot. 2,778,395, 1-22-57, Cl. 145-31.
- Forse Corp.: *See*—
Tiller, Louin. 2,799,945.
- Forse, Harry D.: *See*—
Campbell, Rollin E., and Forse. 2,809,451.
- Forse, Harry D. Automatic washing machine. 2,816,428, 12-17-57, Cl. 68-17.
- Forssell, Eric G., to W. H. Miner, Inc. Friction shock absorbing means for railway car trucks. 2,777,400, 1-15-57, Cl. 105-197.
- Forssell, Eric G., to W. H. Miner, Inc. Draft gear for railway draft rigging. 2,779,480, 1-29-57, Cl. 213-45.
- Forssell, Eric G., to W. H. Miner, Inc. Shock absorbing mechanisms. 2,787,384, 4-2-57, Cl. 213-45.
- Forssell, Eric G., to W. H. Miner, Inc. Draft gears for railway draft rigging. 2,795,339, 6-11-57, Cl. 213-45.
- Forssell, Eric G., to W. H. Miner, Inc. Shock absorbing mechanisms. 2,809,757, 10-15-57, Cl. 213-45.
- Forst, Rudolph K. Diversified spray device. 2,778,684, 1-22-57, Cl. 299-117.
- Forster, Eric O.: *See*—
Knapp, Carroll L., Jr., and Forster. 2,805,203.
- Forster, Fridolin. Projection apparatus for producing perspective drawings. 2,808,758, 10-8-57, Cl. 88-24.
- Forster, Hans: *See*—
Koch, Hans, and Forster. 2,800,726.
- Forster, Hans J. M., to Daimler-Benz Aktiengesellschaft. Fluid coupling with electromagnet clutch. 2,777,550, 1-15-57, Cl. 192-3.2.
- Forster, Hans J. M., to Daimler-Benz Aktiengesellschaft. Speed change transmission providing for braking of driven shaft. 2,787,170, 4-2-57, Cl. 74-615.
- Forster, Hans J. M., to Daimler-Benz Aktiengesellschaft. Synchronizing mechanism. 2,788,874, 4-16-57, Cl. 192-53.
- Forster, Hans J. M., to Daimler-Benz Aktiengesellschaft. Control system for a variable motor vehicle transmission. 2,790,328, 4-30-57, Cl. 74-472.
- Forster, Hans J. M., to Daimler-Benz Aktiengesellschaft. Device for the automatic control of a friction clutch or brake or the like. 2,807,968, 10-1-57, Cl. 74-781.
- Forster, Hans J. M., to Daimler-Benz Aktiengesellschaft. Infinitely variable power transmissions. 2,817,250, 12-24-57, Cl. 74-687.
- Forster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Change-speed gear and method of shifting therefor. 2,792,714, 5-21-57, Cl. 74-368.
- Forster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Fluid-actuated friction clutches. 2,799,375, 7-16-57, Cl. 192-85.
- Forster, Hans J. M., A. F. Harthausen, K. A. Kollmann, and T. F. Kümich, to Daimler-Benz Aktiengesellschaft. Variable speed transmission. 2,806,387, 9-17-57, Cl. 74-752.
- Forster, John O., and A. H. Mussnug, to Heli-Coil Corp. Coil spring thread having shear-preventing and locking means. 2,782,674, 2-26-57, Cl. 85-46.
- Forster, Leslie G., to Forsters Machine Co. Ltd. Machine for collating biscuits and like thin articles for wrapping purposes. 2,781,887, 2-19-57, Cl. 198-35.
- Forster Mfg. Co., Inc.: *See*—
Lisherness, Hillman A. 2,782,816.
- Forster, Warren S.: *See*—
Day, Harold M., Hasler, and Forster. 2,777,828.
- Forster, Warren S., to American Cyanamid Co. Unsaturated polyester resins stabilized with 2-hydroxy-5-salicylylbenzophenone. 2,818,400, 12-31-57, Cl. 260-45.4.
- Forster, Warren S., to American Cyanamid Co. Polyvinyl chloride stabilized with 2-hydroxy-5-salicylylbenzophenone. 2,818,401, 12-31-57, Cl. 260-45.95.
- Forsters Machine Co. Ltd.: *See*—
Forster, Leslie G. 2,781,887.
- Forstner, Egon: *See*—
Forstmann Woolen Co.: *See*—
Litchfield, George A., Jr. 2,777,473.
Litchfield, George A., Jr. 2,777,474.
- Forstner, Egon: *See*—
Porsche, Ferdinand A. E., and Forstner. 2,788,866.
Porsche, Ferdinand A. E., and Forstner. 2,799,261.
Porsche, Ferdinand A. E., and Forstner. 2,799,262.
- Forsyth, Clark H., to International Harvester Co. Hitch mechanism for connecting implements in tandem. 2,780,478, 2-5-57, Cl. 280-411.
- Forsyth, George H.: *See*—
Sistrunk, Henry L. 2,781,194.
- Forsyth, Gordon J. Photograph album. 2,802,677, 8-13-57, Cl. 281-16.
- Forsythe, Alan K., to Armstrong Cork Co. Linoleum cements. 2,815,295, 12-3-57, Cl. 106-123.
- Forte, Carl D., deceased, H. A. Forte, administratrix, to said H. A. Forte. Rooter attachment for bulldozers. 2,783,559, 3-5-57, Cl. 37-145.
- Forte, Carl D., deceased; H. A. Forte, administratrix, to said H. A. Forte. Land clearing implement. 2,814,134, 11-26-57, Cl. 37-2.
- Forte, Helen A.: *See*—
Forte, Carl D. 2,783,559.
Forte, Carl D. 2,814,134.
- Fortenbacher, James D., and A. Hulscher, Jr. Sludge cleaner. 2,801,958, 8-6-57, Cl. 202-170.
- Fortes, Angelo. Automatic balance-beam hinged shutter gate. 2,776,541, 1-8-57, Cl. 61-25.
- Fortess, Fred, C. Hohing, and C. E. Kip, to Celanese Corp. of America. Textile conditioning agent. 2,805,992, 9-10-57, Cl. 252-8.8.
- Fortgang, Herbert R., and W. R. Kotoucek, to Ford Motor Co. Independent rear wheel suspension for motor vehicles. 2,815,084, 12-3-57, Cl. 180-73.
- Forth, Murray W., to Deere & Co. Power mechanism control, especially for bale loading apparatus. 2,785,811, 3-19-57, Cl. 214-83.3.
- Fort Howard Paper Co.: *See*—
Sobota, John T. 2,786,352.
- Fortin, Charles A., to P. Pouliot. Hydromassaging device. 2,776,660, 1-8-57, Cl. 128-66.
- Fortin, Romeo. Safety razor with pivoted cap. 2,792,431, 5-28-57, Cl. 30-59.
- Fortmann, Kurt, to W. Bruesselbach. Hair treatment combs. 2,797,695, 7-2-57, Cl. 132-110.
- Fortner, Turner M. Margin marked duplicator master set. 2,780,169, 2-5-57, Cl. 101-149.4.
- Fort Orange Paper Co.: *See*—
Metzger, Henry L. 2,785,844.
Metzger, Henry L. 2,789,405.
Metzger, Henry L. 2,813,657.
Metzger, Henry L. 2,813,658.

- Fort Pitt Industries, Inc.: *See*—
Gedde, Andrew A., and Moyer. 2,790,643.
Johnson, Carl G. 2,797,048.
- Fort Pitt Packaging Co., Inc.: *See*—
Finney, Donald C., and Ford. 2,786,168.
- Fortuna-Werke Spezialmaschinenfabrik A. G.: *See*—
Danner, Hermann. 2,804,141.
Koppenwallner, Georg, and Gantert. 2,779,905.
- Fortune, James H., to American Cyanamid Co. Color stabilization of acrylonitrile polymers. 2,801,987, 8-6-57, Cl. 260—45.75.
- Fortunski, Anthony C. Collets. 2,815,217, 12-3-57, Cl. 279—51.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Air blast circuit breaker with parallel resistances. 2,786,117, 3-19-57, Cl. 200—148.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Valve arrangement for air blast circuit breakers. 2,786,119, 3-19-57, Cl. 200—148.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Operating device for air blast circuit breakers. 2,803,724, 8-20-57, Cl. 200—148.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Arrangement in electric switch stations. 2,812,477, 11-5-57, Cl. 317—59.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Circuit closing device, especially for tests of switches. 2,814,687, 11-26-57, Cl. 200—81.5.
- Forward, Frank A., and J. Halpern, to Canadian Patents and Development Ltd. Leaching uranium from sulphidic materials. 2,797,977, 7-2-57, Cl. 23—14.5.
- Forward, Frederick B. Process for the preparation of leather dust. 2,808,398, 10-1-57, Cl. 260—118.
- Fosdick, Earnest. Fowl debanding machine. 2,793,393, 5-28-57, Cl. 17—12.
- Fosnes, Kenneth E. Wall mounted air circulating heat exchangers. 2,808,237, 10-1-57, Cl. 257—137.
- Fosness, John P., and J. E. Harrison, to North American Aviation, Inc. Aircraft catapult and landing barrier arrangement. 2,777,650, 1-15-57, Cl. 244—63.
- Foss, Curtis D. Journal box seal with spring plate. 2,781,208, 2-12-57, Cl. 286—6.
- Foss, Curtis D. Seal for journal box. 2,783,067, 2-26-57, Cl. 286—11.
- Foss, Martyn H., to the United States of America as represented by the Secretary of the Navy. Pole structure of magnets. 2,777,099, 1-8-57, Cl. 317—158.
- Foss, Warren M., and F. L. Kingsbury, to National Lead Co. Method for treating calcium sulfate pigments. 2,776,222, 1-1-57, Cl. 106—306.
- Foss, Warren M., and W. K. Nelson, to National Lead Co. Colored pigment for camouflage coating compositions. 2,795,511, 6-11-57, Cl. 106—299.
- Fossan, Kåre R., and G. A. Wetterholm, to Nitroglycerin Aktiebolaget. Process for recovering iodine from iodine containing aqueous glycol solutions. 2,780,528, 2-5-57, Cl. 23—216.
- Fossheim, Elmer J. Stand for portable electric drills. 2,802,380, 8-13-57, Cl. 77—55.
- Foster, Berry W. Piston type compressor. 2,807,136, 9-24-57, Cl. 60—35.6.
- Foster, Boutwell H., to United States Rubber Co. Elastic varn and method of making same. 2,804,745, 9-3-57, Cl. 57—152.
- Foster, Claude R. Signal system for vehicles. 2,810,899, 10-22-57, Cl. 340—72.
- Foster, Dudley E., and G. R. Gieseke, to Hazeltine Research, Inc. Neutralized radio-frequency amplifier. 2,802,909, 8-13-57, Cl. 179—171.
- Foster, Edwin E. Refrigerator door latch. 2,803,480, 8-20-57, Cl. 292—216.
- Foster, Edwin E. Window sash balance. 2,817,872, 12-31-57, Cl. 16—197.
- Foster, Eugene L. Stadia topograph. 2,785,466, 3-19-57, Cl. 33—71.
- Foster, Eugene H. Indicating system for liquid reservoirs. 2,814,337, 11-26-57, Cl. 158—46.5.
- Foster, Fred W. Mail box door setting signal. 2,797,860, 7-2-57, Cl. 232—35.
- Foster Grant Co. Inc.: *See*—
David, Raymond C. 2,811,749.
Foster, Joseph C. 2,808,941.
- Foster, Harry R., and E. E. Crump, to Ohmega Laboratories. Co-axial transmission line termination. 2,779,002, 1-22-57, Cl. 333—22.
- Foster, Henry C. Metal fishing tool. 2,789,004, 4-16-57, Cl. 294—86.
- Foster, Henry C. Projectile fishing tool. 2,789,005, 4-16-57, Cl. 294—93.
- Foster, Henry T. V.: *See*—
Pearce, James G., and Foster. 2,810,098.
- Foster, Henry W., R. M. Betty, and N. D. Whitehill, to Century Engineers, Inc. Camera mechanism. 2,795,175, 6-11-57, Cl. 95—58.
- Foster, Hoyt K., to S. W. Farber, Inc. Automatic coffee percolator. 2,817,743, 12-24-57, Cl. 219—44.
- Foster, Ivan V.: *See*—
Turner, Andrew C., and Foster. 2,797,504.
- Foster, Jack F.: *See*—
Roscoe, Merrill W., and Foster. 2,791,001.
- Foster, Jack F., to Deere & Co. Cotton harvester with anti-clogging means. 2,803,102, 8-20-57, Cl. 56—33.
- Foster, Jack F., to Deere & Co. Mounting and adjusting attachment structure for harvesters. 2,807,924, 10-1-57, Cl. 56—11.
- Foster, James E., and W. J. Francis, to United States Steel Corp. Gripper dies for nail machines. 2,810,140, 10-22-57, Cl. 10—53.
- Foster, James R.: *See*—
Roth, Walter J., and Foster. 2,782,620.
- Foster, John L., to Eastman Kodak Co. Manufacture of light-sensitive gelatin-silver halide photographic layers. 2,790,728, 4-30-57, Cl. 117—34.
- Foster, John R., to T. M. M. (Research) Ltd. Textile combing machine. 2,781,556, 2-19-57, Cl. 19—116.
- Foster, John S., and G. E. Haddeland, to the United States of America as represented by the United States Atomic Energy Commission. Steam power plant with means for heavy water concentration. 2,798,359, 7-9-57, Cl. 60—1.
- Foster, John S., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Pumping ion source. 2,798,181, 7-2-57, Cl. 313—161.
- Foster, John S., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Coasting arc ion source. 2,806,161, 9-10-57, Cl. 313—63.
- Foster, John S., Jr., and F. Fairbrother, Jr., to the United States of America as represented by the United States Atomic Energy Commission. Radio frequency ion pump. 2,791,371, 5-7-57, Cl. 230—69.
- Foster, Joseph C., to Foster Grant Co. Inc. Rotary display stand for sunglasses or the like. 2,808,941, 10-8-57, Cl. 211—13.
- Foster, Joseph F. Boat construction. 2,816,298, 12-17-57, Cl. 9—6.
- Foster, Joseph H. Conveyors. 2,778,484, 1-22-57, Cl. 198—218.
- Foster, Lee R. Smoker's appliance. 2,777,449, 1-15-57, Cl. 131—256.
- Foster, Luther C. Semi-automatic pick-up attachment for tractors and the like. 2,786,582, 3-26-57, Cl. 212—35.
- Foster Metal Products Inc.: *See*—
Boots, William C. 2,775,862.
Boots, William C. 2,798,272.
Boots, William C. 2,816,590.
- Foster, Newton C.: *See*—
Rogers, Dow A., Jr., and Foster. 2,801,945.
- Foster, Newton C., to Westinghouse Electric Corp. Synthetic copolymer resinous insulating compositions. 2,785,383, 3-12-57, Cl. 336—96.
- Foster, Newton C., to Westinghouse Electric Corp. Method for casting tubular members. 2,808,623, 10-8-57, Cl. 18—58.
- Foster, Norman G., and L. E. Green, Jr., to Standard Oil Co. Seal and magnetic drive. 2,783,401, 2-26-57, Cl. 310—104.
- Foster, Robert L.: *See*—
Chambers, Robert R., and Foster. 2,777,883.
Chambers, Robert R., and Foster. 2,783,285.
- Foster, Robert W. Air cooled brake shoe. 2,815,103, 12-3-57, Cl. 188—264.
- Foster, Robert W., and P. A. Wilson, to R. W. Foster, as trustee. Hospital folding chair. 2,785,414, 3-19-57, Cl. 4—134.
- Foster, Thomas A., Jr.: *See*—
Vargo, Paul, and Foster. 2,808,636.
- Foster, Thomas W., to Container Corp. of America. Can holder. 2,817,473, 12-24-57, Cl. 229—40.
- Foster, Walter E.: *See*—
Frank, Charles E., and Foster. 2,790,002.
Frank, Charles E., and Foster. 2,816,916.
- Foster, Walter E., to Avco Mfg. Corp. Channel indicators for television receivers. 2,808,018, 10-1-57, Cl. 116—124.4.
- Foster, Walter E., to Avco Mfg. Corp. Servosystem adapted for television tuning. 2,812,486, 11-5-57, Cl. 318—467.
- Foster Wheeler Corp.: *See*—
Artsay, Nicholas C. 2,802,114.
Ditman, John G., and Mertens. 2,809,885.
Faatz, Albert C., Jr. 2,813,779.
Frisch, Martin. 2,801,830.
Middleton, John F. 2,809,924.
White, Francis B., and Parker. 2,776,938.
- Foster, William B. Paper box handhole reinforcement. 2,801,786, 8-6-57, Cl. 229—52.
- Foth, Gilbert G. Sewer pipe plug and indicator. 2,818,086, 12-31-57, Cl. 138—89.
- Fotheringham, James R.: *See*—
Palsulich, Joseph, and Fotheringham. 2,787,503.
- Foti, Peter: *See*—
Gravin, Moses M., and Foti. 2,792,827.
- Fouassin, Marcel. Preset servo system. 2,783,422, 2-26-57, Cl. 318—30.
- Foufounis, Jean T. Coin operated machine for listening to records. 2,812,844, 11-12-57, Cl. 194—6.
- Foulds, Arthur E., and J. Peterson, to General Electric Co. Constant current transformer. 2,807,787, 9-24-57, Cl. 336—41.
- Foulke, Donald G., and O. Kardos, to Hanson-Van Winkle-Munning Co. Nickel plating. 2,818,376, 12-31-57, Cl. 204—49.
- Foundry Equipment Co., The: *See*—
Beyvl, Joseph M. 2,804,696.
- Foundry Equipment Ltd.: *See*—
Beech, Austin S. 2,817,127.

- Fountain, Alfred W. Pillow slips. 2,779,033, 1-29-57, Cl. 5-339.
- Fouquet, Eugene. Method of washing dishes or the like. 2,798,012, 7-2-57, Cl. 134-34.
- 4 Bros. Refrigeration Mfg. Co., Inc.: *See*—
Bodoni, George F., Jr. 2,803,410.
- Fouré, Harvey A.: *See*—
Meek, James M., and Fouré. 2,801,589.
- Fourier, Walter A., to Tenak Products Co. Synthetic dead metal. 2,793,177, 5-21-57, Cl. 204-6.
- Fouron, Pierre, and G. Bourret, to Societe dite: Civile d'Etudes pour Material de Fonderie. Pneumatic or hydraulic controlling device particularly applicable to the stripping of mould cores. 2,808,628, 10-8-57, Cl. 22-93.
- Fourtier, Jean L.: *See*—
Sallou, Jean. 2,814,978.
- Four Wheel Drive Auto Co., The: *See*—
Shannon, Jean R. 2,778,126.
- Fouse, Samuel S.: *See*—
Wallace, James B., and Fouse. 2,813,162.
- Fowler, Arno W. Electric chime clock. 2,779,151, 1-29-57, Cl. 58-58.
- Fowler, Arthur L., Jr.: *See*—
Davis, Gerald M., Fowler, and Winston. 2,793,132.
- Fowler, Conrad J., to the United States of America as represented by the Secretary of the Navy. Superheterodyne receiver using resistance-capacitance tuning in local oscillator and radio frequency stage. 2,783,373, 2-26-57, Cl. 250-20.
- Fowler, Curtis O.: *See*—
Kuhlenschmidt, Donald, and Fowler. 2,801,582.
- Fowler, Don J. Model train control actuating mechanism. 2,810,067, 10-15-57, Cl. 246-479.
- Fowler, Evans E., to American Air Filter Co., Inc. Secondary air supply mechanism for filters. 2,776,024, 1-1-57, Cl. 183-61.
- Fowler, Frank E. Bottle lifter. 2,776,858, 1-8-57, Cl. 294-87-26.
- Fowler, Frank E. Stacker for cracker-sandwiches or the like. 2,805,756, 9-10-57, Cl. 198-35.
- Fowler, Frank E. Motorless carbonator. 2,809,597, 10-15-57, Cl. 103-248.
- Fowler, Franklin H., Jr. Printing mechanisms. 2,813,480, 11-19-57, Cl. 101-93.
- Fowler, Fred E.: *See*—
Polzin, Marvin H., Geer, and Fowler. 2,780,222.
- Fowler, George B.: *See*—
Toews, Gustav P. 2,788,772.
- Fowler, George O., Jr. Packages. 2,809,747, 10-15-57, Cl. 206-48.
- Fowler, James M. Collision responsive switch. 2,806,915, 9-17-57, Cl. 200-61-45.
- Fowler, Kenneth R. Recoilless gun. 2,798,413, 7-9-57, Cl. 89-1-7.
- Fowler, Norman W.: *See*—
Wildhaber, Ernest, and Fowler. 2,782,690.
- Fowler, Paul L. Clothes dryer. 2,814,886, 12-3-57, Cl. 34-133.
- Fowler, Paul L., and C. A. Arthur. Electric heater. 2,797,296, 6-25-57, Cl. 219-38.
- Fowler, Robert D., to the United States of America as represented by the United States Atomic Energy Commission. Production of uranium hexafluoride. 2,804,369, 8-27-57, Cl. 23-14-5.
- Fowler, Robert D., to the United States of America as represented by the United States Atomic Energy Commission. Process for producing uranium hexafluoride. 2,810,626, 10-22-57, Cl. 23-14-5.
- Fowler, William F., Jr.: *See*—
Smith, Donald A., and Fowler. 2,811,494.
- Fowler, William F., Jr., and J. A. Cathcart, to Eastman Kodak Co. Photographic elements and their preparation. 2,794,742, 6-4-57, Cl. 96-87.
- Fowler, William F., Jr., and R. J. Hellmann, to Eastman Kodak Co. Interpolymers of vinylpyridines or vinylquinolines, acrylic esters and acrylonitrile, and hydrosols thereof. 2,798,063, 7-2-57, Cl. 260-80-5.
- Fox, Alexander P., and A. D. Reisert, to The McNeil Machine & Engineering Co. Lubricant dispensing apparatus. 2,777,610, 1-15-57, Cl. 222-130.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Magnetically controlled ferrite phase shifter having birefringent properties. 2,787,765, 4-2-57, Cl. 333-21.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Directional coupler for all-dielectric waveguide. 2,794,959, 6-4-54, Cl. 333-10.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,802,184, 8-6-57, Cl. 333-24.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal hybrid structures. 2,817,812, 12-24-57, Cl. 324-58.
- Fox, Arthur L., to Colgate-Palmolive Co. Preparation of hydroxycitronellal. 2,812,355, 11-5-57, Cl. 260-602.
- Fox, Benjamin. Frequency modulation system. 2,794,956, 6-4-57, Cl. 332-19.
- Fox, Boni B. Collapsible luggage. 2,798,579, 7-9-57, Cl. 190-43.
- Fox, Charles H.: *See*—
Hoffman, John H. W. 2,798,607.
- Fox, Clayton E. Portable auxiliary seat. 2,796,915, 6-25-57, Cl. 155-10.
- Fox, Daniel W.: *See*—
Wender, Simon H., and Fox. 2,786,832.
- Fox, Douglas P. S., and W. A. Clarke. Filling heads for bottle-filling machines. 2,813,555, 11-19-57, Cl. 141-305.
- Fox, George F. Tally register. 2,812,908, 11-12-57, Cl. 235-113.
- Fox, George W.: *See*—
Malbon, Harry, and Fox. 2,790,966.
- Fox, Gerald B., and L. E. Glezen, to The Hobart Mfg. Co. Rack construction for dishwashing machines. 2,804,213, 8-27-57, Cl. 211-41.
- Fox, Homer M., to Phillips Petroleum Co. Fuel air ratio regulation for combustion systems. 2,812,637, 11-12-57, Cl. 60-39-03.
- Fox, Homer M., to Phillips Petroleum Co. Constant fuel-air ratio device. 2,812,932, 11-12-57, Cl. 261-65.
- Fox, Jack J.: *See*—
Ribble, John M., and Fox. 2,785,960.
- Fox, John A., and H. L. Von Hoene, to Pathon Mfg. Co. Combined power cylinder and valve construction. 2,810,370, 10-22-57, Cl. 121-38.
- Fox, Joseph H. Composite wood and concrete pile. 2,782,606, 2-26-57, Cl. 61-53.
- Fox, Lloyd. Honeycomb uncapping machine. 2,807,034, 9-24-57, Cl. 6-12.
- Fox, Martin, to The Seng Co. Corner brace for a folding bed frame. 2,790,185, 4-30-57, Cl. 5-174.
- Fox, Martin, to The Seng Co. Davenport bed. 2,803,019, 8-20-57, Cl. 5-13.
- Fox, Martin, to The Seng Co. Davenport bed. 2,807,030, 9-24-57, Cl. 5-13.
- Fox, Martin, to The Seng Co. Davenport bed. 2,807,031, 9-24-57, Cl. 5-13.
- Fox, Martin, and G. F. Hassel, to The Seng Co. Davenport bed. 2,815,514, 12-10-57, Cl. 5-13.
- Fox Products Co.: *See*—
Godshalk, James B., and Medlar. 2,791,749.
- Godshalk, James B., Medlar, and Keck. 2,802,182.
- Medlar, Lewis A. 2,777,107.
- Medlar, Lewis A. 2,780,781.
- Medlar, Lewis A. 2,817,816.
- Naab, Gerard A. 2,783,541.
- Rezek, Gerhard. 2,795,759.
- Fox, Robert A.: *See*—
White, William M., and Fox. 2,780,153.
- Fox, Robert L. Process for making jewelry. 2,790,220, 4-30-57, Cl. 22-196.
- Fox, Robert M.: *See*—
Leslie, James D., Fox, and Muller. 2,807,201.
- Fox, Roy H., to the United States of America as represented by the Secretary of the Navy. Conductance regulation. 2,790,134, 4-23-57, Cl. 323-42.
- Fox, Sidney V.: *See*—
Mancke, Edgar B., and Fox. 2,809,105.
- Fox, Sol, to Koppware Products Mfg. Co. Combination flower stem stripper and cutter. 2,806,325, 9-17-57, Cl. 47-1.
- Fox, Thomas M.: *See*—
Boggs, Alben C., and Fox. 2,807,696.
- Fox, William C., to The Sessions Clock Co. Setting clutch for registers. 2,814,188, 11-26-57, Cl. 64-30.
- Foxboro Co., The: *See*—
Bowditch, Hoel L. 2,800,136.
- Bowditch, Hoel L. 2,806,480.
- Darling, Horace E. 2,782,346.
- Fuller, David H. 2,808,580.
- Howe, Wilfred H. 2,782,102.
- Howe, Wilfred H., and Wood. 2,778,990.
- Sturgeon, Stocker S. 2,800,016.
- Whittier, Ellerton W. 2,811,699.
- Foxman, Harold E. Slip cover. 2,793,684, 5-28-57, Cl. 155-182.
- Fox River Mfg. Co.: *See*—
Schroeder, Simon E. 2,787,917.
- Fox-Williams, Jack, to Williams & Williams Ltd. Glazing bars. 2,803,321, 8-20-57, Cl. 189-78.
- Frade, Peter N.: *See*—
Phillips, Charles E., and Frade. 2,805,322.
- Fraebel, Robert J.: *See*—
Taylor, Myron L., and Fraebel. 2,804,633.
- Fraesdorf, William O., Jr. Animated signs. 2,810,223, 10-22-57, Cl. 40-39.
- Frazer, Max, M. Stern, and O. E. Riegner, to Everite Machine Products Co. Wheel truing device. 2,803,928, 8-27-57, Cl. 51-168.
- Fragola, Caesar F.: *See*—
Depp, Marlin C., and Fragola. 2,810,102.
- Hassler, Norman A., Jurman, and Fragola. 2,776,428.
- Frain, John P., and F. Twohig, to Electrol Inc. Relief valve. 2,793,656, 5-28-57, Cl. 137-469.
- Frakes, Helon F., and A. K. Shaw. Combined hair curling and waving assembly. 2,809,645, 10-15-57, Cl. 132-42.
- Frakes, Hershal S., $\frac{1}{2}$ to J. F. Tapp and $\frac{1}{2}$ to E. A. Tapp. Oil filter signalling means. 2,809,248, 10-8-57, Cl. 200-81-9.
- Fralish, Howard J., to Western Electric Co., Inc. Method of uniformly applying lacquer to paper strips. 2,797,171, 6-25-57, Cl. 117-7.
- Fram Corp.: *See*—
Kennedy, Walter V. 2,795,333.
- Kennedy, Walter V. 2,804,211.
- Hockett, Carl G. 2,788,841.
- Monsarrat, Nicholas. 2,782,933.

- Frampton, John A. Box construction for spring-actuated pop-out toys. 2,809,834, 10-15-57, Cl. 272-27.
- Frampton, Stanley E., to United Shoe Machinery Corp. Lasting machines. 2,787,011, 4-2-57, Cl. 12-1.
- Francar, Gordon J. Method of reconstructing salvable bowling pins. 2,788,813, 4-16-57, Cl. 144-309.
- France, Daniel R. Copper plating brightener. 2,778,788, 1-22-57, Cl. 204-52.
- France, Donald: *See*—
Petronello, Peter D., and France. 2,805,453.
- France Neckwear Co., Inc.: *See*—
Kanter, Harry. 2,798,226.
- France Packing Co.: *See*—
Nuttall, Elmer R. 2,778,697.
- France, William: *See*—
Malone, Cyril A., France, and Whitfield. 2,782,662.
- Francesch, Jose. Electric coffee mills. 2,795,382, 6-11-57, Cl. 241-168.
- Francis, Alfred W., to Socony Mobil Oil Co., Inc. Solvent extraction of aromatic hydrocarbons and solvent therefor. 2,776,327, 1-1-57, Cl. 260-674.
- Francis, Bertram F. Keyless device for winding up clockwork mechanism. 2,795,294, 6-11-57, Cl. 185-39.
- Francis, Charles B. Steel making apparatus. 2,818,247, 12-31-57, Cl. 266-35.
- Francis, Charles B. Production of powdered iron. 2,818,328, 12-31-57, Cl. 75-0.5.
- Francis, Clair. Guard for wringer rollers. 2,811,849, 11-5-57, Cl. 68-270.
- Francis, Elliott S., and J. H. Piatt, to Gulf Research & Development Co. Soluble cutting oil comprising thickened oil and method of applying the same. 2,818,386, 12-31-57, Cl. 252-33.3.
- Francis, Ernest J.: *See*—
Shickel, Harold C., and Francis. 2,791,798.
- Francis, Frank B. See-through visor. 2,810,604, 10-22-57, Cl. 296-97.
- Francis, Gerald T., and J. G. Francis, Jr., to Thomas Steel Forms, Inc. Apparatus for casting. 2,807,071, 9-24-57, Cl. 25-130.
- Francis, Henry A.: *See*—
Johnson, Elmer E., and Francis. 2,807,592.
- Francis, James M.: *See*—
Bornzin, James H., Currier, Francis, and Tufts. 2,787,949.
- Francis, John G., Jr.: *See*—
Francis, Gerald T., and J. G. 2,807,071.
- Francis, John P. Windshield visor and supporting means therefor. 2,778,676, 4-22-57, Cl. 296-95.
- Francis, John P. Vehicle fluid seal awning. 2,812,208, 11-5-57, Cl. 296-95.
- Francis, John P. Vehicle rain visor. 2,815,244, 12-3-57, Cl. 296-95.
- Francis, Sidney J., and H. J. Carter, to New Era Engineers (Proprietary) Ltd. Manufacture of metal grating. 2,782,696, 2-26-57, Cl. 94-30.
- Francis, Wallace R., to General Electric Co. Jack plug for electronic calculator. 2,787,771, 4-2-57, Cl. 339-91.
- Francis, William J.: *See*—
Foster, James E., and Francis. 2,810,140.
- Francis, William L. Cleaner for spinning ring travelers. 2,783,607, 3-5-57, Cl. 57-57.
- Francisco, Allen C., and C. A. Gyorgak, to the United States of America as represented by the Secretary of the Navy. Protective coating for salt bath brazing. 2,812,275, 11-5-57, Cl. 148-22.
- Francisco, Marshall E., $\frac{1}{2}$ to himself, as trustee. Reciprocating system. 2,785,575, 3-19-57, Cl. 74-43.
- Frank, George E., to Imperial Brass Mfg. Co. Tube flaring tool. Re. 24,325, 6-4-57, Cl. 153-79.
- Frank, George E., to The Imperial Brass Mfg. Co. Reamer member for a tool. 2,784,618, 3-12-57, Cl. 77-73.5.
- Frank, George E., to The Imperial Brass Mfg. Co. Readily adjustable tube cutting means. 2,787,054, 4-2-57, Cl. 30-102.
- Frank, George E., to The Imperial Brass Mfg. Co. Liquid indicator for tubing. 2,811,128, 10-29-57, Cl. 116-117.
- Frank, George T. Bottle closure. 2,791,343, 5-7-57, Cl. 215-82.
- Frank, John M., and R. J. Stark, to Bethlehem Steel Co. Continuous heating of steel strip. 2,799,605, 7-16-57, Cl. 148-16.
- Frank, Kurt, to Holophane Co., Inc. Direct lighting luminaires. Re. 24,372, 10-8-57, Cl. 240-93.
- Frank, Kurt, to Holophane Co., Inc. Luminaires. 2,802,097, 8-6-57, Cl. 240-106.
- Frank, Kurt, to Holophane Co., Inc. Prismatic reflectors. 2,818,500, 12-31-57, Cl. 240-106.
- Frank, Kurt, and R. G. McPhail, to Holophane Co., Inc. Luminaires. 2,814,723, 11-26-57, Cl. 240-106.
- Franken, Jan C., to North American Philips Co., Inc. Device comprising a television pick-up tube. 2,803,753, 8-20-57, Cl. 250-211.
- Franken, Jan C., to North American Philips Co., Inc. Color television picture tube. 2,813,224, 11-12-57, Cl. 315-21.
- Franceour, Robert J. Multi-position selector switch. 2,817,735, 12-24-57, Cl. 200-152.
- Franceois, Marcel, to Societe de l'Usine de la Marque. Sewing machine. 2,793,600, 5-28-57, Cl. 112-220.
- Franceon, Maurice M., to Centre National de la Recherche Scientifique. Optical device for the observation of transparent objects. 2,785,601, 3-19-57, Cl. 88-39.
- Fraser, Victor R., and A. H. Steinhauser, to Minnesota Mining & Mfg. Co. Pressure-sensitive adhesive marking tape. 2,785,087, 3-12-57, Cl. 117-68.5.
- Frangos, Everett W. Gyroscopic tops. 2,794,294, 6-4-57, Cl. 46-65.
- Frangoulis, Stamates L.: *See*—
Newell, William H., Burgess, Zabb, and Frangoulis. 2,817,479.
- Frank, Anton R., and W. H. Giles, to Van Buren Wrapping Machine Corp. Sheet feeding mechanism. 2,792,219, 5-14-57, Cl. 271-8.
- Frank, Carl A., and J. S. Bartlo, to Lynch Corp. Roller chain. 2,816,453, 12-17-57, Cl. 74-251.
- Frank, Charles E., and W. E. Foster, to National Distillers Products Corp. Process for recovery of acids from aqueous mixtures of salts of the acids. 2,790,002, 4-23-57, Cl. 260-537.
- Frank, Charles E., and J. R. Leebrick, to National Distillers and Chemical Corp. Preparation of substituted acids. 2,816,913, 12-17-57, Cl. 260-515.
- Frank, Charles E., and J. R. Leebrick, to National Distillers and Chemical Corp. Dimerization process. 2,816,914, 12-17-57, Cl. 260-515.
- Frank, Charles E., and W. E. Foster, to National Distillers and Chemical Corp. Dimerization process. 2,816,916, 12-17-57, Cl. 260-533.
- Frank, Charles W., to General Telephone Laboratories, Inc. Stopping circuit for selector switch. 2,806,087, 9-10-57, Cl. 179-18.
- Frank, Edward J., to General Electric Co. Circuit breaker operating mechanism. 2,794,881, 6-4-57, Cl. 200-89.
- Frank, Emanuel. Movable pedestal invalid table with offset side standard. 2,803,303, 10-1-57, Cl. 311-40.
- Frank, Emil, to The Frank Tea & Spice Co., Inc. Plastic snap on closure for spice cans and the like. 2,815,893, 12-10-57, Cl. 222-480.
- Frank, George E. Conditioning apparatus and compressor therefor. 2,778,204, 1-22-57, Cl. 62-136.
- Frank, George H., to Western Electric Co., Inc. Cast steel deck for foundry shakeouts. 2,812,859, 11-12-57, Cl. 209-393.
- Frank, Howard G.: *See*—
Leibinger, Ludwig, and Frank. 2,778,357.
- Frank, John, and G. Rosch. Garment hanger. 2,793,799, 5-28-57, Cl. 223-95.
- Frank, Klaus: *See*—
Meyer, Oskar, Ebert, and Frank. 2,805,933.
- Frank, Lester W. Toy railroad train and track. 2,782,730, 2-26-57, Cl. 105-29.
- Frank, Milton A. Lock for dogging means of a bolt retractor. 2,814,196, 11-26-57, Cl. 70-153.
- Frank, Paul A. Method of producing a pneumatic tire. 2,795,262, 6-11-57, Cl. 154-14.
- Frank, Richard J., to Winfield Co., Inc. Invalid walker. 2,798,533, 7-9-57, Cl. 155-22.
- Frank, Robert, to Sperry Rand Corp. Voltage comparison means. 2,794,928, 6-4-57, Cl. 307-149.
- Frank, Robert H., to Enterprise Division of Silex Co. Multi-purpose kitchen appliance. 2,795,958, 6-18-57, Cl. 74-16.
- Frank, Robert L., to Sperry Rand Corp. Apparatus for time-delay measurement. 2,778,011, 1-15-57, Cl. 343-103.
- Frank, Robert L., to Sperry Rand Corp. Radio frequency sampling detector. 2,780,807, 2-5-57, Cl. 343-103.
- Frank, Robert L., to Sperry Rand Corp. Pulsed radio frequency synchronizing system. 2,783,371, 2-26-57, Cl. 250-15.
- Frank, Robert L., to Ringwood Chemical Corp. Animal feed supplement. 2,784,092, 3-5-57, Cl. 99-2.
- Frank, Robert L., to Sperry Rand Corp. Automatic tracking loran receiver. 2,811,718, 10-29-57, Cl. 343-103.
- Frank, Roger F., to Etablissements Frank & Pignard. Variable speed transmission. 2,807,965, 10-1-57, Cl. 74-371.
- Frank, S. M., & Co., Inc.: *See*—
Fassbender, Fred. 2,808,837.
- Frank, Sara A.: *See*—
Frank, Vernon L. 2,807,438.
- Frank, Sidney M., to The M. W. Kellogg Co. Production of a hydrogen rich gas and removal of carbon contained therein. 2,793,938, 5-28-57, Cl. 23-212.
- Frank, Stanley L., and J. Zipay, to Westinghouse Electric Corp. Enclosed electric switch. 2,798,903, 7-9-57, Cl. 200-18.
- Frank Tea & Spice Co., Inc. The: *See*—
Frank, Emil. 2,815,893.
- Frank, Thomas W. Method of making high density sintered alloys. 2,807,542, 9-24-57, Cl. 75-214.
- Frank, Vernon L., to S. A. Frank. Fluid pressure operated lift for tools and the like. 2,807,438, 9-24-57, Cl. 254-93.
- Frank, William R.: *See*—
Rasmussen, Clarence T., Frank, and Douglas. 2,795,911.
- Franke, Dallas V., and E. R. Anker, to Cal-Tronics Corp. Switch. 2,813,936, 11-19-57, Cl. 200-5.
- Franke, Georg H., to Bausch & Lomb Optical Co. Slit mechanism. 2,796,804, 6-25-57, Cl. 88-61.
- Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate: *See*—
Albrecht, Hermann F. 2,800,842.
Heidecke, Reinhold, and Albrecht. 2,794,381.
Michaelis, Willi. 2,796,813.
Scholkemeier, Friedrich-Wilhelm. 2,817,963.
Weiss, Richard. 2,788,724.

- Franke, Norman W.: *See*—
 Brown, George P., Jr., Crowley, and Franke. 2,791,598.
 Crowley, Edgar I., Elder, and Franke. 2,815,358.
 Crowley, Edgar I., and Franke. 2,813,826.
 Crowley, Edgar I., and Franke. 2,813,827.
 Franke, Walter and H. Meister, to Chemische Werke Huls Aktiengesellschaft. Process for the production of compounds of the diacetylene series. 2,796,442, 6-18-57, Cl. 260—615.
 Frankel, Adolf: *See*—
 Hughes, John O. P., Frankel, and Latoszynski. 2,807,480.
 Frankel, Sydney, to Web Controls Corp. Combination speed control and torque control device. 2,796,222, 6-18-57, Cl. 242—75.
 Frankenburger, Walter G., to General Cigar Co., Inc. Tobacco products and process therefor. 2,797,689, 7-2-57, Cl. 131—15.
 Frankenstein, William P. Cake lift. 2,783,932, 3-5-57, Cl. 229—30.
 Frankenstein, William P. Carton. 2,800,999, 7-30-57, Cl. 206—56.
 Frankenstein, William P. Carton. 2,816,698, 12-17-57, Cl. 229—34.
 Frankert, Otto P., to F. L. Smidth & Co. Ball mill linings and grinding body charges. 2,801,804, 8-6-57, Cl. 241—133.
 Frankfort Distilleries, Inc.: *See*—
 Ness, James M. 2,804,254.
 Frankiewicz, Myron J., and F. J. Ziolkowski, to Ethicon, Inc. Process for grinding and polishing catgut sutures. 2,794,304, 6-4-57, Cl. 51—281.
 Frankl, Ernest, to The Stickless Corp. Waxed marking unit. 2,789,373, 4-23-57, Cl. 35—66.
 Franklin, Arthur W., to The International Nickel Co. Inc. Method of producing metal powder. 2,793,108, 5-21-57, Cl. 75—0.5.
 Franklin Balmar Corp.: *See*—
 Demski, Edward. 2,785,521.
 Filander, Arthur H. 2,776,531.
 Filander, Arthur H. 2,782,897.
 Schulz, Walter A. 2,800,748.
 Franklin, Edmond G., to General Mills, Inc. Thermostat with expansion neutralizer. 2,780,697, 2-5-57, Cl. 200—137.
 Franklin, Edmond G., to General Mills, Inc. Thermal switch with cycling delay. 2,786,114, 3-19-57, Cl. 200—138.
 Franklin, Edmond G., to General Mills, Inc. Thermal switch with cycling delay. 2,786,115, 3-19-57, Cl. 200—138.
 Franklin, Edmond G., to General Mills, Inc. Thermal relay with shorting strip. 2,793,268, 5-21-57, Cl. 200—122.
 Franklin, Edna M. Thread pulling tool. 2,793,796, 5-23-57, Cl. 223—1.
 Franklin, Elbert W., and G. Overton, to Free-Aire Corp. of America. Freezing unit. 2,788,641, 4-16-57, Cl. 62—4.
 Franklin, Ernest M.: *See*—
 Elliott, Herschel A., and Franklin. 2,804,968.
 Franklin Foods, Inc.: *See*—
 Graves, Walter, and Wagner. 2,778,536.
 Franklin, Happy I.: *See*—
 Moore, Charles B., and Franklin. 2,777,606.
 Moore, Charles B., and Franklin. 2,794,573.
 Franklin, John P. Cloth conditioning apparatus. 2,798,280, 7-9-57, Cl. 26—18.5.
 Franklin, Joseph B. Portable door fastener. 2,804,332, 8-27-57, Cl. 292—292.
 Franklin, Llewellyn B. Convertible chair and couch. 2,790,485, 4-30-57, Cl. 155—113.
 Franklin Metal & Rubber Co.: *See*—
 Rolson, Kenneth P. 2,787,499.
 Franklin, Paul R., Jr. Refrigerator drive for refrigerated vehicles. 2,784,596, 3-12-57, Cl. 74—13.
 Franklin, Robert K., to Rolo Mfg. Co. Liquid meter. 2,794,342, 6-4-57, Cl. 73—224.
 Franklin, Robert P. Automatic pet feeder. 2,791,984, 5-14-57, Cl. 119—51.
 Franklin, William B. Method and means for minimizing printing ink oxidation. 2,776,784, 1-8-57, Cl. 222—205.
 Franklin, William M.: *See*—
 Thackara, John W., and Franklin. 2,806,803.
 Franks, Alton L. Container holder. 2,778,702, 1-22-57, Cl. 312—242.
 Franks, Arthur E.: *See*—
 Moore, James H., Clough, and Franks. 2,815,279.
 Franks, Charles M.: *See*—
 Seay, Cecil B., and Franks. 2,797,117.
 Franks, Edward E., Jr.: *See*—
 Sampatacos, Peter M., and Franks. 2,788,807.
 Franks, Gerald N. Cotton bale sampler. 2,812,555, 11-12-57, Cl. 19—156.
 Franks, Norvin H. Tension bolted frame construction. 2,788,096, 4-9-57, Cl. 189—36.
 Franks, Norvin H. Shelving unit. 2,815,130, 12-3-57, Cl. 211—148.
 Franks, Royce W. Draft control device. 2,808,992, 10-8-57, Cl. 236—45.
 Franquemont, John V., to Union Carbide Corp. Flat dry cell. 2,812,377, 11-5-57, Cl. 136—111.
 Frans, Robert D. Temperature indicator for infant's nursing bottles. 2,814,202, 11-26-57, Cl. 73—343.
 Fransen, Jacobus: *See*—
 Oosterkamp, Wijbe J., and Fransen. 2,796,527.
 Fransen, Jacobus, to North American Philips Co., Inc. Measuring device for low electric currents. 2,787,742, 4-2-57, Cl. 317—152.
 Fransen, Jacobus, M. C. Teves, and T. Tol, to North American Philips Co., Inc. Device for making photographs of X-ray images by means of an image amplifier. 2,790,085, 4-23-57, Cl. 250—65.
 Frantz, Frederick H., and W. O. Schink, to General Aniline & Film Corp. Fluid pump and tank assembly with actuating cam device. 2,805,002, 9-3-57, Cl. 222—309.
 Frantz, Verne L., to Permactel Tape Corp. Pressure sensitive adhesive tape. 2,799,596, 7-16-57, Cl. 117—76.
 Frantz, Virgil L. Valved piping arrangement. 2,797,705, 7-2-57, Cl. 137—622.
 Frantz, William, and J. J. Cibi, to Simmonds Aerocessories, Inc. Valved coupling. 2,809,658, 10-15-57, Cl. 137—498.
 Franz, Earl M.: *See*—
 Franz, Harold A., H. W., and E. M. 2,779,263.
 Franz, Edward, to R. L. Brown. Fastener. 2,783,514, 3-5-57, Cl. 24—73.
 Franz, Frederick. Electric metronome. 2,817,208, 12-24-57, Cl. 58—130.
 Franz, Harold A., H. W., and E. M. Deep furrow drill shovel. 2,779,263, 1-29-57, Cl. 97—225.
 Franz, Herbert W.: *See*—
 Franz, Harold A., H. W., and E. M. 2,779,263.
 Franzen, Tore, to Chrysler Corp. Brake mechanism. 2,796,153, 6-18-57, Cl. 188—72.
 Frary, Evan A.: *See*—
 Crooker, David E., and Frary. 2,777,498.
 Fraser, Alan R., and T. J. Slattery, to Chromium Mining & Smelting Corp. Ltd. Process for the reduction of carbon content of ferroalloys. 2,802,730, 8-13-57, Cl. 75—28.
 Fraser, D. M., Ltd.: *See*—
 Wilde, Charles A. T. 2,788,404.
 Fraser, David F., to United Mattress Machinery Co., Inc. Machine for tufting mattresses and similar articles. 2,787,230, 4-2-57, Cl. 112—3.
 Fraser, George L.: *See*—
 Rider, Stuart H., Anas, and Fraser. 2,816,865.
 Fraser, George L., to Monsanto Chemical Co. Internally plasticized melamine resins and laminates made therewith. 2,817,614, 12-24-57, Cl. 154—43.
 Fraser, George L., and R. M. Dickey, to Monsanto Chemical Co. Polyisocyanate cyclic urea derivative reaction products. 2,801,230, 7-30-57, Cl. 260—77.5.
 Fraser, James, to Speakman Co. Apparatus for automatically flushing urinals at varying intervals. 2,786,210, 3-26-57, Cl. 4—101.
 Fraser, James, to Speakman Co. Mixing valves. 2,800,137, 7-23-57, Cl. 137—100.
 Fraser, John, to Avery-Hardoll Ltd. Apparatus for dispensing liquids. 2,815,149, 12-3-57, Cl. 222—31.
 Frates, Thomas L. Semi-automatic rifle. 2,804,809, 9-3-57, Cl. 89—150.
 Frauböse, Heinrich, and F. Dittmer, to Heinrich Koppers Gesellschaft mit beschränkter Haftung. Conveyor devices for loose material. 2,792,923, 5-21-57, Cl. 198—37.
 Fray, Victor H. Counting apparatus for cold forging machines and the like. 2,789,764, 4-23-57, Cl. 235—91.
 Fray, Victor H. Method of and apparatus for forming polygonal articles. 2,790,188, 4-30-57, Cl. 10—18.
 Frayer, Leon W.: *See*—
 Cabaniss, Edward H., Garland, Hardy, Gibbons, and Frayer. 2,802,401.
 Frazel, Wilbur H., to B-I-F Industries, Inc. Mounting for a pressure responsive diaphragm. 2,811,172, 10-29-57, Cl. 137—789.
 Frazho, Robert M., and J. C. Griffin. Meat cleaning machine. 2,817,862, 12-31-57, Cl. 15—3.17.
 Frazier, Charles, and L. E. Cadwell, to American Cyanamid Co. Oxirane triazine resinous compositions and processes of preparing the same. 2,810,706, 10-22-57, Cl. 260—45.5.
 Frazier, Garland D., and K. Z. Crawford, said Crawford to said Frazier. Kicking toe. 2,782,531, 2-26-57, Cl. 36—2.5.
 Frazier, George W. Doughnut hole dough remover. 2,779,097, 1-29-57, Cl. 30—130.
 Frazier, Henry D.: *See*—
 Lewis, William M., Jr., and Frazier. 2,815,474.
 Frazier, Mary L.: *See*—
 Adams, Clyde S., Cormack, and Frazier. 2,783,227.
 Adams, Clyde S., Cormack, and Frazier. 2,783,228.
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 Frazier, Robert L. Electric fishing signal device bit buzz light. 2,814,900, 12-3-57, Cl. 43—17.
 Frazier, Virgil H. Dog collar. 2,792,812, 5-21-57, Cl. 119—106.
 Frazza, Everett J., and R. L. Webb, to American Cyanamid Co. Preparation of succinamide. 2,791,610, 5-7-57, Cl. 260—561.
 Frechette, Leo P., Jr., to Royal McBee Corp. Tabulating mechanism for typewriter or like machines. 2,808,142, 10-1-57, Cl. 197—178.
 Fred, John V., to Otis Pressure Control, Inc. Amplifying recorder for tubing calipers. 2,777,746, 1-15-57, Cl. 346—111.
 Fred, John V., to Otis Engineering Corp. Hangers for well tubing extensions and the like. 2,798,559, 7-9-57, Cl. 166—125.
 Fredenburgh, Mark N., to Radio Corp. of America. Electron emissive coating material and method of application. 2,800,446, 7-23-57, Cl. 204—181.

- Fredenburgh, Mark N., to Radio Corp. of America. Cathaphoretic coating machine. 2,800,448, 7-23-57, Cl. 204—300.
- Fredendall, Gordon L., to Radio Corp. of America. Distortion correction. 2,791,752, 5-7-57, Cl. 333—28.
- Frederich, Emil G., K. S. Updyke, and J. A. Talboys, to Crown Zellerbach Corp. Dispensing opening for a container. 2,799,440, 7-16-57, Cl. 229—17.
- Frederick, Charles, and G. E. Chailoux. Number plate bracket and filler cap lock. 2,798,759, 7-9-57, Cl. 206—1.
- Frederick, Edward R., and M. C. Jaskowski, to the United States of America as represented by the Secretary of the Army. Method of enhancing filling power, stabilizing curl, etc. in land fowl feathers by applying glyoxal and products produced therefrom. 2,805,913, 9-10-57, Cl. 8—94.10.
- Frederick, Edward R., and M. C. Jaskowski, to the United States of America as represented by the Secretary of the Army. Alpha-hydroxy-adipaldehyde treatment of chicken feathers to enhance filling power, water repellancy, etc. 2,805,914, 9-10-57, Cl. 8—94.10.
- Frederick, Joseph E., to General Aniline & Film Corp. Light sensitive diazotype compositions containing silica pigment. 2,784,089, 3-5-57, Cl. 96—91.
- Frederick, Joseph E., to A. B. Dick Co. Process of applying a diazotype photographing material to a base and the resultant article. 2,807,545, 9-24-57, Cl. 96—75.
- Frederick, Joseph E., to General Aniline & Film Corp. Light sensitive diazotype compositions containing alumina pigments. 2,807,544, 9-24-57, Cl. 96—49.
- Frederick, Marvin R., and R. T. Morrissey, to The B. F. Goodrich Co. Hydrogen halide derivatives of isolefin-polyolefin polymers mixed with rubbery polymers containing a major proportion of diolefin. 2,809,372, 10-8-57, Cl. 260—5.
- Frederick, William J., and O. E. Romig, to United States Steel Corp. Method of coating core plates and composition therefor. 2,790,739, 4-30-57, Cl. 148—6.15.
- Fredericks, Carl K., to the United States of America as represented by the Secretary of the Air Force. Temperature indicating device. 2,805,575, 9-10-57, Cl. 73—358.
- Fredericks, George F., to National Automotive Fibres, Inc. Printer's blanket. 2,792,321, 5-14-57, Cl. 154—54.5.
- Fredericks, George F., to National Automotive Fibres, Inc. Printer's blanket. 2,792,322, 5-14-57, Cl. 154—54.5.
- Fredericks, Karl J. Reversible net roller for fishing boats. 2,814,145, 11-26-57, Cl. 43—8.
- Frederickson, Leo D., Jr.: See—
- Darby, Joseph R., and Frederickson. 2,782,176.
- Frederiksen, Svend E., to Novo Therapeutisk Laboratorium A/S. Method of recovering proteolytic pancreas enzymes from mammalian pancreas glands subsequent to insulin removal. 2,803,585, 8-20-57, Cl. 167—75.
- Frederkiel, Wilhelm: See—
- Schuster, Curt, Maier, Gehm, Eisele, and Frederkiel. 2,813,774.
- Fredh, Tore, and E. Hallmarken, to Aktiebolaget Svenska Flaktfabriken. Safety device for elevators and similar transporting means. 2,792,106, 5-14-57, Cl. 198—232.
- Fredholm, Gunnar I., to Verkstads Aktiebolaget Calor. Arrangement in calendars. 2,813,357, 11-19-57, Cl. 38—56.
- Fredman, Harry. Bed carriage. 2,784,421, 3-12-57, Cl. 5—131.
- Fredrick, Arden H., to the United States of America as represented by the Secretary of the Navy. Delay line phase shifter. 2,781,495, 2-12-57, Cl. 333—31.
- Fredrick, Arden H., to General Precision Laboratory Inc. Load sharing circuit. 2,806,198, 9-10-57, Cl. 323—23.
- Fredrick, Russell E., R. W. Fritts, and W. V. Huck, to Milwaukee Gas Specialty Co. Contacting semi-metallic electrical conductors. 2,811,569, 10-29-57, Cl. 136—5.
- Fredrickson, Edward A., H. W. Ashby, and A. E. Johnson, to Crane Co. Spray nozzle. 2,806,740, 9-17-57, Cl. 209—118.
- Fredriksson, Per S. E., to Aktiebolaget Svenska Metallverken. Rolling mill. 2,780,948, 2-12-57, Cl. 80—14.
- Free Lock Corp.: See—
- Requa, Roy. 2,788,103.
- Free, Otis. Hot plate for food. 2,817,744, 12-24-57, Cl. 219—44.
- Freed, George H. Anti-stammering device. 2,818,065, 12-31-57, Cl. 128—137.
- Freed, Max. Collar-attached shirt. 2,779,946, 2-5-57, Cl. 2—116.
- Freed, Meier E.: See—
- Seifter, Joseph, Hanslick, and Freed. 2,780,646.
- Freedlander, Abraham L., to The Dayton Rubber Co. Bed construction. 2,775,775, 1-1-57, Cl. 5—210.
- Freedlander, Abraham L., to The Dayton Rubber Co. Fuel cell construction. 2,802,763, 8-13-57, Cl. 154—43.5.
- Freedlander, Abraham L., to The Dayton Rubber Co. Picker stick checking mechanism and check strap therefor. 2,783,779, 3-5-57, Cl. 139—161.
- Freedle, Willie W.: See—
- Carrick, Virgil P., Martin, Freedle, and York. 2,800,665.
- Freedle, Willie W., and C. F. Martin. Tufting needle. 2,785,644, 3-19-57, Cl. 112—223.
- Freedman, Edward H. Special receptacles. 2,804,226, 8-27-57, Cl. 217—8.
- Freedman, Emiel. Resilient spring envelope for collapsible tubes. 2,776,077, 1-1-57, Cl. 222—103.
- Freedman, George, and K. A. Berberian, to Raytheon Mfg. Co. Black coatings for metal parts and methods for forming such coatings. 2,814,574, 11-26-57, Cl. 117—221.
- Freedman, Larry A., to Radio Corp. of America. Semi-conductor squelch circuit. 2,809,240, 10-8-57, Cl. 179—171.
- Freedman, Louis: See—
- Shapiro, Seymour L., and Freedman. 2,792,393.
- Freedman, Louis, and S. L. Shapiro, to U. S. Vitamin Corp. Organic mercury compounds. 2,792,392, 5-14-57, Cl. 260—242.
- Freedman, Melvin B., to the United States of America as represented by the Secretary of the Navy. Gain control circuits. 2,817,716, 12-24-57, Cl. 179—171.
- Freedman, Meyer L., to Horizons Titanium Corp. Electrolyte for titanium production. 2,798,844, 7-9-57, Cl. 20—64.
- Freedman, Meyer L., to Horizons Inc. Composition of matter for soldering aluminum. 2,801,943, 8-6-57, Cl. 148—23.
- Freedman, Nathan: See—
- Beveridge, Harold N., Freedman, and Larkin. 2,776,370.
- Freedman, Samuel, to Sighthmaster of California Co., Inc., now by change of name to Chemalloy-Electronics Corp. Process of producing lead-zinc alloys. 2,796,345, 6-18-57, Cl. 75—166.
- Freeland, Everett L., and R. A. Lancaster, to Western Electric Co., Inc. Work-locating apparatus. 2,801,555, 8-6-57, Cl. 78—48.
- Freely, John B.: See—
- Dobischek, Dietrich, Freely, and Jacobs. 2,802,127.
- Freeman, Alfred. Conveyor system. 2,798,586, 7-9-57, Cl. 198—38.
- Freeman, Alfred. Conveyor system. 2,803,333, 8-20-57, Cl. 198—38.
- Freeman, Ann. Post-operative redintegration in femur prosthesis cases. 2,815,021, 12-3-57, Cl. 128—80.
- Freeman, Arthur H., to General Electric Co. Thermostat for cooking appliance or the like. 2,789,183, 4-16-57, Cl. 200—138.
- Freeman, Bennett L., and B. H. Vester, to Westinghouse Electric Corp. Magnetic modulator. 2,814,738, 11-26-57, Cl. 307—106.
- Freeman, David A. Press pad. 2,814,135, 11-26-57, Cl. 33—66.
- Freeman, Edwin G., to Nu-Parq Products Ltd. Stool or like articles. 2,779,390, 1-29-57, Cl. 155—50.
- Freeman, Eugene J. Earth boring auger and head therefor. 2,784,944, 3-12-57, Cl. 255—67.
- Freeman, George A., to Westinghouse Electric Corp. Base for rapid start fluorescent lamp. 2,799,801, 7-16-57, Cl. 315—32.
- Freeman, George D. Extension scaffold jack. 2,796,299, 6-18-57, Cl. 304—29.
- Freeman, Henry B. Hammer with spring shank handle. 2,781,805, 2-19-57, Cl. 145—29.
- Freeman, Horace: See—
- Boadway, John D., and Freeman. 2,816,490.
- Freeman, Horace. Iron oxide reduction. 2,792,298, 5-14-57, Cl. 75—3.
- Freeman, J. William: See—
- Birmingham, Peter D. 2,784,017.
- Freeman, John D., to General Electric Co. Pneumatic control apparatus with follow-up. 2,780,230, 2-5-57, Cl. 137—85.
- Freeman, Lawrence A., to Capco Products Co., Inc. Air conditioning system. 2,800,306, 7-23-57, Cl. 257—3.
- Freeman, Louis G., Co. The: See—
- Hoffman, Howard H. 2,781,532.
- Freeman, Michael W. Compositions and methods for treating articles. 2,789,071, 4-16-57, Cl. 148—6.17.
- Freeman, Michael W. Products for and methods of quenching to harden steels. 2,799,606, 7-16-57, Cl. 148—18.
- Freeman, Philip M., to United Aircraft Corp. Valve control for dual-rotation propeller. 2,791,282, 5-7-57, Cl. 170—135.27.
- Freeman, Richard B. Prophylactic tube with differential wall thickness. 2,816,542, 12-17-57, Cl. 128—132.
- Freeman, Robert L.: See—
- Bateman, George H., Freeman, and Holbrook. Re. 24,320.
- Cline, Earl E., and Freeman. 2,796,183.
- Freeman, Rose, trustee: See—
- Schoendorf, William J. 2,809,643.
- Freeman, Stephen T. Guiding instrument for precision in restorative dental work. 2,817,901, 12-31-57, Cl. 32—67.
- Freeman, William A., Jr.: See—
- Hutchison, John S., and Freeman. 2,816,612.
- West, Robert C., Binder, and Freeman. 2,812,160.
- Freeman, William A., Jr., and V. G. Meadors, to Esso Research and Engineering Co. Method of drilling with air. 2,818,231, 12-31-57, Cl. 255—1.8.
- Freeport Sulphur Co.: See—
- Axelrad, Bernard A. 2,817,504.
- Brogdon, Vas H. 2,781,635.
- Hills, Robert C. 2,809,095.
- Simons, Courtney S., III. 2,798,804.
- Freer, John G., to Union Oil Co. of California. Distribution of fluids. 2,782,739, 2-26-57, Cl. 111—7.
- Freer, Thomas R.: See—
- Callaghan, Robert W., and Freer. 2,791,506.
- Freerks, Marshall C., and A. J. Speziale, to Monsanto Chemical Co. Preparation of carbocyclic bicyclic ketones. 2,812,352, 11-5-57, Cl. 260—586.
- Freese, Charles E.: See—
- Lannan, Patrick E., and Freese. 2,782,290.
- Freese, Charles E., to Designers for Industry, Inc. Vibratory pump. 2,816,514, 12-17-57, Cl. 103—152.

- Freese, Royce G., to General Mills, Inc. Preparation of beta amino propionate surfactants. 2,810,752, 10-22-57, Cl. 280—534.
- Freez-Aire Corp. of America : See—
Franklin, Elbert W., and Overton. 2,788,641.
- Freeze, James E. : See—
Day, Carl L., Lynch, and Freeze. 2,786,601.
- Freeze, Jonathan R., to Armo Steel Corp. Edge bending mechanism for spiral welded pipe machine. 2,794,409, 6-4-57, Cl. 113—35.
- Frehn, Johann, and H. Nierlich, to Maschinenfabrik Meer Aktiengesellschaft, and Mannesmann Aktiengesellschaft. Tube cold-straightening machines having top rolls mounted in a hingeable cover. 2,811,194, 10-29-57, Cl. 153—108.
- Frei, Arthur J. : See—
O'Brien, John F., Frei, and Waag. 2,800,775.
- Frei, Arthur J., to General Motors Corp. Ice block ejecting device. 2,809,499, 10-15-57, Cl. 62—106.
- Frei, Arthur J., to General Motors Corp. Ice block releasing device. 2,809,500, 10-15-57, Cl. 62—108.5.
- Freiberg, James M., to Pittsburgh Plate Glass Co. Apparatus for tempering glass. 2,790,270, 4-30-57, Cl. 49—45.
- Freiberger, Herman, to The Elwood Research Co. Tonsorial robe. 2,803,013, 8-20-57, Cl. 2—50.
- Freienmuth, William L. : See—
Dougherty, James G., Jr., Freienmuth, and Armstrong. 2,798,153.
- Freifeld, Milton, and R. D. Keeney, to Monsanto Chemical Co. Nozzle for injection molding. 2,817,115, 12-24-57, Cl. 18—30.
- Freimiller, Louis R., and C. H. McKeever, to Rohm & Haas Co. Preparation of catalyst. 2,786,035, 3-19-57, Cl. 252—429.
- Freimiller, Louis R., and C. H. McKeever, to Rohm & Haas Co. Preparation of polymerization initiators. 2,786,036, 3-19-57, Cl. 252—431.
- Freire, Antonio C. Automatic luminous traffic signal apparatus. 2,817,070, 12-17-57, Cl. 340—43.
- Freise, William G. : See—
Arnett, Leslie, and Freise. 2,798,643.
- Freiss Safety Brake, Inc. : See—
Freiss, William C. 2,815,101.
- Freiss, William C., to Freiss Safety Brake, Inc. Emergency brakes for trucks or the like. 2,815,101, 12-3-57, Cl. 188—106.
- Freistat, Alfred. Spring block for carrying cases for musical wind instruments. 2,792,932, 5-21-57, Cl. 206—13.
- Freitas, Robert J. Fishing apparatus. 2,789,388, 4-23-57, Cl. 43—43.16.
- Frejdaques, Jean L. M., to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Apparatus for the manufacture of urea, formed of aluminum bronze. 2,778,733, 1-22-57, Cl. 75—161.
- Frellsen, Carlton B., to Joy Mfg. Co. Drive controlling and braking devices having selective automatic manual brake control. 2,791,918, 5-14-57, Cl. 74—710.5.
- Fremon, Jules A. Coin device. 2,780,337, 2-5-57, Cl. 194—83.
- French, Arthur A., and A. N. McGregor. Ice making apparatus. 2,782,608, 2-26-57, Cl. 62—106.
- French, Charles A. Ink trip for offset presses. 2,788,742, 4-16-57, Cl. 101—351.
- French, Damas J. Adjustable draft mechanism for multiple trailing vehicles. 2,808,273, 10-1-57, Cl. 280—412.
- French, Earl W. : See—
King, William B., and French. 2,784,388.
- French, Eric L., to Westinghouse Brake and Signal Co., Ltd. Selenium rectifiers. 2,802,973, 8-13-57, Cl. 317—241.
- French, Eric L., to Westinghouse Brake and Signal Co. Ltd. Selenium rectifiers. 2,802,974, 8-13-57, Cl. 317—241.
- French, Henry C., and H. E. Althens, to The Reece Corp. Button clamp for button sewing machines and operating means therefor. 2,804,036, 8-27-57, Cl. 112—114.
- French, Hubert, and R. C. Kennedy, to Radio Corp. of America. Envelope delay measuring equipment. 2,808,562, 10-1-57, Cl. 324—57.
- French, Lawrence C. Illuminated aerial top. 2,795,898, 6-18-57, Cl. 46—228.
- French, Lionel J. B. R. Book cover applying machine. 2,794,993, 6-11-57, Cl. 11—3.
- French, Louis O. Fuel injection apparatus. 2,799,263, 7-16-57, Cl. 123—139.
- French, Louis O. Fuel injection apparatus. 2,799,535, 7-16-57, Cl. 299—107.2.
- French, Louis O. Two cycle internal combustion engine. 2,816,416, 12-17-57, Cl. 60—19.
- French, Louis O. Fuel injection apparatus. 2,816,534, 12-17-57, Cl. 123—139.
- French, Marie L. C. : See—
French, Peter and M. L. C. 2,783,761.
- French Oil Mill Machinery Co., The : See—
Hutchins, Ralph P. 2,806,297.
Hutchins, Ralph P., and Zwayer. 2,806,770.
Stacy, Thomas F. 2,812,543.
Williams, Merl A., and Wert. 2,799,097.
- French, Peter and M. L. C. Cigarette holders. 2,783,761, 3-5-57, Cl. 131—175.
- French, R. T., Co., The : See—
Westgate, Oscar L. 2,785,841.
- French, Ralph T., and W. D. Pouchot, to Westinghouse Electric Corp. Movable flame holder for combustion apparatus. 2,800,765, 7-30-57, Cl. 60—35.6.
- French, Ralph W., to Ludlow Mfg. & Sales Co. Bundle tie. 2,782,479, 2-26-57, Cl. 24—18.
- French, Ralph W., R. Shields, and K. H. Pond, to Ludlow Mfg. & Sales Co. Bundle tying apparatus. 2,782,709, 2-26-57, Cl. 100—27.
- French, Richard S., to Keyes Fibre Co. Tray with cork surface portions and method of making. 2,777,626, 1-15-57, Cl. 229—2.5.
- French, Richard S., to Keyes Fibre Co. Construction panel. 2,809,908, 10-15-57, Cl. 154—45.9.
- French, Richard W., to General Electric Co. Protective circuit. 2,816,180, 12-10-57, Cl. 179—171.
- French State represented by the Ministry of National Defense : See—
Maurice, Pierre, and Tavernier. 2,779,281.
- French, Warren F., to William H. Field Co., Inc. Cutter grinders. 2,787,094, 4-2-57, Cl. 51—123.
- French, Warren F., to William H. Field Co., Inc. Uni-flex tooth rest and support. 2,803,929, 8-27-57, Cl. 51—238.
- Frerger, Karl G. Panel for radiant heating or cooling systems. 2,782,006, 2-19-57, Cl. 257—124.
- Frenk, Donald R. : See—
Oppenheimer, Frank L., and Frank. 2,804,938.
- Frenk, Helmut, to Ernst Leitz G. m. b. H. Electronic switch for dimensional limit gauge and other purposes. 2,793,441, 5-28-57, Cl. 33—172.
- Frenkel, Lothar, to Allen B. Du Mont Laboratories, Inc. Arc light. 2,779,890, 1-29-57, Cl. 313—149.
- Frenkel, Meyer. Heat transfer apparatus. 2,806,676, 9-17-57, Cl. 257—245.
- Frensch, Heinz : See—
Scherer, Otto, Stähler, and Frensch. 2,795,598.
- Frensch, Heinz, H. Goebel, W. Staudermann, and W. Finkenbrink, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Unsaturated polycyclic sulfates and a process for their manufacture. 2,799,685, 7-16-57, Cl. 260—327.
- Frerking, Homer C. Live box. 2,803,084, 8-20-57, Cl. 43—55.
- Fresard, Marcel, and M. Huber, to Mefina S. A. Cylinder device, particularly for a safety lock. 2,775,884, 1-1-57, Cl. 70—364.
- Fresard, Marcel, and M. Huber, to Mefina S. A. Improvements in and relating to locks. 2,797,570, 7-2-57, Cl. 70—129.
- Fresch, Eugene. Meat product and method of preparing same. 2,791,507, 5-7-57, Cl. 99—107.
- Frese, Verne. Machine for cleaning pallets. 2,799,879, 7-23-57, Cl. 15—93.
- Freshour, Harry. Sign holder. 2,790,258, 4-30-57, Cl. 40—125.
- Fresone, Eduardo F., and R. Iza, Jr. Electric roasters. 2,788,427, 4-9-57, Cl. 219—20.
- Fretco, Inc. : See—
Fisher, Joseph V. 2,787,561.
Gonssett, Faust R. 2,810,670.
- Freund, George J., to Collins Radio Co. Single sideband scheme. 2,796,585, 6-18-57, Cl. 332—45.
- Freund, Henry L. Anti-splash shield for paint pans. 2,798,239, 7-9-57, Cl. 15—121.3.
- Freund, Rudolf E. : See—
Jones, Lloyd R., and Freund. 2,791,633.
- Freundel, Walter : See—
Kayton, Robert, Freundel, Jeter, and Dudek. 2,783,880.
- Freundlich, William, and L. Szikla. Cigarette dispenser. 2,795,354, 6-11-57, Cl. 221—250.
- Freundt, Edmund J. Closed-circuit electric alarm system. 2,786,992, 3-26-57, Cl. 340—328.
- Freure, Benjamin T. : See—
Chitwood, Henry C., and Freure. 2,795,600.
- Frevel, Ludo K., and L. J. Kressley, to The Dow Chemical Co. Selective hydrogenation of acetylene in ethylene and catalyst therefor. 2,802,889, 8-13-57, Cl. 260—677.
- Frevik, Ralph C., and R. W. Wilson, to Ford Motor Co. Frame construction and hitch for farm implement. 2,780,161, 2-5-57, Cl. 97—47.62.
- Frewin, Kenneth M. Means for mixing solutions with flowing liquids. 2,785,012, 3-12-57, Cl. 299—84.
- Frey, Andrew C. Dispenser cap for salt and pepper shakers. 2,780,398, 2-5-57, Cl. 222—545.
- Frey, Cleon E. : See—
Aust, Robert J., Frey, Goetz, and Skillman. 2,787,713.
- Frey, Edward, to The Massillon-Cleveland-Akron Sign Co. Tow target construction. 2,807,287, 9-24-57, Cl. 139—419.
- Frey, Edward J. : See—
Gerhardt, Andrew H., and Frey. 2,807,950.
Gerhardt, Andrew H., and Frey. 2,807,951.
- Frey, Edward J., to General Motors Corp. Flow control device. 2,781,059, 2-12-57, Cl. 138—46.
- Frey, Edward J., to General Motors Corp. Flow controller. 2,781,060, 2-12-57, Cl. 138—46.
- Frey, Edward J., to General Motors Corp. Flow controller. 2,781,061, 2-12-57, Cl. 138—46.
- Frey, Edward J., to General Motors Corp. Domestic appliance. 2,785,132, 3-12-57, Cl. 252—70.
- Frey, Edward J., to General Motors Corp. Fluid flow controller. 2,802,486, 8-13-57, Cl. 138—46.
- Frey, Edward J., to General Motors Corp. Mixing valve. 2,808,210, 10-1-57, Cl. 236—12.
- Frey, Eli R. Wire tying mechanism. 2,776,615, 1-8-57, Cl. 100—2.
- Frey, Ephraim. Lap tray with leg engaging means. 2,783,109, 2-26-57, Cl. 311—25.

- Frey, Floyd C.: *See*—
Sanderson, Jerry G. 2,776,766.
- Frey, Frederick E.: *See*—
Hepp, Harold J., and Frey. 2,781,409.
- Frey, Frederick E., and H. J. Hepp, to Phillips Petroleum Co. Hydrocarbon conversion process. 2,803,684, 8-20-57, Cl. 260—673.
- Frey, Hans J., to Dr. E. Gretener. High-intensity arc lamp for continuous operation. 2,786,958, 3-26-57, Cl. 314—20.
- Frey, Hugh B., Jr., to Schlumberger Well Surveying Corp. High-voltage generators. 2,789,241, 4-16-57, Cl. 313—61.
- Frey, Hugh B., Jr., and J. Tittman, to Schlumberger Well Surveying Corp. Methods and apparatus for localized neutron logging. 2,778,950, 1-22-57, Cl. 250—83.6.
- Frey, Kurt P. H. Devices to improve flow pattern and heat transfer in heat exchange zones of brick-lined furnace. 2,813,708, 11-19-57, Cl. 263—51.
- Frey, Robert J.: *See*—
Crosby, George A., and Frey. 2,801,558.
- Frey, Samuel S., to Oakite Products Inc. Decorative metal plating. 2,780,591, 2-5-57, Cl. 204—23.
- Frey, Walter, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process and apparatus for obtaining titanium dioxide with a high rutile content. 2,779,662, 1-29-57, Cl. 23—202.
- Frey, Walter, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process for the production of titanium tetrachloride. 2,790,703, 4-30-57, Cl. 23—87.
- Frey, Wolfgang: *See*—
Peter, Albin, and Frey. 2,778,839.
- Frey, Wolfgang, to Saul & Co., as nominee of Fidelity Union Trust Co. Green substantive dyes of the anthraquinone series. 2,779,772, 1-29-57, Cl. 260—368.
- Frey, Wolfgang, and A. Peter, to Saul & Co., as nominee of Fidelity Union Trust Co. Acylaminoanthraquinones. 2,794,031, 5-28-57, Cl. 260—377.
- Frey, Wolfgang, and A. Peter, to Saul & Co., as nominee of Fidelity Union Trust Co. Acylaminoanthraquinones. 2,794,032, 5-28-57, Cl. 260—377.
- Freyer, Richard H.: *See*—
Swazy, Earl F., Freyer, and Busch. 2,786,756.
- Swazy, Earl F., Freyer, and Busch. 2,818,334.
- Freyermuth, Harlan B., to General Aniline & Film Corp. Treatment of 2,2'-dihydroxy-1,1'-aldazines of the benzene and naphthalene series. 2,813,903, 11-19-57, Cl. 260—566.
- Freyermuth, Harlan B., and A. F. Strobel, to General Aniline & Film Corp. Cobalt complex azo dyestuff. 2,809,962, 10-15-57, Cl. 260—147.
- Freysinger, John B., to North & Judd Mfg. Co. Buckle. 2,784,472, 3-12-57, Cl. 24—197.
- Freytag, Helmut, F. Lober, R. Wegler, and J. Peter, to Farbenfabriken Bayer Aktiengesellschaft. Vulcanisation of 2-chlorobutadiene-(1,3) polymers. 2,815,336, 12-3-57, Cl. 260—92.3.
- Friar, Lawrence. Automatic floor wax applicator. 2,813,288, 11-19-57, Cl. 15—131.
- Friauf, George F.: *See*—
Campbell, Earnest D., and Friauf. 2,801,157.
- Frick, Alfred W.: *See*—
Ergen, William K., Palya, and Frick. 2,794,594.
- Frick, Chester A., to K. Reinhard. Closure construction for buildings. 2,788,097, 4-9-57, Cl. 189—64.
- Frick, Chester A., to K. Reinhard. Screen construction for door opening, or the like. 2,808,880, 10-8-57, Cl. 160—378.
- Frick, Harold: *See*—
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- Dunlevy, Ralph, Frick, and Shoemaker. 2,818,075.
- Frick, Harold L., to Beachee Products Corp. Steam ironing apparatus. 2,799,100, 7-16-57, Cl. 38—30.
- Frick, Heinrich, and A. Lutz, to Hoffmann-La Roche Inc. 4,4-di-substituted 2-pyrrolidones and process for the manufacture thereof. 2,784,200, 3-5-57, Cl. 260—326.5.
- Fridde, Dewey: *See*—
Cashion, Emerson P., and Fridde. 2,791,242.
- Cashion, Emerson P., and Fridde. 2,792,850.
- Friden Calculating Machine Co., Inc.: *See*—
Chall, Harold J. 2,779,267.
- Chall, Harold J., and Balaz. 2,807,348.
- Ellerbeck, Grant C. 2,776,795.
- Ellerbeck, Grant C. 2,779,542.
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- Ellerbeck, Grant C. 2,794,596.
- Grobl, Jon E. 2,797,869.
- Hopkins, George W., and Shackelford. 2,809,786.
- Mulavayov, Arthur J. 2,812,338.
- Moody, John L., and Silverman. 2,807,766.
- Friderich, Gerhard, to the United States of America as represented by the Secretary of the Army. Eye or keeper for hook and eye fasteners. 2,775,799, 1-1-57, Cl. 20—92.4.
- Friderici, Edwin D.: *See*—
Cogovan, Edward J., and Friderici. 2,810,948.
- Friderici, Wayne J., to The Standard Products Co. Article supporting means. 2,793,611, 5-28-57, Cl. 118—500.
- Friderici, Wayne J., to The Standard Products Co. Automatic coating spray unit for flocking machines. 2,811,130, 10-29-57, Cl. 118—2.
- Friderici, Wayne J., to The Standard Products Co. Apparatus for preventing flock build-up on a flocking machine electrode. 2,811,134, 10-29-57, Cl. 118—636.
- Fridolph, Annette E., to A. B. A. Specialties Co., Inc. Seat construction. 2,801,682, 8-6-57, Cl. 155—185.
- Fridrich, Elmer G., to General Electric Co. Apparatus for and method of forming and mounting supports on coiled filaments. 2,813,327, 11-19-57, Cl. 29—25.13.
- Fridrich, Elmer G., to General Electric Co. Electric lamp or similar device. 2,813,993, 11-19-57, Cl. 313—279.
- Frieberg, Bengt, to Lihnell Vagn Aktiebolag. Draft device adapted for attachment forwardly of a leading vehicle rear axle. 2,780,479, 2-5-57, Cl. 280—446.
- Frieberg, Nelson R., to The National Cash Register Co. Paper feeding suppression mechanism for calculating machines. 2,801,048, 7-30-57, Cl. 235—60.51.
- Frieberg, Nelson R., and O. F. Larsen, to The National Cash Register Co. Front feed and operation control mechanism for calculating machines. 2,813,611, 11-19-57, Cl. 197—128.
- Frieburger, Joseph A. Hand truck. 2,794,564, 6-4-57, Cl. 214—378.
- Fried, Bernard, to Joseph Pollak Corp. Overdrive governor switch. 2,785,244, 3-12-57, Cl. 200—80.
- Fried, Bernard, to Joseph Pollak Corp. Rotary switch assembly. 2,806,112, 9-10-57, Cl. 200—153.
- Fried, Josef: *See*—
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- Thoma, Richard W., Gerke, and Fried. 2,793,162.
- Thoma, Richard W., Gerke, and Fried. 2,793,163.
- Thoma, Richard W., and Fried. 2,801,251.
- Fried, Josef, to Olin Mathieson Chemical Corp. Synthesis of 15 oxygenated steroids. 2,799,689, 7-16-57, Cl. 260—397.3.
- Fried, Josef. Δ^5 -pregnenes and process. 2,815,355, 12-3-57, Cl. 260—397.45.
- Fried, Josef, to Olin Mathieson Chemical Corp. 9 α -fluoro-4, 11 β -dihydroxyprogesterone and process. 2,816,120, 12-10-57, Cl. 260—397.45.
- Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. Synthesis of steroids. 2,793,164, 5-21-57, Cl. 195—51.
- Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. 3-keto-16 α , 20 β -dihydroxy pregnenes. 2,799,690, 7-16-57, Cl. 260—397.4.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 12-oxygenated-4,9(11)-pregnadiene-3,20-dione. 2,814,629, 11-26-57, Cl. 260—397.3.
- Fried, Joseph W. Deburring, chamfering, countersinking tool. 2,777,342, 1-15-57, Cl. 77—73.5.
- Fried, Louis. Hand-openable top for cans. 2,781,149, 2-12-57, Cl. 220—48.
- Fried, Louis. Container top and opener construction. 2,790,577, 4-30-57, Cl. 220—48.
- Fried, Sherman, and N. R. Davidson, to the United States of America as represented by the United States Atomic Energy Commission. Conversion of plutonium trifluoride to plutonium tetrafluoride. 2,805,916, 9-10-57, Cl. 23—14.5.
- Friedberg, Gilbert E. Multiple-exposure camera. 2,806,415, 9-17-57, Cl. 95—36.
- Friedberg, Harry, to Waste King Corp. Electric incinerator heating unit. 2,798,928, 7-9-57, Cl. 219—19.
- Friedell, Morley V., to C. A. Norgren Co. Spray and blow gun. 2,804,343, 8-27-57, Cl. 299—140.
- Frieden, Alexander, and H. H. Geller, to Premier Malt Products, Inc. Stabilization of foams. 2,806,791, 9-17-57, Cl. 99—48.
- Frieder, Leonard P.: *See*—
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- Finken, Walter S. 2,802,212.
- Finken, Walter S. 2,805,419.
- Finken, Walter S. 2,813,271.
- Finken, Walter S. 2,815,508.
- Finken, Walter S., and Aileo. 2,810,022.
- Luisada, August G. 2,812,507.
- Renaud, Lawrence J. 2,788,023.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Laminated plastic assembly. 2,778,761, 1-22-57, Cl. 154—52.5.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Earphone apparatus. 2,786,102, 3-19-57, Cl. 179—156.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Laminated ballistic fabric. 2,789,076, 4-16-57, Cl. 154—52.5.
- Frieder, Leonard P., and W. S. Finken, to General Textile Mills, Inc. Arched protective inner sole. 2,803,895, 8-27-57, Cl. 36—71.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Laminated protective sole. 2,808,663, 10-8-57, Cl. 36—44.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Protective vamp. 2,808,664, 10-8-57, Cl. 36—72.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Catenary supporting cable construction. 2,808,913, 10-8-57, Cl. 189—34.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Cargo sling. 2,813,745, 11-19-57, Cl. 294—77.
- Frieder, Leonard P., and L. D. Jackson; said Jackson assor. to said Frieder. Detonator pouch. 2,813,669, 11-19-57, Cl. 224—17.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Ballistic cloth. 2,816,578, 12-17-57, Cl. 139—409.

- Friederich, Herbert: *See*—
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- Friederich, Herbert, H. Laib, and E. Henkel to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alpha-diketones. 2,789,141, 4-16-57, Cl. 260-593.
- Friederich, Herbert, and A. Hrubesch, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of carboxylic acids and their esters. 2,805,248, 9-3-57, Cl. 260-488.
- Friedkin, Morris E. Labyrinth game device. 2,806,703, 9-17-57, Cl. 273-134.
- Friedl, Reiner: *See*—
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- Friedlander, Henry Z.: *See*—
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- Friedlander, Sidney L., to Davis Products Inc. Air pump. 2,812,525, 11-12-57, Cl. 5-348.
- Friedman, Aaron, to Joe Lowe Corp. Stick holder. 2,778,670, 1-22-57, Cl. 294-87,26.
- Friedman, Aaron, D. Lurie, and S. Dale, to Joe Lowe Corp. Refrigerating tunnel. 2,808,790, 10-8-57, Cl. 107-8.
- Friedman, Allen: *See*—
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- Friedman, Alvin M. Display device. 2,814,141, 11-26-57, Cl. 40-132.
- Friedman, Andrew J. Distributor for silos. 2,788,115, 4-9-57, Cl. 198-128.
- Friedman, Arnold I., to General Electric Co. Process of settling fluorescent screens. 2,793,137, 5-21-57, Cl. 117-33.5.
- Friedman, Benjamin. Hypodermic syringe device. 2,778,359, 1-22-57, Cl. 128-218.
- Friedman, Bernard S.: *See*—
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Sanford, Robert A., and Friedman. 2,810,770.
- Friedman, Bernard, and F. E. Flores, to Tenney Engineering, Inc. Heat exchanger. 2,807,446, 9-24-57, Cl. 257-247.
- Friedman, Elliott A. Crane construction. 2,799,403, 7-16-57, Cl. 212-83.
- Friedman, Elliott A. Model airplane control device. 2,805,349, 9-3-57, Cl. 307-156.
- Friedman, George J.: *See*—
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- Friedman, Harry J. Calendar memorandum pads and holder therefor. 2,787,071, 4-2-57, Cl. 40-119.
- Friedman, Herbert. Quick-firing corona regulator tube. 2,791,716, 5-7-57, Cl. 313-197.
- Friedman, Herbert, to J. J. Maguire, d. b. a. J. J. Maguire Co. Device for measuring fiber diffraction patterns. 2,794,127, 5-28-57, Cl. 250-51.
- Friedman, Herbert, to J. J. Maguire, trading as J. J. Maguire Co. Fiber gauge for very small strands. 2,813,981, 11-19-57, Cl. 250-83.6.
- Friedman, Herbert, and M. McKeown. Geiger-Mueller counter. 2,789,242, 4-16-57, Cl. 313-93.
- Friedman, Herbert, and L. Dunkelmann. Photomultiplier tube with spectral sensitivity limited to the ultraviolet. 2,791,712, 5-7-57, Cl. 313-95.
- Friedman, Ira, to Fairchild Engine and Airplane Corp. Torque meter. 2,811,853, 11-5-57, Cl. 73-136.
- Friedman, Ira J., E. G. Martin, R. J. Taylor, and R. L. Wagner, Jr., to Chas. Pfizer & Co., Inc. Carbomycin complex and process for preparing same. 2,792,330, 5-14-57, Cl. 167-65.
- Friedman, John H., to The National Machinery Co. Stock feeding apparatus. 2,776,048, 1-1-57, Cl. 203-127.
- Friedman, John H., to The National Machinery Co. High speed nailmaker feed mechanism. 2,790,541, 4-30-57, Cl. 203-166.
- Friedman, John H., to The National Machinery Co. Nail ejector means in a nail making machine. 2,800,668, 7-30-57, Cl. 10-43.
- Friedman, John H., to The National Machinery Co. Pivotaly operated cutters in a nail making machine. 2,800,669, 7-30-57, Cl. 10-50.
- Friedman, John H., to The National Machinery Co. Nail machine. 2,800,997, 7-30-57, Cl. 203-10.
- Friedman, Max. Fastener holding device. 2,802,211, 8-13-57, Cl. 1-49.8.
- Friedman, Nathan H. Electrocardiographic contact attachment. 2,815,749, 12-10-57, Cl. 128-2,06.
- Friedman, Nathan H., and W. Andruskevich. Urinal. 2,815,511, 12-10-57, Cl. 4-110.
- Friedman, Philip and G. J. Strike plate. 2,790,668, 4-30-57, Cl. 292-341.15.
- Friedman, Robert G., to The National Machinery Co. Disc brake. 2,778,451, 1-22-57, Cl. 188-72.
- Friedman, Robert G., to The National Machinery Co. Pneumatic elevating and handling means. 2,801,884, 8-6-57, Cl. 302-2.
- Friedman, Robert G., to The National Machinery Co. Method of making hexagon socket type cup point set screw blanks. 2,813,279, 11-19-57, Cl. 10-10.
- Friedman, Robert G., to The National Machinery Co. Pneumatic transfer means. 2,815,519, 12-10-57, Cl. 10-11.
- Friedman, Samuel, to Plymouth Products Co. Self-deodorizing ash tray. 2,779,624, 1-29-57, Cl. 299-24.
- Friedmann, Alex., Kommanditgesellschaft: *See*—
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- Friedrich, Andrew E.: *See*—
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- Friedrich, Berta V. Fish lure. 2,797,522, 7-2-57, Cl. 43-44.8.
- Friedrich, Robert E., to Westinghouse Electric Corp. Circuit interrupters. 2,816,991, 12-17-57, Cl. 200-145.
- Friedrich, Wilhelm: *See*—
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- Friel, Daniel D.: *See*—
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- Friend, Dawson, to Stant Mfg. Co., Inc. Push-on type, locking gas tank cap. 2,816,433, 12-17-57, Cl. 70-169.
- Friend, Lindsay C.: *See*—
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- Fries, Bernard A.: *See*—
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- Fries & Fries, Inc.: *See*—
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- Fries, Peter, Jr.: *See*—
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- Friese, George M.: *See*—
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- Friess, Robert, K. G.: *See*—
Hortnagl, Hans. 2,801,665.
- Friggeri, Luis. Armored compressor for refrigerating equipment. 2,805,817, 9-10-57, Cl. 230-58.
- Frigo, Lino, and E. Albiero. Accordion pick-up assembly. 2,798,397, 7-9-57, Cl. 84-1,04.
- Frigstad, Rudolph S.: *See*—
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- Friis, Harald T.: *See*—
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- Friis, Robert W.: *See*—
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- Frimet, Maurice. Adjustable vehicle seat guard for passenger protection. 2,805,081, 9-3-57, Cl. 280-150.
- Frink, Russell E.: *See*—
Dickinson, Robert C., and Frink. 2,777,035.
- Frink, Russell E., to Westinghouse Electric Corp. Circuit interrupter. 2,795,675, 6-11-57, Cl. 200-147.
- Frink, Russell E., to Westinghouse Electric Corp. Circuit interrupters. 2,816,992, 12-17-57, Cl. 200-147.
- Frink, Russell E., and S. A. Bottonari, to Westinghouse Electric Corp. Circuit interrupter. 2,777,036, 1-8-57, Cl. 200-147.
- Frink, Russell E., and P. Olsson, to Westinghouse Electric Corp. Metal-clad switchgear. 2,792,461, 5-14-57, Cl. 200-50.
- Frink Sno-Plows, Inc.: *See*—
Kenyon, George W. 2,775,830.
Kenyon, George W. 2,792,650.
Kenyon, George W. 2,817,910.
- Friskie, Robert S.: *See*—
Bach, John W., Friskie, and Kubovy. 2,795,186.
- Frisch, Erling: *See*—
Baker, Benjamin P., Aspey, and Frisch. 2,788,191.
- Frisch, Franz, to Sandoz A. G. Acid monoazo dyestuffs. 2,776,959, 1-8-57, Cl. 260-162.
- Frisch, Franz, to Sandoz A. G. Monoazo dyes. 2,776,960, 1-8-57, Cl. 260-196.
- Frisch, Franz, and M. Kappeler, to Sandoz A. G. Acid monoazo dyestuffs. 2,776,962, 1-8-57, Cl. 260-198.
- Frisch, Martin, to Foster Wheeler Corp. Heat exchange apparatus. 2,801,830, 8-6-57, Cl. 257-222.
- Frisch, Maurice, to Procombur, Société pour le traitement des combustibles. Engine starting-aid system. 2,788,781, 4-16-57, Cl. 123-187.5.
- Frischer, Herman H. Production of pure chlorine. 2,793,102, 5-21-57, Cl. 23-219.
- Frisell, Ernest. Automatic grip means between telescoped members. 2,787,485, 4-2-57, Cl. 287-58.
- Frishof, Henry, to McDowell Mfg. Co. Pressure responsive grip coupling. 2,797,937, 7-2-57, Cl. 285-105.
- Fritsch, Erich, to Van Brode Milling Co., Inc. Storage battery mountings. 2,783,293, 2-26-57, Cl. 136-166.
- Fritsch, Walter: *See*—
Stranberg, Don F. 2,782,059.
- Fritsch, Werner: *See*—
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- Fritsch, Willy. Pressure cookers. 2,787,400, 4-2-57, Cl. 220-46.
- Fritsche, Carl B. Collapsible shelters and tents. 2,797,696, 7-2-57, Cl. 135-1.
- Fritsche, Carl B. Shelter construction. 2,802,478, 8-13-57, Cl. 135-1.
- Fritsche, Carl B. Hinge construction. 2,806,477, 9-17-57, Cl. 135-4.
- Fritsche, James E. Movable and adjustable floor for loading a vehicle. 2,797,828, 7-2-57, Cl. 214-83.24.
- Fritts, Robert W.: *See*—
Frederick, Russell E., Fritts, and Huck. 2,811,569.
- Fritts, Robert W., and S. Karrer, to Milwaukee Gas Specialty Co. Thermoelectric generator. 2,790,021, 4-23-57, Cl. 136-4.
- Fritts, Robert W., and S. Karrer, to Baso Inc. Electrically conductive compositions and method of manufacture thereof. 2,811,440, 10-29-57, Cl. 75-166.

- Fritts, Robert W., and S. Karrer, to Baso Inc. Electrically conductive composition and method of manufacture thereof. 2,811,441, 10-29-57, Cl. 75-166.
- Fritts, Robert W., and S. Karrer, to Baso Inc. Thermoelectric generators. 2,811,571, 10-29-57, Cl. 136-5.
- Fritts, Robert W., and S. Karrer, to Baso Inc. Electrically conductive compositions and method of manufacture thereof. 2,811,720, 10-29-57, Cl. 75-166.
- Fritts, Robert W., and S. Karrer, to Baso Inc. Electrically conductive compositions and method of manufacture thereof. 2,811,721, 10-29-57, Cl. 75-166.
- Fritz, Alfred G. Helicopter rescue seine. 2,817,860, 12-31-57, Cl. 9-14.
- Fritz, Donald R.: See—
- Zettle, Hallard, and Fritz. 2,817,825.
- Fritz, Johann A. and P. E. Boot hanger. 2,787,379, 4-2-57, Cl. 211-38.
- Fritz, Paul E.: See—
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- Fritz, Robert J., to Esso Research and Engineering Co. Prevention of coke deposits in fluid cokers. 2,793,173, 5-21-57, Cl. 202-14.
- Fritz, Robert J., L. A. Nicolai, and E. W. S. Nicholson, to Esso Research and Engineering Co. Fluid hydroforming process with inverse temperature gradient. 2,777,803, 1-15-57, Cl. 196-50.
- Fritz, Robert J., and E. W. S. Nicholson, to Esso Research and Engineering Co. Fluid adsorption char heating process. 2,793,713, 5-28-57, Cl. 183-114.2.
- Fritz, William O.: See—
- Bishop, John F., and Fritz. 2,802,189.
- Fritze, Edgar H.: See—
- Rector, John D., Fritz, and Kammerer. 2,777,981.
- Fritzinger, George H., to E. I. du Pont de Nemours and Co. Film splicing machine. 2,794,488, 6-4-57, Cl. 154-42.1.
- Fritzinger, Lloyd E. Television and radio antenna mast roof mounts and lead-in wire entrance insulators. 2,795,642, 6-11-57, Cl. 174-151.
- Fritzsche, Heinz, to VEB Braunkohlenwerk Domsdorf. Mining chain cutter. 2,810,568, 10-22-57, Cl. 262-33.
- Friz, Walter: See—
- Klein, Werner, and Friz. 2,812,469.
- Froats, Allan, to Dominion Magnesium Ltd. Flux for magnesium alloys containing zirconium. 2,797,990, 7-2-57, Cl. 75-94.
- Fröbel, Arthur, to Olympia Werke Aktiengesellschaft. Tear bar devices in business machines. 2,808,919, 10-8-57, Cl. 197-133.
- Froedtert Corp., The: See—
- Hamilton, Elmer W. 2,779,678.
- Froehlich, Kurt: See—
- Grieshaber, Emil, and Froehlich. 2,792,846.
- Froehlich, Kurt, E. Grieshaber, and M. Leichtfuss, to Nordberg Mfg. Co. Injection pump for internal combustion engines. 2,810,375, 10-22-57, Cl. 123-139.
- Froehlich, Herman C., to General Electric Co. Infrared stimulative zinc sulfide phosphor. 2,798,854, 7-9-57, Cl. 242-301.6.
- Frohberger, Paul-Ernst: See—
- Urbach, Ewald, and Frohberger. 2,785,101.
- Frohlich, Paul. Punch setting and release pliers. 2,800,815, 7-30-57, Cl. 81-3.
- Frohman, Isaac P., and N. V. Festa, to F and F Kiddie Cassette Chair Co. Immobilizer for children being X-rayed. 2,780,730, 2-5-57, Cl. 250-50.
- Frøkjær-Jensen, Axel. Method of making steel reinforcing bars for concrete structures. 2,805,470, 9-10-57, Cl. 29-155.
- Frölich, Max, to Daimler-Benz Aktiengesellschaft. Hand tool for bending the edges of sheet-metal parts. 2,783,668, 3-5-57, Cl. 81-15.
- From, Charles A., Jr., to Western Electric Co., Inc. Method of making a gage having a hard non-conducting gaging surface. 2,800,811, 7-30-57, Cl. 76-101.
- From, Mary P.: See—
- Fitch, Frederick T., and From. 2,806,763.
- Froman, Darol K.: See—
- Wilson, Volney C., Overbeck, Slotin, and Froman. 2,816,860.
- Fromandi, Guido: See—
- Schneider, Paul, and Fromandi. 2,784,167.
- Fromer, Stephen. Halogen analogs of tropine benzhydryl ether and method of preparation thereof. 2,799,680, 7-16-57, Cl. 260-294.7.
- Fromm, Ellsworth H., and R. M. Schirmer, to Phillips Petroleum Co. Prevaporizer type combustion chamber having longitudinally movable prevaporizer tube. 2,810,260, 10-22-57, Cl. 60-39.71.
- Fromm, Kenneth N., to Westinghouse Electric Corp. Means for obtaining a sensing signal for a servo-controlled color television viewing tube. 2,777,087, 1-8-57, Cl. 315-12.
- Fromm, Kenneth N., and T. Miller, to Westinghouse Electric Corp. Tricolor television picture tube. 2,795,730, 6-11-57, Cl. 315-21.
- Fromm, Marvin M.: See—
- Moses, Graham L., and Fromm. 2,809,230.
- Fromm, Marvin M., to Westinghouse Electric Corp. Conductor-ventilated generators. 2,788,456, 4-9-57, Cl. 310-64.
- Frommelt, Horace A.: See—
- See, Theodore S., and Frommelt. 2,810,189.
- Frommuller, George D., to Commonwealth Color & Chemical Co. Method of treating adhesive gums. 2,803,558, 8-20-57, Cl. 106-205.
- Frommuller, George D., and M. J. Mirra, to Commonwealth Color & Chemical Co. Synthetic hard wax. 2,798,085, 7-2-57, Cl. 260-450.
- Frosch, Carl J.: See—
- Derick, Lincoln, and Frosch. 2,802,760.
- Derick, Lincoln, and Frosch. 2,804,405.
- Frosch, Carl J., to Bell Telephone Laboratories, Inc. Manufacture of silicon carbide varistors. 2,807,856, 10-1-57, Cl. 25-156.
- Frost, Albert E.: See—
- Bersworth, Frederick C., and Frost. 2,806,060.
- Frost, Alfred C.: See—
- Wheeler, Leonard K., and Frost. 2,816,956.
- Frost, Arthur L., to Atlas Powder Co. Method of bonding fine wires to copper or copper alloys. 2,782,492, 2-26-57, Cl. 29-155.5.
- Frost, Douglas V.: See—
- Schock, Richard U., and Frost. 2,818,370.
- Frost, Edward. Variable-speed friction gears. 2,794,346, 6-4-57, Cl. 74-199.
- Frost, Elmer F., Jr.: See—
- Belk, Wilbur C., and Frost. 2,780,988.
- Frost, Elmer F., Jr., to Food Machinery and Chemical Corp. Apparatus for transforming rotary motion to reciprocating motion. 2,806,378, 9-17-57, Cl. 74-37.
- Frost, Eugene C.: See—
- Hawkins, Willis M., Jr., and Frost. 2,807,429.
- Frost, Frank E.: See—
- Shaw, Edwin C., and Frost. 2,805,087.
- Frost, Frederick H., and R. E. Lane, to S. D. Warren Co. Method for cast calendaring supercalendered coated paper. 2,780,563, 2-5-57, Cl. 117-64.
- Frost, Gustave, to Andrew Geller, Inc. Pre-breasted heel. 2,782,433, 2-26-57, Cl. 12-142.
- Frost, Lawrence W., G. C. Gainer, and D. W. Lewis, to Westinghouse Electric Corp. Double substituted-arylmethyl silicon compounds. 2,802,017, 8-6-57, Cl. 260-448.2.
- Frost, Louis E., and G. J. Matey, to North American Aviation, Inc. Router lubrication arrangement. 2,780,966, 2-12-57, Cl. 90-12.
- Frost, Marvin D.: See—
- Spurlino, Pascal, Hull, and Frost. 2,805,821.
- Frost, Robert M. Convertible range. 2,798,930, 7-9-57, Cl. 219-35.
- Frostick, Frederick C., Jr.: See—
- Phillips, Benjamin, and Frostick. 2,779,771.
- Phillips, Benjamin, Frostick, and Starcher. 2,804,473.
- Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide and Carbon Corp. Diepoxides of cycloaliphatic esters of monoethylenically unsaturated fatty acids. 2,786,066, 3-19-57, Cl. 260-348.
- Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide and Carbon Corp. Triepoxides and process for making the same. 2,786,067, 3-19-57, Cl. 260-348.
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- Frothingham, Donald McL., Darien, Conn., assor., by mesne assigns., to Barnes Engineering Co. Data conversion system. 2,805,374, 9-3-57, Cl. 318-33.
- Frudden, Conrad E., to Allis-Chalmers Mfg. Co. Cotton picking spindle and slat assembly. 2,785,523, 3-19-57, Cl. 56-42.
- Fruehauf Trailer Co.: See—
- Bernstein, Robert. 2,796,185.
- Levitt, Semon. 2,791,463.
- Fruendt, Adel J. Automatic explosively operated actuating mechanism. 2,801,026, 7-30-57, Cl. 222-3.
- Fruengel, Frank. Method and system for checking the position of fishing nets. 2,789,382, 4-23-57, Cl. 43-4.5.
- Fruengel, Frank. Method and device for high-frequency soldering and induction hardening. 2,799,760, 7-16-57, Cl. 219-10.75.
- Fruengel, Frank. Velocity-dependent measuring and control systems. 2,813,230, 11-12-57, Cl. 317-130.
- Fruit Equipment Service: See—
- Curtis, James B., and Hostetler. 2,812,137.
- Fruit Industries Research Foundation: See—
- Carlsen, Earl W., and Hunter. 2,797,540.
- Fruit Machinery Co.: See—
- McClelland, Etheridge R. 2,786,562.
- Fruscelli, Eugene M., to The New Britain Machine Co. Angularly adjustable, reversible ratchet wrench. 2,800,821, 7-30-57, Cl. 81-60.
- Fry, Alan D., to Fry Reglet Corp. Flashing reglet assembly. 2,807,222, 9-24-57, Cl. 108-26.
- Fry, Ben L. Lighting fixture for carrying a plurality of fluorescent lights. 2,814,721, 11-26-57, Cl. 240-51.12.
- Fry, Benjamin W., to National Vendors, Inc. Coin mechanism. 2,779,449, 1-29-57, Cl. 194-9.
- Fry, Charles H. Means for forming a hollow contractile ring. 2,801,897, 8-6-57, Cl. 18-41.
- Fry, Francis J. and W. J., to the United States of America as represented by the Secretary of the Navy. Variable frequency transducer. 2,802,196, 8-6-57, Cl. 340-10.

- Fry, George H., Jr., to General Electric Co. Long period pendulum for navigation control system. 2,803,887, 8-27-57, Cl. 33—215.
- Fry, Horace P., Jr., to American Viscose Corp. Drying roll. 2,792,642, 5-21-57, Cl. 34—124.
- Fry, Merle A. Power driven surf board. 2,812,736, 11-12-57, Cl. 114—124.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,790,056, 4-23-57, Cl. 219—20.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,790,886, 4-30-57, Cl. 219—35.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,792,486, 5-14-57, Cl. 219—37.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,798,144, 7-2-57, Cl. 219—44.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,811,627, 10-29-57, Cl. 219—20.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,816,999, 12-17-57, Cl. 219—20.
- Fry, Millard E., and F. H. McCormick, to General Motors Corp. Domestic appliance. 2,816,998, 12-17-57, Cl. 219—20.
- Fry Beglet Corp.: *See—*
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- Fry, Stanley S., to Pansteel Metallurgical Corp. Rectifier. 2,783,419, 2-26-57, Cl. 317—241.
- Fry, William J.: *See—*
Fry, Francis J. and W. J. 2,802,196.
- Fryda, Paul A., to Industries for the Blind, Inc. Scraper having a detachable blade. 2,792,584, 5-21-57, Cl. 15—236.
- Frydryk, John T., to Chicopee Mfg. Corp. Tension screen. 2,797,748, 7-2-57, Cl. 160—328.
- Frye, Cecil L., to Dow Corning Corp. Organosilicon compounds a method for water-proofing glass and product produced thereby. 2,814,572, 11-26-57, Cl. 117—124.
- Frye, Frederick C., 1/2 to J. J. Glasgow. Door detent unit. 2,793,891, 5-28-57, Cl. 292—18.
- Frye, Reinhold A. Knockdown structure. 2,780,484, 2-5-57, Cl. 287—54.
- Frye, Richard L.: *See—*
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- Frye, William L. Wire stripping tool. 2,787,177, 4-2-57, Cl. 81—95.
- Fryer, Edward R., to General Motors Corp. Offset cutting edge for scrapers. 2,778,129, 1-22-57, Cl. 37—141.
- Fryer, Edward R., and W. J. Adams, to General Motors Corp. Pusher bumper for lever type scraper. 2,788,999, 4-16-57, Cl. 293—88.
- Fryer, James J., and C. T. Cronin, Jr. Rubber tire trimming tool. 2,807,877, 10-1-57, Cl. 30—280.
- Fryklund, Donald H., to Gulton Industries, Inc. Microphone. 2,778,881, 1-22-57, Cl. 179—110.
- Fryklund, Robert A., to Raytheon Mfg. Co. Depth sounder recorders. 2,801,148, 7-30-57, Cl. 346—74.
- Fryklund, Robert A., to Raytheon Mfg. Co. Three-dimensional position-indicating systems. 2,806,216, 9-10-57, Cl. 340—3.
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- Frykman, Eugene B., to Western Electric Co., Inc. Power operated screw-holding screw drivers. 2,794,462, 6-4-57, Cl. 144—66.
- Fryling, Charles F.: *See—*
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- Fubini, Eugene G., to Airborne Instruments Laboratory, Inc. Microwave circuits. 2,799,831, 7-16-57, Cl. 33—34.
- Fubini, Eugene G., and H. S. Keen, to Airborne Instruments Laboratory, Inc. Trough waveguide to coaxial-line transformation. 2,799,830, 7-16-57, Cl. 333—24.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Flexible mandrels for bending wave guides. 2,778,402, 1-22-57, Cl. 153—63.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Methods and apparatus for bending wave guide tubing. 2,792,048, 5-14-57, Cl. 153—40.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Centering device for rectangular wave guides. 2,804,787, 9-3-57, Cl. 77—62.
- Fuchs, Francis J., Jr., and G. Nevreinian, to Western Electric Co., Inc. Apparatus for flaring wave guides. 2,800,943, 7-30-57, Cl. 153—3.
- Fuchs, Gerhard, to Hilgers Maschinen- und Apparate-Bauanstalt mit beschränkter Haftung. Centralized lubrication for hydraulically driven machines. 2,776,728, 1-8-57, Cl. 184—6.
- Fuchs, Harry. Method and means for actuating a rotatable element. 2,785,323, 3-12-57, Cl. 310—22.
- Fuchs, Henry O.: *See—*
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- Fuchs, Martin: *See—*
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- Fuchs, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning. Acrylonitrile polymer pastes. 2,801,982, 8-6-57, Cl. 260—29.1.
- Fuchs, Otto, and H. Elsner, to Dynamit-Aktion-Gesellschaft vormals Alfred Nobel & Co. Halogen-containing vinyl polymers stabilized with a metal salt of a semi-ester or semi-amide of a 1,2-ethylene dicarboxylic acid. 2,795,570, 6-11-57, Cl. 260—45.75.
- Fuchs, Theodore, to I. M. Fixman and T. W. Butler, d. b. a. Hub Electric Co. Switchboard. 2,778,957, 1-22-57, Cl. 307—112.
- Fuchs, Werner: *See—*
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- Fučík, Karel, to Spofa, United Pharmaceutical Works, National Corp. Method of manufacture of the biologically active coumarine derivatives. 2,811,534, 10-29-57, Cl. 260—343.2.
- Fučík, Karel, and M. Horický, to Spofa, spojene farmaceutické závody. Chromonyl-3-(4-hydroxycoumarinyl-3)-methane. 2,789,937, 4-23-57, Cl. 167—46.
- Fučík, Karel, and J. Šarhan, to Spofa Spojené farmaceutické závody Národní podnik. 1-(4-hydroxy coumarinyl-3)-1-(2-hydroxy chromoyl-3)-2-(8-alkyl thio)-ethans and method of producing same. 2,804,465, 8-27-57, Cl. 260—343.2.
- Fučík, Karel, M. U. Prahy, and Z. Prochazka. Process for making esters of bis(4-hydroxycoumarin-3-yl) acetic acid. 2,810,730, 10-22-57, Cl. 260—343.2.
- Fudala, Paul. Cleaner roller for printing presses. 2,810,344, 10-22-57, Cl. 101—425.
- Fudge, Robert J. Shingling gauges. 2,794,261, 6-4-57, Cl. 33—188.
- Fuehrer, George H., to Thor Power Tool Co. Automatic water valve for rock drills. 2,777,424, 1-15-57, Cl. 121—10.
- Fuehrer, George H., to Independent Pneumatic Tool Co. Drilling apparatus. 2,777,671, 1-15-57, Cl. 255—51.
- Fuell, Frederick J.: *See—*
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- Fuente, Benjamin: *See—*
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- Fuerst, Andor: *See—*
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- Fugate, Wesley O.: *See—*
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- Fuge, Harry B., to The Singer Mfg. Co. Electric clutch-brake motor. Re. 24,371, 10-8-57, Cl. 192—18.
- Fugelsteth, Gunnar. Needle threader. 2,807,397, 9-24-57, Cl. 223—99.
- Fuglie, Elmer A., and C. A. Weinmann, to Winona Tool Mfg. Co. Carrier cart provided with stair climbing endless treads. 2,793,868, 5-28-57, Cl. 280—5.22.
- Fuhrmann, Wilhelm, to Mannesmann Aktiengesellschaft. Apparatus for manufacturing tubes. 2,789,333, 4-23-57, Cl. 25—30.
- Fujimaki, Itsuo: *See—*
Yabuta, Teijiro, Ikeda, Shiroyanagi, Fujimaki, and Katayama. 2,803,650.
- Fujikawa, Gyo. Picture frame. 2,814,896, 12-3-57, Cl. 40—155.
- Fujisaki, Yoshisato, and T. Takemoto, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing acrylonitrile. 2,778,847, 1-22-57, Cl. 260—465.3.
- Fujitani, Shiro. Attachment for cooking stoves. 2,797,298, 6-25-57, Cl. 219—43.
- Fukuda, Kazumi: *See—*
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- Fulford Mfg. Co.: *See—*
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- Fulham, Lawrence F. Manually turnable wheels. 2,812,412, 11-5-57, Cl. 219—19.
- Fulk, Walter F., to Owens-Corning Fiberglass Corp. Method and apparatus for making foliated glass. 2,780,889, 2-12-57, Cl. 49—1.
- Fuller, Allen R., to A. E. Staley Mfg. Co. Liquid laundry starch. 2,796,354, 6-18-57, Cl. 106—213.
- Fuller, Bradley, and E. H. Winslow, to United Shoe Machinery Corp. Machines for operating upon shoes. 2,796,036, 6-18-57, Cl. 112—258.
- Fuller Brush Co., The: *See—*
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- Fuller, Calvin S.: *See—*
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- Fuller, Calvin S., to Bell Telephone Laboratories, Inc. Method of fabricating semiconductor-bodies translating devices. 2,784,121, 3-5-57, Cl. 148—1.5.
- Fuller, Calvin S., to Bell Telephone Laboratories, Inc. Fabrication of semiconductor devices. 2,794,846, 6-4-57, Cl. 136—89.
- Fuller, Carl W., Jr.: *See—*
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- Fuller, Chester A., to Westinghouse Air Brake Co. Flange union fitting with gland expandible into an opening. 2,812,959, 11-12-57, Cl. 285—159.
- Fuller Co.: *See—*
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Sayre, Howard S. 2,813,758.
Weller, Leo G. 2,795,463.
- Fuller, David H., to The Foxboro Co. Flow alarm. 2,808,580, 10-1-57, Cl. 340—239.
- Fuller, Eric R. A., 1/2 to The General Fire Appliance Co. Ltd. Nozzle for producing spray and mist. 2,797,134, 6-25-57, Cl. 299—136.
- Fuller, Floyd E.: *See—*
Colliver, Ottis M., and Fuller. 2,794,313.
- Fuller, Frank I., and M. C. Swezy, to Western Progress, Inc. Signaling device. 2,781,017, 2-12-57, Cl. 116—63.
- Fuller, Glenn: *See—*
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- Fuller, Glenwood A., and R. Ullman, to A M P Inc. Electrical connectors, method and apparatus. 2,816,276, 12-10-57, Cl. 339-276.
- Fuller, John E., Jr., to American Instrument Co., Inc. Thermostatic regulator. 2,776,354, 1-1-57, Cl. 200-141.
- Fuller, Joseph C., to California Research Corp. Heat exchanger tube reamer. 2,803,842, 8-27-57, Cl. 15-104.1.
- Fuller Label & Box Co.: See—
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- Fuller, Leon B., to Jones and Lamson Machine Co. Wide range optical projection contour inspection system. 2,799,206, 7-16-57, Cl. 88-24.
- Fuller, Leon B., and P. N. Welch, to Jones and Lamson Machine Co. Circle tolerance gauge for optical comparators. 2,780,956, 2-12-57, Cl. 88-24.
- Fuller, Mack F., to E. I. du Pont de Nemours and Co. Process for blowing plastisols using N,N'-dinitro-N,N'-dimethyl terephthalamide as the blowing agent. 2,776,265, 1-1-57, Cl. 260-25.
- Fuller Mfg. Co.: See—
Perkins, Charles M. 2,775,901.
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- Fuller, Norman C., to The Standard Oil Co. Oil skimming device. 2,778,500, 1-22-57, Cl. 210-51.
- Fuller, Revilo, and J. O. Lair, to Fullerform, Inc. Ditching machine. 2,782,535, 2-26-57, Cl. 37-97.
- Fuller, Robert C., and T. F. Valentine, to Chesebrough Mfg. Co. Consolidated. Container and applicator for semi-solid substances. 2,816,654, 12-17-57, Cl. 206-56.
- Fuller, Rufus W., and R. A. Cole, to Production Machine Co. Traverse control means for centerless grinders and polishers. 2,807,917, 10-1-57, Cl. 51-103.
- Fuller, Stanley A.: See—
Finley, John E., and Fuller. 2,789,360.
- Fuller, W. P., & Co.: See—
Klaar, Max. 2,816,303.
- Fuller, William D., to Engineering Laboratories, Inc. Multiple pulse generator. 2,786,942, 3-26-57, Cl. 250-36.
- Fullerform, Inc.: See—
Fuller, Ravilo, and Lair. 2,782,535.
- Fullerton, Dollie E. Sanitary pad holder. 2,798,490, 7-9-57, Cl. 128-290.
- Fullerton Mfg. Co.: See—
Paizo, Rudolph. 2,809,387.
- Fullerton, Thomas J.: See—
Wognum, James N., Fullerton, and Ahern. 2,807,997.
- Fullerton, Thomas J., to Acme Steel Co. Automatic strip coiler. 2,786,638, 3-26-57, Cl. 242-80.
- Fullerton, Thomas J., and R. A. Rosenblum, to Acme Steel Co. Coil unreeler. 2,777,647, 1-15-57, Cl. 242-105.
- Fullwood, Edward F., to Air Reduction Co., Inc. Multiple valves. 2,783,775, 3-5-57, Cl. 137-622.5.
- Fullwood, Edward F., and J. Philippi, to Air Reduction Co., Inc. Surgical operating table with hydraulic actuating means. 2,794,694, 6-4-57, Cl. 311-7.
- Fulmer, Norman C. Loud-speaker system. 2,787,332, 4-2-57, Cl. 181-31.
- Fulmer, Norman C., to Allen B. Du Mont Laboratories, Inc. Shielding ground strip for printed circuits. 2,788,471, 4-9-57, Cl. 317-101.
- Fulmer, Norman C., to Allen B. Du Mont Laboratories, Inc. Electrical insulator. 2,790,024, 4-23-57, Cl. 174-151.
- Fulmer, Norman C., to Allen B. Du Mont Laboratories, Inc. Electron multiplier. 2,807,741, 9-24-57, Cl. 313-105.
- Fulmer, Norman C. Soldering tool. 2,814,712, 11-26-57, Cl. 219-26.
- Fulmer Research Institute Ltd.: See—
Brandes, Eric A. 2,810,182.
Brandes, Eric A., and Waterhouse. 2,781,636.
Gross, Philipp, and Levi. 2,785,973.
- Fulper, John H., to Kewanee Machinery & Conveyor Co. Combination belt drive interrupting mechanism with belt gripping means. 2,784,607, 3-12-57, Cl. 74-242.14.
- Fulper, John H., to Kewanee Machinery & Conveyor Co. Counterbalance mechanism for tilting hopper conveyor. 2,793,735, 5-28-57, Cl. 198-98.
- Fulper, John H., H. E. Cooper, and R. L. Glidden, to Kewanee Machinery & Conveyor Co. Auxiliary support and disk for disk harrow gangs. 2,818,008, 12-31-57, Cl. 97-220.
- Fulton Co., The: See—
Knop, James C., and Mitchell. 2,799,921.
- Fults, Elmer H.: See—
Bonewitz, Paul W., Edwards, Fults, and Hockett. 2,804,432.
- Fultz, Palmer: See—
Raymond, Thomas E. 2,786,424.
- Fund-Del, Inc.: See—
Will, Theodore. 2,784,838.
Will, Theodore. 2,789,752.
Will, Theodore. 2,800,240.
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- Funderburgh, Daryl E.: See—
Reedall, Allen R. 2,814,904.
- Funderwhite, Charles. Attachment for oil burners. 2,801,646, 8-6-57, Cl. 137-625.46.
- Funk, Chester S.: See—
Martin, John B., and Funk. 2,803,557.
- Funk, Oscar: See—
Peiffer, Alfred M., Roeder, and Funk. 2,784,795.
- Funk, Truman B., to Yard-Man, Inc. Handle operated clutch actuator for lawn mowers. 2,791,079, 5-7-57, Cl. 56-25.4.
- Funk, William H., G. L. Snyder, and R. E. White, to Lukens Steel Co. Rotating double shell heat exchange drum means and method of operating same. 2,797,899, 7-2-57, Cl. 257-95.
- Funke, Carl. Sealing device. 2,801,450, 8-6-57, Cl. 20-69.
- Funke, Emil: See—
Peddinghaus, Werner, and Funke. 2,818,114.
- Fuqua, Lloyd T.: See—
Barcus, Edward L., Falge, and Fuqua. 2,800,542.
- Fuqua, Lloyd T., and H. C. Doane, to General Motors Corp. Headlight control. 2,791,721, 5-7-57, Cl. 315-82.
- Fuqua, Mack C., and G. P. Hammer, to Esso Research and Engineering Co. Al Cs catalyzed polymerization of clay-pre-treated naphthas. 2,779,750, 1-29-57, Cl. 260-82.
- Furby, Neal W., J. M. Stokely, and E. G. Foehr, to California Research Corp. Jet turbine lubricant. 2,801,968, 8-6-57, Cl. 252-32.5.
- Furczyk, Alfons A., to Selas Corp. of America. Mixing type gas burner. 2,788,848, 4-16-57, Cl. 158-106.
- Furedi, Colman, 1/2 to L. Altman. Pouring stopper. 2,808,182, 10-1-57, Cl. 222-479.
- Furey, Lawrence M., to the United States of America as represented by the Secretary of the Army. Continuous multiple-section envelope assembly. 2,776,085, 1-1-57, Cl. 229-69.
- Furey, Michael J.: See—
Westlund, Roy A., Jr., and Furey. 2,816,842.
- Furlow, William M., and L. J. Worrell, Jr., to Melpar, Inc. Strip transmission line switch. 2,814,022, 11-19-57, Cl. 333-97.
- Furman, Frank J., and H. J. Kistner, to International Business Machines Corp. Wire printer. 2,785,628, 3-19-57, Cl. 101-93.
- Furman, Frank J., H. J. Kistner, and H. L. Read, to International Business Machines Corp. Record sorting mechanism. 2,785,800, 3-19-57, Cl. 209-110.
- Furman, Nathaniel H., and R. J. Mundy, to the United States of America as represented by the United States Atomic Energy Commission. Extraction of uranyl nitrate from aqueous solutions. 2,816,005, 12-10-57, Cl. 23-14.5.
- Furnari, Paul. Attachment for underwater harpoon guns. 2,778,139, 1-22-57, Cl. 43-6.
- Furnas Electric Co.: See—
Hansen, Gilbert H. 2,790,869.
Hansen, Gilbert H. 2,790,870.
White, Paul F. 2,814,681.
Wilcox, Dale F. 2,790,860.
- Furness, William H., to Copper Research. Method of making stable cupric hydroxide. Re. 24,324, 5-28-57, Cl. 23-147.
- Furness, William H. Apparatus and method for continuous processing of rayon filaments. 2,793,931, 5-28-57, Cl. 8-151.1.
- Furnish, Arthur H. Electrical outlet box. 2,798,630, 7-9-57, Cl. 220-3.6.
- Furniss, Loree E., to The Buckeye Steel Castings Co. Striker and carrier for railway couplers. 2,779,481, 1-29-57, Cl. 213-61.
- Furniss, Loree E., to The Buckeye Steel Castings Co. Carrier for railway couplers. 2,779,482, 1-29-57, Cl. 213-61.
- Furniss, Loree E., to The Buckeye Steel Castings Co. Carrier assembly for railway couplers. 2,779,483, 1-29-57, Cl. 213-61.
- Furr, Beecher Z., R. C. Furr, and M. O. Harrill, Jr. Foot tool. 2,779,262, 1-29-57, Cl. 97-61.
- Furr, Grover C., to Burlington Industries, Inc. Stretch stocking. 2,795,944, 6-18-57, Cl. 66-172.
- Furr, Robert C.: See—
Furr, Beecher Z., and R. C., and Harrill. 2,779,262.
- Furrer, John R., to ACF Industries Inc. Suspension for light weight vehicles. 2,781,731, 2-19-57, Cl. 105-210.
- Furrer, John R., to ACF Industries, Inc. Reversible suspension for railway cars. 2,785,640, 3-19-57, Cl. 105-4.
- Furst, Stefan: See—
Reiners, Walter, and Furst. 2,800,287.
- Furst, Stefan M., to W. Reiners. Actuation control arrangement for winding machines. 2,783,950, 3-5-57, Cl. 242-35.5.
- Furst, Stefan. Winding terminating apparatus for winding machines. 2,791,384, 5-7-57, Cl. 242-39.
- Furst, Stefan, to Reiners & Furst. Apparatus for beading traveler split rings. 2,791,874, 5-14-57, Cl. 53-197.
- Furst, Stefan, to Dr. I. W. Reiners. Cutting device for winding machines. 2,797,053, 6-25-57, Cl. 242-35.6.
- Furstenberg, Joachim, to Pneumafil Corp. Telescopic suction tubes. 2,782,589, 2-26-57, Cl. 57-34.5.
- Furtak, Thaddeus T.: See—
Winters, Robert W., Gray, and Furtak. 2,779,832.
- Furukawa Electric Co., Ltd.: See—
Anazawa, Kenji, and Tsuruta. 2,777,756.
- Furukawa Mining Co., Ltd.: See—
Anazawa, Kenji, and Tsuruta. 2,777,756.
- Fuschi, Antonio T. Tractor-trailer king-pin lock safety means. 2,811,374, 10-29-57, Cl. 280-432.
- Fusco, Victor C., and R. C. Harshman, to Olin Mathieson Chemical Corp. Soap composition. 2,813,112, 11-12-57, Cl. 260-398.5.
- Fuson, T. J., to Esso Research and Engineering Co. Apparatus for removal of fluid from well bores. 2,804,150, 8-27-57, Cl. 166-63.

- Fuson, T. J., and W. M. O'Reilly, to Esso Research and Engineering Co. Tool for removal of fluid from well bores. 2,776,715, 1-8-57, Cl. 166-63.
- Fussell, Lewis, Jr.: *See*—
Colson, Edward A., and Fussell. 2,815,453.
- Fussman, Frederick, to Blaw-Knox Co. Cold recovery absorption system. 2,781,862, 2-19-57, Cl. 138-114.
- Fuston, Howard L. Roller cam. 2,808,477, 10-1-57, Cl. 200-21.
- Futran, Herbert S. Portable shower stall. 2,809,379, 10-15-57, Cl. 4-149.
- Futrell, Dennis B. Reaction type lawn sprinkler. 2,787,498, 4-2-57, Cl. 299-69.
- Futterer, William H. Humming yo-yo. 2,786,302, 3-26-57, Cl. 46-61.
- Fybradown Corp., The: *See*—
Maltenfort, Martin S. 2,809,400.
- Fyffe, Robert J.: *See*—
Marcy, Henry T., and Fyffe. 2,784,550.
- Fyler, George W., to Motorola, Inc. Automatic gain control. Re. 24,336, 7-16-57, Cl. 178-7.5.
- Fyler, George W., to Motorola, Inc. Television receiver. 2,781,475, 2-12-57, Cl. 315-27.
- Fyr-Fyter Co., The: *See*—
Allen, Frank B. 2,776,717.
Allen, Frank B. 2,781,101.
Allen, Frank B., and Haessler. 2,807,281.
Harris, Wilbert L. 2,780,295.
Somers, Charles H. 2,796,940.
- Fyrlarm Co., Inc.: *See*—
Messick, Willard C. 2,774,416.
- Fytelson, Milton: *See*—
Siegal, Alfred, and Fytelson. 2,791,513.
- G & A Laboratories, Inc.: *See*—
Morin, Richard D., and Sharpe. 2,797,211.
- G. M. E. Corp.: *See*—
Greer, Edward M., and Mercier. 2,791,455.
- G-M Laboratories, Inc.: *See*—
Kitto, William H., and Burian. 2,782,452.
McMaster, Archie J., Kitto, and Burian. 2,785,424.
- G. N. B. D. Patent Holdings Ltd.: *See*—
Chapman, John H., and Wyman. 2,806,849.
Elks, Joseph, and Philipps. 2,808,406.
Long, Alan G., and Hunt. 2,818,414.
Nicholls, Ralph J. 2,797,230.
Walker, Thomas, and Oughton. 2,814,630.
- G-V Controls Inc.: *See*—
Broekhuysen, William C. 2,809,253.
Geer, Charles D. 2,798,134.
- G & W Electric Specialty Co.: *See*—
Nicholas, James H. 2,790,842.
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- G & W Mfg. Co., Inc.: *See*—
Browning, George G. 2,788,701.
- G & W Tool Co.: *See*—
Wagner, Lawrence R. 2,785,713.
- Gaafar, Abdel-Rahman K. Tag fastener. 2,810,176, 10-22-57, Cl. 24-237.
- Gabb, John E., and A. S. Lucking, to The British Overseas Airways Corp. Respiratory masks. 2,814,293, 11-26-57, Cl. 128-146.
- Gabbett, James F., Jr.: *See*—
Steadman, Thomas R., and Gabbett. 2,780,639.
Steadman, Thomas R., and Gabbett. 2,810,764.
- Gabbett, James F., Jr., to Escambia Chemical Corp. Production of crotonaldehyde. 2,810,760, 10-22-57, Cl. 260-601.
- Gabbett, James F., Jr., and N. C. Robertson, to Escambia Chemical Corp. Production of acrylonitrile. 2,780,640, 2-5-57, Cl. 260-465.3.
- Gabbett, James F., Jr., and T. R. Steadman, to Escambia Chemical Corp. Production of acrylonitrile. 2,805,244, 9-3-57, Cl. 260-465.3.
- Gabbrielli, Ernesto. Vacuum tube getter body material. 2,771,485, 1-22-57, Cl. 206-0.4.
- Gabler, Rudolf, to Inventa A-G. fuer Forschung und Patentverwertung Luzern. Filament stretching apparatus. 2,778,058, 1-22-57, Cl. 18-8.
- Gabler, Rudolf, to Inventa A. G. fuer Forschung und Patentverwertung. Process for raising the melting point of poly-ε-caprolactam filaments, threads and yarns by treatment with gaseous formaldehyde and products produced thereby. 2,786,732, 3-26-57, Cl. 8-115.5.
- Gabor, Dennis, to National Research Development Corp. Cathode ray tube. 2,795,729, 6-11-57, Cl. 315-13.
- Gabor, William D., to C. G. S. Laboratories, Inc. Controllable inductor oscillator with bridge control circuit. 2,777,955, 1-15-57, Cl. 250-36.
- Gabor, William D., to C. G. S. Laboratories, Inc. Stabilized oscillator circuit. 2,811,642, 10-29-57, Cl. 250-36.
- Gabor, William D., to C. G. S. Laboratories, Inc. Sweep generator. 2,813,975, 11-19-57, Cl. 250-36.
- Gabriel, Adam F., and A. G. Kozacka, to Acme Industrial Co. Non-rotating collet actuator. 2,782,044, 2-19-57, Cl. 279-4.
- Gabriel Co., The: *See*—
Chu, Lan J. 2,778,015.
Chu, Lan J. 2,778,016.
Patriquin, William G. 2,783,859.
Rowland, Howard J. 2,778,014.
Whisler, Ralph H., Jr. 2,788,092.
- Gabriel, Daniel. Physician's service kit. 2,801,738, 8-6-57, Cl. 206-12.
- Gabrielsen, Christian: *See*—
Shepard, Francis H., Jr., and Gabrielsen. 2,808,918.
- Gabrielsen, Christian, to Rowe Mfg. Co., Inc. Empty signal for columnar merchandising machines. 2,784,871, 3-12-57, Cl. 221-6.
- Gabrielsen, Christian, to Rowe Mfg. Co., Inc. Change maker. 2,796,876, 6-25-57, Cl. 133-2.
- Gabrielsen, Christian, and H. Vorperian, to Rowe Mfg. Co., Inc. Manual console cigarette merchandising machine. 2,808,961, 10-8-57, Cl. 221-14.
- Gabrielson, Samuel, to General Electric Co. Instrument caging arrangements. 2,787,908, 4-9-57, Cl. 74-5.1.
- Gabrielson, Samuel, to General Electric Co. Gyroscope caging mechanism. 2,808,727, 10-8-57, Cl. 74-5.1.
- Gabrykewicz, Theodore J.: *See*—
Tommaney, Joseph W., Kilian, and Gabrykewicz. 2,814,172.
- Gach, Robert L.: *See*—
Smith, George F. 2,805,636.
- Gacht, Steven. Plug and socket means for connecting table tops together. 2,783,107, 2-26-57, Cl. 311-4.
- Gadbois, Lewis F., to W. H. Miner, Inc. Draft gears for railway draft riggings. 2,812,073, 11-5-57, Cl. 213-45.
- Gadden, Edward C. Adjustable stereotype chase. 2,779,274, 1-29-57, Cl. 101-392.
- Gaddini, Norman E. Fruit halving and pitting machine. 2,808,863, 10-8-57, Cl. 146-28.
- Gaddis, Gene R., to Minneapolis-Honeywell Regulator Co. Temperature control with night set-back. 2,778,571, 1-22-57, Cl. 236-46.
- Gaddis, Gene T.: *See*—
Crysler, John B., Gaddis, and Hallanger. 2,788,941.
- Gaebler, Gustav A. Spring systems. 2,805,854, 9-10-57, Cl. 267-64.
- Gaertner, Max E. Tube closure. 2,791,358, 5-7-57, Cl. 222-553.
- Gaertner, Richard. Dough mixer. 2,812,927, 11-12-57, Cl. 259-88.
- Gaertner, Van R.: *See*—
Jaworski, Ernest G., and Gaertner. 2,818,367.
- Gaertner, Van R., to Monsanto Chemical Co. Surface-active agents. 2,799,702, 7-16-57, Cl. 260-513.
- Gaertner, Van R., to Monsanto Chemical Co. Plant growth regulant. 2,802,027, 8-6-57, Cl. 260-505.
- Gaertner, Van R., to Monsanto Chemical Co. Sodium 3-(2-benzothiazolyl mercapto)-1-propane sulfonate. 2,809,973, 10-15-57, Cl. 260-306.
- Gaertner, Van R., to Monsanto Chemical Co. Sulfonium sulfonates. 2,813,898, 11-19-57, Cl. 260-505.
- Gaffney, Francis W.: *See*—
Two, Joseph A. 2,804,946.
- Gaffney, William N., and T. L. Weaver. Pogo stick. 2,783,997, 3-5-57, Cl. 272-57.
- Gagarine, Dmitry M., and H. Repokis, to Dan River Mills, Inc. Acetylene diurea-formaldehyde reaction product and treatment of textiles therewith. 2,803,564, 8-20-57, Cl. 117-139.4.
- Gage, Arthur G. Retrievable well pumps. 2,802,423, 8-13-57, Cl. 103-46.
- Gage, Edwin G., to Gilbertville Woven Label Corp. Automatic loader. 2,779,413, 1-29-57, Cl. 164-61.
- Gage, Franklin A., to Sonotone Corp. Wearable hearing aid with a common casing for amplifier and batteries. 2,789,160, 4-16-57, Cl. 179-107.
- Gage, Robert C.: *See*—
Kimble, Kenneth G., Gage, and Grevengoed. 2,783,774.
- Gage, Robert M., to Union Carbide Corp. Arc torch interruption. 2,802,093, 8-6-57, Cl. 219-130.
- Gage, Robert M., to Union Carbide Corp. Arc torch and process. 2,806,124, 9-10-57, Cl. 219-121.
- Gage, Robert W. Safety grounding device. 2,786,092, 3-19-57, Cl. 174-5.
- Gager, Romuald: *See*—
Leb, Anton, Lidl, Gager, Muntean, Schauenstein, Keintzel, and Bolz. 2,801,203.
- Gaggioli, Giuliano. Head of fishing spear. 2,795,882, 6-18-57, Cl. 43-6.
- Gagliano, Louis J.: *See*—
Van Wirt, Alfred E., Gagliano, and Shonnard. 2,788,259.
- Gagnan, Emile. Shear plate for dry shavers. 2,783,534, 3-5-57, Cl. 30-43.
- Gagnan, Emile, to La Spirotechnique. Breathing apparatus for diving. 2,792,831, 5-21-57, Cl. 128-142.
- Gagne, Francois W.: *See*—
Julian, Charles N., Gagne, and Gostyn. 2,795,700.
- Gagnon, Louis F.: *See*—
Bourque, Edmond A., and Gagnon. 2,792,083.
- Gagon, Roland E.: *See*—
Krauszer, Adam, and Gagon. 2,788,667.
- Gahler, Edgar E. Belt tightening drive control means for tractor. 2,785,762, 3-19-57, Cl. 180-27.
- Gaidos, Alonzo F. Bolt mechanism for firearm. 2,775,835, 1-1-57, Cl. 42-16.
- Gaidos, Alonzo F. Gunsight. 2,785,465, 3-19-57, Cl. 33-56.
- Gaidos, Alonzo F. Breech mechanism for a rifle. 2,795,171, 6-11-57, Cl. 89-187.
- Gail, William A.: *See*—
Westcott, William B., Jr., and Gail. 2,811,136.
- Gailliot, Paul, and J. Gaudechon, to Societe des Usines Chimiques Rhone-Poulenc. Novel phenothiazine derivatives. 2,809,968, 10-15-57, Cl. 260-243.

- Gailliot, Paul, and J. Robert, to Societe des Usines Chimiques Rhone-Poulenc. Iminodibenzyl compounds. 2,811,520, 10-29-57, Cl. 260-239.
- Gaiman, Walter D. Distributor for soil conditioning compounds. 2,792,970, 5-21-57, Cl. 222-164.
- Gainer, Gordon D.: See—
Frost, Lawrence W., Gainer, and Lewis. 2,802,017.
- Gainer, Gordon C. to Westinghouse Electric Corp. Lubricants comprising silicone fluids. 2,809,207, 10-8-57, Cl. 260-448.2.
- Gaines, Edward R. Partitioned receptacle. 2,811,277, 10-29-57, Cl. 220-19.
- Gaines, Harry, Jr. Drawbar assembly constructed so as to increase towing vehicle traction. 2,800,341, 7-23-57, Cl. 280-489.
- Gaines, Harry, Jr. Drawbar assembly. 2,816,778, 12-17-57, Cl. 280-489.
- Gaines, Marjorie A. Sealing ring for containers. 2,804,987, 9-3-57, Cl. 220-54.
- Gair, Robert, Co., Inc. See—
Toronto, Thomas. 2,788,931.
Van Rosen, Robert E. 2,799,442.
Weiss, Arthur J. 2,781,896.
Weiss, Arthur J. 2,794,587.
- Gairing, Emil. Locking device for removable cutter blades. 2,785,456, 3-19-57, Cl. 29-105.
- Gairing, Emil. Boring bar with removable cutter body and locking and locating means therefor. 2,798,386, 7-9-57, Cl. 77-56.
- Gaiser, Romey A., to Libbey-Owens-Ford Glass Co. Method and apparatus for forming surface films. 2,779,690, 1-29-57, Cl. 117-104.
- Gajda, Leo P., to Arthur Colton Co. Ampoule filling apparatus. 2,779,506, 1-29-57, Cl. 222-108.
- Gajewski, George J. Hand operated snowplow. 2,785,483, 3-19-57, Cl. 37-53.
- Gakle, Wendolyn F. Locking means for outwardly swinging doors and windows. 2,797,432, 7-2-57, Cl. 16-137.
- Galandak, John, to Graver Tank & Mfg. Co., Inc. Clarifier construction. 2,781,911, 2-19-57, Cl. 210-55.
- Galasso, Joseph D.: See—
Young, Charles H., and Galasso. 2,785,006.
- Galat, Alexander, to Ringwood Chemical Corp. Preparation of polyhalo phenols. 2,803,670, 8-20-57, Cl. 260-623.
- Galaxies, Franz, to Landis & Gyr, A. G. Outdoor temperature compensated control apparatus for heating systems. 2,804,269, 8-27-57, Cl. 286-91.
- Galazzi, Joseph A., to Whirlpool-Seeger Corp. Heat pump hot water heater and air conditioner. 2,795,938, 6-18-57, Cl. 62-4.
- Galbreath, Robert R., to Bell Telephone Laboratories, Inc. Intercommunication system. 2,811,586, 10-29-57, Cl. 179-84.
- Gale, Alfred J., to High Voltage Engineering Corp. Compact X-ray generator. 2,810,077, 10-15-57, Cl. 250-93.
- Gale, David: See—
Jones, William B., Jr., Gale, Gamertsfelder, and MacNichol. 2,812,483.
- Gale, David, to the United States of America as represented by the Secretary of War. Radar system for determining ground speed and course of a moving craft. 2,799,855, 7-16-57, Cl. 343-9.
- Gale, Fred H. Semi-automatic compressed fluid gun. 2,817,328, 12-24-57, Cl. 124-11.
- Gale, James G., to Newco Mfg. Co., Inc. Rope sling protector. 2,793,904, 5-28-57, Cl. 294-74.
- Gale, Ronald, to Coan Mfg. Co. Beverage dispensing machines. 2,814,317, 11-26-57, Cl. 141-103.
- Galezzi, Franco. Spray cap and bottle. 2,802,696, 8-13-57, Cl. 299-95.
- Galezzi, Roberto. Breathing gas supply for a diving suit. 2,792,832, 5-21-57, Cl. 128-144.
- Galehouse, Frederick J., to The Babcock & Wilcox Co. Boiler erection apparatus. 2,775,810, 1-1-57, Cl. 29-286.
- Galender, Julius: See—
Birbiglia, James A., Chase, and Galender. 2,797,234.
Birbiglia, James A., Chase, and Galender. 2,797,235.
Birbiglia, James A., Chase, and Galender. 2,797,236.
Birbiglia, James A., Chase, and Galender. 2,797,237.
- Gales, Helen L.: See—
Edelman, Leonard E., and Gales. 2,813,076.
- Gales, Richard J., to Orange Roller Bearing Co. Roller bearing. 2,818,313, 12-31-57, Cl. 308-212.
- Galey, Jean, to Institut de Recherches de la Siderurgie. Device for measuring the variations of opacity of the flame of a Thomas converter and automatically determining the end of the operation. 2,803,987, 8-27-57, Cl. 88-14.
- Galigher Co., The: See—
Thompson, John W., Wilson, and Holland. 2,808,782.
Wilson, Robert A. 2,806,364.
- Galimberti, Paolo, and V. Gerosa, to Società Italiana Prodotti Schering. Isobutyric derivatives having therapeutical properties and process for their preparation. 2,813,105, 11-12-57, Cl. 260-397.4.
- Galini, Robert: See—
Gaugler, Richard S., and Galini. 2,801,527.
- Galini, Robert, to General Motors Corp. Ice block making apparatus. 2,782,609, 2-26-57, Cl. 62-106.
- Galinas, Bernard. Spray duster. 2,788,921, 4-16-57, Cl. 222-212.
- Galkin, Arthur S. Rubber door mat. 2,807,842, 10-1-57, Cl. 20-78.3.
- Gall, Francis A., to The Singer Mfg. Co. Polishing attachments for vacuum cleaner. 2,780,819, 2-12-57, Cl. 15-49.
- Gall, Francis A., to The Singer Mfg. Co. Radiator tool and brush combinations for vacuum cleaners. 2,811,738, 11-5-57, Cl. 15-328.
- Gall, Ralph J.: See—
Greenspan, Frank P., and Gall. 2,801,253.
Greenspan, Frank P., and Gall. 2,810,732.
- Galla, Stephen J., to Ford Motor Co. Door checking and holding device. 2,787,019, 4-2-57, Cl. 16-85.
- Galla, Stephen J., to Ford Motor Co. Door checking and holding device. 2,812,537, 11-12-57, Cl. 16-141.
- Gallacher, James I., to T. G. Worley, d. b. a. Worley Co. Septic tank. 2,792,125, 5-14-57, Cl. 210-533.
- Gallagher, Charles A. Car top carrier. 2,788,929, 4-16-57, Cl. 224-42.1.
- Gallagher, Cornelius A., to Servo Corp. of America. Automatic beam-centering circuit for cathode-ray devices. 2,779,894, 1-29-57, Cl. 315-24.
- Gallagher, Dudley M.: See—
Baldwin, Arthur R., Blatter, and Gallagher. 2,815,360.
- Gallagher, Frank. Ornamental reflector. 2,817,007, 12-17-57, Cl. 240-103.
- Gallagher, George N. Cigar and method of manufacture. 2,795,228, 6-11-57, Cl. 131-89.
- Gallagher, John P. Method of and means for winding. 2,785,867, 3-19-57, Cl. 242-18.
- Gallagher, Paul J.: See—
Comins, James S., and Gallagher. 2,801,383.
Comins, James S., and Gallagher. 2,814,773.
- Gallagher, Ray J., to General Telephone Laboratories, Inc. Postpay paystation with coin control circuit. 2,806,084, 9-10-57, Cl. 179-6.5.
- Gallagher, Rodney D. Baby back rest. 2,777,138, 1-15-57, Cl. 5-327.
- Gallagher, William M. Fish stringer. 2,804,247, 8-27-57, Cl. 224-7.
- Gallagher, William P., to International Register Co. Motor construction. 2,793,307, 5-21-57, Cl. 310-164.
- Gallagher, William P., and R. M. Bassett, to International Register Co. Clock switch. 2,816,969, 12-17-57, Cl. 200-38.
- Gallai-Hatchard, Marcel. Production of foamed slag and like material of light weight. 2,778,160, 1-22-57, Cl. 49-77.5.
- Gallamos, Constancio R. Adjustable book rest and holder support. 2,792,668, 5-21-57, Cl. 45-80.
- Galland-Henning Mfg. Co.: See—
Garnik, Robert J. 2,813,545.
- Gallay, Wilfred, and H. Miller, to Reliable Toy Co., Ltd. Reproduction of articles. 2,793,399, 5-28-57, Cl. 18-48.
- Galler, William, to American Cystoscope Makers, Inc. X-ray contrast compounds. 2,813,118, 11-12-57, Cl. 260-501.
- Galley, Fred C.: See—
Dillman, Earnest J., and Galley. 2,785,253.
- Gallenne, William F., W. E. Le May, and L. Pereny, to Protective Treatments, Inc. Fluid surgical dressing. 2,804,073, 8-27-57, Cl. 128-156.
- Gallimore, Keith F., and G. H. Schurger, to Giddings & Lewis Machine Tool Co. Guideway and gib constructions. 2,809,418, 10-15-57, Cl. 29-1.
- Gallistel, Albert F., to Perfection Mfg. Corp. Pipe line milking system and valve therefor. 2,779,308, 1-29-57, Cl. 119-14.18.
- Galliver, George B., and A. W. Holmes, to Lever Brothers Co. Treatment of proteinaceous materials. 2,813,027, 11-12-57, Cl. 99-111.
- Gallo, Joseph E.: See—
Wakefield, Thomas C., and Gallo. 2,793,445.
- Gallo, Joseph E., to Curtiss-Wright Corp. Simulated radio navigation apparatus. 2,811,788, 11-5-57, Cl. 35-10.2.
- Gallo, Nick D., 50% to E. P. Hook. Dispensing device. 2,786,612, 3-26-57, Cl. 222-531.
- Gallo, Salvatore G.: See—
Bartlett, Jeffrey H., Morway, Mikeska, and Gallo. 2,801,971.
- Gallop, Dwight M. Mold for plastic food materials. 2,807,221, 9-24-57, Cl. 107-15.
- Galloway, Raymond A., to P. H. Griffith. Anchor. 2,798,447, 7-9-57, Cl. 114-208.
- Galloway, Robert K., to Food Machinery and Chemical Corp. Can track. 2,794,533, 6-4-57, Cl. 198-33.
- Galloway, Russell B. Cutting reel for lawn mower. 2,794,310, 6-4-57, Cl. 56-294.
- Galloway, Wilfred H. Auxiliary wind wing and support post for convertible type vehicles. 2,816,795, 12-17-57, Cl. 296-84.
- Gallun, Hugo R., to Smog Co. Accessory for internal combustion engine. 2,793,001, 5-21-57, Cl. 251-129.
- Gallup, William A.: See—
Mills, Ivor W., and Gallup. 2,812,290.
- Gallusser, Hans, to Ateliers des Charmilles S. A. Reduction of iron ores by carbon and steam and plant for carrying it into effect. 2,786,747, 3-26-57, Cl. 75-11.
- Galmiche, Philippe, to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.). Methods for obtaining superficial diffusion alloys, in particular chromium alloys. 2,801,187, 7-30-57, Cl. 117-50.
- Galmiche, Philippe, to Office National d'Etudes et de Recherches Aeronautiques. Process of forming superficial alloys of chromium on metal bodies. 2,816,048, 12-10-57, Cl. 117-107.

- Galusha, Albert L. Method of operating gas or shale oil producer-retorts. 2,816,823, 12-17-57, Cl. 48—203.
- Galvin, Carroll D. Pusher bar for lawn mowers and like apparatus. 2,800,680, 7-30-57, Cl. 16—110.
- Galyon, Clarence B. and R. E. Speaker acoustic box. 2,806,546, 9-17-57, Cl. 181—31.
- Galyon, Ralph E.: *See—*
- Galyon, Clarence B. and R. E. 2,806,546.
- Gamache, Jean-Paul, to Tricot Somerset Inc. Thread cutting and inspection machine. Re. 24,316, 5-14-57, Cl. 26—7.
- Gambale, John C., to Westinghouse Electric Corp. Screw-operated electrical connector. 2,780,793, 2-5-57, Cl. 339—272.
- Gambardella, Carmine J., to Lee Engineering Co. Ground engaging vehicle brake. 2,796,150, 6-18-57, Cl. 188—5.
- Gambill, Marvin, to United Chemical Corp. of New Mexico. Composition and method controlling scale in oil wells. 2,777,818, 1-15-57, Cl. 252—8.55.
- Gamble, Edward H., to Curtiss-Wright Corp. Voltage regulating system. 2,780,734, 2-5-57, Cl. 307—34.
- Gamble, Gordon L., and L. A. Jakus, to Bell Telephone Laboratories, Inc. Coaxial noise diode. 2,782,341, 2-19-57, Cl. 315—39.
- Gamble, John G. Valve-actuating mechanism for internal combustion engines. 2,804,061, 8-27-57, Cl. 123—90.
- Gamble-Skogmo, Inc.: *See—*
- Roth, Walter J., and Foster. 2,782,620.
- Gamertsfelder, George R.: *See—*
- Jones, William B., Jr., Gale, Gamertsfelder, and MacNichol. 2,812,483.
- Gamewell Co., The: *See—*
- Weld, Foster E. 2,779,820.
- Weld, Foster E. 2,782,288.
- Gammie, James, and G. H. Lovell, to Bell Telephone Laboratories, Inc. Distortion correction in repeated carrier transmission systems. 2,776,345, 1-1-57, Cl. 179—171.
- Gammie, John E., to International Harvester Co. Planter. 2,806,572, 9-17-57, Cl. 193—9.
- Gampp, George E.: *See—*
- Strauss, Leopold, and Gampp. 2,786,679.
- Gamroth, Georg: *See—*
- Huhn, Robert, and Gamroth. 2,806,697.
- Gams, Alphonse, W. Kraus, E. Preiswerk, G. Widmer, and W. Wieland, to Ciba Ltd. Polyglycidyl ether of a polyhydric phenol hot setting adhesive and method of uniting articles therewith. 2,786,794, 3-26-57, Cl. 154—140.
- Gams, Theodore C., and P. J. Kiefer, Jr., to Underwood Corp. Two way suction tape feeding means. 2,778,634, 1-22-57, Cl. 271—2.3.
- Gamundi, Reynold F., to Eaton Mfg. Co. Drive for vehicle air conditioning apparatus. 2,784,562, 3-12-57, Cl. 62—4.
- Gamura, Michael A. Clamps. 2,803,277, 8-20-57, Cl. 144—296.
- Gandelli, Amos, and A. De Polo, to G. Buehler. Continuously operable worm press for deaerating pasty masses. 2,817,876, 12-31-57, Cl. 18—12.
- Gander, Frederick W., to E. I. du Pont de Nemours and Co. Preparation of high purity formaldehyde. 2,780,652, 2-5-57, Cl. 260—606.
- Ganger, Harry. Combined miniature chum pot, lure and sinker. 2,781,603, 2-19-57, Cl. 43—41.
- Ganger, Jesse R.: *See—*
- Christian, Raymond A., Colley, Crawford, Ganger, and Mitchell. 2,805,748.
- Ganger, Karl M.: *See—*
- Burrowes, John B., and Ganger. 2,776,089.
- Ganguin, Karl O., and E. Macdonald, to Imperial Chemical Industries Ltd. Process for colour photography. 2,805,158, 9-3-57, Cl. 96—55.
- Ganitta, Eugen, to International Standard Electric Corp. Arrangement for coupling monitoring devices to two-wire communications transmission lines. 2,799,725, 7-16-57, Cl. 179—1.
- Gannett, Wright K., to the United States of America as represented by the Secretary of the Army. Exposure counter for cameras. 2,788,939, 4-16-57, Cl. 235—91.
- Gannett, Wright K., to the United States of America as represented by the Secretary of the Army. Exposure timing device for cameras. 2,796,010, 6-18-57, Cl. 95—53.
- Gannon, Jesse, to B. Weingart. Gun for driving fasteners and the like. 2,804,620, 9-3-57, Cl. 1—44.5.
- Gannon, John A.: *See—*
- Fettes, Edward M., and Gannon. 2,789,958.
- Gannon, Roy C.: *See—*
- Davis, Morris C., Perryman, and Gannon. 2,802,655.
- Gannon, Russell R. Method and apparatus for conditioning the air within a closed space. 2,787,946, 4-9-57, Cl. 98—38.
- Gans, Henry B., Jr., to United States Steel Corp. Mold appliance. 2,784,467, 3-12-57, Cl. 22—134.
- Gans, Jerome T., and B. F. Politzer. Bubble emitting toy. 2,805,515, 9-10-57, Cl. 46—7.
- Ganshert, John E.: *See—*
- Larsen, Walter C., Ganshert, and Wanielista. 2,788,625.
- Ganslein, Edward O., to Goodyear Aircraft Corp. Method of making metal-faced laminates. 2,793,972, 5-28-57, Cl. 154—118.
- Ganson, Philip: *See—*
- Denney, Ralph E. 2,796,714.
- Ganswindt, Hartmut, and W. Müller, to Siemens & Halske Aktiengesellschaft. Screen-mesh electrode for electrical discharge tubes. 2,795,726, 6-11-57, Cl. 313—356.
- Gant, Leslie. Antenna. 2,786,200, 3-19-57, Cl. 343—908.
- Gant, Virgil A., and H. I. Hersh, to said Hersh. Ammonium polysiloxanolate hair treating composition and method for using same. 2,787,274, 4-2-57, Cl. 132—7.
- Ganter, Francis X. Drapery supporting device. 2,790,197, 4-30-57, Cl. 16—94.
- Gantert, Anton: *See—*
- Koppenwallner, Georg. 2,779,905.
- Gantert, Gerard E.: *See—*
- Bortnick, Newman M., and Gantert. 2,810,742.
- Ganther, Robert J.: *See—*
- Towle, Robert G., Jones, and Ganther. 2,793,261.
- Gantschnigg, Gottfried K., and H. H. Buschers, to The Glenn L. Martin Co. Seal. 2,792,599, 5-21-57, Cl. 20—65.
- Gantt, James E., to Universal Oil Products Co. Fractionator condensing assembly. 2,818,594, 11-19-57, Cl. 183—2.
- Gantt, James E., to Universal Oil Products Co. Alkylation of paraffin hydrocarbons. 2,818,459, 12-31-57, Cl. 260—683.4.
- Gantz, Ray D., to The Carroll Chain Co. Chain link composed of two identical parts, each part having a hook portion and a loop portion relatively perpendicularly disposed. 2,807,929, 10-1-57, Cl. 59—87.
- Ganz, Henry, to Johnson & Johnson. Bandage cutting and forming machine. 2,794,479, 6-4-57, Cl. 154—1.
- Ganz, Henry, to Johnson & Johnson. Pad folding machine. 2,794,482, 6-4-57, Cl. 154—29.
- Ganz, Rudolph V. Method of making ceramic forms. 2,816,347, 12-17-57, Cl. 25—156.
- Ganze, Ronald A., to F. B. Pease Co. Apple celling and slicing machine. 2,808,864, 10-8-57, Cl. 146—40.
- Gar Precision Parts, Inc.: *See—*
- Goodman, Robert, and Baptist. 2,776,673.
- Goodman, Robert, Baptist, and Rice. 2,793,989.
- Garabrant, Arthur R., H. G. Schneider, H. G. Georing, and H. O. Mottern, to Esso Research and Engineering Co. Process for preparing high molecular polymers from isobutylene. 2,779,753, 1-29-57, Cl. 260—94.8.
- Garand, John C., to the United States of America as represented by the Secretary of the Army. Grenade launcher for a gun with a gas cylinder. 2,807,112, 9-24-57, Cl. 42—1.
- Garapolo, Orlando, and J. P. Pettiti, to Wilson & Co., Inc. Dipping machine. 2,811,974, 11-5-57, Cl. 134—58.
- Garbarini, John J., W. K. Manz and J. R. D. McCormick, to American Cyanamid Co. Racemization of optically active dextrorotatory compound. 2,789,987, 4-23-57, Cl. 260—343.6.
- Garbarino, Americo F.: *See—*
- White, Charles S., and Garbarino. 2,817,485.
- Garbarino, Harold L., to Armour Research Foundation of Illinois Institute of Technology. Method for forming EI lamination for shell-type core. 2,811,203, 10-29-57, Cl. 164—18.
- Garbe, Howard W.: *See—*
- Ewaldson, Waldemar C., and Garbe. 2,815,867.
- Garbe, Howard W., to Western Electric Co., Inc. Work holding fixture for a lathe. 2,778,261, 1-22-57, Cl. 82—38.
- Garber, John D., to Merck & Co., Inc. Cyclopentanone compound. 2,803,660, 8-20-57, Cl. 260—590.
- Garber, Selwyn E.: *See—*
- Blackburn, Mack O., Garber, and Wright. 2,786,538.
- Garbich, Frank V.: *See—*
- Wilks, Syrryl S., and Garbich. 2,776,659.
- Garbuny, Max, to Westinghouse Electric Corp. Multireflex resonator. 2,785,334, 3-12-57, Cl. 315—5.18.
- Gares, Julio M. Portable air cooler. 2,808,711, 10-8-57, Cl. 62—131.
- Garcia, Leopold E. Baler. 2,803,186, 8-20-57, Cl. 100—43.
- Garcia-Galiano, Gregorio S., to Rico S. A. Driving mechanism for interconnected wheeled bodies. 2,803,921, 8-27-57, Cl. 46—103.
- Garcon, Jean A. J. Bag closure. 2,792,168, 5-14-57, Cl. 229—65.
- Garde, Aage, and E. Persson, to Allmanna Svenska Elektriska Aktiebolaget. Electric selector device. 2,813,262, 11-12-57, Cl. 340—176.
- Gardel, Robert, and A. Rogovin. Doll ankle joint mechanism. 2,783,587, 3-5-57, Cl. 46—173.
- Gardel, Robert, and A. Rogovin. Doll knee mechanism. 2,791,063, 5-7-57, Cl. 46—173.
- Gardella, Adriano and C. High speed spinning frames. 2,787,883, 4-9-57, Cl. 57—36.
- Gardella, Constantino: *See—*
- Gardella, Adriano and C. 2,787,883.
- Garden, Murray, to Radio Corp. of America. Duplexer. 2,810,886, 10-22-57, Cl. 333—7.
- Gardeniers, Paulus P., D. Klaassen, and C. J. Kollöffel, to Stamicarbon N. V. Apparatus for transporting finely divided solid materials in carrier gas streams. 2,793,914, 5-28-57, Cl. 302—50.
- Gardes, Alfred W., to Houdaille Industries, Inc. Automatic switch control. 2,779,837, 1-29-57, Cl. 200—80.
- Gardes, Alfred W., to Indiana Commercial Filters Corp. Conveyor flight construction. 2,780,344, 2-5-57, Cl. 198—176.
- Gardes, Alfred W., to Indiana Commercial Filters Corp. Method of making filter cartridge. 2,781,619, 2-19-57, Cl. 53—13.
- Gardes, Alfred W., to Houdaille Industries, Inc. Electric steering gear booster switch. 2,806,101, 9-10-57, Cl. 200—61.54.

- Gardes, Alfred W., and N. Dudchik, to Indiana Commercial Filters Corp. Clarifier. 2,788,126, 4-9-57, Cl. 210-195.
- Gardner, Arthur W., to General Motors Corp. Variable area jet nozzle. 2,793,491, 5-28-57, Cl. 60-35.6.
- Gardner, Arthur W., to General Motors Corp. Compressor wheel. 2,803,397, 8-20-57, Cl. 230-134.
- Gardner, Paul C.: *See—*
- Maure, Douglas R., and Gardner. 2,787,727.
- Gardner, William C., and J. L. Wood, to Olin Mathieson Chemical Corp. Electrolytic method of depositing alkali metal at a mercury cathode. 2,787,591, 4-2-57, Cl. 204-125.
- Gardner, Albert F. Violin bow frog. 2,780,953, 2-12-57, Cl. 84-282.
- Gardner, Bernard C., to Raytheon Mfg. Co. Velocity modulated electron discharge devices. 2,782,334, 2-19-57, Cl. 313-82.
- Gardner, Bernard C., to Raytheon Mfg. Co. Retarding field oscillators. 2,794,931, 6-4-57, Cl. 313-85.
- Gardner, Bernard C., to Varian Associates. High frequency tube. 2,815,467, 12-3-57, Cl. 315-5.21.
- Gardner, Bernard C., F. L. Salisbury, and C. E. Ward, to Varian Associates. Electron tube apparatus. 2,798,184, 7-2-57, Cl. 315-5.19.
- Gardner, Bernard C., M. Chodorow, and R. H. Varian, to Varian Associates. Electron tube apparatus. 2,807,746, 9-24-57, Cl. 315-5.51.
- Gardner Board and Carton Co. The: *See—*
- Anness, Russell W. 2,817,197.
- Anness, Russell W. 2,817,518.
- Kramer, Joseph. 2,789,750.
- Kramer, Joseph, and Parks. 2,791,368.
- Ringler, William A. 2,776,081.
- Ringler, William A. 2,795,352.
- Ringler, William A. 2,803,394.
- Ringler, William A. 2,810,475.
- Ringler, William A. 2,817,196.
- Struble, Glenn E. 2,796,978.
- Trosset, Stanley W., Jr. 2,790,730.
- Wittkuhn, Bruno A., and Hill. 2,817,517.
- Gardner, Charles W., to Caterpillar Tractor Co. Prying attachment for shovels. 2,801,753, 8-6-57, Cl. 214-140.
- Gardner, Claude L. Device for marking surfaces. 2,812,211, 11-5-57, Cl. 299-28.5.
- Gardner-Denver Co.: *See—*
- Anderson, Floyd R. 2,804,412.
- Anderson, Floyd R., and King. 2,804,411.
- Booth, William M. 2,795,131.
- Bos, John R., and Shulters. 2,803,286.
- Essig, Benjamin C., and Anderson. 2,804,413.
- Lillemann, Royal H. 2,792,265.
- Maurer, Spencer B. 2,784,813.
- Robinson, Claude L. 2,791,922.
- Shaff, Ernest H. 2,783,863.
- Gardner, Donald D.: *See—*
- Jenkins, Max E., and Gardner. 2,802,611.
- Gardner, Edmund W. Hand rake with guard attachment. 2,790,297, 4-30-57, Cl. 56-400.14.
- Gardner, Edward L., to North American Aviation, Inc. Magnetic amplifier. 2,812,391, 11-5-57, Cl. 179-171.
- Gardner, Elwin P.: *See—*
- Ober, Harold E., and Gardner. 2,802,994.
- Gardner, George S., and A. J. Saukatis, to American Chemical Paint Co. Inhibitor acid. 2,807,585, 9-24-57, Cl. 252-148.
- Gardner, Guy F., to Massey-Harris-Ferguson Inc. Subsoiler implement. 2,786,404, 3-26-57, Cl. 97-47.61.
- Gardner, Guy F., to Massey-Harris-Ferguson Inc. Tractor borne cable layer. 2,812,731, 11-12-57, Cl. 111-5.
- Gardner, Henry A., and R. Watson. Composition for coloring dormant grass. 2,786,821, 3-26-57, Cl. 260-29.6.
- Gardner, James H.: *See—*
- Di Nardo, Albert, Gardner, and Robertson. 2,816,932.
- Robertson, Nat C., and Gardner. 2,780,654.
- Robertson, Nat C., Gardner, and Di Nardo. 2,780,650.
- Gardner, James H., and N. C. Robertson, to Escambia Chemical Corp. Liquid phase oxidation of olefins using nitrobenzene to inhibit polymer formation. 2,780,635, 2-5-57, Cl. 260-348.5.
- Gardner, James H., and C. I. Tewksbury, to Escambia Chemical Corp. Liquid phase oxidation of propylene using air and a hydrocarbon solvent. 2,784,202, 3-5-57, Cl. 260-348.5.
- Gardner, Jimmy D.: *See—*
- Lynes, John, Allen, and Gardner. 2,796,938.
- Gardner, Karl A.: *See—*
- Boni, Frank, Jr., and Gardner. 2,818,197.
- Gardner, Karl A., to The Grisco-Russell Co. Heat exchanger welded tube joint. 2,807,445, 9-24-57, Cl. 257-236.
- Gardner, Lloyd E.: *See—*
- Hogan, Robert J., and Gardner. 2,814,653.
- Gardner Machine Co.: *See—*
- Dunn, Elman R. 2,801,500.
- Price, Ralph E. 2,808,685.
- Sterna, Ernest P. 2,795,090.
- Gardner Machines, Inc.: *See—*
- Stockett, Wiley T., Jr. 2,778,193.
- Gardner Mfg. Co.: *See—*
- Pohlman, William A. 2,778,150.
- Gardner, Percy S., Jr. Ore hoist. 2,793,082, 5-21-57, Cl. 302-14.
- Gardner, Ralph A.: *See—*
- Foreman, Robert W., Gardner, and Darling. 2,792,335.
- Gardner, Robert I., P. Z. Anderson, P. K. Beemer, and H. O. Fuchs, to Chicago Railway Equipment Co. Car door. 2,799,900, 7-23-57, Cl. 20-24.
- Gardner, Roland H., to The Hoover Co. Nozzle for suction cleaners. 2,807,825, 10-1-57, Cl. 15-398.
- Garen, John C.: *See—*
- Guernsey, Glen A., and Garen. 2,802,970.
- Garfein, Allen E.: *See—*
- Arsenault, William R., and Garfein. 2,802,953.
- Garfield, Sidney. Combined display, travelling and wardrobe shoe case. 2,816,628, 12-17-57, Cl. 190-16.
- Garfunkel, Louis X., $\frac{1}{2}$ to P. Weien. Sheet feeding mechanism. 2,817,200, 12-24-57, Cl. 53-251.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Television relay apparatus. 2,784,343, 3-5-57, Cl. 315-26.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Operating circuits for cathode ray tubes especially in television receivers. 2,797,358, 6-25-57, Cl. 315-27.
- Gargisa, Marion: *See—*
- Rudel, Harry W., and Gargisa. 2,776,878.
- Rudel, Harry W., and Gargisa. 2,791,495.
- Gargrave, Robert J., to Dayton Perforators Inc. Coin dimple punch. 2,790,477, 4-30-57, Cl. 153-21.
- Garlepy, Henry J. Extension slide for table tops. 2,815,257, 12-3-57, Cl. 311-71.
- Garity, William E., to Walter Lantz Productions, Inc. Method of and means for producing stereoscopic animated cartoons. 2,776,594, 1-8-57, Cl. 88-16.
- Garity, William E., to Walter Lantz Productions, Inc. Adjustable punching device. 2,781,096, 2-12-57, Cl. 164-111.
- Garland, Hereford: *See—*
- Yeadon, Donald J., Hooker, and Garland. 2,802,497.
- Garland, Mather, to Garland Ventilator Corp. Attachable oarlock-mounting. 2,795,804, 6-18-57, Cl. 9-26.
- Garland, Mather, to Garland Ventilator Corp. Receptacle for live fish. 2,795,888, 6-18-57, Cl. 43-55.
- Garland, Mather, to Garland Ventilator Corp. Live fish bag for fishing by boat or by wading. 2,795,889, 6-18-57, Cl. 43-55.
- Garland, Newton C.: *See—*
- Cabaniss, Edward H., Garland, Hardy, Gibbons, and Frayer. 2,802,401.
- Garland, Theodore F. Cutter and feeder mechanism for blower type snowplows. 2,779,112, 1-29-57, Cl. 37-43.
- Garland Ventilator Corp.: *See—*
- Garland, Mather. 2,795,804.
- Garland, Mather. 2,795,888.
- Garland, Mather. 2,795,889.
- Garlanda, Tiziano: *See—*
- Marullo, Gerlando, Baroni, and Garlanda. 2,790,801.
- Garlock Packing Co., The: *See—*
- Fisher, Edward W. 2,797,067.
- Hills, Leander H. 2,789,694.
- Michener, Herbert E., Jr., and Smith. 2,797,940.
- Stucke, Charles G. 2,816,784.
- Garloni, Louis J. Method of making lightweight aggregates. 2,799,074, 7-16-57, Cl. 25-156.
- Garmaise, David L.: *See—*
- McKay, Arthur F., and Garmaise. 2,782,205.
- Garmaise, David L., and A. F. McKay, to Monsanto Canada Ltd. 1-(β -hydroxyethyl)-2-substituted amino-2-imidazoline. 2,792,404, 5-14-57, Cl. 260-309.6.
- Garman, John A., and D. K. George, to Food Machinery and Chemical Corp. Selective herbicide. 2,784,071, 3-5-57, Cl. 71-2.6.
- Garman, John A., and W. P. Brian, to Food Machinery and Chemical Corp. Herbicidal composition. 2,784,072, 3-5-57, Cl. 71-2.6.
- Garman, John A., and D. K. George, to Food Machinery and Chemical Corp. Herbicides. 2,804,381, 8-27-57, Cl. 71-2.5.
- Garmy, Robert J., to Republic Steel Corp. Method and apparatus for forming ingots. 2,800,519, 7-23-57, Cl. 13-9.
- Garner, Anderson M. Straight beam adjustable jaw wood clamp. 2,796,097, 6-18-57, Cl. 144-303.
- Garner, Bruce L.: *See—*
- Scott, Willard R., and Garner. 2,785,126.
- Garner, James H., to Escambia Chemical Corp. Production of alpha-alkoxy alkanolic acids. 2,816,921, 12-17-57, Cl. 260-535.
- Garner, Lloyd P., and W. N. Parker, to Radio Corp. of America. Cold-working process for articles. 2,807,971, 10-1-57, Cl. 80-62.
- Garner, Philip J.: *See—*
- Niebling, Karl F. J., Kooijman, Rumscheidt, and Garner. 2,792,431.
- Garner, Philip J., and R. E. Bowman, to Shell Development Co. Resinous compositions plasticized with esters of sulfur-containing alcohols. 2,812,267, 11-5-57, Cl. 106-183.
- Garner, Russell F.: *See—*
- Weber, Victor, and Garner. 2,800,283.
- Weber, Victor, and Garner. 2,800,284.
- Garner, Russell F., to Robertshaw-Fulton Controls Co. Thermostat casing structure. 2,783,334, 2-26-57, Cl. 200-140.
- Garner, Russell F., to Robertshaw-Fulton Controls Co. Control and indicating system for electric heating means. 2,786,990, 3-26-57, Cl. 340-222.

- Garner, William C. Tobacco curing apparatus. 2,783,988, 3-5-57, Cl. 263-19.
- Garnett, William R. Method and means for minimizing cavitation and pitting in hydraulic turbines. 2,803,428, 8-20-57, Cl. 253-26.
- Garnich, Emil, deceased; K. Garnich, administratrix of said E. Garnich, to C. L. Matson. Concrete block splitting machine. 2,810,946, 10-29-57, Cl. 25-41.
- Garnich, Kathryn: *See*—
Garnich, Emil. 2,810,946.
- Garnier, Eugène F. G. Mechanical device for determining the position of a moving body relatively to a polar coordinate system. 2,797,861, 7-2-57, Cl. 235-61.
- Garnik, Robert J., to Galland-Henning Mfg. Co. Inline control valve. 2,813,545, 11-19-57, Cl. 137-599.2.
- Garon, Tobias. Watchband connecting means. 2,791,018, 5-7-57, Cl. 24-265.
- Garonzik, Sylvan H.: *See*—
Potter, Claud N., and Ervin. 2,801,626.
- Garoutte, Betty J. Method of cutting and dressing hair. 2,789,566, 4-23-57, Cl. 132-7.
- Garrard, Bruce. Beverage dispensing apparatus. 2,788,107, 4-9-57, Cl. 194-13.
- Garrard, Bruce. Bottle vending machine. 2,804,958, 9-3-57, Cl. 194-4.
- Garraway, George H., to Orr & Sembower, Inc. Burner apparatus. 2,815,069, 12-3-57, Cl. 158-76.
- Garretson, Owen L.: *See*—
St. Clair, Theodore A., and Garretson. 2,778,720.
- Garrett, Charles G. B.: *See*—
Brattain, Walter H., and Garrett. 2,777,974.
- Garrett Corp., The: *See*—
Andersen, Soren K. 2,788,176.
Andersen, Soren K. 2,811,337.
Barclay, Herbert. 2,777,330.
Bicknell, Robert. 2,784,425.
Boyle, James F., and Taylor. 2,784,426.
Chapman, James E., Drexel, and Young. 2,777,524.
Davis, Hilliard L., and Nelson. 2,811,090.
Dotson, Donald A. 2,782,994.
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Feagans, Perry L. 2,782,691.
Green, Frederick H. 2,786,341.
Green, Frederick H. 2,788,647.
Green, Frederick H. 2,790,310.
Jensen, Raymond W. 2,780,413.
Jensen, Raymond W. 2,815,705.
Jensen, Raymond W. 2,816,729.
Kessler, Robert L. 2,795,831.
Kuhn, John. 2,777,301.
McCormack, William H. 2,782,995.
McCormack, William H. 2,818,544.
Schalyo, John, Jr. 2,786,261.
Schelp, Helmut R. 2,784,571.
Seed, Albert B. 2,800,002.
Shank, Clifford A., Brown, and Ault. 2,808,985.
Silver, Alexander. 2,814,241.
Von der Nuell, Werner T. 2,797,858.
Von der Nuell, Werner T. 2,817,544.
Taylor, Myron L., and Fraebel. 2,804,633.
Wood, Homer J. 2,781,210.
Wood, Homer J. 2,787,886.
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Young, James E. 2,778,472.
- Garrett, Dwight A. Implement carrier. 2,786,589, 3-26-57, Cl. 214-130.
- Garrett, Dwight A. Conversion of crawler-type tractor to wheeled traction. 2,800,188, 7-23-57, Cl. 180-6.2.
- Garrett, Dwight A. Yoked span of tractors. 2,808,117, 10-1-57, Cl. 180-6.48.
- Garrett, Emil. Recoil mechanism for a mortar. 2,790,357, 4-30-57, Cl. 89-43.
- Garrett, Gilbert J. Centrifuge heating device. 2,778,566, 1-22-57, Cl. 233-11.
- Garrett, Henry U., C. M. Peters, and R. W. Dinning, to U. S. Industries, Inc. Well flow control apparatus and system. 2,790,395, 4-30-57, Cl. 103-233.
- Garrett, Henry U., and C. M. Peters, to U. S. Industries, Inc. Well flow control apparatus and system. 2,790,501, 4-30-57, Cl. 166-224.
- Garrett, Henry U., and C. M. Peters, to U. S. Industries, Inc. Differential piston type relief valve. 2,796,885, 6-25-57, Cl. 137-491.
- Garrett, Henry U., and C. M. Peters, to U. S. Industries, Inc. Well apparatus and system. 2,804,830, 9-3-57, Cl. 103-233.
- Garrett, Henry U., C. M. Peters, and R. W. Dinning, to U. S. Industries, Inc. Well apparatus and system. 2,808,781, 10-8-57, Cl. 103-4.
- Garrett, Jack N. Buckle attaching machine. 2,779,355, 1-29-57, Cl. 140-93.
- Garrett, Lloyd W. Lathe cross feed mechanism. 2,814,228, 11-26-57, Cl. 82-24.
- Garrett Oil Tools Inc.: *See*—
Boynton, Alexander. Re. 24,304.
- Garrett, Richard A., to Armstrong Cork Co. Textile fiber drafting element containing a surface-active material. 2,811,752, 11-5-57, Cl. 19-143.
- Garrick, David A., to Pan American Petroleum Corp. Recovery of lost circulation in a drilling well. 2,800,964, 7-30-57, Cl. 166-29.
- Garrido, Jeanne O. Hearing aid device. 2,810,445, 10-22-57, Cl. 181-25.
- Garrigus, Walter E., N. C. Skillman, and C. Wainwright, to P. R. Mallory & Co., Inc. Television tuner for continuous tuning over two V. H. F. bands and the U. H. F. band. 2,786,135, 3-19-57, Cl. 250-20.
- Garringtons Ltd.: *See*—
Sharman, John C. 2,798,341.
- Garriott, Francis E., to Ampco Metal, Inc. Coated copper alloy arc welding electrode. 2,785,094, 3-12-57, Cl. 117-206.
- Garriott, Francis E., to Ampco Metal, Inc. Welding flux composition. 2,805,178, 9-3-57, Cl. 148-26.
- Garriott, Francis E., and J. F. Klement, to Ampco Metal, Inc. Aluminum bronze weld rod. 2,789,065, 4-16-57, Cl. 117-207.
- Garrison, Allen D.: *See*—
Teichmann, Charles F., and Garrison. 2,803,432.
- Garrison, Allen D., to Texaco Development Corp. Wells. 2,780,289, 2-5-57, Cl. 166-46.
- Garrison, Allen D., to Texaco Development Corp. Prevention of paraffin deposition. 2,818,079, 12-31-57, Cl. 137-1.
- Garrison, Clifford L., to Oliver Instrument Co. Grinding apparatus. 2,781,614, 2-19-57, Cl. 51-100.
- Garrison, Clifford L., to Oliver Instrument Co. Apparatus for grinding drills. 2,785,510, 3-19-57, Cl. 51-5.
- Garrison, James O.: *See*—
Garrison, Ralph P., and J. O., and Walker. 2,785,904.
- Garrison, James O., and D. D. Walker, to Garrison Machine Works, Inc. Locating stud. 2,783,050, 2-26-57, Cl. 279-1.
- Garrison, John D., to Industrial Molasses Corp. Device for spraying molasses. 2,808,043, 10-1-57, Cl. 126-343.5.
- Garrison, Langdon I., to The John Swenson Granite Co., Inc. Wire stone sawing machine. 2,795,222, 6-11-57, Cl. 125-21.
- Garrison Machine Works, Inc.: *See*—
Garrison, James O., and Walker. 2,783,050.
Garrison, Ralph P., and J. O., and Walker. 2,785,904.
- Garrison, Marion A., to Johnston Testers, Inc. Tension type pressure recorder. 2,816,440, 12-17-57, Cl. 73-151.
- Garrison, Ralph E. Anti-sag sinker. 2,193,332, 7-9-57, Cl. 43-44.97.
- Garrison, Ralph P. and J. O., and D. D. Walker, to Garrison Machine Works, Inc. Inertia operated chuck. 2,785,904, 3-19-57, Cl. 279-106.
- Garrison, Van Buskirk, A. W. Gruber, and J. F. Kiernan, to Air Reduction Co., Inc. Scarfing method and apparatus. 2,812,174, 11-5-57, Cl. 266-23.
- Garrison, Ward S. Power operated boom for hoists or the like. 2,786,583, 3-26-57, Cl. 212-65.
- Garrity, Robert K. Insect and debris deflector for motor vehicle hood front surface. 2,793,705, 5-28-57, Cl. 180-69.
- Garske, Joseph S., to Par Aide Products Co. Golf ball cleaner having a tank with scrubbing means therein. 2,807,037, 9-24-57, Cl. 15-21.
- Garson, Arthur. Brassiere. 2,782,418, 2-26-57, Cl. 2-42.
- Garson, Stanley P. Smokers' ash tray. 2,786,476, 3-26-57, Cl. 131-240.
- Garsson, Henry M., to The Elmercoft Corp. Slider locking and release mechanism for slide fasteners. 2,785,452, 3-19-57, Cl. 24-205.14.
- Garsson, Henry M., to The Elmercoft Corp. Combination locking and release slider for slide fasteners. 2,786,250, 3-26-57, Cl. 24-205.14.
- Garsson, Henry M., to The Elmercoft Corp. Spring slider and release mechanism for slide fasteners. 2,788,557, 4-16-57, Cl. 24-205.15.
- Garst, Arthur W., to Stanolind Oil and Gas Co. Method of increasing production from wells. 2,779,418, 1-29-57, Cl. 166-42.
- Garst, Arthur W., to Stanolind Oil and Gas Co. Increasing the permeability of earthy formations. 2,782,859, 2-26-57, Cl. 166-42.
- Garst, Arthur W., to Pan American Petroleum Corp. Surface-active agents in well treating. 2,800,962, 7-30-57, Cl. 166-9.
- Garthwait, Clyde W., Jr., to The Cly-Del Mfg. Co. Inc. Bell and clapper. 2,800,870, 7-30-57, Cl. 116-155.
- Gartland, Joseph W., to Union Carbide and Carbon Corp. Shaped carbon article and process for producing the same. 2,799,053, 7-16-57, Cl. 18-54.7.
- Gartland, Joseph W., to Union Carbide Corp. Sulphur sequestration of high sulphur coke. 2,814,076, 11-26-57, Cl. 18-54.7.
- Gärtner, Berthold, to Bonzavia S. A. Automatic speed regulator for turbojet engines having a controllable nozzle. 2,811,830, 11-5-57, Cl. 60-35.6.
- Gartner, Joseph J.: *See*—
Karlan, Jac H., and Gartner. 2,786,359.
- Gartner, John H.: *See*—
Weir, Franklin T., Catz, and Gartner. 2,815,206.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Grid stop. 2,778,969, 1-22-57, Cl. 313-292.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Mount manufacturing machine. 2,807,866, 10-1-57, Cl. 29-25.19.
- Garton, Chester E.: *See*—
Adams, Jack E., and Garton. 2,807,040.
- Garver, John P. Christmas tree ornament. 2,803,905, 8-27-57, Cl. 41-10.

- Garver, John P. Dual control device for automobiles. 2,814,212, 11-26-57, Cl. 74-562.5.
- Garver, Ralph R.: *See—*
Gladfelter, Wiltie I., and Garver. 2,816,466.
- Garver, Ralph R., to Pangborn Corp. Sluriator. 2,797,530, 7-2-57, Cl. 51-8.
- Garvey, James R.: *See—*
Kaiser, Elmer R., and Garvey. 2,781,039.
- Garvey, Louis P., C. S. Semar, and A. Tanaka, to General Motors Corp. Seat adjuster. 2,809,689, 10-15-57, Cl. 155-14.
- Garvey, Robert P., and O. B. Hall, to Whirlpool-Seeger Corp. Refrigerator door and gasket seal. 2,786,241, 3-26-57, Cl. 20-35.
- Garvin, Charles W.: *See—*
Keller, Theodore W., and Garvin. 2,779,256.
- Garvin, Walter W., and J. R. Leggett, to California Research Corp. Apparatus for geophysical prospecting. 2,801,794, 8-6-57, Cl. 235-61.
- Garwin, Richard L., to International Business Machines Corp. Spin echo memory technique and apparatus. 2,810,108, 10-15-57, Cl. 324-5.
- Garwood, Ernest H. Toothed disc type rotary lawn edger. 2,792,682, 5-21-57, Cl. 56-256.
- Garwood, Ernest H. Rotary pump or motor. 2,802,426, 8-13-57, Cl. 103-162.
- Garwood, Ernest H. Fishing lure. 2,813,366, 11-19-57, Cl. 43-42.33.
- Garwood, Robert E., to G. C. Jenkins, d. b. a. Skyway Precision Tool Co. Adjustable break through torque wrench. Re. 24,400, 12-10-57, Cl. 81-52.4.
- Garwood, Victor W., to Lamson Paragon Ltd. Stationery feeding means. 2,790,529, 4-30-57, Cl. 197-134.
- Garwood, William E., and L. A. Hamilton, to Socony Mobil Oil Co., Inc. Phosphorus sesquisulfide-olefin-organic peroxide reaction products and methods of preparation thereof. 2,800,467, 7-23-57, Cl. 260-139.
- Gary, James. Rack for facilitating opening of a wardrobe trunk. 2,789,828, 4-23-57, Cl. 280-35.
- Gary, Wilbur Y.: *See—*
Bain, Joseph P., and Gary. 2,785,208.
Bain, Joseph P., and Gary. 2,818,427.
- Garza, Luis R.: *See—*
Dower, Ethell J., and Garza. 2,817,233.
- Gas Machinery Co., The: *See—*
Knierim, Carl O. 2,817,507.
- Gascoine, Arthur C., and R. A. F. Craven, to Watford Electric & Mfg. Co. Ltd. and A. C. Gascoine. Electrical contactors. 2,784,274, 3-5-57, Cl. 200-87.
- Gaskell, Walter L., to King-Seely Corp. Work guide fence. 2,806,493, 9-17-57, Cl. 143-176.
- Gaskill, Harry L. Staple for automatic hammer. 2,807,185, 9-24-57, Cl. 83-49.
- Gaskoutitz, Walter S. Boat stabilizing appliance. 2,794,191, 6-4-57, Cl. 9-1.
- Gaspar, Bela, and G. B. Linden; said Linden assor. to said Gaspar. Color photographic material from resinous sulfonyl chlorides. 2,778,813, 1-22-56, Cl. 260-79.3.
- Gaspar, Emeric and G. T. Stimpson, to The Projectile & Engineering Co., Ltd. Hydraulic actuating system for injection moulding machine. 2,789,541, 4-23-57, Cl. 121-38.
- Gass, Howard S., 50% to W. A. Duckworth. Interlocked-joint structures. 2,801,895, 8-6-57, Cl. 312-257.
- Gassaway, Benjamin F., 1/4 to J. A. Hull. Sealed valve dispensing device. 2,802,608, 8-13-57, Cl. 222-490.
- Gassaway, James S., to Avery Adhesive Label Corp. Label dispensing device. 2,782,961, 2-26-57, Cl. 221-73.
- Gassenmeier, Ernst W.: *See—*
Eisele, Julius, Federkiel, Gassenmeier, and Schuster. 2,813,773.
- Gassenmeier, Ruth M.: *See—*
Eisele, Julius, Federkiel, Gassenmeier, and Schuster. 2,813,773.
- Gasser, Eugene A.: *See—*
Johnson, Michael S., and Gasser. 2,793,532.
- Gassin, George, and L. N. Crea. Musical instrument structure and case. 2,803,982, 8-27-57, Cl. 84-275.
- Gassmann, Johannes, to Daimler-Benz Aktiengesellschaft. Camshaft gear for internal combustion engines. 2,790,431, 4-30-57, Cl. 123-90.
- Gassmann, Johannes, and M. K. Lorscheidt, to Daimler-Benz Aktiengesellschaft. Valve control mechanism, particularly for high speed internal combustion engines. 2,814,283, 11-26-57, Cl. 123-90.
- Gast, Dwight. Septic tank line inspecting device. 2,798,504, 7-9-57, Cl. 137-356.
- Gaston, Paul S. Supporting hinge brackets for drop leaves. 2,782,086, 2-19-57, Cl. 311-64.
- Gastrow, Hans. Die-casting machine. 2,785,439, 3-19-57, Cl. 18-30.
- Gatcomb, Gerald L.: *See—*
Stewart, William D., and Gatcomb. 2,809,193.
- Gately, Edward J., Jr. Loudspeaker cabinet including a horn. 2,792,069, 5-14-57, Cl. 181-31.
- Gates, Albert G. R., to Gestetner Ltd. Inking mechanism. 2,787,216, 4-2-57, Cl. 101-366.
- Gates, Alfred C., to Ajax Iron Works. Air-cooled piston. 2,808,039, 10-1-57, Cl. 123-41.35.
- Gates, Charles E.: *See—*
Fitch, Ellery R., and Gates. 2,812,218.
- Gates, Earl J., to Servco Equipment Co. Sliding door construction. 2,815,543, 12-10-57, Cl. 20-19.
- Gates, Edward C. Aircraft landing wheel rotating means. 2,777,651, 1-15-57, Cl. 244-103.
- Gates, Jack G.: *See—*
Leonardson, Carl S., Gates, and Reckers. 2,782,468.
- Gates, James T.: *See—*
Brinza, Joseph E., and Gates. 2,810,305.
- Gates, John R., and E. Rudolph, to Radio Corp. of America. Welding apparatus. 2,799,770, 7-16-57, Cl. 219-78.
- Gates, John W., Jr., and L. J. Andrews, to the United States Atomic Energy Commission. Process for recovery of uranium from aqueous solutions. 2,780,518, 2-5-57, Cl. 23-14.5.
- Gates, John W., Jr., J. R. Dann, B. D. Illingsworth, and W. G. Lovett, to Eastman Kodak Co. Method of preparing photographic emulsions by coagulating with gelatin graft polymers. 2,787,545, 4-2-57, Cl. 96-114.
- Gates, Marshall D., Jr., to Merck & Co., Inc. Reduction of codeinone to codeine. 2,778,832, 1-22-57, Cl. 260-285.
- Gates, Marshall D., Jr., to Merck & Co., Inc. Process and intermediates for producing 1-bromocodeinone. 2,797,221, 6-25-57, Cl. 260-285.
- Gates, Paul B., to Sylvania Electric Products Inc. Semiconductor assembling apparatus. 2,779,134, 1-29-57, Cl. 49-1.
- Gates, Paul E., to Sylvania Electric Products Inc. Gaseous electric discharge tubes and electrodes. 2,790,923, 4-30-57, Cl. 313-198.
- Gates, Richard L.: *See—*
Thoren, Theodore R., and Gates. 2,780,175.
- Gates, Richard L., to Thompson Products, Inc. Actuating mechanism for coaxial switch. 2,780,113, 2-5-57, Cl. 74-527.
- Gates, Richard L., to Thompson Products, Inc. Rotary step-by-step actuating mechanism. 2,786,153, 3-19-57, Cl. 310-23.
- Gates, Thomas S., to National Broach & Machine Co. Gear gauging apparatus. 2,803,342, 8-20-57, Cl. 209-88.
- Gathercoal, Frank H., to J. D. Gathercoal. Method of sub-soil irrigation and fertilization. 2,800,865, 7-30-57, Cl. 111-7.1.
- Gathercoal, Joseph D.: *See—*
Gathercoal, Frank H. 2,800,865.
- Gattone, Daniel H.: *See—*
Birch, Herbert M., and Gattone. 2,788,784.
- Gatewood, Edward H., to Vickers Inc. Power transmission. 2,782,598, 2-26-57, Cl. 60-52.
- Gatzert, Ernest H., to General Dynamics Corp. Trunk circuit with special timing out feature. 2,802,901, 8-13-57, Cl. 179-16.
- Gatzert, Ernest H., to General Dynamics Corp. Connector circuit. 2,806,089, 9-10-57, Cl. 179-18.
- Gatzert, Ernest H., to General Dynamics Corp. Telephone trunk circuit. 2,807,667, 9-24-57, Cl. 179-7.1.
- Gatzert, Ernest H., to General Dynamics Corp. Special service trunk circuit. 2,807,673, 9-24-57, Cl. 179-27.
- Gatzert, Ernest H., to General Dynamics Corp. Connector circuit party ringing selection. 2,816,170, 12-10-57, Cl. 179-17.
- Gatzert, Ernest H., to General Dynamics Corp. Connector with conversation timing. 2,816,172, 12-10-57, Cl. 179-18.
- Gatzke, Ernest F., to The Russell Mfg. Co. Safety belt webbing. 2,794,450, 6-4-57, Cl. 139-411.
- Gaubatz, Arthur W.: *See—*
McDowall, Charles J., and Gaubatz. 2,804,241.
Wheatley, John B., Gaubatz, and Short. 2,800,273.
Wheatley, John B., Prachar, Gaubatz, and Zimmerman. 2,791,091.
- Gaubatz, Arthur W., to General Motors Corp. Discriminator device. 2,778,241, 1-22-57, Cl. 74-479.
- Gaubatz, Arthur W., to General Motors Corp. Electrical installation. 2,784,354, 3-5-57, Cl. 317-113.
- Gaubatz, Arthur W., to General Motors Corp. Control apparatus. 2,786,667, 3-26-57, Cl. 264-3.
- Gaubatz, Arthur W., to General Motors Corp. Centrifugal governor. 2,793,023, 5-21-57, Cl. 264-3.
- Gaubatz, Arthur W., to General Motors Corp. Self cleansing filter. 2,797,812, 7-2-57, Cl. 210-312.
- Gaubatz, Arthur W., to General Motors Corp. Control apparatus. 2,804,526, 8-27-57, Cl. 200-153.
- Gaubatz, Arthur W., to General Motors Corp. Thermocouple. 2,806,075, 9-10-57, Cl. 136-4.
- Gaubatz, Arthur W., to General Motors Corp. Gear pump or motor. 2,808,007, 10-1-57, Cl. 103-126.
- Gaubatz, Arthur W., to General Motors Corp. Adjustable cam. 2,811,871, 11-5-57, Cl. 74-568.
- Gaubatz, Arthur W., O. P. Prachar, J. B. Wheatley, and D. G. Zimmerman, to General Motors Corp. Gas turbine shaft. 2,809,503, 10-15-57, Cl. 64-1.
- Gaubert, Rene J., to Food Machinery and Chemical Corp. Conveying apparatus. 2,790,540, 4-30-57, Cl. 198-224.
- Gaubert, Rene J., to Food Machinery and Chemical Corp. Weighing machine. 2,801,732, 8-6-57, Cl. 198-220.
- Gauchard, Fernand. Apparatus for producing liquid suspensions for use as aerosols. 2,785,768, 3-19-57, Cl. 183-70.
- Gaucher, Leon P.: *See—*
Eastman, du Bois, and Gaucher. 2,789,094.
Jacolev, Leon, and Gaucher. Re. 24,328.

- Gaucher, Leon P., to The Texas Co. Burner for oil-fired gas generator. 2,810,433, 10-22-57, Cl. 158-74.
- Gaudechon, Jacques: *See—*
Gailliot, Paul, and Gaudechon. 2,809,968.
- Gaudet, Leo, W. P. Nesbitt, and J. C. Steer, to Howard Smith Paper Mills Ltd. Paper roll marking apparatus. 2,787,954, 4-9-57, Cl. 101-219.
- Gaugain, Emile P., to International Standard Electric Corp. Automatic telephone switching comprising electronic control equipments. 2,787,664, 4-2-57, Cl. 179-18.
- Gauger, Roy C., and E. W. Perkins, to Consolidated Electrodynamics Corp. Speed synchronizer. 2,784,361, 3-5-57, Cl. 318-75.
- Gaugler, Richard S., to General Motors Corp. Ice making apparatus. 2,778,200, 1-22-57, Cl. 62-107.
- Gaugler, Richard S., and E. F. Schweller, to General Motors Corp. Insulated refrigerator wall. 2,779,066, 1-29-57, Cl. 20-4.
- Gaugler, Richard S., and R. Galin, to General Motors Corp. Ice making apparatus. 2,801,527, 8-6-57, Cl. 62-7.
- Gaul, Edward M.: *See—*
Chapman, Dave, Dales, Abrahamsen, and Gaul. 2,780,845.
- Gaul, Edward M., to Whirlpool-Seeger Corp. Refrigerator constructions. 2,777,598, 1-15-57, Cl. 220-15.
- Gaul, Raymond F., to Kaiser Aluminum & Chemical Corp. Method of making composite stock. 2,800,709, 7-30-57, Cl. 29-472.3.
- Gaulke, John E. Driving tool for securing means. 2,786,202, 3-26-57, Cl. 1-47.
- Gault, Clarence W., to Hercules Powder Co. Coating composition for metals. 2,798,009, 7-2-57, Cl. 117-127.
- Gaultney, Gardner. Fish holding and cleaning board. 2,795,814, 6-18-57, Cl. 17-8.
- Gause, Emily M.: *See—*
Cunningham, George L., Bryant, and Gause. 2,784,053.
- Gauthier, Alfred, G. m. b. H.: *See—*
Rentschler, Karl F. 2,800,802.
- Gauthier, Arthur. Hair cutting device. 2,791,829, 5-14-57, Cl. 30-30.
- Gauthier, Fernand. Toilet paper roll holder. 2,801,131, 7-30-57, Cl. 299-24.
- Gauthier, William H., and J. C. Benton, to Bengau Industries, Inc. Windshield washer. 2,780,491, 2-5-57, Cl. 299-58.
- Gaved, Clement, to Power Jets (Research and Development) Ltd. Split dies for moulding. 2,800,685, 7-30-57, Cl. 18-42.
- Gavin, Linus A., and F. H. Jackman. Air gun. 2,783,092, 2-26-57, Cl. 299-116.
- Gavito, Gabriel. Door lock safety system for motor vehicles. 2,804,159, 8-27-57, Cl. 180-82.
- Gavreau, Vladimir, to Centre National de la Recherche Scientifique. Apparatus producing high-powered sounds and ultra-sounds. 2,804,042, 8-27-57, Cl. 116-137.
- Gavrilovic, Aleksa: *See—*
Smart, David L., and Gavrilovic. 2,817,791.
- Gaw, Norman W.: *See—*
Ecklund, Elvin E., and Gaw. 2,810,887.
- Gawrysiak, Walter J. Articulated molding. 2,791,527, 5-7-57, Cl. 154-53.5.
- Gay, Albert P. Tool box with built-in light. 2,801,330, 7-30-57, Cl. 240-6.4.
- Gay-Bell Corp.: *See—*
Heizer, Raymond, Jr., Gay, and Bell. 2,782,711.
- Gay, Bert, $\frac{1}{2}$ to W. F. Swingle. Connectors for electrical circuit wires. 2,788,384, 4-9-57, Cl. 174-87.
- Gay, Cecil H., G. J. Schoessow and E. E. Schoessow, to The Babcock & Wilcox Co. Sliding block seal. 2,789,670, 4-23-57, Cl. 189-34.
- Gay, Edward J., and W. H. Brittingham. Cover for moistening rollers for lithograph printing. 2,784,484, 3-12-57, Cl. 29-118.
- Gay, Emmie L. Patient restraining jacket. 2,782,783, 2-26-57, Cl. 128-134.
- Gay, Frazer W. Heat pump operated system for house heating. 2,780,415, 2-5-57, Cl. 237-2.
- Gay, Jacob D., Jr.: *See—*
Heizer, Raymond, Jr., Gay, and Bell. 2,782,711.
- Gaydebouroff, Oleg E. Shoe lift and method of making same. 2,810,935, 10-29-57, Cl. 18-59.
- Gaydos, James W. Reflective marker. 2,779,240, 1-29-57, Cl. 88-79.
- Gayer, John D., to The Clark Controller Co. Reversing switch control. 2,780,762, 2-5-57, Cl. 318-207.
- Gayetsky, Elmer J.: *See—*
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- Gaylord, Asa K. Safety ventilator unit. 2,813,477, 11-19-57, Cl. 98-115.
- Gaylord Container Corp.: *See—*
Nye, William T. 2,799,458.
- Gaylord, James K., to Gaylord Products, Inc. Brake drum cooling device. 2,781,874, 2-19-57, Cl. 188-264.
- Gaylord, James K., to Gaylord Products, Inc. Brake drum cooling device. 2,795,302, 6-11-57, Cl. 188-264.
- Gaylord, John A., $\frac{1}{2}$ to Rocket Jet Engineering Corp. Retractable platform. 2,778,698, 1-22-57, Cl. 311-16.5.
- Gaylord, John A., $\frac{1}{2}$ to Rocket Jet Engineering Corp. Canopy harness release. 2,802,252, 8-13-57, Cl. 24-241.
- Gaylord, Norman G., to E. I. du Pont de Nemours and Co. Coating of polyethylene terephthalate film. 2,805,963, 9-10-57, Cl. 117-138.8.
- Gaylord Products, Inc.: *See—*
Gaylord, James K. 2,781,874.
Gaylord, James K. 2,795,302.
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Thatcher, Lewis E. 2,781,430.
- Gaynes, Miles E. Fishing lure retriever. 2,793,457, 5-28-57, Cl. 43-17.2.
- Gaynor, John, to Come Automatic Machine Co. Inc. Radius turning mechanism. 2,817,992, 12-31-57, Cl. 82-24.
- Gazan, Frances. License plate frame for auto vehicles. 2,815,598, 12-10-57, Cl. 40-125.
- Gazda, Antoine. Animated toy. 2,775,846, 1-1-57, Cl. 46-104.
- Gazelle, Roland J., $\frac{1}{2}$ to W. T. Anderson. Self-sealing ice bag. 2,796,903, 6-25-57, Cl. 150-2.3.
- Gazette, Marshall E. Die cutting and creasing machine and method of making. 2,782,851, 2-26-57, Cl. 164-30.5.
- Gazette, Marshall E. Machine for assembling paper spools. 2,799,210, 7-16-57, Cl. 93-1.
- Gazette, Marshall E. Machine for feeding paper tubes and crimping an end thereof. 2,803,176, 8-20-57, Cl. 93-36.5.
- Gear Grinding Machine Co., The: *See—*
Brady, Samuel G. 2,798,347.
Brady, Samuel G. 2,804,064.
Brady, Samuel G. 2,807,255.
- Gearheart, John D., J. L. Sayre, and E. H. Rehnberg, to Edcliff Instruments. Adjustable resistors. 2,813,183, 11-12-57, Cl. 201-62.
- Geary, Eugene W., and E. C. Kreager, to Pittsburgh Plate Glass Co. Cement slurry filtration. 2,792,312, 5-14-57, Cl. 106-100.
- Geary, Frederick L., and W. G. Taylor, Jr., to United Aircraft Corp. Variable area nozzle. 2,811,831, 11-5-57, Cl. 60-35.6.
- Geary, Frederick L., and W. G. Taylor, Jr., to United Aircraft Corp. Variable area nozzle. 2,815,643, 12-10-57, Cl. 60-35.6.
- Geary, Robert J. Insecticidal bait composition. 2,811,479, 10-29-57, Cl. 167-48.
- Geary, Robert R., 35% to N. J. McKinley. Under fender lights for vehicles. 2,786,935, 3-26-57, Cl. 240-8.1.
- Geaue, Robert E.: *See—*
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- Gebauer, Charles L., to The Gebauer Chemical Co. Dispenser for volatile liquids. 2,789,011, 4-16-57, Cl. 299-95.
- Gebauer Chemical Co., The: *See—*
Gebauer, Charles L. 2,789,011.
- Gebauer, Herman H. W., deceased, by A. Schneider, sole heir. Typewriter or like machine carriage track or guide. 2,789,675, 4-23-57, Cl. 197-69.
- Gebel, Irving, to Controls Co. of America. Electrical connection and method of making the same. 2,789,279, 4-16-57, Cl. 339-276.
- Gebel, Irving, to Controls Co. of America. Slide type switches. 2,805,298, 9-3-57, Cl. 200-67.
- Gebelius, Sven R. V. Chair back adjusting means. 2,790,487, 4-30-57, Cl. 155-161.
- Gebert, William H. Reduction of 16-iodopregnane compounds. 2,787,623, 4-2-57, Cl. 260-397.4.
- Gebhard, Melvin L.: *See—*
Cross, Bert S., and Gebhard. 2,804,417.
- Gebhardt, Nell H. Ash removal system for trucks. 2,784,858, 3-12-57, Cl. 214-508.
- Gebhart, Lee, J. D. Fague, and D. Olson; said Fague and said Olson assors. to said Gebhart. Grapefruit-orange segment knife. 2,797,478, 7-2-57, Cl. 30-24.
- Gebr. Stäubli & Co.: *See—*
Stäubli, Heinrich H. 2,815,044.
- Gebr. Stork & Co's Apparatenfabrik N. V.: *See—*
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- Gebrüder Buhler: *See—*
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- Gebrüder Busatis: *See—*
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- Gebrüder Hapich-Gesellschaft mit beschränkter Haftung: *See—*
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- Gebrüder Junghans A. G.: *See—*
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- Gebrüder Sulzer, Aktiengesellschaft: *See—*
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- Gebrüder Buehler: *See—*
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- Gedde, Andrew A., and J. S. Moyer, to Fort Pitt Industries, Inc. Magnetic tape recording and play-back machine. 2,790,643, 4-30-57, Cl. 274-4.
- Geder, Harold J., to Counter and Control Corp. Automatic program controller. 2,818,473, 12-31-57, Cl. 200-38.
- Gee, Robert E.: *See—*
Clark, William B., and Gee. 2,813,122.
- Geecen Ltd.: *See—*
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- Geel, John J., to H. I. Goforth. Mechanical display apparatus. 2,794,283, 6-4-57, Cl. 40-126.

- Geels, Bernardus H., J. L. de Kroes, and W. H. J. Nicolai, to North American Phillips Co., Inc. Marking circuit-arrangement for positioning a final selector switch. 2,816,171, 12-10-57, Cl. 179-18.
- Geen, Arthur J. Container handling device in package combination. 2,801,743, 8-6-57, Cl. 206-65.
- Geen, Henry C., and J. D. Quist, $\frac{1}{2}$ to S. C. Johnson & Son, Inc., and $\frac{1}{2}$ to Simoniz Co. Polish. 2,812,263, 11-5-57, Cl. 106-10.
- Geer, Charles D., to G-V Controls, Inc. Thermostat. 2,798,134, 7-2-57, Cl. 200-137.
- Geer, John A.: See—
Polzin, Marvin H., Geer, and Fowler. 2,780,222.
- Geer, William J., to General Motors Corp. Valve rotator. 2,775,959, 1-1-57, Cl. 123-90.
- Geerds, Henry A., to Holland Hitch Co. Two station landing gear for semi-trailers. 2,776,148, 1-1-57, Cl. 280-150.5.
- Geerlings, Petrus J. Hog feeder. 2,808,029, 10-1-57, Cl. 119-53.5.
- Geersten, Nelson, to American Can Co. Can body respacing mechanism. 2,805,754, 9-10-57, Cl. 198-34.
- Geertsen, Nelson: See—
Nordquist, Ronald E. J., and Geertsen. 2,791,978.
- Geertsen, Nelson, to American Can Co. Detector for cemented sides seam can bodies. 2,787,240, 4-2-57, Cl. 118-6.
- Geertsen, Nelson, to American Can Co. Break-off key for key opening container. 2,815,145, 12-3-57, Cl. 220-52.
- Geffcken, Walter, C. Eden, and M. Faulstich, to Jenaer Glaswerk Schott & Gen. Process and apparatus for purifying glass. 2,781,411, 2-12-57, Cl. 13-31.
- Gegan, Roland F., to Pontiac Engraving & Electrotype Co. Carrier construction. 2,801,129, 7-30-57, Cl. 294-87.2.
- Gehauf, Bernard, and E. M. Faber, to the United States of America as represented by the Secretary of War. Process for the manufacture of diphenylurea. 2,806,062, 9-10-57, Cl. 260-553.
- Gehm, Robert: See—
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- Gehm, Rudolph F.: See—
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Sladky, Alexander C., and Gehm. 2,798,248.
- Gehman, Ivan C. Vehicle door with built-in vault. 2,798,445, 7-9-57, Cl. 109-50.
- Gehre, Hans. Measuring-wheel meters. 2,800,021, 7-23-57, Cl. 73-231.
- Gehres, Hewitt A., to The Cooper-Bessemer Corp. Gas engine. 2,799,255, 7-16-57, Cl. 123-1.
- Gehres, Hewitt A., to The Cooper-Bessemer Corp. Piston and piston ring construction. 2,806,750, 9-17-57, Cl. 309-7.
- Gehrie, Charles S., to Presto Lock Co. Combined latch and lock device. 2,798,371, 7-9-57, Cl. 70-73.
- Gehring, Arthur H. Fishing plug retriever. 2,801,489, 8-6-57, Cl. 43-17.2.
- Gehring, Harvey T.: See—
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- Gehring, Kurt C., to United States Steel Corp. Gas-discharge nozzle for use in furnaces. 2,807,506, 9-24-57, Cl. 299-141.
- Gehrke, Forrest E., F. J. Hughes, and J. W. Ritz, to Sylvania Electric Products Inc. Textile processing apparatus. 2,793,277, 5-21-57, Cl. 219-19.
- Gehrke, Kenneth W., to International Harvester Co. Belt tensioning device. 2,806,382, 9-17-57, Cl. 74-242.11.
- Geibel, Peter, to Firma Fichtel & Sachs A. G. Clutch disengaging ring. 2,810,464, 10-22-57, Cl. 192-109.
- Geier, John J., and L. L. Sundquist, to Hydro-Torque, Inc. Torque unit. 2,808,033, 10-1-57, Cl. 121-33.
- Geier, Leonard W.: See—
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- Geier, Leonard W., to Raytheon Mfg. Co. Indirectly-heated cathodes. 2,814,754, 11-26-57, Cl. 313-346.
- Geiger, Earl L. Method of and apparatus for making printing plates. 2,801,451, 8-6-57, Cl. 22-72.
- Geiger, Fred R. Castor. 2,812,532, 11-12-57, Cl. 16-18.
- Geiger, Hermann, and P. F. Aitchison, to Kingston Products Corp. Control switch for automatic headlight circuit. 2,810,801, 10-22-57, Cl. 200-86.5.
- Geiger, Max, to Ciba Ltd. Process for the purification of acrylic acid nitrile. 2,782,148, 2-19-57, Cl. 202-39.5.
- Geiger, Raymond D. Lock mechanism for a spare tire. 2,797,036, 6-25-57, Cl. 224-42.24.
- Geiger, Richard H., to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,788,464, 4-9-57, Cl. 315-3.5.
- Geiger, Rolf. Apparatus for temporarily supporting work pieces of duplicating machines and the like. 2,787,297, 4-2-57, Cl. 142-55.
- Geigy Chemical Corp.: See—
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- Geigy, J. R., A. G.: See—
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- Geil, Yeo J. Boat trailers. 2,809,496, 10-15-57, Cl. 61-67.
- Geiselman, Arnold: See—
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- Geiselman, Arthur J.: See—
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- Geiser, Edward M.: See—
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- Geiser, Edward M., to Universal Oil Products Co. Preparation of liquid hydrocarbon drying oils. 2,818,460, 12-31-57, Cl. 260-683.15.
- Geiser, Kenneth R., to General Electric Co. Current and force measuring instrument for welding machines. 2,784,050, 3-5-57, Cl. 346-49.
- Geiser, Paul E., to Continental Oil Co. Preparation of alkaryl sulfonic acids. 2,806,875, 9-17-57, Cl. 260-505.
- Geisler, Helmut J., to International Business Machines Corp. Glow discharge tube. 2,782,343, 2-19-57, Cl. 315-169.
- Geisler, Helmut J., to International Business Machines Corp. Glow discharge tube. 2,796,557, 6-18-57, Cl. 315-168.
- Geisler, William, to Wilbro Corp. Method of making lined bottle caps. 2,777,411, 1-15-57, Cl. 113-80.
- Geisler, William, to Wilbro Corp. Packing case. 2,791,366, 5-7-57, Cl. 229-35.
- Geissbuhler, John O., and W. W. Kirk, Jr., to General Electric Co. Light projection device. 2,782,297, 2-19-57, Cl. 240-41.3.
- Geissler, Carl A., to Underwood Corp. Machine for typing a tape record and a proof sheet simultaneously. 2,811,235, 10-29-57, Cl. 197-1.
- Geist, William J., to Continental Can Co., Inc. Lower end construction for fiber drums. 2,794,584, 6-4-57, Cl. 229-5.6.
- Geist, William L., W. G. Fienup, H. W. Putnam, R. A. Easter, and R. J. Zoeller, to R. C. Can Co. Dough package. 2,793,127, 5-21-57, Cl. 99-172.
- Geistlich, Ed, Shone A. G. für Chemische Industrie: See—
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Smith, Arthur E. W., and Hofstetter. 2,801,247.
- Geiszler, Adolph O., and M. A. Spielman, to Abbott Laboratories. Method of producing 2,2-disubstituted 1,3-propanediol dicarbamates. 2,806,053, 9-10-57, Cl. 260-482.
- Geiszler, Albert R.: See—
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- Geiszler, Martin. Land leveler. 2,795,060, 6-11-57, Cl. 37-153.
- Geks, Franz J., to Asta-Werke Aktiengesellschaft Chemische Fabrik. Apparatus for providing fresh cultures of living micro-organisms. 2,776,242, 1-1-57, Cl. 195-54.
- Gelardin, Albert. Self-feeding solid cosmetic container. 2,785,796, 3-19-57, Cl. 206-56.
- Gelardin, Albert. Animated flashlight figurine. 2,814,158, 11-26-57, Cl. 46-228.
- Gelardin, Albert. Direct reading, visual index forming, intersection pattern thread and line counter. 2,817,266, 12-24-57, Cl. 88-14.
- Gelb, Amiel, and G. E. Korb, to Stewart-Warner Corp. High temperature brazing alloys. 2,805,155, 9-3-57, Cl. 75-173.
- Gelbcke, Alexander, to St. Regis Paper Co. Multi-ply bags with stepped corner flaps. 2,810,509, 10-22-57, Cl. 229-55.
- Gelbman, Emery: See—
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- Geldhof, Peter E., to Whirlpool-Seeger Corp. Combination washing and drying machine. 2,793,518, 5-28-57, Cl. 68-19.
- Geldhof, Peter E., to Whirlpool-Seeger Corp. Self priming pump for automatic laundering machines. 2,808,783, 10-8-57, Cl. 103-103.
- Geldhof, Peter E., to Whirlpool-Seeger Corp. Caster jack assembly for automatic washing machines. 2,812,189, 11-5-57, Cl. 280-44.
- Gelfand, Jack. Dental measuring instrument. 2,787,837, 4-9-57, Cl. 33-172.
- Gelfand, Louis, to General Motors Corp. Domestic appliance. 2,790,887, 4-30-57, Cl. 219-37.
- Gelfand, Nathan M., and S. Noble, to Ideal Toy Corp. Inertia-propelled toy vehicle and launching runway. 2,788,613, 4-16-57, Cl. 46-202.
- Gelin, Richard, to General Foods Corp. Methods of assembling cartons and resulting carton products. 2,802,614, 8-13-57, Cl. 229-15.
- Gelinas, Gerard. Portable self-powered wood saw. 2,807,292, 9-24-57, Cl. 143-32.
- Gelinus, Donald: *See—*
- Pinard, Henri N. 2,810,528.
- Gellatly, John S.: *See—*
- Bouwman, Bert J., and Gellatly. 2,813,374.
- Gellenbech, Benjamin G.: *See—*
- Sarvis, Howard C. 2,806,288.
- Geller, Andrew, Inc.: *See—*
- Frost, Gustave. 2,782,433.
- Geller, Harold H.: *See—*
- Friden, Alexander, and Geller. 2,806,791.
- Geller, Irving. Lever action bumper straightener. 2,794,355, 6-4-57, Cl. 81-15.
- Geller, Jac S.: *See—*
- Fenton, Leonard, and Geller. 2,815,025.
- Geller, Julius: *See—*
- Ratte, Heinrich, and Geller. 2,795,538.
- Geller, Julius, and H. Ratte, to Rutgerswerke-Aktiengesellschaft. Distillation of phenol from aqueous phenolates. 2,815,389, 12-3-57, Cl. 260-627.
- Gellert, Hans-Georg: *See—*
- Ziegler, Karl, Gellert, and Martin. 2,786,860.
- Gellman, Allen B. Pyrophoric lighter. 2,791,110, 5-7-57, Cl. 67-7.1.
- Gelzheiser, Francis L.: *See—*
- Dorfman, Hiller D., and Gelzheiser. 2,811,607.
- Dyer, Lloyd W., and Gelzheiser. 2,809,255.
- Gelzheiser, Francis L., to Westinghouse Electric Corp. Circuit breaker. 2,798,918, 7-9-57, Cl. 200-116.
- Gelzheiser, Francis L., to Westinghouse Electric Corp. Circuit breaker. 2,806,103, 9-10-57, Cl. 200-88.
- Gelzheiser, Francis L., to Westinghouse Electric Corp. Circuit breaker. 2,816,990, 12-17-57, Cl. 200-144.
- Gelzheiser, Francis L., R. H. Flick, and H. E. Reichert, to Westinghouse Electric Corp. Circuit breaker. 2,797,278, 6-25-57, Cl. 200-116.
- Gemerek, Stanley W. File. 2,808,939, 10-8-57, Cl. 211-1.5.
- Gemex Corp., The: *See—*
- Sand, John F. 2,780,052.
- Sand, John F. 2,811,294.
- Gemignani, Hugo J., to Hickey-Freeman Co. Sleeve measurer. 2,813,340, 11-19-57, Cl. 33-2.
- Gemmer Mfg. Co.: *See—*
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- Hammond, Charles F. 2,816,455.
- Genco, Inc.: *See—*
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- Gency, William E.: *See—*
- Starck, Arthur M., and Gency. 2,778,069.
- Gency, William E., to Unique Balance Co., Inc. Adjustable foot mechanism for sash balances. 2,792,588, 5-21-57, Cl. 16-197.
- Gendron, Albert, and J. S. Lachenchuk. Brick facing machine. 2,809,625, 10-15-57, Cl. 125-23.
- Gendron Freres S. A.: *See—*
- Langer, Jean L. 2,788,862.
- Gendron Wheel Co.: *See—*
- Bauer, Lester L. 2,781,525.
- Lane, Sanford A., and Bauer. 2,810,429.
- Liebach, John C. 2,782,835.
- General American Transportation Corp.: *See—*
- Allen, John W. 2,788,913.
- Aller, Edmund R. 2,789,739.
- Talmei, Paul. 2,816,846.
- General Aniline & Film Corp.: *See—*
- Anspen, Harry D. 2,817,878.
- Baggenstoss, Alois C., and Stanley. 2,809,964.
- Barnes, Carl E., Ney, and Nummy. 2,809,958.
- Beiswanger, John P. G., and Mayhew. 2,814,593.
- Beller, Hans, and Altmann. 2,791,561.
- Benbrook, Charles H., and Herrick. 2,789,904.
- Bloom, Albert, and Graham. 2,789,147.
- Bloom, Albert, and Graham. 2,795,620.
- Bloom, Albert, and Graham. 2,795,621.
- Bloom, Albert, and Welch. 2,798,871.
- Brouillard, Robert E., Mutafis, and Shrader. 2,796,418.
- Brown, Arthur E. 2,811,547.
- Buc, Saul R. 2,809,984.
- Buc, Saul R. 2,809,985.
- Buc, Saul R., Randall, Smith, and Jackson. 2,783,244.
- Chiddix, Max E. 2,783,279.
- General Aniline & Film Corp.: *See—Continued*
- Chiddix, Max E., Hesse, and Williams. 2,809,999.
- Craig, Louis E. 2,785,133.
- Cross, James M. 2,779,741.
- Frantz, Frederick H., and Schink. 2,805,002.
- Frederick, Joseph E. 2,784,089.
- Frederick, Joseph E. 2,807,544.
- Freyermuth, Harlan B. 2,813,903.
- Freyermuth, Harlan B., and Strobel. 2,809,962.
- Gerhardt, Francis H., and Harriman. 2,805,948.
- Grosser, Frederick. 2,815,332.
- Hill, Wilbur G. 2,782,698.
- Hineline, Harris D. 2,810,648.
- Horwitz, Lester. 2,794,802.
- Huey, William G. 2,791,563.
- Jelinek, Charles F., Mayhew, and Yeager. 2,781,320.
- Kartinos, Nicholas J. 2,811,544.
- Kartinos, Nicholas J., and Normington. 2,806,872.
- Kartinos, Nicholas J., Normington, and Williams. 2,789,125.
- Kirby, Ben H., Jr. 2,818,432.
- Komas, John. 2,773,710.
- Lohr, Lester J. 2,802,777.
- Martin, Tellis A., and Randall. 2,795,583.
- Martin, Tellis A., and Randall. 2,795,584.
- Mayhew, Raymond L., Stevens, and Maxcy. 2,799,659.
- Mayhew, Raymond L., and Yeager. 2,781,321.
- Moore, Ralph G. D. 2,797,213.
- Nickolls, Kenneth R., and Williams. 2,783,287.
- Polhemus, John K. 2,808,769.
- Randall, David L., and Martin. 2,794,834.
- Ranger, Hubert O. 2,788,274.
- Roecker, Jack H. 2,785,118.
- Rudner, Bernard. 2,790,172.
- Schenck, Leslie M. 2,810,000.
- Schmidt-Nickels, Wilhelm. 2,794,805.
- Schmidt-Nickels, Wilhelm. 2,802,829.
- Schmidt-Nickels, Wilhelm, and Randall. 2,813,875.
- Schmidt-Nickels, Wilhelm, and Randall. 2,817,667.
- Stanley, Lester N., and Baggenstoss. 2,809,189.
- Stoner, George G., Azorlosa, and Albus. 2,805,210.
- Sweet, Monroe H. 2,797,334.
- Sweet, Monroe H. 2,803,794.
- Verborg, Robert M. 2,782,182.
- Von Glahn, William H., and Stanley. 2,789,140.
- Werner, Jesse, Steckler, and Hessel. 2,809,953.
- Werner, Jesse, Steckler, and Hessel. 2,813,844.
- Wilkinson, Joseph M., and Field. 2,815,354.
- Witwer, Daniel B., and Wilkinson. 2,811,449.
- Zoss, Abraham O. 2,799,669.
- General Bag & Burlap Co.: *See—*
- Korngold, Leon, and Bachman. 2,806,607.
- General Bronze Corp.: *See—*
- Hauck, Theodore. 2,787,034.
- Hauck, Theodore. 2,812,557.
- Hauck, Theodore. 2,812,812.
- Kamen, Ira, and Celjka. 2,818,538.
- General Business Machines, Inc.: *See—*
- Dexter, Mortimer J., and Stoddard. 2,804,266.
- General Cigar Co., Inc.: *See—*
- Frankenburg, Walter G. 2,797,689.
- General Controls Co.: *See—*
- Afor, Joe T. 2,804,131.
- Biggle, Laurence C. 2,792,440.
- Campbell, Robert L. 2,795,669.
- Grayson, John H., and R. D. 2,800,135.
- Grayson, Richard D. 2,777,639.
- Greenamyer, George P. 2,814,447.
- Mantz, Harold A. 2,804,525.
- McIntosh, Harold A. 2,816,213.
- O'Connell, Donald J., and Ray. 2,793,291.
- Ray, William A. Re. 24,321.
- Ray, William A. 2,788,482.
- Ray, William A. 2,791,920.
- Ray, William A. 2,798,764.
- Ray, William A. 2,803,495.
- Ray, William A. 2,807,689.
- Ray, William A. 2,809,662.
- Ray, William A. 2,810,005.
- Ray, William A., and Buescher. 2,813,426.
- Rouse, John H. 2,799,454.
- General Development Co.: *See—*
- Jauch, Robert J., and Kuckeberg. 2,794,679.
- General Dynamics Corp.: *See—*
- Armstrong, Loren K. 2,788,393.
- Baker, Adolph A., Jr. 2,802,900.
- Berch, William H. 2,780,676.
- Berch, William H. 2,790,851.
- Berch, William H. 2,810,841.
- Berch, William H. 2,813,930.
- Berch, William H. 2,815,405.
- Blow, Angus W. 2,813,152.
- Bordelon, Lawrence J. 2,786,916.
- Boyd, Richard K. 2,795,657.
- Breggin, Arnold H. 2,810,109.
- Breggin, Arnold H. 2,812,513.
- Copold, Milburn C. 2,782,574.
- Edgerton, Frank R. 2,806,104.
- Elliott, George. 2,782,260.
- Elliott, George. 2,810,081.
- Elliott, George. 2,816,238.
- Elliott, George. 2,816,262.

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 Fisher, Charles R., Jr. 2,806,086.
 Gatzert, Ernest H. 2,802,901.
 Gatzert, Ernest H. 2,806,089.
 Gatzert, Ernest H. 2,807,667.
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 Gatzert, Ernest H. 2,816,170.
 Gatzert, Ernest H. 2,816,172.
 Gordon, Garland R. 2,787,197.
 Harris, Leslie M., Jr., and Evans. 2,809,289.
 Holstrom, Allan. 2,778,976.
 Kessler, Frank. 2,781,418.
 Kessler, Frank. 2,786,890.
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 MacCheyne, George W. 2,815,586.
 Manley, Fred A. 2,805,728.
 McArdle, Beryl L. 2,792,525.
 McNaney, Joseph T. 2,777,745.
 McNaney, Joseph T. 2,790,103.
 McNaney, Joseph T. 2,803,769.
 McNaney, Joseph T. 2,805,360.
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 McNaney, Joseph T. 2,811,668.
 Morris, Frank A. 2,787,780.
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 Paul, Gerald R. 2,801,370.
 Pharis, William W. 2,785,237.
 Pharis, William W. 2,787,663.
 Pharis, William W. 2,790,852.
 Pharis, William W. 2,791,636.
 Pharis, William W. 2,792,452.
 Pharis, William W. 2,806,093.
 Pharis, William W. 2,816,957.
 Pharis, William W., and Fisher. 2,792,451.
 Reagan, Leon H. 2,797,268.
 Reagan, Leon H. 2,813,153.
 Risch, Theodore A., and King. 2,792,490.
 Rosenberg, Jack, Brewer, and Scuitto. 2,817,775.
 Sharp, Robert G., and Wright. 2,780,064.
 Sherman, Gale K. 2,783,821.
 Trousdale, Robert B. 2,778,936.
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 Weston, Joseph P. 2,790,853.
 Wharton, Armistead. 2,814,683.
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 Akeley, Lloyd T. 2,810,085.
 Albrecht, Warren F. 2,809,279.
 Aldrich, Richard W., Schaffner, and Suran. 2,780,752.
 Allen, Wendell P., and Lester. 2,791,729.
 Anderson, James T. 2,785,327.
 Anderson, Jo, and Robinson. 2,785,379.
 Anderson, Robert M. 2,791,113.
 Anderson, Robert M. 2,798,368.
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 Armstrong, John A. 2,806,807.
 Arnold, Max E. 2,813,922.
 Ashby, Bruce A., and Hoffman. 2,802,754.
 Atchison, Leonard W. 2,781,565.
 Atchison, Leonard W. 2,782,611.
 Atchison, Leonard W. 2,797,559.
 Augustauskas, Edward L. 2,782,496.
 Avery, Howard W. 2,815,718.
 Baclawski, Joseph E. 2,782,330.
 Baker, Marvin A. 2,802,960.
 Baldwin, George C. 2,803,767.
 Balke, Roy L. 2,778,964.
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 Baranowski, Frank, Jr., and Paine. 2,816,002.
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 Beattie, Clare L., and Parks. 2,797,865.
 Beatty, John W. 2,783,338.
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 Becker, Howard I. 2,800,616.
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 Beckwith, Robert W. 2,802,936.
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 Beggs, James E. 2,792,271.
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 Berg, David R., and Farnon. 2,813,767.
 Bergquist, Carl H. 2,798,509.
 Berlien, Paul B. 2,803,416.
 Berry, Theodore M. 2,783,540.
 Billett, Harry B. 2,813,982.
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 Bivens, Maurice E. 2,793,329.
 Bixler, Harley H. 2,801,525.
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 Bloomberg, David J. 2,816,417.
 Bluestein, Ben A. 2,793,198.
 Bochan, John. 2,792,701.
 Bochan, John, and Toma. 2,807,952.
 Bodge, Philip K. 2,814,949.
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 Boothe, Willis A. 2,787,253.
 Borman, Philip K. 2,779,997.
 Borman, Philip K. 2,801,803.
 Bosch, Robert E., and Cooper. 2,812,128.
 Brandt, William E., and Davis. 2,797,279.
 Breidenberg, Alfred, Jr. 2,811,684.
 Brenner, Sidney S. 2,805,192.
 Brezovsky, Bernard J. 2,805,826.
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 Brown, Carlisle A., and Kowalczyk. 2,802,969.
 Brown, Delbert L. 2,812,413.
 Brown, Donald V. 2,793,197.
 Brown, Donald V. 2,804,440.
 Brown, Edgar D., Jr. 2,798,858.
 Browning, George V., and Bueche. 2,809,180.
 Brynes, Kermit. 2,815,499.
 Bueche, Arthur M., and Oliver. 2,805,958.
 Burgener, Donald R., and Hertz. 2,795,722.
 Bussey, Howard C. 2,816,178.
 Cady, William R., and Mulhern. 2,814,735.
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 Capps, James H. 2,808,554.
 Carbary, Richard J. 2,795,474.
 Carbary, Richard J. 2,803,510.
 Carlson, Harold G., and Hupp. 2,800,621.
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 Case, Norton M. 2,782,284.
 Casey, Robert T. 2,783,330.
 Casey, Robert T. 2,786,917.
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 Chamberlain, Harvey H. 2,816,265.
 Chausse, Burnette P. 2,791,733.
 Chiabrandy, Robert E., and Taylor. 2,787,460.
 Christley, Howard J. 2,788,532.
 Clark, Earl J., and Libby. 2,791,667.
 Clark, Edward B. 2,809,763.
 Clark, Edward B. 2,814,509.
 Clark, Edward B. 2,814,510.
 Clark, Frank M. 2,782,248.
 Clark, James R. 2,810,113.
 Clark, Kendall. 2,815,923.
 Cockburn, Curtis D. 2,787,707.
 Coggeshall, Thellwell R. 2,789,186.
 Coggeshall, Thellwell R. 2,810,808.
 Coggeshall, Thellwell R., and Bany. 2,804,576.
 Cole, Quintin P. 2,776,306.
 Connor, Thomas J., and Blumberg. 2,791,553.
 Conover, William B., and Gray. 2,776,020.
 Cook, Newell C., and Wolfe. 2,785,119.
 Cooper, Glenn D. 2,789,121.
 Cooper, Glenn D. 2,811,540.
 Cooper, James M. 2,802,167.
 Cooper, Kenneth K. 2,776,542.
 Cordingly, Norman C. 2,808,517.
 Cordray, Richard E. 2,797,369.
 Corrin, Myron L. 2,803,617.
 Coutant, Edward R. 2,784,279.
 Crandall, Eugene L. 2,795,640.
 Crandall, Eugene L. 2,798,899.
 Crandell, Robert B., Shepard, and Maulshagen. 2,818,550.
 Cressman, George W. 2,791,114.
 Crever, Frederick E. 2,783,391.
 Crowley, George C. 2,801,318.
 Cunningham, Eldon R. 2,810,536.
 Curley, Bruce A. 2,802,958.
 Cusano, Dominic A., and Studer. 2,789,062.
 Dahlgren, John A. 2,807,942.
 Dally, Roy. 2,776,342.
 Dantowitz, Philip. 2,816,731.
 Darrow, Kenneth A. 2,793,657.
 Darrow, Kenneth A. 2,803,396.
 Darrow, Kenneth A., and Johnson. 2,814,431.
 Davey, Peter E. 2,801,870.
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 Day, Robert G. 2,790,133.
 Dayton, Carl S., and Clark. 2,778,212.
 Dean, Kenneth R. 2,791,713.
 Deas, Vann J., Jr. 2,806,120.
 De Groat, Charles T. 2,792,854.
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 Desch, Philip F. 2,803,785.
 De Wolf, George L. 2,792,510.
 Dickinson, Theodore M. 2,815,450.
 Dietz, Leonard A. 2,788,451.
 Dilts, Lee E. 2,781,796.
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 Dochterman, Richard W. 2,782,720.
 Doigan, Paul. 2,792,871.
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Donahoo, Joe T. 2,801,354.
 Downs, Jack E. 2,815,645.
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 Dresnek, Albert L. 2,795,289.
 Dunkelman, Robert L. 2,779,305.
 Dunkelman, Robert L. 2,807,889.
 Dunlap, William C., Jr. 2,776,920.
 Dunn, George B., Jr. 2,794,138.
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 Dunn, Jenus L. 2,783,466.
 Dushek, Charles C., and Montella. 2,786,606.
 Dutton, John C. 2,809,228.
 Earle, Verde H. 2,801,319.
 Easley, Jack H., and Smith. 2,776,393.
 Eggenberger, Markus A. 2,811,837.
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 Ellis, Calvin L. 2,807,679.
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 Emmons, Kenneth. 2,798,596.
 Engeler, William E. 2,802,160.
 Ericson, Franklin R. 2,777,466.
 Etherington, Theodore L. 2,794,322.
 Ewing, Lewis M. 2,783,295.
 Faus, Harold T., and Pike. 2,810,037.
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 Faustini, Albert J., and McKenzie. 2,778,966.
 Favre, John A. 2,811,596.
 Fehr, Edith B., and Haase. 2,787,723.
 Feiertag, Karl M., and Wightman. 2,778,965.
 Ferverda, Harold L. 2,786,006.
 Ferverda, Harold L. 2,802,120.
 Ffield, Haven G. 2,801,524.
 Finholt, Robert W., and Wunch. 2,789,926.
 Finlayson, Frank E. 2,777,226.
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 Fisher, Lawrence E. 2,786,151.
 Fisher, Lawrence E. 2,786,152.
 Flaws, John, Jr., Dilts, and Hollopetre. 2,802,308.
 Fleming, Karl J. 2,803,034.
 Fleming, Karl J., and De Mott. 2,818,011.
 Florentine, Frank P., Jr. 2,793,221.
 Florentine, Frank P., Jr. 2,793,228.
 Flynn, Edward J. 2,814,581.
 Foley, Thomas P. 2,781,216.
 Foley, Thomas P. 2,795,015.
 Foley, Thomas P. 2,811,936.
 Foulds, Arthur E., and Peterson. 2,807,787.
 Francis, Wallace R. 2,787,771.
 Frank, Edward J. 2,794,881.
 Freeman, Arthur H. 2,789,183.
 Freeman, John D. 2,780,230.
 French, Richard W. 2,816,180.
 Fridrich, Elmer G. 2,813,327.
 Fridrich, Elmer G. 2,813,993.
 Friedman, Arnold I. 2,793,137.
 Froelich, Herman C. 2,798,854.
 Fry, George H., Jr. 2,803,887.
 Gabrielson, Samuel. 2,787,908.
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 Geiser, Kenneth R. 2,784,050.
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 Genuit, Luther L. 2,804,583.
 George, Philip D. 2,802,852.
 George, Philip D. 2,802,853.
 Getchell, Benjamin E. 2,779,840.
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 Gosling, Joseph B. 2,813,957.
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 Graham, John M. 2,799,756.
 Granfield, John C. 2,797,396.
 Graser, Clarence F. 2,813,476.
 Graves, Donald E. 2,817,076.
 Grimshaw, Charles S. 2,795,674.
 Grimshaw, Charles S. 2,811,841.
 Grovemiller, Dale A., and Landgraf. 2,805,406.
 Grubb, Willard T., Jr. 2,789,109.
 Gruen, Wolf J. 2,810,783.
 Gurewitsch, Anatole M. 2,786,982.
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 Guth, Lauren W. 2,803,715.
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 Habermann, Rudolph, Jr. 2,778,963.
 Hahn, Clarence E. 2,784,531.
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 Hall, Robert N. 2,778,980.
 Hall, Robert N. 2,806,983.
 Hamm, Clarence L., and Baumann. 2,778,958.
 Hannig, William A., and Silver. 2,799,821.
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 Hardy, Francis H., and Scamman. 2,788,507.
 Harse, Douglas H. 2,776,414.
 Hartley, Lloyd S., and Malewicz. 2,788,028.
 Hartung, Theodore M., and Forness. 2,784,582.
 Hathaway, Charles T. 2,800,512.
 Hathaway, Charles T. 2,800,514.
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 Hawes, Bradford K. 2,816,279.
 Hayba, Franklin P. 2,811,737.
 Hebb, Malcolm H. 2,803,766.
 Hebbel, Emil E., and Eichelberger. 2,778,895.
 Hemphill, Lawrence F. 2,807,844.
 Hemsworth, Martin C. 2,800,766.
 Hemsworth, Martin C. 2,811,379.
 Henderson, Wayne L. 2,790,962.
 Henderson, Wayne L. R. 2,779,496.
 Henderson, Wayne L. R. 2,815,492.
 Herbert, Robert J. 2,783,197.
 Hermann, Benjamin R. 2,812,475.
 Herrick, Carlyle S. 2,794,328.
 Herrick, Carlyle S. 2,794,329.
 Hewlett, Clarence W. 2,780,569.
 Hill, Ezra C., and Proxmire. 2,787,769.
 Hilliker, Donald E. 2,780,075.
 Hinman, Maurice B. 2,790,916.
 Hoecker, Albert C. 2,794,275.
 Hoecker, Albert C. 2,802,288.
 Hoecker, Albert C. 2,802,289.
 Hoecker, Albert C. 2,810,218.
 Hoffer, Arnold H. 2,811,685.
 Holden, Abe N., Burke, Reynolds, and Lukesh. 2,798,957.
 Holdstock, Norman G. 2,803,638.
 Holmes, Robert G. 2,816,195.
 Hood, Charles N., II. 2,781,422.
 Horn, Fordyce H. 2,806,961.
 Horton, Paul B. 2,797,175.
 Horvay, Julius B. 2,812,965.
 Howell, John F. 2,783,387.
 Hubbard, James R. 2,780,335.
 Hull, Edwin H. 2,799,445.
 Hurd, Dallas T., and Boldebeck. 2,802,897.
 Hurford, Winslow L. 2,784,246.
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 Hutt, Philip. 2,793,257.
 Hutt, Philip. 2,802,915.
 Hutt, Philip. 2,810,029.
 Hutt, Philip. 2,810,049.
 Hutt, Philip. 2,813,158.
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 Inman, George E. 2,805,308.
 Ipsen, Peter G., and Cotton. 2,809,010.
 Irby, William. 2,793,868.
 Jackson, Stuart P., and Bacon. 2,815,472.
 Jacobs, John E., and Berger. 2,809,323.
 Jacobson, John W. 2,815,644.
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 Janos, Alfred G. 2,813,741.
 Jenne, Frank, Jr. 2,802,961.
 Jette, William H. 2,809,537.
 Jewell, William R. 2,779,618.
 Jewell, William R. 2,801,872.
 Johnson, Kenneth C. 2,797,080.
 Johnson, Peter D. 2,813,411.
 Johnson, Peter D. 2,813,412.
 Johnson, Wallace M. 2,780,786.
 Johnson, Wallace M., and Williams. 2,779,926.
 Jones, Ray D., and Oldenkamp. 2,815,460.
 Kain, John F. 2,815,493.
 Kain, John F., and Pinkham. 2,800,525.
 Kalikow, Irving. 2,790,311.
 Kalikow, Irving. 2,802,555.
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 Kantor, Simon W. 2,785,147.
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 Kather, William S. 2,803,561.
 Kather, William S., Litster, and Brown. 2,803,613.
 Kelley, Floyd C. 2,806,786.
 Kellogg, Harry L., and Abbott. 2,809,348.
 Kemnitz, Warren N. 2,788,541.
 Kemnitz, Warren N. 2,788,936.
 Kemnitz, Warren N. 2,810,453.
 Keonjian, Edward, and Suran. 2,801,340.
 Ketteringham, Terence A., and Machin. 2,815,473.
 Kimball, Donald G. 2,798,924.
 King, Ralph E., and Hubacker. 2,776,547.
 Kintz, Robert M. 2,795,020.
 Kirkham, Floyd L. 2,810,567.
 Kirkpatrick, George M. 2,784,909.
 Kitzmiller, Mendel W. 2,777,080.
 Kizaur, Arthur J. 2,810,837.
 Kleczek, Walter S. 2,787,126.
 Knight, James L. 2,805,558.
 Knight, James L. 2,812,964.
 Koch, Robert E. 2,792,472.
 Kooiker, Paul I., and Rose. 2,797,560.
 Kowalczyk, Joseph W. 2,800,630.

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Krantz, Karl W. 2,810,704.
 Krebs, James N. 2,812,159.
 Kropp, Paul M., Jr. 2,818,487.
 Kuebler, Robert A. 2,795,246.
 Kuehni, Hans P. 2,780,404.
 Kuennig, Robert W. 2,786,967.
 Kunkelman, Robert L. 2,796,679.
 Kurowski, Victor J. 2,784,044.
 Labastie, Albert H., and Poole. 2,780,737.
 Lafferty, James M. 2,777,084.
 Lafferty, James M. 2,777,088.
 Lane, Arnold W. 2,790,893.
 Langmuir, Robert V. 2,806,955.
 Larew, John J. 2,796,556.
 Latham, Allen, Jr. 2,777,814.
 Lattner, Bruce B. 2,780,924.
 Lautenberg, Elmer W., and Holmes. 2,790,935.
 Lautenberger, Elmer W. 2,799,809.
 Lawry, Clinton C., and Wells. 2,805,543.
 Lawry, Clinton C., and Wells. 2,805,546.
 Lawson, Gustaf R., and Johnson. 2,784,305.
 Lawson, Gustaf R., and Benander. 2,798,914.
 Leeds, Laurance M. 2,797,317.
 Lemmers, Eugene. 2,795,692.
 Lemmers, Eugene, and Kovach. 2,805,354.
 Lennox, Thomas C. 2,779,899.
 Lennox, Thomas H. 2,813,963.
 Lennox, Thomas H. 2,816,202.
 Lester, Burton R. 2,781,447.
 Levine, Harvey. 2,781,467.
 Levine, Samuel J. 2,808,488.
 Lewis, Frederick M. 2,810,705.
 Lewis, Walter E., and Jordan. 2,785,266.
 Lichtenfels, Ira W. 2,807,770.
 Loeffler, John R. 2,778,982.
 Loewenthal, Henry J., and Staats. 2,783,723.
 Loft, Arne. 2,797,336.
 Lord, Harold W. 2,803,784.
 Low, Frank D. 2,780,198.
 Low, Frank D. 2,813,534.
 Lundberg, John E. 2,809,526.
 Lupfer, David A. 2,785,994.
 Lynch, Donald W., and Pinter. 2,807,943.
 MacFee, Fred O., Jr., and Yorgy. 2,785,377.
 MacIntyre, John R. 2,780,703.
 Magester, Earl H. 2,776,550.
 Magester, Earl H. 2,808,309.
 Maltby, Truman W., and Pickett. 2,812,462.
 Manning, Ralph M., Kernander, Murray, and Camp. 2,816,184.
 Marble, Chester B. 2,789,412.
 Marshall, Walter L., and Kohn. 2,789,155.
 Martin, Robert W. 2,804,480.
 Martiniak, Leonard J. 2,809,648.
 Martinson, Arthur. 2,777,665.
 Matelsky, Isaac. 2,805,344.
 Mathis, Vernon P. 2,792,499.
 Mathis, Vernon P., and Suran. 2,802,117.
 Mattox, William A. 2,791,473.
 Maure, Douglas R., and Gardiner. 2,787,727.
 Mayhan, Leonard O., Jr. 2,789,367.
 McArthur, Elmer D. 2,792,520.
 McArthur, Elmer D. 2,792,524.
 McArthur, Elmer D. 2,793,316.
 McArthur, Elmer D. 2,813,997.
 McCreadie, Robert S. 2,781,499.
 McDonald, Robert S. 2,806,957.
 McFarland, George L. 2,814,678.
 McEntee, Harry R. 2,786,861.
 McGrew, Thomas A., and Wachter. 2,780,925.
 McKeag, Alfred H. 2,809,167.
 McKenzie, Robert T. 2,808,527.
 McMillan, Stephen L. 2,813,353.
 Mesick, Harry F., Jr. 2,776,472.
 Michaelis, Harold A. 2,786,929.
 Michaelis, Harold A. 2,805,314.
 Miklas, Frank C. 2,802,921.
 Miklas, Frank C. 2,806,107.
 Milford, Richard E. 2,803,755.
 Millar, Norval P. 2,788,491.
 Miller, Meritt L. 2,809,349.
 Miller, John W., and Sherman. 2,785,509.
 Millis, Walter T. 2,788,503.
 Minnecl, Salvatore. 2,780,735.
 Mollenberg, Leroy. 2,811,656.
 Mollenberg, Leroy. 2,811,657.
 Molnar, William R. 2,807,949.
 Moore, Fred W. 2,787,423.
 Moore, George E., and Cooner. 2,791,883.
 Moore, Walter L., Jr. 2,782,057.
 Morey, Everett D. 2,807,893.
 Morgan, Walter A. 2,805,375.
 Neugebauer, Franz J., Lustenader, Macaulay, and Tomlinson. 2,801,134.
 Neumann, Gerhard. 2,781,054.
 Newberry, Sterling P., and Summers. 2,814,729.
 Newell, John R. 2,803,323.
 Nolan, Terence C. 2,810,057.
 Nye, James R. 2,802,180.
 Oakes, William S., Jr. 2,805,404.
 Olthuis, Eugene G. 2,790,247.
 Olthuis, Eugene G. 2,812,593.

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Omer, Kenner S., Jr. 2,784,839.
 Oppel, John A. 2,804,513.
 Orsino, Anthony J. 2,802,332.
 Ott, George E. 2,795,093.
 Ozarow, Vernon. 2,791,524.
 Page, Robert G., and Hobson. 2,802,922.
 Parsons, James R., and Macaulay. 2,782,597.
 Patterson, Charles F. 2,792,640.
 Patterson, Le Roy R., Jr. 2,808,310.
 Pearson, Donald L. 2,816,398.
 Penn, Claude I. 2,804,589.
 Peters, Philip H., Jr., and Wilbur. 2,810,095.
 Peters, Philip H., Jr., and Wilbur. 2,810,096.
 Phaneuf, Edgar A., Springer, and Enochs. 2,818,518.
 Picozzi, Vincent J. 2,817,027.
 Pigman, Calvin D. 2,776,554.
 Pipkin, Marvin. 2,781,654.
 Porath, Norman F. 2,776,357.
 Powell, David B. 2,809,362.
 Powers, Howard A., Mutti, and Boyles. 2,782,274.
 Powers, James H. 2,784,914.
 Powers, James H. 2,814,355.
 Powers, James H. 2,815,569.
 Powers, James H. 2,818,134.
 Powers, Wallace F., and Bradstock. 2,790,122.
 Powers, Wesley R. 2,802,959.
 Prideaux, Donald W. 2,798,943.
 Pritchard, Robert L. 2,777,065.
 Pruehs, Leslie L. 2,777,038.
 Pulaski, John W. 2,784,455.
 Radnar, Richard R., and Straney. 2,788,659.
 Raczyński, Walter J. 2,800,008.
 Rankin, Andrew W. 2,790,620.
 Rao, Gadicherla V. R. 2,791,088.
 Rechnitzer, Buren W. 2,815,479.
 Records, John K. 2,779,001.
 Ree, Arthur E. 2,777,103.
 Reihman, Earl F. 2,810,047.
 Reinker, Gerald E. 2,795,721.
 Reiter, George R. 2,813,737.
 Reynolds, Kenneth W., Billson, and Rausch. 2,788,157.
 Rhoades, John M. 2,787,254.
 Rice, Neil O. 2,781,479.
 Rich, Theodore A. 2,791,901.
 Rich, Theodore A. 2,794,955.
 Rich, Theodore A. 2,812,443.
 Ring, Elliot. 2,780,914.
 Rives, Frank M., Berigan, Godwin, Siegel, and Zebley. 2,815,869.
 Roberts, Edward H. 2,781,153.
 Roberts, John A. 2,784,479.
 Roberts, John A. 2,795,716.
 Robinson, John C. 2,809,137.
 Rohats, Nicholas. 2,815,481.
 Root, Augustin A., and Clark. 2,780,778.
 Rose, Stanley E. 2,796,745.
 Rosen, Charles A. 2,816,236.
 Rossin, Peter C., Jr. 2,799,046.
 Roth, Adrian W. 2,804,577.
 Roth, Walter. 2,791,897.
 Rowe, Robert F. 2,779,812.
 Royall, William R., Jr. 2,795,019.
 Rudolph, George. 2,781,427.
 Runicman, William A. 2,791,565.
 Russell, Glen A., and Mayo. 2,794,055.
 Russer, Harold G., and Copeland. 2,811,304.
 Sager, Julien E. M. 2,798,963.
 Samsel, Richard W. 2,792,508.
 Savage, Robert H. 2,816,197.
 Schaeffer, Robert L. 2,816,685.
 Schaffer, Herman W. 2,814,368.
 Scheldorf, Owen H. 2,782,637.
 Scheuermeyer, Emil. 2,800,558.
 Schmerheim, John F. 2,813,330.
 Schmidt, August, Jr. 2,797,381.
 Schneider, Fred B. 2,796,949.
 Schneider, Fred B. 2,797,859.
 Schubert, Albert E., and Etherington. 2,799,142.
 Schumacher, Frank A. 2,805,555.
 Schumacher, Frank A. 2,813,635.
 Schweg, Frederic P., and Hansen. 2,777,326.
 Scisnone, Philip, Scheuermeyer, and Shavney. 2,807,681.
 Scott, William J. 2,813,226.
 Sears, Gerald W. 2,813,811.
 Seeley, Harold T. 2,802,945.
 Seely, Richard E. 2,782,353.
 Shafer, Sylvester N., and Plunkett. 2,802,178.
 Shea, Richard F. 2,794,076.
 Shepard, Billy R., and Maulshagen. 2,818,505.
 Shepherd, Neal H. 2,777,998.
 Sheppard, Raymond. 2,796,748.
 Sheppard, Raymond, and Maxwell. 2,800,299.
 Sherratt, George W., and Hahn. 2,795,512.
 Simone, Peter F. 2,776,571.
 Sims, Marion W. 2,804,584.
 Sims, Marion W., and Proxmire. 2,791,660.
 Skage, Wallace V. 2,775,912.
 Skaggs, Merit B. 2,791,112.
 Skala, George F. 2,813,962.
 Slattery, John P. 2,777,303.
 Slonneger, John L. 2,804,519.
 Smeaton, Thomas F. 2,809,140.

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Smith, Andrew N., and Butrym. 2,804,917.
 Smith, Andrew N., and Van Nest. 2,799,473.
 Smith, Chester A. 2,812,459.
 Smith, Philip J. 2,797,391.
 Smith, Sidney R., Jr. 2,809,350.
 Snell, James H., Jr. 2,805,355.
 Snyder, Ralph H. 2,809,373.
 Solley, Douglas A., Jr. 2,783,030.
 Solley, Douglas A., Jr. 2,801,526.
 Solley, Douglas A., Jr., and Horvay. 2,795,691.
 Solley, Douglas A., Jr., and Schumacher. 2,779,170.
 Solomon, Myer M. 2,803,614.
 Somers, William P. 2,811,601.
 Somerville, Gareth G. 2,780,787.
 Somerville, Gareth G. 2,812,505.
 Spencer, George W. 2,811,713.
 Spiegelhalter, William G. 2,777,302.
 Spiegelhalter, William G. 2,782,612.
 Spooner, Laurence W., and Joyner. 2,804,908.
 Staak, Julius H. 2,789,238.
 Staak, Julius H. 2,815,458.
 Staak, Louis E. 2,788,206.
 Staak, Louis E. 2,804,516.
 Staak, Louis E., and Willits. 2,816,199.
 Stahl, Alfred E. 2,789,683.
 Stephenson, Hugh M. 2,807,458.
 Stewart, Vincent N., and Fornwalt. 2,776,346.
 Stocking, George E. 2,785,009.
 Stone, Aidan M. 2,782,655.
 Stone, Aidan M. 2,807,890.
 Stowell, John F. 2,811,615.
 Strecker, Charles E. 2,793,326.
 Strecker, Charles E. 2,796,554.
 Strecker, Charles E. 2,810,100.
 Strong, Herbert M., and Bundy. 2,776,776.
 Suesserott, Charles F. 2,776,797.
 Suhr, Fred W. 2,782,351.
 Suhr, Fred W. 2,795,712.
 Suhr, Fred W. 2,797,347.
 Suhr, Fred W. 2,807,765.
 Suits, Chauncey G. 2,809,802.
 Sullivan, Earle C. 2,801,326.
 Summerhayes, Harry R., Jr. 2,791,931.
 Summerhayes, Harry R., Jr. 2,798,966.
 Summerhayes, Harry R., Jr. 2,803,161.
 Suran, Jerome J., and Chow. 2,792,494.
 Swan, Dean R. 2,798,200.
 Swanson, Harry G., and De Fusco. 2,806,132.
 Swenson, Alfred G. 2,810,812.
 Taft, Ernest A., and Apker. 2,813,991.
 Taylor, Edward C. 2,781,885.
 Taylor, Hamilton D. 2,778,962.
 Taylor, Herbert W. 2,786,966.
 Terry, Paul V. 2,788,410.
 Thames, Preston B., Jr. 2,780,239.
 Thiess, Ludwig E. 2,809,898.
 Thomas, David C., and Hunter. 2,816,159.
 Thomas, William A. 2,776,349.
 Thomas, William A. 2,779,831.
 Thurell, John R., Jr. 2,807,761.
 Todd, Harry H., Jr. 2,782,831.
 Townsend, George R. 2,811,617.
 Truesdell, Francis W. 2,815,409.
 Truesdell, Francis W., and Van Bennekom. 2,800,248.
 Urban, Fred O. 2,807,940.
 Vallorani, Ben J. 2,778,914.
 Vance, Paul A. 2,784,384.
 Van der Grinten, Willem J. 2,793,244.
 Vargo, Paul, and Foster. 2,808,636.
 Vermilyea, David A. 2,808,542.
 Vigneaux, Lawrence E. 2,786,525.
 Vonnegut, Bernard. 2,794,341.
 Wall, Robert L., and Duckwald. 2,803,760.
 Warhus, John D. 2,781,058.
 Warhus, John D. 2,786,483.
 Watson, Wallace B. 2,797,411.
 Watts, Bernard N. 2,813,995.
 Webber, Stanley E. 2,799,828.
 Webster, Harold F. 2,803,772.
 Weeks, Walter R. 2,788,734.
 Weeks, Walter R. 2,812,414.
 Weeks, Walter R. 2,816,203.
 Wegman, Ernest C., and Wilson. 2,814,955.
 Wells, Bruce A. 2,805,544.
 Wells, Robert S., and Beeson. 2,777,743.
 Wendt, Harry C. 2,794,181.
 Wendt, Harry C. 2,801,542.
 Wetzell, John W. 2,802,850.
 White, William C. 2,806,991.
 Whiting, Carl A. 2,804,056.
 Whitman, Lawrence C. 2,777,009.
 Wightman, Lawrence W. 2,783,069.
 Wightman, Lawrence W. 2,787,960.
 Wilbur, Donald A., and Peters. 2,803,773.
 Williams, Ferd E., and Young. 2,806,969.
 Williams, Milton S., Jr. 2,806,119.
 Williams, Reade. 2,814,769.
 Willyoung, David M. 2,791,707.
 Woestemeyer, Francis B. 2,806,366.
 Woestemeyer, Francis B. 2,811,344.
 Woestemeyer, Francis B. 2,816,748.
 Wolfe, John K. 2,806,817.

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Wolfe, John K., and Cook. 2,786,862.
 Woodruff, Thomas E. 2,797,403.
 Woodward, Stewart A. 2,810,027.
 Worst, Joseph C. 2,784,584.
 Worth, Thomas F. 2,782,327.
 Wright, Burton G. 2,812,488.
 Yates, Charles G., Jr. 2,790,946.
 Yoder, Joe B. 2,808,857.
 Yohe, Charles E. 2,808,492.
 Yoler, Yusuf A. 2,783,684.
 Yoler, Yusuf A., and Cobine. 2,790,354.
 Young, Charles M. 2,797,379.
 Zelt, Elmer J. 2,786,883.
 Zelt, Elmer J., and Hamilton. 2,810,112.
 Zemany, Paul D. 2,814,018.
 Ziffer, Garret F. 2,789,162.
 Zimmer, John S. 2,814,690.
 Zubal, Anthony, and Russell. 2,803,274.
 Zunick, Michael J. 2,784,284.
 Zunick, Michael J. 2,806,958.
 Zunick, Michael J., and Cummings. 2,813,210.
 Zunick, Michael J., and Goodrick. 2,816,241.
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 Arbon, Robert S., Elson, and Hunt. 2,786,892.
 Bayliss, Alan J. 2,787,708.
 Beesley, John H. 2,799,806.
 Beesley, John H. 2,817,481.
 Breadner, Robert L., Neill, and Simms. 2,787,510.
 Bushman, Robert N. 2,817,814.
 Chamberlain, Harvey H. 2,817,819.
 Chubb, Alexander A., and Levy. 2,779,821.
 Donelan, James A. 2,797,304.
 Elson, David W. 2,790,953.
 Goodman, Colin H. L. 2,814,004.
 Green, Edward C., Jones, and Pitkin. 2,793,951.
 Hewitt, William H. L., and Simpson. 2,791,621.
 Imm, Ronald C. 2,802,102.
 Knott, Ralph D. 2,810,873.
 Murray, George, and Watkins. 2,788,445.
 Plummer, Alexander R. F. 2,794,899.
 Robins, Wilfred P. 2,783,383.
 Rose, William R. 2,799,755.
 Rudge, Thomas R. 2,779,927.
 Simpson, Arthur I. F., and Warrington. 2,778,229.
 Small, George F. 2,790,959.
 Sowter, Anthony B. 2,792,145.
 Stenning, Luis C. 2,786,900.
 Ward, Peter W. 2,802,057.
 General Engineering Co. Ltd., The : See—
 Segsworth, Robert S. 2,785,214.
 Segsworth, Robert S. 2,809,263.
 General Films, Inc. : See—
 Weikert, Roy J. 2,783,599.
 General Filter Co. : See—
 Lawlor, Joseph P. Re. 24,275.
 General Fire Appliance Co. Ltd., The : See—
 Fuller, Eric R. A. 2,797,134.
 General Fireproofing Co., The : See—
 Anderson, Alfred H. 2,805,911.
 Reitzel, Clarence R. 2,793,927.
 General Foods Corp. : See—
 Birds, Jack P. 2,776,278.
 Block, Harry W., Common, and Dreher. 2,784,099.
 Cameron, James K. 2,806,792.
 Clausi, Adolph S. 2,801,924.
 Colten, Frank P., and Di Pietro. 2,796,348.
 Colten, Frank P., and Di Pietro. 2,796,349.
 De Maya, Charles B., and Winston. 2,783,152.
 Finucane, Thomas P. 2,776,893.
 Gelin, Richard. 2,802,614.
 Gorman, Howard. 2,797,815.
 Heald, Daniel J. 2,787,549.
 Jett, John H., and Snyder. 2,787,806.
 MacDougall, Hugh C. 2,812,255.
 MacLean, Robert B. 2,784,684.
 Mitchell, William A. 2,785,072.
 Mix, Albert L. 2,783,801.
 Novitsky, Peter. 2,793,121.
 General Grinding Wheel Corp. : See—
 MacMaster, Harry D. 2,808,688.
 General Hardware Mfg. Co., Inc. : See—
 Ehler, Herman W. 2,799,942.
 General Industries Co., The : See—
 Carneke, Robert C. 2,780,744.
 Hartman, Herbert L. 2,803,141.
 General Instrument Corp. : See—
 Fisher, Berne N., and Chesney. 2,795,693.
 Julian, Charles N., Gagne, and Gostyn. 2,795,700.
 General Latex & Chemical Corp. : See—
 Osborn, Kenneth B. 2,775,998.
 General Mfg. Corp. : See—
 Sacksteder, Richard C. 2,785,872.
 General Metalware Co. : See—
 Niggeler, Jacob F. 2,800,107.
 General Mills, Inc. : See—
 Aelony, David. 2,811,549.
 Aelony, David. 2,814,643.
 Aelony, David. 2,816,911.
 Andersen, Donald L. 2,816,920.
 Andres, William A., Clemons, and Trettel. 2,794,106.
 Breland, Keller. 2,796,044.

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Callaghan, Robert W., and Freer. 2,791,506.
 Chang, Robert W. H., and Barker. 2,810,754.
 Duncanson, Robert H. 2,793,448.
 Dunshee, Bryant R., and Keller. 2,795,503.
 Erickson, John G. 2,776,314.
 Erickson, John G. 2,807,910.
 Erickson, John G. 2,808,401.
 Erickson, John G. 2,808,404.
 Erickson, John G. 2,815,339.
 Erickson, John G. 2,815,340.
 Fischer, Paul E., and Coffey. 2,817,935.
 Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,606.
 Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,607.
 Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,608.
 Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,609.
 Franklin, Edmond G. 2,780,697.
 Franklin, Edmond G. 2,786,114.
 Franklin, Edmond G. 2,786,115.
 Franklin, Edmond G. 2,793,268.
 Freese, Royce G. 2,810,752.
 Harpole, Murray J., and James. 2,816,256.
 Harrison, Stuart A. 2,789,985.
 Harrison, Stuart A. 2,808,418.
 Harrison, Stuart A., and Aelony. 2,787,633.
 Huber, Louis J. 2,788,277.
 Kizzek, Roger A. 2,779,534.
 Lentz, Thomas H., Opie, and Terry. 2,816,870.
 Long, George, and Rustad. 2,792,772.
 Long, George, and Tsuchiya. 2,817,284.
 Opie, Joseph W. 2,795,543.
 Polivka, John N. 2,797,292.
 Raible, Ellesworth E. 2,803,073.
 Reid, Alan A. 2,786,511.
 Roll, William G., and Rand. 2,786,928.
 Schott, Howard H. 2,799,102.
 Schott, Howard H. 2,808,775.
 Schott, Howard H. 2,817,169.
 Schott, Howard H., and Burmeister. 2,817,912.
 Stuetzer, Otmar M. 2,806,115.
 Terry, David E., and Jakobsen. 2,784,232.
 Van Krevelen, Edward R. 2,782,400.
 Von Edeskuty, Joseph J. 2,809,576.
 Wittcoff, Harold, and Jordan. 2,811,459.
 Wittcoff, Harold, and Renfrew. 2,811,495.
 Zastrow, Thomas S. 2,779,841.

General Motors Corp. : See—

Abresch, Carel F. 2,787,901.
 Abresch, Carel F., and McCormick. 2,808,063.
 Adams, Daniel M. 2,807,899.
 Addie, Albert N. 2,782,613.
 Addie, Albert N. 2,807,135.
 Adloff, Jakob A. 2,793,048.
 Albrecht, Leonard N. 2,795,265.
 Anderson, Arthur J. 2,785,447.
 Andrews, Bernard D. 2,785,580.
 Appenzeller, Robert C. 2,783,404.
 Armington, Arthur P. 2,801,702.
 Armington, Arthur P. and G. E. 2,783,849.
 Armington, Raymond Q., Carroll, Mazzarins, and Williams. 2,786,724.
 Armington, Stewart F. 2,789,377.
 Arnold, Charles F., and Holmes. 2,800,068.
 Assmus, Waldemar. 2,776,135.
 Atkinson, Robert P. 2,778,565.
 Atkinson, Robert P. 2,812,196.
 Bacon, Elbridge F. 2,779,442.
 Baker, Albert D., and Brown. 2,798,906.
 Baker, Marshall W. 2,784,563.
 Baker, Marshall W. 2,807,151.
 Baker, Marshall W., Henney, and Johnston. 2,779,162.
 Baker, Max P., and Sampson. 2,800,777.
 Bales, Max G. 2,782,247.
 Barcus, Edward L. 2,798,913.
 Barcus, Edward L., Falge, and Fuqua. 2,800,542.
 Barish, Thomas. 2,780,297.
 Barish, Thomas, Irwin, Line, and Wright. 2,780,298.
 Barish, Thomas, Moeller, Treseder, and Wright. 2,707,761.
 Barnes, William E., and Harry. 2,818,027.
 Baumgarten, Jochem. 2,783,978.
 Beare, Charles H. 2,798,257.
 Beck, George W., and Rentz. 2,782,495.
 Belfry, William A. 2,800,067.
 Benda, Edward K. 2,779,190.
 Bennett, Bailey, and McFadden. 2,788,334.
 Berninger, Kenneth L., and Covert. 2,781,053.
 Berninger, Kenneth L., Neef, and Wels. 2,791,237.
 Bertsch, Joseph F. 2,786,454.
 Bidwell, Joseph B. 2,789,429.
 Black, Herbert H. 2,789,550.
 Black, Herbert H. 2,797,673.
 Blackburn, Mack O., Garber, and Wright. 2,786,538.
 Blanchard, Werner J., Haines, Martin, and MacNeil. 2,804,155.
 Bodem, Roy C. 2,782,766.
 Bodem, Roy C., and Light. 2,811,951.
 Bohnhoff, Arthur F., and Toschkoff. 2,791,185.
 Bohnhoff, Arthur F., and Wysong. 2,802,354.

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Boretti, Napoleon P. 2,800,916.
 Boretti, Napoleon P. 2,810,431.
 Bower, Kendall O. 2,783,430.
 Bowers, Roy L. 2,801,009.
 Bowers, Roy L. 2,808,139.
 Boyce, Arnold L. 2,783,145.
 Boylan, Henry W. 2,809,620.
 Breeding, David C. 2,780,442.
 Breining, Elmer R., and Vincent. 2,817,628.
 Bremer, Robert D. 2,799,767.
 Brill, William E. 2,787,994.
 Brill, William E. 2,789,549.
 Brill, William E. 2,793,078.
 Brittain, Richard J., Jr. 2,793,088.
 Brittain, Richard J., Jr. 2,813,764.
 Brittain, Richard J., Jr. 2,814,537.
 Broffitt, Wilgus S. 2,801,075.
 Broffitt, Wilgus S. 2,811,833.
 Broffitt, Wilgus S. 2,817,490.
 Brookbank, Glen E. 2,802,540.
 Brookbank, Glen E. 2,808,257.
 Brooks, Frank W. 2,788,095.
 Brown, William E. 2,783,318.
 Brown, William E. 2,788,407.
 Brown, William E. 2,791,677.
 Brown, William E. 2,811,598.
 Brown, William E., and Cole. 2,800,541.
 Brown, William E., and Elliott. 2,779,827.
 Brown, William E., and Elliott. 2,783,324.
 Brown, William E., and Elliott. 2,807,680.
 Brown, William E., and Elliott. 2,810,794.
 Bruckner, Byron L. 2,801,549.
 Brugler, Dale A. 2,814,841.
 Buchanan, Ross W., and Gold. 2,779,687.
 Buck, Robert J., and Ball. 2,797,269.
 Buckman, Kenneth E. 2,792,124.
 Burch, Lewis D. 2,803,237.
 Burch, Lewis D. 2,810,378.
 Burch, Lewis D. 2,815,924.
 Butler, Lyman W. 2,795,951.
 Bychinsky, Wilfred A. 2,814,665.
 Candor, Robert R. 2,782,622.
 Canter, James A. 2,783,083.
 Canter, James A. 2,784,564.
 Carson, Stanley R. 2,800,731.
 Cary, Beecher B., and Muller. 2,800,973.
 Cassidy, Robert J. 2,781,830.
 Caughill, Robert F. 2,782,008.
 Chambers, Clarence G., and Spaulding. 2,791,516.
 Chayne, Charles A. 2,781,750.
 Chayne, Charles A. 2,791,263.
 Chayne, Charles A., and Dolza. 2,798,663.
 Christen, Eugene W. 2,817,512.
 Christenson, Howard W. 2,792,716.
 Christenson, Howard W. 2,808,138.
 Christianson, Wallace A. 2,803,199.
 Christy, Paul J., and Dinsmore. 2,782,863.
 Clark, Harry F. 2,786,171.
 Clark, Harry F. 2,788,413.
 Clark, Harry F. 2,801,312.
 Clark, Harry F. 2,808,553.
 Clark, William B. 2,798,532.
 Clason, Bertil H. 2,790,043.
 Clason, Bertil H. 2,794,879.
 Clason, Bertil H. 2,816,189.
 Clevenger, Carl L. 2,782,663.
 Clingman, Paul E., and Schamel. 2,782,058.
 Cobb, Edwin S., and Burdette. 2,795,523.
 Cobb, Leland D. 2,793,729.
 Cobb, Leland D. 2,812,839.
 Cole, Edward N., and Naudzius. 2,779,498.
 Cole, Ward. 2,782,491.
 Constant, Peter R. 2,800,799.
 Cromwell, Harold J. 2,808,815.
 Cromwell, Harold J., and Short. 2,788,414.
 Cumming, Frederick W., and Mowers. 2,798,933.
 Czuba, Walter T., and Wolfram. 2,800,037.
 Daniels, William H. 2,809,862.
 Darrah, Carl W. 2,802,620.
 Davies, Robert, and Heffner. 2,786,363.
 De Beaubien, William J., Kaiser, and Holmes. 2,810,270.
 Deeley-Jones, Arnold E. 2,807,491.
 Dermond, Lawrence C. 2,789,544.
 Dermond, Lawrence C. 2,808,244.
 Derner, William J., and Hencken. 2,801,394.
 De Voe, James H. 2,781,914.
 Dew, Joseph H. 2,788,302.
 Dicken, Maxwell A., and Kelm. 2,817,319.
 Dickson, John. 2,791,989.
 Diedring, John H. 2,814,722.
 Diehl, Ward F., and Purcell. 2,803,093.
 Dietrich, Howard H. 2,791,995.
 Dilworth, Thomas B. 2,812,860.
 Doane, Harry C. 2,779,164.
 Doane, Harry C. 2,781,597.
 Doerfner, William H. 2,779,206.
 Dolza, John. 2,796,057.
 Dolza, John. 2,797,674.
 Dolza, John. 2,801,827.
 Dolza, John. 2,808,041.
 Dolza, John, Bielicki, and Pierce. 2,789,545.
 Dolza, John, and Burnell. 2,783,510.

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Dolza, John, and Pease. 2,779,422.
 Dolza, John, and Pierce. 2,778,345.
 Dougherty, Floyd G. 2,781,637.
 Doughty, Robert T. 2,818,131.
 Dryer, Ervin W. 2,783,661.
 Duckworth, Ralph J. 2,791,894.
 Dunn, Raymond E. 2,800,800.
 Dybvig, Edwin S. 2,817,124.
 Dyer, John B. 2,790,333.
 Dyer, John B., and Wallis. 2,785,430.
 Earl, Harley J. 2,795,455.
 Edwards, William G. 2,806,207.
 Ehman, Shirley F. 2,807,992.
 Eichner, Ferdinand R. 2,779,862.
 Eichner, Ferdinand R. 2,779,864.
 Eickmeier, Edward W., and Olson. 2,818,239.
 Elliott, Harold V. 2,785,255.
 Elliott, Harold V. 2,808,476.
 Elliott, Harold V., and Brown. 2,804,512.
 Estes, Elliott M., and Lenning. 2,779,209.
 Etchells, Eugene B. 2,807,253.
 Etchells, Eugene B. 2,811,959.
 Evans, Jesse L. 2,794,434.
 Evans, Ronald K. 2,785,666.
 Evans, Ronald K. 2,787,129.
 Evans, Ronald K. 2,798,662.
 Falge, Robert N. 2,800,578.
 Falge, Robert N. 2,814,749.
 Falge, Robert N., and Mead. 2,783,452.
 Falge, Robert N., and Mead. 2,800,641.
 Falge, Robert N., and Miller. 2,806,180.
 Ferris, Donald K. 2,806,402.
 Filmer, Philip G. 2,817,269.
 Finken, Warren E. 2,806,557.
 Fisher, Walter S. 2,800,123.
 Fleming, James D. 2,807,511.
 Fleming, James D., and De Hart. 2,817,562.
 Fletcher, William A., and Todd. 2,811,058.
 Forbush, Lothrop M. 2,791,297.
 Forbush, Lothrop M., and Hutchinson. 2,809,869.
 Frei, Arthur J. 2,809,499.
 Frei, Arthur J. 2,809,500.
 Frey, Edward J. 2,781,059.
 Frey, Edward J. 2,781,060.
 Frey, Edward J. 2,781,061.
 Frey, Edward J. 2,785,132.
 Frey, Edward J. 2,802,486.
 Frey, Edward J. 2,808,210.
 Fry, Millard E. 2,790,056.
 Fry, Millard E. 2,790,886.
 Fry, Millard E. 2,792,486.
 Fry, Millard E. 2,798,144.
 Fry, Millard E. 2,811,627.
 Fry, Millard E. 2,816,999.
 Fry, Millard E., and McCormick. 2,816,998.
 Fryer, Edward R. 2,778,129.
 Fryer, Edward R., and Adams. 2,788,999.
 Fuqua, Lloyd T., and Doane. 2,791,721.
 Gallin, Robert. 2,782,609.
 Gardiner, Arthur W. 2,793,491.
 Gardiner, Arthur W. 2,803,397.
 Garvey, Louis P., Semar, and Tanaka. 2,809,789.
 Gaubatz, Arthur W. 2,778,241.
 Gaubatz, Arthur W. 2,784,354.
 Gaubatz, Arthur W. 2,786,667.
 Gaubatz, Arthur W. 2,793,023.
 Gaubatz, Arthur W. 2,797,812.
 Gaubatz, Arthur W. 2,804,526.
 Gaubatz, Arthur W. 2,806,075.
 Gaubatz, Arthur W. 2,808,007.
 Gaubatz, Arthur W. 2,811,871.
 Gaubatz, Arthur W., Prachar, Wheatley, and Zimmerman. 2,809,503.
 Gaugler, Richard S. 2,778,200.
 Gaugler, Richard S., and Galin. 2,801,527.
 Gaugler, Richard S., and Schweller. 2,779,066.
 Geer, William J. 2,775,959.
 Gelfand, Louis. 2,790,887.
 Geyer, Harvey D., and Carson. 2,779,895.
 Geyer, Howard M. 2,787,749.
 Geyer, Howard M. 2,793,503.
 Geyer, Howard M. 2,801,615.
 Geyer, Howard M. 2,801,616.
 Geyer, Howard M. 2,802,454.
 Geyer, Howard M. 2,804,053.
 Geyer, Howard M. 2,804,054.
 Geyer, Howard M. 2,806,383.
 Geyer, Howard M. 2,806,450.
 Geyer, Howard M. 2,815,005.
 Geyer, Howard M., and Ruhl. 2,810,256.
 Geyer, Howard M., and Tootle. 2,791,128.
 Gierwiatowski, Olgierd. 2,812,430.
 Gladen, Lawrence C. 2,806,126.
 Glaeser, Friedrich. 2,793,906.
 Glowzinski, Chester J., and Maurer. 2,781,425.
 Gold, Robert M., and Lincoln. 2,815,737.
 Gold, Robert M., Lincoln, and Smith. 2,798,461.
 Goldthwaite, John L., and Wilder. 2,799,918.
 Graham, Robert W. 2,818,051.
 Guggi, Walter B. 2,788,486.
 Gurney, David M. 2,817,728.
 Habsburg-Lothringen, Stefan, and Quinn. 2,795,772.

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 Hamilton, Robert C. 2,782,601.
 Hamilton, Robert C. 2,782,602.
 Hanink, Dean K. 2,785,451.
 Hanink, Dean K. 2,798,827.
 Hanink, Dean K. 2,809,423.
 Harbour, Albert S., and Leach. 2,800,805.
 Harness, Lawrence W. 2,807,870.
 Harris, Edward P., and Sampson. 2,817,875.
 Hassler, John. 2,783,362.
 Haut, Clarence A. 2,816,972.
 Hayden, Clyde G. 2,795,308.
 Hazen, Ronald M., and Prachar. 2,798,360.
 Heath, Thomas C. 2,788,412.
 Heck, Burnette. 2,788,870.
 Hefner, Bert H. 2,803,696.
 Helgeby, Ralph. 2,802,442.
 Helgeby, Ralph O. 2,793,605.
 Helgeby, Ralph O. 2,798,174.
 Helke, Robert C. 2,778,462.
 Heller, Joseph N., and Spahr. 2,804,161.
 Helvern, James O. 2,804,177.
 Henney, Charles F. 2,784,549.
 Henney, Charles F., and Gould. 2,793,834.
 Herndon, Walter B. 2,781,682.
 Herndon, Walter B. 2,790,327.
 Herndon, Walter B., and Thorman. 2,805,628.
 Hess, William. 2,812,702.
 Hess, William, Potocnik, and Walther. 2,793,907.
 Hession, Joseph P. 2,814,180.
 Heuser, Helmut C. 2,793,992.
 Himka, John. 2,798,761.
 Hoagg, Donald D. 2,814,211.
 Hoban, John T. 2,817,510.
 Hockert, Chester E. 2,807,436.
 Hoeltje, Fred W. 2,779,435.
 Hoffman, Henry C. 2,792,625.
 Holin, William F. 2,781,872.
 Holin, William F. 2,817,302.
 Hollingsworth, Teddy E., Matter, and Smith. 2,786,003.
 Holly, Norman A., and Ford. 2,798,632.
 Holmes, John R. 2,793,836.
 Holmes, John R., Godfrey, and Caughill. 2,796,239.
 Holmes, John R., Reynolds, and Schwarz. 2,815,916.
 Holmes, John R., Zwicker, and Mandy. 2,787,888.
 Holton, Charles D. 2,787,915.
 Hope, Lawrence F. 2,783,649.
 Houghton, John, and Edney. 2,784,569.
 Hovde, Arne J. 2,818,055.
 Hunt, Letcher B., Jr. 2,793,785.
 Hutchins, Everett C. 2,795,039.
 Hutchins, Everett C. 2,816,211.
 Hutchinson, Roland V. 2,789,438.
 Jackson, George W. 2,787,475.
 Jackson, George W. 2,802,664.
 Jackson, George W. 2,802,674.
 Jackson, George W. 2,807,146.
 Jackson, George W. 2,809,051.
 Jacobs, James W. 2,779,163.
 Jacobs, James W. 2,780,077.
 Jacobs, James W. 2,781,642.
 Jacobs, James W. 2,806,358.
 Jacobs, James W. 2,807,147.
 Jacobs, James W. 2,807,148.
 Jacobs, James W. 2,807,172.
 Jacobs, James W. 2,807,246.
 Jacobs, James W. 2,807,344.
 Jacobs, James W. 2,812,642.
 Jacobs, James W. 2,817,123.
 Jacobs, James W., and Gould. 2,779,168.
 Jensen, William K. 2,817,720.
 Johnson, Lauren L. 2,783,425.
 Johnson, Lauren L. 2,786,170.
 Johnston, Rodney M. 2,778,576.
 Jorgensen, Clarence H. 2,778,915.
 Jorgensen, Clarence H. 2,810,814.
 Julian, Clarence L., and Redick. 2,816,968.
 Jumisco, Roy A. 2,778,119.
 Jumisco, Roy A. 2,787,896.
 Kaiser, Herman S. 2,779,615.
 Kapanka, William F., and Meyer. 2,775,783.
 Karcher, Harry C. 2,775,864.
 Karcher, Harry C. 2,793,495.
 Karn, James D., McMichael, and McMullen. 2,783,855.
 Kaufman, Daniel L. 2,787,130.
 Kearney, William K., and Schwarz. 2,775,895.
 Kelley, Oliver K. 2,782,659.
 Kelley, Oliver K. 2,803,974.
 Kelley, Oliver K. 2,814,214.
 Kelley, Oliver K., and Hause. 2,816,630.
 Kelley, Oliver K., and Qualman. 2,781,858.
 Kendall, Larrabee T. 2,785,738.
 Kesling, Keith K. 2,807,837.
 Kesling, Keith K., and Jacobs. 2,808,497.
 Kessler, James R. 2,815,082.
 King, William F. 2,787,907.
 Kinsey, Claude J. 2,795,978.
 Kirk, Robert E. 2,782,391.
 Kirk, Robert E. 2,802,194.
 Kolbe, Adelbert E. 2,793,625.
 Kolbe, Adelbert E., and Sherrick. 2,815,682.
 Kubacka, Joseph E. 2,775,997.

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Kubacka, Joseph E. 2,800,361.
 Kubacka, Joseph E., and Limberg. 2,817,558.
 La Belle, Jack E., Lahr, and Hanson. 2,818,359.
 Landell, Stanford. 2,788,100.
 Landell, Stanford. 2,804,346.
 Landell, Stanford. 2,815,986.
 Larabell, Wilfred J. 2,779,048.
 Lashbrook, Thomas E. 2,793,412.
 Lautzenhiser, Argyle G. 2,806,918.
 Lauve, Henry de S. 2,802,693.
 Leach, Clayton B. 2,782,775.
 Leach, Clayton B. 2,792,820.
 Leggat, John W. 2,809,707.
 Legge, George D. 2,812,097.
 Lenning, Carroll K. 2,778,898.
 Leshner, Kenneth W. 2,812,750.
 Leslie, James D. 2,796,276.
 Leslie, James D., Fox, and Muller. 2,807,201.
 Lewis, Carl W. 2,807,847.
 Lewis, Donald B. 2,778,444.
 Lewis, Donald B. 2,781,861.
 Lillquist, Torsten O. 2,806,149.
 Lincoln, Clovis W., Wyson, and Malone. 2,802,371.
 Lincoln, Clovis W., Zeigler, and Gold. 2,779,427.
 Lincoln, Clovis W., Zeigler, and Verbrugge. 2,779,199.
 Lincoln, Clovis W., Zeigler, and Verbrugge. 2,800,801.
 Lincoln, Clovis W., Zeigler, Verbrugge, and Olson. 2,792,463.
 Lloyd, William H., Disinger, and Hayden. 2,778,606.
 Lobanoff, Arkady A. 2,812,558.
 Lobanoff, Arkady A. 2,815,796.
 Long, George B. 2,778,613.
 Long, George B. 2,782,292.
 Long, Paul J., and Schultze. 2,785,774.
 Loria, Samuel F. 2,797,431.
 Loring, Thomas W., Carson, and Davis. 2,800,730.
 Lyon, Merrill K., and Tanaka. 2,796,113.
 Madion, Edmond E. 2,802,395.
 Mahoney, Donald G. 2,781,952.
 Maina, Mario J. 2,785,776.
 Makela, Armas G., McClelland, and Wernig. 2,800,676.
 Malone, Stephen P., and Long. 2,790,659.
 Mann, Leonard J. 2,797,720.
 Martin, Edward J., and White. 2,786,354.
 Martin, James J. 2,814,720.
 Martin, William, and Lange. 2,786,173.
 Marvin, John T. 2,793,427.
 Mathues, Thomas O. 2,810,301.
 Maurer, Philip W. 2,779,154.
 Maurer, Philip W. 2,791,100.
 McCarthy, Charles N. 2,795,969.
 McCarthy, Charles N. 2,811,865.
 McCarty, Verle E. 2,788,386.
 McCarty, Verle E. 2,788,401.
 McClelland, Clarence P. 2,795,145.
 McCormick, Francis H. 2,817,157.
 McCotter, Harold J. 2,793,539.
 McDonnell, Joseph M., and Mowers. 2,786,455.
 McDonnell, Joseph M., and Mowers. 2,802,458.
 McDougal, Taine G. 2,783,409.
 McDowall, Charles J., and Gaubatz. 2,804,241.
 McDuffie, Archie D. 2,796,243.
 McKinley, Charles W. 2,778,446.
 McLean, Robert F. 2,780,076.
 McLean, Robert F., and Schilling. 2,797,951.
 McMaster, Wardley D. 2,805,844.
 McMullen, Wesley W. 2,783,857.
 McMullen, Wesley W. 2,789,662.
 McMullen, Wesley W., and Heller. 2,779,431.
 Mead, Howard C., and Miller. 2,809,399.
 Mears, William T. 2,786,129.
 Mersheimer, Hans. 2,800,359.
 Mersheimer, Hans, and Heintke. 2,788,223.
 Meyer, Engelbert A. 2,793,071.
 Miller, Dale W., and Battenberg. 2,798,563.
 Miller, Samuel B., and Millhouse. 2,776,545.
 Mitchell, Ralph H. 2,800,383.
 Morton, Craig V. 2,807,448.
 Moyer, David F. 2,812,403.
 Moyer, David F. 2,815,420.
 Muller, Lloyd E. 2,799,902.
 Muller, Lloyd E., and Bayley. 2,800,285.
 Murphy, John M., and Mann. 2,792,691.
 Mushovic, Peter, and Schultz. 2,782,498.
 Nelson, Corless B. 2,782,054.
 Nichols, Charles A., Weiser, and Goodwin. 2,781,678.
 Nickles, Ned F. 2,817,559.
 Norris, James C. 2,809,619.
 O'Brien, Charles J. 2,808,254.
 O'Brien, John F., Frei, and Waag. 2,800,775.
 Olley, Maurice. 2,803,140.
 Olson, Elmer. 2,782,025.
 Olson, Elmer. 2,785,880.
 Olson, Elmer. 2,793,844.
 Olson, Elmer. 2,797,905.
 Olson, Elmer. 2,800,314.
 Olson, Elmer. 2,804,087.
 Olson, Elmer. 2,815,942.
 Olson, Elmer. 2,818,238.
 Olson, Elmer, and Sternaman. 2,792,203.
 Olson, Elmer, and Winter. 2,810,560.
 O'Malley, John J. 2,809,536.

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Onksen, George W., and Miller. 2,808,539.
 Opitz, Eric J. 2,791,094.
 Owen, Webster J. 2,807,153.
 Papenguth, Loren R. 2,818,050.
 Patrick, James D. 2,812,295.
 Pearce, George C. 2,782,403.
 Pearce, George C. 2,801,325.
 Pearce, George C. 2,815,428.
 Percival, Worth H. 2,778,348.
 Peterson, Victor W. 2,796,139.
 Pichler, Joseph R. 2,806,357.
 Pichler, Joseph R., Brubaker, Shuler, and Wark. 2,779,165.
 Pierce, Earl R. 2,795,291.
 Pierce, Earl R., and Ransom. 2,797,675.
 Pierce, Earl W. 2,801,384.
 Podolan, Edward G. 2,797,958.
 Podolan, Edward G. 2,815,977.
 Prachar, Otakar P. 2,802,618.
 Ragsdale, La Verne B. 2,779,051.
 Ragsdale, La Verne B. 2,799,889.
 Ragsdale, La Verne B. 2,799,891.
 Ragsdale, La Verne B. 2,805,442.
 Ragsdale, La Verne B. 2,808,280.
 Ragsdale, La Verne B. 2,812,535.
 Ragsdale, La Verne B. 2,812,536.
 Ramsey, D. Paul. 2,815,822.
 Ransom, George P. 2,810,462.
 Rappaport, George. 2,809,130.
 Rassweiler, Gerald M., and Weller. 2,775,885.
 Rataiczak, Francis I. 2,799,550.
 Rataiczak, Francis I., and Pearson. 2,794,323.
 Raver, Louis J. 2,817,830.
 Redick, David C. 2,807,729.
 Redick, David C., and McCarty. 2,790,020.
 Rice, Lyman A. 2,807,869.
 Rice, Lyman A. 2,811,677.
 Riesing, Ellwood F. 2,797,944.
 Riesing, Ellwood F. 2,804,325.
 Rike, Richard C. 2,793,501.
 Rike, Richard C. 2,811,835.
 Ripplingille, Edward V. 2,782,009.
 Ripplingille, Edward V. 2,810,347.
 Rohr, Henry C. 2,786,175.
 Roush, Roy W., Jr. 2,811,958.
 Ruegg, Max, and Polhemus. 2,789,812.
 Sampson, Frederick W. 2,779,166.
 Sampson, Frederick W. 2,786,108.
 Sampson, Frederick W. 2,793,793.
 Sargeant, Walter E. 2,776,379.
 Saunders, Orson V., Murphy, and Sharpe. 2,810,271.
 Saunders, Orson V., and Petkowitz. 2,790,696.
 Schaefer, Robert M., and Kelley. 2,782,658.
 Schamel, Clyde H. 2,795,452.
 Schamel, Clyde H., and Semar. 2,803,290.
 Schamel, Clyde H., and Semar. 2,812,538.
 Schartzwalder, Karl, and Ortman. 2,793,956.
 Schauer, George W., Jr. 2,790,057.
 Schauer, George W., Jr. 2,809,267.
 Schjolin, Hans O. 2,782,871.
 Schjolin, Hans O. 2,784,568.
 Schjolin, Hans O. 2,810,269.
 Schjolin, Hans O., and Isbell. 2,788,091.
 Schluchter, Alfred W. 2,807,540.
 Schmeling, William H. 2,817,727.
 Schmittke, Benjamin. 2,789,361.
 Schneider, Paul L., and Taylor. 2,778,228.
 Scholz, Charles F., and Krausse. 2,782,298.
 Schultz, Harold W. 2,809,422.
 Schumaker, Walter G., and Stone. 2,791,465.
 Schutt, Arthur J. 2,814,448.
 Schwarz, Bertram A. 2,800,027.
 Schweller, Edmund F. 2,778,201.
 Schweller, Edmund F. 2,794,243.
 Schweller, Edmund F., and Robbins. 2,785,538.
 Semar, Claud S. 2,779,050.
 Semar, Claud S. 2,805,886.
 Semar, Claud S. 2,810,153.
 Seymour, Leo E., and Tessmar. 2,815,979.
 Sharpe, Verlos G. 2,780,926.
 Sharpe, Verlos G. 2,808,708.
 Sharpe, Verlos G., and Simmons. 2,779,169.
 Shaw, Willard C., and Elliott. 2,794,884.
 Shearer, Wendell B. 2,794,325.
 Shigley, Donald G. 2,817,601.
 Shipe, Paul J. 2,778,742.
 Shipe, Paul J., and Stosuy. 2,789,901.
 Short, Brooks H. 2,809,301.
 Sihvonen, Kauno E. 2,783,643.
 Simmons, Edward C. 2,781,645.
 Simmons, Edward C. 2,802,346.
 Simmons, Edward C., and Robbins. 2,785,539.
 Sipe, Threll L. 2,795,159.
 Sisson, Kenneth O. 2,795,126.
 Slone, Howard L., Clayton, and Barcus. 2,811,592.
 Smart, Clarence F. 2,779,725.
 Smart, Clarence F. 2,817,629.
 Smith, Ben J., and F. E. 2,795,456.
 Smith, Glen A. 2,782,062.
 Smith, John H. 2,792,064.
 Smith, Robert W. 2,794,059.
 Smith, Robert W., and Schwartzwalder. 2,786,819.

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Smith, Warren H. 2,792,817.
 Soroka, Theodore J. 2,797,497.
 Squibb, George R., and Urquhart. 2,803,509.
 Stallings, John A. 2,804,324.
 Stapleton, Robert W. 2,785,636.
 Steinmann, Robert. 2,814,536.
 Stickel, Carl A. 2,780,008.
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- Gerke, Roscoe H., and T. Shevov, to United States Rubber Co. Textile article coated with terpolymer of butadiene, acrylonitrile and methacrylic acid. 2,791,520, 5-7-57, Cl. 117-161.
- Gerks, Irvin H., to Collins Radio Co. Amplitude distribution analyzer. 2,779,869, 1-29-57, Cl. 250-20.
- Gerks, Irvin H., to Collins Radio Co. Means for determining cross-correlation coefficients, such as between diversity signals. 2,800,583, 7-23-57, Cl. 250-20.
- Gerlach, Elizabeth J.: *See*—
Copeman, Lloyd G. 2,781,159.
- Gerlach, John R., to Kwikset Locks, Inc. Extension for tubular latches. 2,776,155, 1-1-57, Cl. 292-1.
- Germain, Ernest, to L. Germain. Condiment castor. 2,788,920, 4-16-57, Cl. 222-142.6.
- Germain, Leo M., to Shawinigan Chemicals Ltd. Process for preparing humic acid beads and product. 2,815,329, 12-3-57, Cl. 252-179.
- Germain, Lillian: *See*—
Germain, Ernest. 2,788,920.
- Germaine, Louis H. Automotive signalling system. 2,794,082, 5-28-57, Cl. 200-52.
- German, Dwight: *See*—
Monroe, Charles Z., and German. 2,780,900.
- German, Michael Jr., to Crown-Zellerbach Corp. Container with locking cover. 2,788,932, 4-16-57, Cl. 229-34.
- Germanich, John. Electrical vehicle speed controller. 2,776,722, 1-8-57, Cl. 180-82.1.
- Germann, Werner, to Fabrique Suisse de Crayons Caran d'Ache S. A. Mechanical pencil. 2,800,109, 7-23-57, Cl. 120-14.5.
- Germann, Werner, to Fabrique Suisse de Crayons Caran d'Ache S. A. Ball point pen. 2,802,447, 8-13-57, Cl. 120-42.03.
- Germanton, Charles E., to Bell Telephone Laboratories, Inc. Register circuit. 2,807,796, 9-24-57, Cl. 340-166.
- Germer, Lester H., and J. L. Smith, to Bell Telephone Laboratories, Inc. Contact protection circuits. 2,802,149, 8-6-57, Cl. 317-11.
- Germeshausen, Kenneth J. Gaseous-discharge device. 2,812,465, 11-5-57, Cl. 313-207.
- Germon, Wesley M. Electric heater. 2,803,734, 8-20-57, Cl. 219-19.
- Gerosa, Vittorina: *See*—
Galimberti, Paolo, and Gerosa. 2,813,105.
- Gerot Pharmazeutika Dipl. Ing. Dr. W. Otto and Dr. G. Gergely: *See*—
Gergely, Gerhard. 2,776,973.
- Geroulo, Michael J., and R. H. C. Yil, to Sprague Electric Co. Voltage regulated power supply. 2,800,625, 7-23-57, Cl. 323-56.
- Gerow, Gordon P., to Consolidated Electrodynamics Corp. Vacuum pump. 2,797,043, 6-25-57, Cl. 230-45.
- Gerowin, Kibby. Device for protecting artificial flowers on women's outer garments. 2,813,619, 11-19-57, Cl. 206-1.
- Gerrans, William A. Fluid actuated tool. 2,814,872, 12-3-57, Cl. 30-288.
- Gerrard A. J. & Co.: *See*—
Gerrard, John M., and Ross. 2,803,299.
Gerrard, John M., and Ross. 2,816,337.
Palmleaf, Herbert. 2,776,764.
- Gerrard, John M., and M. E. Ross, to A. J. Gerrard & Co. Grain door for a railway car. 2,803,299, 8-20-57, Cl. 160-368.
- Gerrard, John M., and M. E. Ross, to A. J. Gerrard & Co. Self-tensioning seal. 2,816,337, 12-17-57, Cl. 24-23.
- Gerrets, Ludovic J.: *See*—
Maschek, Adrian M., and Hartline. 2,782,055.
- Gerrish, Greenville B., to Wolverine Equipment Co. Dryers. 2,807,892, 10-1-57, Cl. 34-103.
- Gersenson, Max: *See*—
Ziliacus, Patrick W., and Gersenson. 2,807,083.
- Gerson, Bernard. Traveling fence for tenenor. 2,791,247, 5-7-57, Cl. 143-49.
- Gerson, Jerome S., to Modern Upholstered Chair Co., Inc. Table attachment for swivel rockers. 2,788,843, 4-16-57, Cl. 155-128.
- Gerst, Chris, to The Transmission & Gear Co. Axle housing construction for vehicle drive wheels. 2,802,542, 8-13-57, Cl. 180-75.
- Gerst, Chris, to The Transmission & Gear Co. Power transmission. 2,804,780, 9-3-57, Cl. 74-360.
- Gerst, Chris. Carrier-controlled planetary gear unit. 2,815,836, 12-10-57, Cl. 192-12.
- Gerstel, Harry M., to Gotham Lighting Corp. Recessed lighting fixture. 2,803,327, 9-3-57, Cl. 240-78.
- Gerstenberger, Margaret: *See*—
Gerstenberger, Richard. 2,800,830.
- Gerstenberger, Richard, deceased, by M. Gerstenberger, administratrix. Shell reloading machine. 2,800,830, 7-30-57, Cl. 86-23.
- Gerstner, Ambrose J. Fence coupling for wood posts and wood rails. 2,800,305, 7-23-57, Cl. 256-65.
- Gerstner, Duane C. Tape dispenser with measuring means. 2,815,576, 12-10-57, Cl. 33-131.
- Gerstner, Ferdinand, and J. Wimmer, to Wacker-Chemie G. m. b. H. Distillation process for making pure acetic acid. 2,803,588, 8-20-57, Cl. 202-52.
- Gerth, William: *See*—
Halberg, Max, Clavir, Cincinatus, Gerth, and Huras. 2,787,008.
- Gertin, Leo A., to Eastman Kodak Co. Control circuit for alternating current motors. 2,784,364, 3-5-57, Cl. 318-212.
- Gertsch Products, Inc.: *See*—
Cutler, Leonard S., and Diener. 2,798,952.
- Gerulis, Benedict R., to Grand Rapids Hardware Co. Window structure and sash slide rails and method of making such assembly. 2,806,259, 9-17-57, Cl. 20-12.

- Gervais, Alfred A. Doorholder. 2,801,121, 7-30-57, Cl. 292-192.
- Gerwick, Ben C., Inc.: *See*—
- Talbot, William J., Darby, and Collins. 2,804,690.
- Gerwitz, Harvey F., to Weston Hydraulics, Ltd. Valve control linkage. 2,781,782, 2-19-57, Cl. 137-622.
- Gerwitz, Thomas S. W., to Anheuser-Busch, Inc. High viscosity and insoluble starch products and method for producing same. 2,805,220, 9-3-57, Cl. 260-233.3.
- Gerzon, Koert: *See*—
- Shepard, Edwin R., and Gerzon. 2,798,094.
- Gesche, Werner, and O. Dittich, to Reimers-Getriebe K. G., Rennweg. Transmission chain for V-type pulleys. 2,803,144, 8-20-57, Cl. 74-236.
- Geschickter, Charles F., to the Geschickter Fund for Medical Research, Inc. Diphenolic therapeutic compounds. 2,806,032, 9-10-57, Cl. 260-247.5.
- Geschickter, Charles F., and L. M. Rice. Therapeutic quinoline compounds. 2,803,627, 8-20-57, Cl. 260-247.2.
- Geschickter, Charles F., and M. I. Rubin, to Geschickter Fund for Medical Research, Inc. Therapeutic solvent vehicle. 2,812,283, 11-5-57, Cl. 167-82.
- Geschickter Fund for Medical Research, Inc.: *See*—
- Geschickter, Charles F. 2,806,032.
- Geschickter, Charles F., and Rubin. 2,812,283.
- Grogan, Charles H., and Rice. 2,802,003.
- Grogan, Charles H., and Rice. 2,802,004.
- Grogan, Charles H., and Rice. 2,807,624.
- Rice, Leonard M., and Grogan. 2,786,834.
- Rice, Leonard M., and Grogan. 2,803,631.
- Gesek, Thaddeus J. Method of making a translucent graphic representation. 2,811,800, 11-5-57, Cl. 41-21.
- Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G.: *See*—
- Bretscher, Otto. 2,812,620.
- Gesellschaft für Huttenwerksanlagen M. b. H.: *See*—
- Siegfried, Tunder. 2,786,749.
- Gesellschaft für Linde's Elismaschinen Aktiengesellschaft: *See*—
- Becker, Rudolf. 2,785,548.
- Gesellschaft zur Förderung der Forschung an der Eidg. Techn. Hochschule: *See*—
- Stutz, Theo. 2,810,015.
- Gesselschap, Robert A., to James R. Kearney Corp. Automatic electrical sectionalizers. 2,776,350, 1-1-57, Cl. 200-108.
- Gessler, Albert M., and S. B. Robison, to Esso Research and Engineering Co. Low hysteresis processing of butyl rubber. 2,811,502, 10-29-57, Cl. 260-41.5.
- Gestetner Ltd.: *See*—
- Gates, Albert G. R. 2,787,216.
- Howe, Thomas G. 2,778,299.
- Parslow, Archibald J. 2,790,382.
- Picking, Henry J. 2,783,042.
- Tomlin, Edward A. 2,783,043.
- Getaz, James L. Knitted hosiery and method of closing the toe of same. Re. 24,314, 5-14-57, Cl. 66-187.
- Getaz, James L. Method of closing toe of circular knit hose. 2,787,899, 4-9-57, Cl. 66-172.
- Getchell, Benjamin E., deceased, by T. P. Getchell, administrator, to General Electric Co. Electric circuit breakers. 2,779,840, 1-29-57, Cl. 200-116.
- Getchell, Trafton P.: *See*—
- Getchell, Benjamin E. 2,779,840.
- Gethen, Edna G.: *See*—
- Randall, Merwyn C., and Gethen. 2,815,293.
- Gethen, George S.: *See*—
- Randall, Merwyn C., and Gethen. 2,815,293.
- Getsinger, Leonard C. Cranberry harvesting machine. 2,795,099, 6-11-57, Cl. 56-330.
- Gettel, Henry E. Tackle box. 2,779,651, 1-29-57, Cl. 312-289.
- Gettner, Mark E., L. Ornstein, and L. F. Florant, to J. Greenspan. Microtone device. 2,797,616, 7-2-57, Cl. 88-40.
- Getts, Sidney A., to Metal Cutting Tools, Inc. Double-acting spring for pin drive and clutch drive counterbores. 2,801,860, 8-6-57, Cl. 279-97.
- Getz, Benjamin E., to A. F. Meyer Mfg. Co. Hay processing machine. 2,811,003, 10-29-57, Cl. 56-1.
- Getz, Delmond L., to Kelsey-Hayes Wheel Co. Oil burner having variable oil and air control. 2,780,279, 2-5-57, Cl. 158-28.
- Getz, John M. Sheet metal working hammer with work cooling means. 2,789,453, 4-23-57, Cl. 81-15.
- Geyer, Gabriel, to The Norwich Pharmacal Co. Series of new N-(5-nitro-2-furyl) alkylidene-3-amino-5-tertiaryaminomethyl-2-oxazolidones and salts thereof. 2,798,068, 7-2-57, Cl. 260-240.
- Geyer, Gabriel, to The Norwich Pharmacal Co. Series of new N-(5-nitro-2-furyl) alkylidene-3-amino-5-tertiaryaminomethyl-2-oxazolidones and the preparation thereof. 2,802,002, 8-6-57, Cl. 260-240.
- Gewekschaf Eisenhutte Westfalia: *See*—
- Herrmann, Julius. 2,791,411.
- Löbke, Wilhelm. 2,781,888.
- Geyer, Bernard H., and C. R. Wayne, to General Electric Co. Binary digital computing apparatus. 2,808,204, 10-1-57, Cl. 235-61.
- Geyer, Bernard H., Jr., and C. D. Cockburn, to General Electric Co. Binary shift register. 2,808,203, 10-1-57, Cl. 235-61.
- Geyer, Fred J., to Inland Steel Co. Track brake for material handling bridge. 2,796,152, 6-18-57, Cl. 188-38.
- Geyer, Harvey D., and S. R. Carson, to General Motors Corp. Seat structure. 2,779,395, 1-29-57, Cl. 155-179.
- Geyer, Howard M., to General Motors Corp. Motor speed control system. 2,787,749, 4-2-57, Cl. 318-257.
- Geyer, Howard M., to General Motors Corp. Actuator system. 2,793,503, 5-28-57, Cl. 60-97.
- Geyer, Howard M., to General Motors Corp. Actuator with multiple disc type locking means. 2,801,615, 8-6-57, Cl. 121-40.
- Geyer, Howard M., to General Motors Corp. Multiple position actuator. 2,801,616, 8-6-57, Cl. 121-40.
- Geyer, Howard M., to General Motors Corp. Dual actuator. 2,802,454, 8-13-57, Cl. 121-38.
- Geyer, Howard M., to General Motors Corp. Actuator and locking means therefor. 2,804,053, 8-27-57, Cl. 121-40.
- Geyer, Howard M., to General Motors Corp. Actuator and locking means therefor. 2,804,054, 8-27-57, Cl. 121-40.
- Geyer, Howard M., to General Motors Corp. Actuator assembly. 2,806,383, 9-17-57, Cl. 74-424.8.
- Geyer, Howard M., to General Motors Corp. Hydraulic actuators. 2,806,450, 9-17-57, Cl. 121-38.
- Geyer, Howard M., to General Motors Corp. Fluid pressure actuator with stroke end locking means. 2,815,005, 12-3-57, Cl. 121-40.
- Geyer, Howard M., and J. N. Tootle, to General Motors Corp. Rotary actuator. 2,791,128, 5-7-57, Cl. 74-441.
- Geyer, Howard M., F. L. Ruhl, to General Motors Corp. Actuator with electric motor drive and means for controlling the degree of motor energization. 2,810,256, 10-22-57, Cl. 60-6.
- Geyser, Wilhelm A., to the United States of America as represented by the Secretary of the Navy. Means for eliminating asymmetry zero-drift errors in magnetic servo amplifiers. 2,793,336, 5-21-57, Cl. 318-30.
- Geyser, E. K., Co.: *See*—
- Geyser, Emil K. 2,788,099.
- Geyser, Emil K., to E. K. Geyser Co. Metal window. 2,788,099, 4-9-57, Cl. 189-75.
- Gfeller, Fritz, to Martin Von Schulthess & Co. Method and apparatus for spraying metal. 2,784,029, 3-5-57, Cl. 299-28.8.
- Ghenn, Harry N.: *See*—
- Braunlich, Richard H., Ghenn, Messmer, and Randolph. 2,803,851.
- Ghiglieri, Angelo. $\frac{1}{8}$ to F. B. Cordova, Jr., and $\frac{1}{8}$ to G. Aspetti. Circular cutting of masonry slabs. 2,804,065, 8-27-57, Cl. 125-14.
- Ghiorsio, Albert, and A. E. Larsh, Jr., to the United States of America as represented by the United States Atomic Energy Commission. Pulse height analyzer. 2,784,910, 3-12-57, Cl. 235-92.
- Giachetto, John J.: *See*—
- Wynkoop, Raymond, and Giachetto. 2,816,919.
- Wynkoop, Raymond, Nobis, and Giachetto. 2,816,918.
- Giacoletto, John P., J. L. Goetz, and A. H. Wulfsberg, to Collins Radio Co. Seeking switch system. 2,800,618, 7-23-57, Cl. 318-33.
- Giacoletto, Lawrence J., to Radio Corp. of America. Color interpretation system. 2,804,500, 8-27-57, Cl. 179-1.
- Giacoletto, Lawrence J., to Radio Corp. of America. Stabilizing means for semi-conductor circuits. 2,816,964, 12-17-57, Cl. 179-171.
- Giacomuzzi, Kenneth L.: *See*—
- Papelian, Roger G., Giacomuzzi, and Engstrom. 2,808,308.
- Giacosia, Dante, to Fiat Societa per Azioni. Vehicle body with detachable engine supporting front frame. 2,776,721, 1-8-57, Cl. 180-12.
- Giacosia, Dante, and A. Mosso. Rear wheel suspension for motor vehicles. 2,777,686, 1-15-57, Cl. 267-16.
- Gialmo, Edward C., Jr., to Radio Corp. of America. Electro-photographic developing apparatus. 2,786,440, 3-26-57, Cl. 118-51.
- Gialmo, Edward C., Jr., to Radio Corp. of America. Electrostatic photography. 2,815,449, 12-3-57, Cl. 250-49.5.
- Giambruno, Henry C. Muffler for internal combustion engine. 2,787,119, 4-2-57, Cl. 60-29.
- Giammaria, John J.: *See*—
- Bradley, John S., V., and Giammaria. 2,792,374.
- Giammaria, John J., to Socony Mobil Oil Co., Inc. Grease compositions containing complex alkaline earth metal salts. 2,790,767, 4-30-57, Cl. 252-32.5.
- Gianascio, Frank. Mounting arrangement for clocks and like devices. 2,799,986, 7-23-57, Cl. 58-56.
- Giannini, Anthony J. Clothes drier basket. 2,783,551, 3-5-57, Cl. 34-133.
- Giannini, G. M., & Co., Inc.: *See*—
- Klose, Alfred J. 2,786,356.
- Smith, Gene W. 2,795,142.
- Giardino, Loris, and V. Faenza. Spring balance for rapid continuous dosing or controlling. 2,793,026, 5-21-57, Cl. 265-70.
- Giarraputo, Salvator: *See*—
- Trapido, Leonard, De Vito, and Giarraputo. 2,807,130.
- Gibbings, Dennis L. H.: *See*—
- Williams, Frederic C., Kilburn, and Gibbings. 2,784,907.
- Gibble, Glenn. Safety circuit breaker. 2,806,916, 9-17-57, Cl. 200-61.45.

- Gibbon, Samuel Y., to Air-Shields, Inc. Rocking bed construction. 2,776,658, 1-8-57, Cl. 128-28.
- Gibbon, Samuel Y., to Air-Shields, Inc. Compartment humidifier. 2,778,617, 1-22-57, Cl. 261-19.
- Gibbons, Joseph B.: See—
Cabaniss, Edward H., Garland, Hardy, Gibbons and Frayer. 2,802,401.
- Gibbs, Charles J., to California Research Corp. Pipeline blind device. 2,815,771, 12-10-57, Cl. 138-94.3.
- Gibbs, Jonathan C., Jr. Rubber pants dryer. 2,801,778, 8-6-57, Cl. 223-61.
- Gibbs, Robert K., to Tri-State Plastic Molding Co., Inc. Container having a hinged cover. 2,797,840, 7-2-57, Cl. 220-31.
- Gibbs, Thomas H., Jr., to Continental Can Co., Inc. Protective sleeve for chime of fiber drum. 2,798,654, 7-9-57, Cl. 229-5.7.
- Gibel, Stephen J. Muffler. 2,815,088, 12-3-57, Cl. 181-56.
- Giblin, James P., to E. T. Wright & Co., Inc. Moccasin shoe with a metatarsal support. 2,795,864, 6-18-57, Cl. 36-8.5.
- Gibney, Ronald E. Small game carryall. 2,788,164, 4-9-57, Cl. 224-7.
- Gibsen, Kenneth F., to Kelco Co. Alginate composition for making milk puddings and process for making the same. 2,808,337, 10-1-57, Cl. 99-131.
- Gibson, Arthur C., and D. Wyld, to The British Thomson-Houston Co. Ltd. Electric circuit breakers. 2,816,974, 12-17-57, Cl. 200-89.
- Gibson, Cedric M. Roll wrapping machine. 2,803,935, 8-27-57, Cl. 53-380.
- Gibson, Christian D., to The Raymond Corp. Material handling apparatus. 2,792,079, 5-14-57, Cl. 187-9.
- Gibson, Colin C., and W. A. Spinks; said Spinks assor. to said Gibson. Collapsible clothes dryer. 2,814,391, 11-26-57, Cl. 211-178.
- Gibson Electric Co.: See—
Farnham, Frederick R. 2,799,081.
Hoyer, Norman S. 2,813,808.
- Gibson, George T., to John Gibson & Son, Ltd. Refuse-collecting vehicles. 2,816,671, 12-17-57, Cl. 214-83.3.
- Gibson, Glenn J., to Air Reduction Co., Inc. Composite electrode. 2,794,898, 6-4-57, Cl. 219-75.
- Gibson, Harry, to Gerbing Mfg. Corp. Control for a variable pitch pulley. 2,792,712, 5-21-57, Cl. 74-230.17.
- Gibson, Harry E. Joint lock hammer. 2,810,420, 10-22-57, Cl. 153-21.
- Gibson, Horace N. Light projecting apparatus. 2,810,819, 10-22-57, Cl. 240-1.3.
- Gibson, John M.: See—
Clark, Arthur, and Gibson. 2,808,890.
- Gibson, John, & Son, Ltd.: See—
Gibson, George T. 2,816,671.
- Gibson, Marshall D., $\frac{1}{2}$ to W. R. Mantell. Sandal. 2,788,591, 4-16-57, Cl. 36-11.5.
- Gibson, Robert C.: See—
Goodspeed, Edwin W., and Gibson. 2,785,097.
Goodspeed, Edwin W., and Gibson. 2,805,969.
- Gibson, Robert, G. H. Thorndike, and C. Liversidge, to Wool Industries Research Assn. Method of automatically controlling the output of a carding engine. 2,795,012, 6-11-57, Cl. 19-98.
- Gibson, Rollo G. Fishing rod signal. 2,785,491, 3-19-57, Cl. 43-17.
- Gibson, Thomas, to Metal-Gas Co. Ltd. Surface treatment of metals. 2,809,127, 10-8-57, Cl. 117-65.
- Gibson, Thomas F. Collapsible fuel tank for airplanes and the like. 2,806,665, 9-17-57, Cl. 244-135.
- Gibson, Walter G., to Radio Corp. of America. Color television. 2,803,697, 8-20-57, Cl. 178-5.4.
- Gibson, Wilfred C., to Shaffer Tool Works. Toggle packer, well head preventer. 2,812,197, 11-5-57, Cl. 286-16.2.
- Gibson, William J.: See—
Wine, William E. 2,784,679.
- Giddings & Lewis Machine Tool Co.: See—
Chase, Lloyd H. 2,811,779.
Gallimore, Keith F., and Schurger. 2,809,418.
Hosea, Everett E. 2,788,675.
Hosea, Everett E., and Godschalx. 2,816,454.
McFerren, Edgar L. 2,788,716.
McFerren, Edgar L., and Schurger. 2,786,395.
McKewen, John H. 2,811,053.
Schurger, Garner H. 2,787,175.
Schurger, Garner H. 2,816,485.
Wagner, Elmer K. 2,809,333.
- Giel, George J., and D. K. Kinsey, to Audio Products Corp. Variable composite electronic apparatus. 2,788,470, 4-9-57, Cl. 317-101.
- Gielegem, Maurice J., to Claude Sintz, Inc. Ball joint assembly. 2,817,551, 12-24-57, Cl. 287-90.
- Gielow, George F., to National Seating Co. Adjustable head rest. 2,812,802, 11-12-57, Cl. 155-177.
- Gienger, Edwin B., Jr., and W. A. Miller, to International Latex Corp. Manufacture of rubber latex articles. 2,801,445, 8-6-57, Cl. 18-41.
- Gier, John R., Jr. Apparatus and method for forming sinuous wire structural and heat exchange elements. 2,778,385, 1-22-57, Cl. 140-71.
- Gier, John R., Jr. Heat treating muffle furnace. 2,809,822, 10-15-57, Cl. 263-41.
- Gierling, George D. and S. Lacing frame and method. 2,795,031, 6-11-57, Cl. 28-72.
- Gierling, Sarah: See—
Gierling, George D. and S. 2,795,031.
- Giertz-Hedstrom, Stig, to Vibro-Plus Corp. Immersion vibrator. 2,800,309, 7-23-57, Cl. 259-1.
- Giertz, Robert W.: See—
Ethington, Lloyd D., Donahue, Dow, and Giertz. 2,809,532.
- Gierwiowski, Olgierd, to General Motors Corp. Frequency modulation signal seeking tuner. 2,812,430, 11-5-57, Cl. 250-20.
- Gieseke, George R.: See—
Foster, Dudley E., and Gieseke. 2,802,909.
- Gieseler, Russell W. Newspaper receptacle for rural delivery. 2,807,409, 9-24-57, Cl. 232-33.
- Giesen, Johann, to Inventa A.-G., fur Forschung und Patentverwertung Luzern. Method of decomposing lignin and lignin-containing materials to produce phenolic products. 2,790,009, 4-23-57, Cl. 260-619.
- Giesen, Johann, to Inventa A. G. fuer Forschung und Patentverwertung. Process for hydrolyzing sulfite waste liquor. 2,809,219, 10-8-57, Cl. 260-627.
- Gieske, William R., to Dia-Log Tubular Survey Co. Method of and apparatus for locating stuck pipe in wells. 2,817,808, 12-24-57, Cl. 324-34.
- Giesker, William C., and R. K. Britton, to The Autoyre Co., Inc. Method of treating chromium surfaces. 2,788,292, 4-9-57, Cl. 117-71.
- Gievers, Johannes G., to Ampatco Laboratories Corp. Asynchronous gyro motor. 2,802,957, 8-13-57, Cl. 310-67.
- Gievers, Johannes G. L., to Ampatco Laboratories. Gyro-scope. 2,802,364, 8-13-57, Cl. 74-5.2.
- Giffen, James W., to Corning Glass Works. Centrifugal casting of glass articles. 2,778,162, 1-22-57, Cl. 49-85.
- Giffold, Henry J.: See—
Scholfeld, Richard P., and Giffold. 2,816,000.
- Gifford, Clayton E., to The Huber Mfg. Co. Road grader attachment. 2,798,315, 7-9-57, Cl. 37-144.
- Gifford-Hill-Western, Inc.: See—
Ogle, William J. 2,809,687.
- Gifford, Robert T., and S. Vernet, to Dicks-Pontius Co. Glazing construction. 2,781,561, 2-19-57, Cl. 20-69.
- Gifford-Wood Co.: See—
Rockhill, Clement B. 2,790,567.
- Gigli, Giulio, to L. & C. Hardtmuth, Inc. Lead gripping means for lead holders. 2,801,613, 8-6-57, Cl. 120-21.
- Giglio, Joseph, and R. E. Haley. Adjustable screen window and door frame. 2,800,957, 7-30-57, Cl. 160-374.
- Gigliotti, Nicola D. Feeding device. 2,804,844, 9-3-57, Cl. 119-53.
- Giladett, Leo V. Pressure change responsive motor with shear wire. 2,790,424, 4-30-57, Cl. 121-38.
- Gilardi, Carlo. Torque transmitting device for bicycles provided with an auxiliary engine. 2,779,322, 1-29-57, Cl. 123-179.
- Gilbert, A. C. Co., The: See—
Reifel, Harry. 2,785,372.
Smith, Raymond E. 2,791,972.
Smith, Raymond E. 2,813,673.
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Smith, William R. 2,792,409.
Smith, William R. 2,794,297.
- Gilbert, Alfred J., Jr., to Lavoie Laboratories, Inc. Miniature crystal oven. 2,790,884, 4-30-57, Cl. 219-19.
- Gilbert & Barker Mfg. Co.: See—
Hope, Stanley C. 2,776,782.
Mesh, Theodore J., and Robinson. 2,812,928.
Pacey, John J. 2,786,493.
Robinson, George D., Jr. 2,811,926.
Schonewald, George S. 2,812,663.
Tapp, Harry F. 2,817,373.
- Gilbert Berthiez, Frederick C., to Societe Anonyme des Anciens Etablissements Charles Berthiez. Driving mechanism for imparting a reciprocal movement to a machine component. 2,811,860, 11-5-57, Cl. 74-409.
- Gilbert, Edwin M., to Hoffman Electronics Corp. Electronic ignition system or the like. 2,811,672, 10-29-57, Cl. 315-163.
- Gilbert, Everett E.: See—
Crowder, John A., Gilbert, and Nychka. 2,783,246.
- Gilbert, Everett E., to Allied Chemical & Dye Corp. Process for preparing dodecachlorotetrahydro-4,7-methanoindene. Re. 24,397, 11-26-57, Cl. 260-648.
- Gilbert, Everett E., J. A. Otto, and S. A. Pellerano, to Allied Chemical & Dye Corp. Herbicide. 2,782,112, 2-19-57, Cl. 71-2.6.
- Gilbert, Everett E., and E. J. Rumanowski, to Allied Chemical & Dye Corp. Anhydrides of mucochloric acid. 2,786,798, 3-26-57, Cl. 167-33.
- Gilbert, Everett E., and J. A. Otto, to Allied Chemical & Dye Corp. Organic phosphate compounds and method of preparation and use thereof. 2,789,124, 4-16-57, Cl. 260-461.
- Gilbert, Everett E., and H. R. Nychka, to Allied Chemical & Dye Corp. Process for the manufacture of dichlorodiphenyl-dichloroethane. 2,793,237, 5-21-57, Cl. 260-649.
- Gilbert, Everett E., and C. B. Miller, to Allied Chemical & Dye Corp. Method of rendering amber the surface of polyethylene plastic. 2,793,964, 5-28-57, Cl. 117-33.3.

- Gilbert, Everett E., and B. Veldhuis, to Allied Chemical & Dye Corp. Production of anhydrous hydrochloric acid gas from aqueous hydrochloric acid solution. 2,797,145, 6-25-57, Cl. 23-154.
- Gilbert, Everett E., J. A. Otto, and S. A. Pellerano, to Allied Chemical & Dye Corp. Substituted-urea sulfonic acid herbicides. 2,801,911, 8-6-57, Cl. 71-2-6.
- Gilbert, Everett E., and B. Veldhuis, to Allied Chemical & Dye Corp. Process for hydrolyzing sulfonic acid anhydrides. 2,805,249, 9-3-57, Cl. 260-505.
- Gilbert, George R.: *See*—
Kearby, Kenneth K., and Gilbert. 2,800,461.
- Gilbert, George R., to Esso Research and Engineering Co. Hydrolyzing and drying aluminum alcoholates with superheated steam. 2,776,188, 1-1-57, Cl. 23-143.
- Gilbert, Jack, and H. Preble, Jr., to General Slicing Machine Co. Carving boards with retractable spikes. 2,777,488, 1-15-57, Cl. 146-215.
- Gilbert, Jack, and H. Preble, Jr., to General Slicing Machine Co., Inc. Food cutting devices with selective cutters. 2,807,300, 9-24-57, Cl. 146-91.
- Gilbert, Jack, and H. Preble, Jr., to General Slicing Machine Co., Inc. Detachable food carriage for slicing machines. 2,807,301, 9-24-57, Cl. 146-102.
- Gilbert, James M.: *See*—
Allan, Benjamin W., Rummery, and Gilbert. 2,794,702.
- Gilbert, John F. Parking brake control for automotive vehicles. 2,796,957, 6-25-57, Cl. 188-152.
- Gilbert, Lee: *See*—
Lower, Fredrick A. 2,814,310.
- Gilbert, Lewis F., to Ethyl Corp. Fuel antiknock. 2,794,717, 6-4-57, Cl. 44-69.
- Gilbert, Lowell R. Auxiliary soles. 2,801,478, 8-6-57, Cl. 36-7-5.
- Gilbert, Lynford W., and W. B. Lloyd, to the United States of America as represented by the Secretary of the Navy. Low friction rotary "O"-ring seal. 2,795,441, 6-11-57, Cl. 286-11.13.
- Gilbert, Marcellus N., Jr.: *See*—
Brooks, Joseph H., Gilbert, and Toomey. 2,813,192.
- Gilbert, Max. Adjustable shoe upper. 2,817,164, 12-24-57, Cl. 36-58.5.
- Gilbert, Nathan: *See*—
Hignett, Travis P., and Gilbert. 2,801,939.
- Gilbert, Philip, to Universal Match Corp. Electronic computing devices. 2,815,454, 12-3-57, Cl. 250-214.
- Gilbert, Philo G. Wheel with spokes in radial tension. 2,805,894, 9-10-57, Cl. 301-55.
- Gilbert, Richard C.: *See*—
McKenney, Henry F., and Gilbert. 2,815,169.
- Gilbert, Robert J., to E. I. du Pont de Nemours and Co. Traversing roll. 2,801,808, 8-6-57, Cl. 242-43.2.
- Gilbert, Roland A., to D. Napier & Son Ltd. Torque responsive devices. 2,791,655, 5-7-57, Cl. 200-61.46.
- Gilbert, Roswell W., to Weston Electrical Instrument Corp. Current regulating system. 2,790,132, 4-23-57, Cl. 323-4.
- Gilbert, Roswell W., to Weston Electrical Instrument Corp. Method for pulling down magnets. 2,810,867, 10-22-57, Cl. 317-157.5.
- Gilbert, Samuel: *See*—
Troeger, Henry, and Gilbert. 2,775,894.
- Gilbert, Samuel. Door latch and lock mechanism. 2,803,958, 8-27-57, Cl. 70-216.
- Gilbert, Walton E., to Shell Development Co. Method and apparatus for submerged well drilling. 2,783,027, 2-26-57, Cl. 255-2-5.
- Gilbert, Wesley R., to C. I. Hayes, Inc. Super-hearth construction for heat treatment furnaces. 2,783,987, 3-5-57, Cl. 263-2.
- Gilbert, William E. Tuning indicator for wave signal receiver using beat frequency oscillation injection into second detector. 2,809,288, 10-8-57, Cl. 250-20.
- Gilbert, William I., and W. A. Horne, to Gulf Research & Development Co. Catalytic treatment of hydrocarbons containing oxygenated compounds. 2,816,905, 12-17-57, Cl. 260-450.
- Gilbert, William I., and W. A. Horne, to Gulf Research & Development Co. Catalytic treatment of hydrocarbons containing oxygenated compounds. 2,816,906, 12-17-57, Cl. 260-450.
- Gilbertson, Gerhard J. Catapult toy. 2,818,260, 12-31-57, Cl. 273-127.
- Gilbertson, Louis M. Radiant heat type electric brooder. 2,809,608, 10-15-57, Cl. 119-33.
- Gilbertville Woven Label Corp.: *See*—
Gage, Edwin G. 2,779,413.
- Gilberty, Paul F., to Dairymat Corp. Liquid dispensing machine. 2,792,681, 5-21-57, Cl. 53-283.
- Gilberty, Paul F., to Dairymat Corp. Liquid dispensing machine. 2,817,461, 12-24-57, Cl. 222-207.
- Gilchrist, Albert D., to The Leece-Neville Co. Rotor construction for electrical machines. 2,795,715, 6-11-57, Cl. 310-261.
- Gilchrist, Albert D., to The Leece-Neville Co. Electrical generating systems. 2,781,486, 2-12-57, Cl. 322-28.
- Gilchrist, John E., to American Machine and Metals, Inc. Pneumatic small piece folders. 2,793,854, 5-28-57, Cl. 270-69.
- Gilchrist, Thomas R.: *See*—
Ross, Alexander, Wintemberg, and Gilchrist. 2,797,649.
- Ross, Alexander, Wintemberg, and Gilchrist. 2,797,650.
- Gile, Richard M., to American Optical Co. Slide projectors. 2,808,760, 10-8-57, Cl. 88-28.
- Giles, Jeremiah D. Heat insulation structure. 2,782,914, 2-26-57, Cl. 206-59.
- Giles, Jeremiah D., and E. W. Lynn, to Celluplastic Corp. Closure for containers and the like. 2,817,451, 12-24-57, Cl. 215-7.
- Giles, Oley, to Borg-Warner Corp. Earth boring apparatus. 2,805,044, 9-3-57, Cl. 235-28.
- Giles, Ralph R.: *See*—
Straley, James M., and Giles. 2,776,310.
- Giles, William H.: *See*—
Frank, Anton R., and Giles. 2,792,219.
- Giles, William O. Combination doughnut and deep fat kettle. 2,794,897, 6-4-57, Cl. 219-44.
- Giletta, Dario: *See*—
Vanzo, Marcello, Giletta, and Nuara. 2,814,330.
- Vanzo, Marcello, Giletta, and Nuara. 2,814,331.
- Giletto, Anthony, Sr. Safety switch for oil burners. 2,806,102, 9-10-57, Cl. 200-81.9.
- Gilfillan Bros. Inc.: *See*—
Cutler, Burton, and Crane. 2,791,688.
- Henning, Philip A. 2,777,995.
- Landee, Robert W., Hayes, Deen, and Johnson. 2,796,603.
- Rochfort, Jean D., and Fickler. 2,817,725.
- Van Alstyne, Alvin G. 2,780,806.
- Van Alstyne, Alvin G. 2,795,781.
- Weil, Frederick M., Ingalsbe, Stein, and McCann. 2,786,198.
- Weil, Frederick M., Stein, and McCann. 2,800,657.
- Gilfillan, William C., to H. W. Butterworth and Sons Co. Fabric treating and feeding apparatus with constant tension roller drive. 2,781,192, 2-12-57, Cl. 271-2.2.
- Gilfillan, William C., to H. W. Butterworth and Sons Co. Fabric treating and feeding apparatus. 2,785,890, 3-19-57, Cl. 271-2.2.
- Gilger, Clarence: *See*—
Parrish, Albert D. 2,780,144.
- Gilkison, John S., and E. R. Kooi, to Corn Products Refining Co. Recovery and purification of enzymes. 2,810,677, 10-22-57, Cl. 195-66.
- Gill, Andrew S., Jr., to Eaton Mfg. Co. Magnetic particle clutch containing an additive. 2,787,354, 4-2-57, Cl. 192-21.5.
- Gill, Andrew S., Jr., to Eaton Manufacturing Co. Magnetic fluid mixture coupling. 2,804,955, 9-3-57, Cl. 192-21.5.
- Gill, Donald W., to The Frank F. Taylor Co. Collapsible walker-stroller for children. 2,798,733, 7-9-57, Cl. 280-41.
- Gill, Frank R. Spark arrestor for ground power equipment. 2,809,716, 10-15-57, Cl. 183-80.
- Gill, Harvey J., Jr., to Carr, Adams & Collier Co. Methods of making lignocellulose products, and the products resulting therefrom. 2,779,683, 1-29-57, Cl. 106-163.
- Gill, Henry: *See*—
Gross, John G., and Gill. 2,778,925.
- Gill, James J. Centering tool. 2,782,519, 2-26-57, Cl. 33-185.
- Gill, Robert E. Flare holder. 2,813,671, 11-19-57, Cl. 224-42.45.
- Gille, Willis H., to Minneapolis-Honeywell Regulator Co. Automatic steering mechanisms. 2,784,924, 3-12-57, Cl. 244-77.
- Gille, Willis H., and R. E. Mitchell, to Minneapolis-Honeywell Regulator Co. Sector scan control servo system. 2,776,396, 1-1-57, Cl. 318-28.
- Gilleo, Leonard S., to U. S. Sanitary Packer Corp. Refuse packing and hauling vehicle. 2,808,158, 10-1-57, Cl. 214-82.
- Giller, Barton E.: *See*—
Elliott, Paul F., and Giller. 2,814,820.
- Gilles, Theodore C. Safety harness for use in vehicles. 2,804,313, 8-27-57, Cl. 280-150.
- Gillespie, Henderson C., and J. E. Joy, to Radio Corp. of America. High frequency dielectric heating system. 2,785,264, 3-12-57, Cl. 219-10.79.
- Gillespie, Joseph, and A. T. Cordill. Valve combination. 2,809,659, 10-15-57, Cl. 137-512.
- Gillespie, Joseph, and A. T. Cordill, to Standard Steel Mfg. Co., Inc. Liquid distribution system. 2,809,661, 10-15-57, Cl. 137-565.
- Gillespie, Russell A., 33 1/4% to C. F. Spickelmier, 33 1/4% to E. S. Greer, and 33 1/4% to B. S. Spickelmier. Metal window framing. 2,804,954, 9-3-57, Cl. 189-75.
- Gillespie, Samuel S. Apparatus for underwater oil well drilling. 2,783,970, 3-5-57, Cl. 255-2.5.
- Gillette Co., The: *See*—
Lerner, Louis L. 2,803,256.
- Lerner, Louis L. 2,813,532.
- Lerner, Louis L., and Olson. 2,815,122.
- Safanoff, Albert. 2,815,123.
- Shnitzler, Meyer J., Norton, and McDonald. 2,776,917.
- Sinclair, Robert L. 2,797,814.
- Snappe, Leonard W. 2,788,540.
- Gillette, Harold R.: *See*—
Richter, Herman W., and Gillette. 2,780,147.
- Gilliam, George R., to Allied Chemical & Dye Corp. Process for evaporating nitrates slurries. 2,817,156, 12-24-57, Cl. 34-39.
- Gilliam, George R., and J. A. Smith, to Allied Chemical & Dye Corp. Process for evaporating nitrates slurries. 2,817,155, 12-24-57, Cl. 34-8.

- Gillick, Laurance H., and T. J. Lebane, to Vapor Heating Corp. Combined spaced heating and water heating system for a railway car. 2,801,801, 8-6-57, Cl. 237-6.
- Gilliland, Edwin R., to Ionics, Inc. Ion-exchange-regenerant recovery. 2,776,258, 1-1-57, Cl. 210-24.
- Gilliland, Lonnie A. Cotton choppers. 2,781,713, 2-19-57, Cl. 97-213.
- Gilliland, William H., to USCO Power Equipment Corp. Hook stick operated disconnect switch. 2,803,726, 8-20-57, Cl. 200-162.
- Gillin, Francis O., to Aerovox Corp. Capacitor terminal tab forming machine. 2,781,014, 2-12-57, Cl. 113-1.
- Gillings, David W., to National Coal Board. Apparatus for counting and measuring particles. 2,789,765, 4-23-57, Cl. 235-92.
- Gillis, Edmund A., to The Cronite Co., Inc. Interrupting means in bed and platen printing presses. 2,788,739, 4-16-57, Cl. 101-322.
- Gillis, Esther M.: *See—*
- Gillis, Joseph R. 2,778,683.
- Gillis, Joseph R.; E. M. Gillis, administratrix. Steam distributor tube. 2,778,683, 1-22-57, Cl. 299-106.
- Gillis, Randall, E. W. Larson, and R. M. Stine, to Western Electric Co., Inc. Method and apparatus for twisting wires. 2,790,299, 4-30-57, Cl. 57-51.
- Gillitzer, Erwin: *See—*
- Spandöck, Friedrich, and Gillitzer. 2,810,786.
- Gillott, John M. Coke oven doors and door handling machines. 2,784,849, 3-12-57, Cl. 212-4.
- Gills, Golden W. Sectionalized mast hoist apparatus. 2,779,569, 1-29-57, Cl. 254-148.
- Gillum, Lloyd F. $\frac{1}{2}$ to N. E. Gillum. Rearview mirror. 2,788,711, 4-16-57, Cl. 88-93.
- Gillum, Norman E.: *See—*
- Gillum, Lloyd F. 2,788,711.
- Gilman, George H. Fruit juicers. 2,807,205, 9-24-57, Cl. 100-108.
- Gilman, Harris H., L. L. Henning, E. T. Mock, and W. R. Postlewaite, to California Research Corp. Spray cooling apparatus and method. 2,800,974, 7-30-57, Cl. 183-2.
- Gilman, Lyle A. Adjustable sucker rod wrench. 2,806,395, 9-17-57, Cl. 81-52.3.
- Gilman, Martin J. Frozen food shipping containers. 2,808,093, 10-1-57, Cl. 150-52.
- Gilman, Marvin A., to Clay-Adams, Inc. Liquid dispensing device. 2,792,157, 5-14-57, Cl. 222-309.
- Gilman, Samuel, to Curtiss-Wright Corp. Radiation measuring system for material having non-uniform cross-section design. 2,800,590, 7-23-57, Cl. 250-83.6.
- Gilman, Samuel, to Curtiss-Wright Corp. Radiation measuring apparatus having means for compensating errors due to atmospheric conditions. 2,800,591, 7-23-57, Cl. 250-83.6.
- Gilmore, Dean C.: *See—*
- Macy, John M., Rodgers, and Gilmore. 2,778,404.
- Gilmore, John F., and T. H. Heine, to Westinghouse Electric Corp. Method of exhausting lamps. 2,812,228, 11-5-57, Cl. 316-22.
- Gilmore, Ronald P.: *See—*
- Fay, Charles H., and Gilmore. 2,785,374.
- Gilmore, Walter T., Jr., and O. E. Christy. Boat cover. 2,797,697, 7-2-57, Cl. 135-6.
- Gilmour, Austin. Nursery toilet device. 2,802,444, 8-13-57, Cl. 116-67.
- Gilmour, John J., and G. K. Bassler. Ladder attachment. 2,815,160, 12-3-57, Cl. 228-60.
- Gilmour, Robert A. Lock control devices for automobile doors. 2,788,235, 4-9-57, Cl. 292-347.
- Gilmour, Robert A. Slide control valves for sprayers. 2,788,244, 4-9-57, Cl. 299-84.
- Gilmour, Robert A. Disk control valves for sprayers. 2,788,245, 4-9-57, Cl. 299-84.
- Gilowitz, Benjamin, $\frac{1}{2}$ to H. Litman. Perfumed ornament with controlled discharge of aroma. 2,807,901, 10-1-57, Cl. 41-14.
- Gilpatrick Construction Co.: *See—*
- Gilpatrick, Mark J., Sr. 2,800,363.
- Gilpatrick, Mark J., Sr., to Gilpatrick Construction Co. Dumping trailer vehicle for bulk material. 2,800,363, 7-23-57, Cl. 298-30.
- Gilpin, Mary H. Garment cleaning device. 2,790,984, 5-7-57, Cl. 15-140.3.
- Gilson Mfg. Co. Ltd.: *See—*
- Hinton, Louis E. 2,811,034.
- Gilson, Warren E., and S. K. Rasmussen, to The Burdick Corp. Electrocardiograph. 2,777,747, 1-15-57, Cl. 346-136.
- Giltges, Aloys: *See—*
- Welz, Harry, and Giltges. 2,813,913.
- Gilwood, Martin E.: *See—*
- Greer, Albert H., and Gilwood. 2,788,331.
- Gilwood, Martin E., and A. H. Greer, to The Permutit Co. Anion exchange resins from cross-linked halogenated polyvinylaromatic polymers. 2,788,330, 4-9-57, Cl. 260-2.1.
- Gilyan, Jess. Tool for plastering with means for selectively exposing a pair of work engaging edges. 2,800,672, 7-30-57, Cl. 15-105.
- Gimelli, Samuel. Food chopping devices. 2,815,056, 12-3-57, Cl. 146-69.
- Gimler, John R. Coating composition. 2,797,168, 6-25-57, Cl. 106-268.
- Gimpel, Donald J.: *See—*
- Calvert, John F., and Gimpel. 2,801,351.
- Gimson, Cyril F., and J. O. Tattersall, to The British Thompson-Houston Co. Ltd. Electro-magnetic control devices. 2,806,183, 9-10-57, Cl. 317-27.
- Ginger, Leonard G.: *See—*
- Anthony, Paul Z., Borgen, and Ginger. 2,803,654.
- Gingold, Sam, to The Sheffield Silver Co. Crumber. 2,792,697, 5-21-57, Cl. 65-62.
- Ginn, Earl, to Continental Motors Corp. Aircraft engine wrist pin. 2,806,752, 9-17-57, Cl. 309-19.
- Ginnini, G. M., & Co., Inc.: *See—*
- Mounteer, Carlyle A., Chrones, Manildi, and Shevell. 2,785,570.
- Ginnow, Edward F., to Klekaefer Corp. Pressure system for two-cycle crankcase recompression engine. 2,794,431, 6-4-57, Cl. 123-136.
- Ginsberg, Harry, to Owens-Illinois Glass Co. Reinforced and partitioned folding box. 2,812,892, 11-12-57, Cl. 229-27.
- Ginsberg, Helen F.: *See—*
- Papa, Domenick, and Ginsberg. 2,790,748.
- Ginsberg, William. Adjustable back and heat rest for furniture. 2,796,919, 6-25-57, Cl. 155-156.
- Ginsburg, Charles R. Structural panel construction. 2,796,157, 6-18-57, Cl. 189-34.
- Ginsburg, Michael. Posture supporting brassiere. 2,782,416, 2-26-57, Cl. 2-42.
- Ginsler, Victor W., to Allied Chemical & Dye Corp. Plasticized alkoxy-substituted formaldehyde reaction products. 2,794,008, 5-28-57, Cl. 260-21.
- Ginte, Philip G., to Liftronic, Inc. Garage door actuating mechanism. 2,778,631, 1-22-57, Cl. 268-59.
- Ginter, Charles A.: *See—*
- Barbier, John E., and Ginter. 2,793,041.
- Ginther, Thomas: *See—*
- Tweedy, James W., and Ginther. 2,802,123.
- Ginther, Robert J.: *See—*
- Schulman, James H., and Ginther. 2,787,714.
- Gintovt, Henry. Cycle control switch. 2,792,479, 5-14-57, Cl. 200-153.
- Gintovt, Henry, W. I. Eshelman, and G. L. Chapman, to Clavostat Mfg. Co., Inc. Push-pull control. 2,779,834, 1-29-57, Cl. 200-68.
- Gionet, Leo A., and V. P. Davel, to Modern Equipment Co. Stock line indicators. 2,801,311, 7-30-57, Cl. 200-82.
- Giori, Gualtiero. Process for preparing inking rollers for multi-color inking of a printing plate. 2,806,425, 9-17-57, Cl. 101-211.
- Giovagnoli, Paul S. Baseball pitching apparatus. 2,806,461, 9-17-57, Cl. 124-7.
- Gipple, Oliver A. Extensible end table arrangement for dispensing cabinets. 2,784,046, 3-5-57, Cl. 312-319.
- Giraitis, Albert P., W. B. Brandjeau, and C. M. Neher, to Ethyl Corp. Recovery of alkyllead compounds. 2,777,867, 1-15-57, Cl. 260-437.
- Girardi, Antonio L. Mobile loading fork lift machine. 2,796,187, 6-18-57, Cl. 214-731.
- Girardi, Antonio L. Fruit picking machine. 2,798,623, 7-9-57, Cl. 214-83.1.
- Girardi, Chester A.: *See—*
- Senglaub, Arthur H., and Girardi. 2,807,682.
- Giraudon, René. Surgical device for patients undergoing a laryngotomy. 2,804,076, 8-27-57, Cl. 128-351.
- Girden, Barney B., $\frac{1}{2}$ to S. H. Danis. Breathing apparatus for swimmers. 2,814,292, 11-26-57, Cl. 128-142.
- Girerd, Robert. Capacitative type measuring system. 2,788,516, 4-9-57, Cl. 340-201.
- Girod, Emil, and F. Hafiger, to Geigy Chemical Corp. Diamine compounds and process for the production thereof. 2,777,858, 1-15-57, Cl. 260-313.
- Girod-Eymery, Henri, to Societe d'Etudes Ferroviaires. Elastic device. 2,815,201, 12-3-57, Cl. 267-9.
- Girotti, Mel O. Garbage truck. 2,788,135, 4-9-57, Cl. 214-75.
- Girouard, Phyllis H.: *See—*
- Campbell, Ernest F., Girouard, and Cohen. 2,792,759.
- Giroud, Maurice, to Cereal Food Products Ltd. Extruded alimentary paste drying apparatus. 2,790,250, 4-30-57, Cl. 34-207.
- Girschowitch, Charles I. Awning-type windows. 2,778,460, 1-22-57, Cl. 189-62.
- Girschowitch, Charles I. Awning type windows. 2,778,461, 1-22-57, Cl. 189-75.
- Girton, Dale R. Multipurpose gun sling. 2,812,123, 11-5-57, Cl. 224-1.
- Girton Mfg. Co.: *See—*
- Namur, Carl L. 2,784,673.
- Girton, Paul K. Animal stall having swivel type adjustable V yoke. 2,779,312, 1-29-57, Cl. 119-147.
- Girton, Preston E., to Kirkhof Mfg. Corp. Primary disconnect plug for welding transformers. 2,778,001, 1-15-57, Cl. 339-147.
- Girton, Ray O. Turn banking suspension for vehicles. 2,788,985, 4-16-57, Cl. 280-112.
- Girvin, William L. W. Rotary compressor or motor. 2,809,779, 10-15-57, Cl. 230-140.
- Gishler, Paul E., and K. B. Mathur, to National Research Council. Method of contacting solid particles with fluids. 2,786,280, 3-26-57, Cl. 34-10.

- Gisholt Machine Co.: *See*—
 Eddison, William B. 2,815,627.
 Eddison, William B., and Erickson. 2,815,628.
 Eddison, William B., and Erickson. 2,815,629.
 Johnson, Charles H. 2,798,395.
 Sund, Vigo V. K. 2,777,190.
- Giskes, Willem, to Hartford National Bank and Trust Co., as trustee. Record player. 2,781,667, 2-19-57, Cl. 74-206.
- Gisser, Henry: *See*—
 Fisch, Kurt R., and Gisser. 2,783,734.
 Gisser, Isidore, and M. Cohen, $\frac{1}{2}$ to I. Gisser, and $\frac{1}{2}$ to G. Savitt. Adjustable pipe remover. 2,787,492, 4-2-57, Cl. 294-96.
- Gitlin, Louis T. Tufted mattress and method of tufting the same. 2,780,818, 2-12-57, Cl. 5-356.
- Gits, Elmer F.: *See*—
 Pappathatos, James S., and Gits. 2,785,817.
- Gitterman, Morris, to Phillips Petroleum Co. Recovery of metal halide catalyst. 2,786,086, 3-19-57, Cl. 260-683.5.
- Gittings, John B., and R. S., to Gold Medal Folding Furniture Co. Folding chair. 2,783,825, 3-5-57, Cl. 155-139.
- Gittings, Robert S.: *See*—
 Gittings, John B. and R. S. 2,783,825.
- Gittins, Stanley H.: *See*—
 Elsdon-King, Herbert E., and Gittins. 2,779,653.
 Elsdon-King, Herbert E., and Gittins. 2,785,036.
- Gittleman, Ralph, and J. Tellerman, to American Bosch Arms Corp. Transistor push-pull amplifier. 2,816,179, 12-10-57, Cl. 179-171.
- Giudicelli, René: *See*—
 Chabrier, Pierre, Giudicelli, and Najer. 2,800,498.
- Giuffrida, Joseph, to Columbia Broadcasting System, Inc., d. b. a. C.B.S.-Hytron, a division of Columbia Broadcasting System, Inc. Television circuit. 2,795,728, 6-11-57, Cl. 315-13.
- Giuffrida, Joseph, to Columbia Broadcasting System, Inc., doing business under the name of Hytron Radio & Electronics Co., a Division of Columbia Broadcasting System, Inc. Vacuum tube voltmeter. 2,806,208, 9-10-57, Cl. 324-123.
- Giuliano, James T. Artificial eyelash strip. 2,812,768, 11-12-57, Cl. 132-5.
- Giulle, Joe D., and L. E. Worcester, to Illumitronic Engineering Co. Transmission line. 2,794,848, 6-4-57, Cl. 174-113.
- Giuntini, Hilaire L. Footwear. 2,776,499, 1-8-57, Cl. 36-2.5.
- Giusto, Joseph F. Attachment for paint cans or the like. 2,786,614, 3-26-57, Cl. 222-570.
- Givaudan Corp., The: *See*—
 Carpenter, Marion S., Easter, and Wood. 2,800,511.
 Carpenter, Marion S., Easter, and Wood. 2,815,381.
 Carpenter, Marion S., Easter, and Wood. 2,815,382.
 Gump, William S., Luthy, and Krebs. 2,812,365.
- Given Machinery Co.: *See*—
 Jordan, Hans. 2,785,863.
 Jordan, Hans. 2,785,864.
- Givens, John H., to Industrial Rayon Corp. Apparatus for the treatment of thread. 2,780,347, 2-5-57, Cl. 203-290.
- Givens, Richard C., to The Texas Co. Transparent cutting oil containing active sulfur and sulfochlorinated monolefin polymer. 2,786,031, 3-19-57, Cl. 252-48.8.
- Gividen, Earl P.: *See*—
 Pick, Joseph W., Martin, Gividen, and Frye. 2,790,672.
 2,792,488, 5-14-57, Cl. 219-45.
- Giza, Edwin S. Electric spot heater for crankcase oil. 2,792,488, 5-14-57, Cl. 219-45.
- Glabe, Elmer F., to the United States of America as represented by the Secretary of Agriculture. Manufacture of emulsion-type sausages. 2,803,547, 8-20-57, Cl. 99-109.
- Glabe, Elmer F., to the United States of America as represented by the Secretary of Agriculture. Manufacture of sausages. 2,816,035, 12-10-57, Cl. 99-109.
- Glacier Metal Co. Ltd., The: *See*—
 Duckworth, Walter E. 2,799,080.
 Lee, George H. 2,799,448.
 Love, Phil P. 2,793,005.
 Mitchell, David. 2,788,324.
 Mitchell, David C., and Starkey. 2,813,041.
 Tait, William H. 2,792,172.
 Ward, Austin C. J. 2,814,856.
- Gladd, Joseph M., and G. H. Goldner, to The Federal Machine and Welder Co. Welding apparatus. 2,805,318, 9-3-57, Cl. 219-101.
- Gladding, Francis N. Downspout muffler. 2,813,593, 11-19-57, Cl. 181-42.
- Gladding, McBean & Co.: *See*—
 Le Clercq, Leon J. 2,787,871.
- Gladen, Carl F. Rotary reflector. 2,797,621, 7-2-57, Cl. 88-81.
- Gladen, Lawrence C., to General Motors Corp. Arc welding apparatus. 2,806,126, 9-10-57, Cl. 219-131.
- Gladfelter, Wiltie I., and R. R. Garver, to Pangborn Corp. Particle smoothing apparatus. 2,816,466, 12-17-57, Cl. 78-1.
- Gladis, Cyril M., to Pittsburgh Forgings Co. Deep tillage chisel and colter for tractor hitches. 2,787,202, 4-2-57, Cl. 97-47.62.
- Gladrow, Elroy M.: *See*—
 Kimberlin, Charles N., Jr., and Gladrow. 2,796,326.
 Kimberlin, Charles N., Jr., and Gladrow. 2,798,857.
- Gladrow, Elroy M., and T. Lane, to Esso Research and Engineering Co. Process for manufacture of metal oxide catalysts of low sulfate content. 2,786,037, 3-19-57, Cl. 252-448.
- Gladrow, Elroy M., and W. F. Arey, Jr., to Esso Research and Engineering Co. Preparation of alumina gel. 2,798,050, 7-2-57, Cl. 252-466.
- Glastone, Joseph, to Melnor Metal Products Co., Inc. Fluid-actuated oscillatable lawn sprinkler. 2,808,292, 10-1-57, Cl. 299-67.
- Glaeser, Friedrich, to General Motors Corp. Spring-hinged ventilating side window for automobiles. 2,793,906, 5-28-57, Cl. 296-44.
- Glavovsky, Bernard. Ornamental stud and ornament dangling therefrom. 2,792,656, 5-21-57, Cl. 41-34.
- Glamann, Wilhelm, $\frac{1}{2}$ to Automobiles M. Berliet. Engine-controlled braking system for vehicles propelled by internal combustion engines. 2,804,063, 8-27-57, Cl. 123-97.
- Glaner, Louis O. Paper roll holder. 2,801,809, 8-6-57, Cl. 242-55.3.
- Glantz, Lester M., and H. S. Jacket. Two-level control system. 2,799,848, 7-16-57, Cl. 340-222.
- Glanter, Russell M., to Tri-States Engineering Co. Welding machine for wire fabrics. 2,814,713, 11-26-57, Cl. 219-56.
- Glanz, Samuel R. Muffin or cake divider. 2,818,097, 12-31-57, Cl. 146-203.
- Glanzer, Clarence J. Filtering means. 2,792,908, 5-21-57, Cl. 183-62.
- Glasband, Hyman S.: *See*—
 Madow, Abraham, and Glasband. 2,793,821.
- Glasberg, Myer M., and C. S. Luitwieler, Jr., to American Stay Co. Punching bag. 2,815,952, 12-10-57, Cl. 272-78.
- Glasby, Jonathan P., Jr. Laundry drying machine. 2,809,442, 10-15-57, Cl. 34-82.
- Glascoff, Walter G., to Berlin Chapman Co. Screen type separator. 2,817,442, 12-24-57, Cl. 209-315.
- Glasco Products, Inc.: *See*—
 Brown, Carl S. 2,780,482.
- Glase, Cecil K. Treble fishhooks. 2,800,740, 7-30-57, Cl. 43-44.82.
- Glasebrook, Arthur L., A. N. Hoffmann, and J. B. Montgomery, to Hercules Powder Co. Rosin hydrogenation. 2,776,276, 1-1-57, Cl. 260-100.
- Glaser, Frank W., to the United States of America as represented by the Secretary of the Navy. Hot strength corrosion-resistant cemented refractory boride materials and their production. 2,802,748, 8-13-57, Cl. 106-57.
- Glaser, Frank W., to the United States of America as represented by the Secretary of the Navy. Boron and carbon containing hard cemented materials and their production. 2,806,800, 9-17-57, Cl. 106-43.
- Glaser, Frank W., to Borolite Corp. Cemented chromium and chromium boride material and production thereof. 2,807,075, 9-24-57, Cl. 29-182.5.
- Glaser, Frank W., to Borolite Corp. Bodies of chromium boride and chromium molybdenum and their production. 2,807,076, 9-24-57, Cl. 29-182.5.
- Glaser, Frank W., to the United States of America as represented by the Secretary of the Navy. Boron and carbon containing hard cemented materials and their production. 2,814,566, 11-26-57, Cl. 106-43.
- Glaser, Harry W., and T. E. Melick, to The Western Union Telegraph Co. Telegraph transmitter. 2,816,161, 12-10-57, Cl. 178-17.
- Glaser, Joseph H.: *See*—
 Stolle, Walter J., Glaser, Kjellstrand, and Immke. 2,803,579.
- Glaser, Lewis H., to Revell, Inc. Scale model gun turret. 2,782,555, 2-26-57, Cl. 46-93.
- Glaser, Louis. Permanent magnet alloys. 2,813,789, 11-19-57, Cl. 75-123.
- Glasgow, George U.: *See*—
 Marks, Henry C., and Glasgow. 2,817,621.
- Glasgow, Joseph J.: *See*—
 Frye, Frederick C. 2,793,891.
- Glas-Kraft, Inc.: *See*—
 Estee, Ralph G., Bears, Berry, and Sheeran. 2,812,797.
- Glass, Donald C. Water conditioning system with constant dosage of the conditioning agent. 2,789,573, 4-23-57, Cl. 137-101.27.
- Glass, Eugene D.: *See*—
 Behning, Paul D., Glass, and Rzasa. 2,803,305.
- Glass, Henry P. Cabinet or desk structures employing framework arranged outside of panel members. 2,806,755, 9-17-57, Cl. 312-257.
- Glass, Marvin I. Toy. 2,779,132, 1-29-57, Cl. 46-135.
- Glass, Marvin I. Toy cutting device. 2,801,691, 8-6-57, Cl. 164-41.
- Glass, Marvin I. Toy bank. 2,804,719, 9-3-57, Cl. 46-3.
- Glass, Marvin I. Target with indicator. 2,809,039, 10-8-57, Cl. 273-102.1.
- Glass, Marvin I., and C. Pearson, Jr. Electrically operated toy shooting range. 2,805,064, 9-3-57, Cl. 273-101.2.
- Glass, Murray L. Glass coffee protector. 2,807,944, 10-1-57, Cl. 65-31.
- Glass, Myron S., to Bell Telephone Laboratories, Inc. High frequency oscillator. 2,787,711, 4-2-57, Cl. 250-36.
- Glass, Myron S., to Bell Telephone Laboratories, Inc. Magnetic structure for traveling wave tubes. 2,791,718, 5-7-57, Cl. 315-3.5.
- Glass, Myron S., to Bell Telephone Laboratories, Inc. Magnetrons. 2,797,361, 6-25-57, Cl. 315-39.65.

- Glass, Myron S., J. P. Molnar, H. G. Och, and W. H. Thatcher, to Bell Telephone Laboratories, Inc. High frequency oscillator. 2,810,830, 10-22-57, Cl. 250-36.
- Glass, William H., and F. W. Shirey, to Westinghouse Air Brake Co. Compressor governor. 2,817,356, 12-24-57, Cl. 137-469.
- Glassburn, William E., to Westinghouse Electric Corp. Relays. 2,792,531, 5-14-57, Cl. 317-58.
- Glascso, Donald E.: *See*—
Kelly, John H., Jr., R. M. and D. E. Glascso, and White. 2,791,404.
- Glascso, Robert B.: *See*—
Lindsay, James E., and Morelli. 2,813,427.
- Glascso, Rosalind M.: *See*—
Kelly, John H., Jr., R. M. and D. E. Glascso, and White. 2,791,404.
- Glasser, Philip. Denture. 2,817,900, 12-31-57, Cl. 32-2.
- Glassey, Philip P., and W. R. Walker, to The Murray Corp. of America. Dishwashers. 2,788,010, 4-9-57, Cl. 134-104.
- Glassmacher, Bernard A., to Surface Combustion Corp. Electrical compensating circuit. 2,790,093, 4-23-57, Cl. 307-112.
- Glasson, William J.: *See*—
Van Lear, George A., and Glasson. 2,816,451.
- Glatt, Remie W., to Utica Radiator Corp. Baseboard radiator. 2,782,007, 2-19-57, Cl. 257-133.
- Glavin, Gerald M., and H. B. Stevens, to Shawinigan Chemicals Ltd. Process for preparation of monochloroacetic acid. 2,809,993, 10-15-57, Cl. 260-539.
- Glaxo Laboratories Ltd.: *See*—
Baker-Carr, Edgar D. S. 2,811,000.
Baker-Carr, Edgar D. S., and Winfield. 2,799,981.
Winfield, John L. 2,783,908.
Woodard, William A. 2,792,329.
- Glaz-Wrap Packaging Co.: *See*—
Rumsey, Herbert, Jr. 2,785,519.
Rumsey, Herbert, Jr. 2,801,180.
- Gleason, Hollis K., to Bendix Aviation Corp. Variable speed gearing for hub type bicycle coaster brakes. 2,796,775, 6-25-57, Cl. 74-751.
- Gleason, Anthony H.: *See*—
Nelson, Joseph F., Banes, and Gleason. 2,795,631.
Yowell, Howard L., and Gleason. 2,798,022.
- Gleason, Donald H. Aerial missile. 2,816,764, 12-17-57, Cl. 273-106.
- Gleason, Charles H., to Westinghouse Electric Corp. Secondary electron suppressor. 2,777,085, 1-8-57, Cl. 313-106.
- Gleason, Frederick C., to Mailsort Inc. Feeding mechanism for sorting machine. 2,812,179, 11-5-57, Cl. 271-39.
- Gleason, Walter W.: *See*—
Matuszak, Alfred H., Gleason, Young, and Cottle. 2,800,500.
- Gleason, Willard S., to E. I. du Pont de Nemours and Co. Deactivation of catalysts. 2,810,666, 10-22-57, Cl. 148-614.
- Gleason, William W., to Nachman Corp. Coil spring assembly. 2,784,422, 3-12-57, Cl. 5-277.
- Gleason, William W., to Nachman Corp. Spring assembly for upholstery. 2,790,979, 5-7-57, Cl. 5-353.
- Gleason Works, The: *See*—
Candee, Allan H., and Donohoe. 2,793,042.
Carlsen, Leonard O. 2,775,921.
Carlsen, Leonard O., and Critchley. 2,778,353.
Carlsen, Leonard O., Critchley, and Pedersen. 2,792,672.
Carlsen, Leonard O., and Dammert. 2,804,722.
Carlsen, Leonard O., and Dammert. 2,804,867.
Carlsen, Leonard O., and Johnson. 2,814,166.
Carlsen, Leonard O., and Male. 2,782,689.
Carlsen, Leonard O., and Male. 2,792,764.
Carlsen, Leonard O., and Male. 2,812,186.
Dammert, Earl D. 2,792,673.
Fidd, Joseph V. 2,805,056.
Johnson, Olaf A., and Carlsen. 2,811,781.
Klem, Theodore F., and Satterlee. 2,778,649.
Pedersen, Harry. 2,780,873.
Wildhaber, Ernest. 2,775,922.
Wildhaber, Ernest. 2,782,647.
Wildhaber, Ernest. 2,787,939.
Wildhaber, Ernest, and Fowler. 2,782,690.
- Gleeson, John D., to Deere Mfg. Co. Combination tachometer, speedometer and hourmeter. 2,798,454, 7-9-57, Cl. 116-133.
- Gleim, William E., to Westinghouse Electric Corp. Fulminator for photoflash lamps. 2,791,111, 5-7-57, Cl. 67-31.
- Gleim, William E., and M. Eber, to Westinghouse Electric Corp. Photoflash lamp. 2,787,149, 4-2-57, Cl. 67-31.
- Gleim, William K. T., to Universal Oil Products Co. Deactivating catalytic effect of metals. 2,789,912, 4-23-57, Cl. 99-163.
- Gleim, William K. T., to Universal Oil Products Co. Stabilization of organic compounds. 2,813,783, 11-19-57, Cl. 44-71.
- Gleim, William K. T., and P. Urban, to Universal Oil Products Co. Refining process including regeneration of used alkaline reagents. 2,794,767, 6-4-57, Cl. 196-32.
- Gleissner, Anton G. Bicycle side cars. 2,809,052, 10-8-57, Cl. 280-203.
- Gleitsman, Harold. Clothes hamper. 2,780,509, 2-5-57, Cl. 312-201.
- Gleitsman, Harold. Clothes hamper. 2,814,542, 11-26-57, Cl. 312-201.
- Gleitz, Jerome D., to Curtiss-Wright Corp., Marquette Metal Products Division. Textile mill spindles. 2,775,859, 1-1-57, Cl. 57-130.
- Gleitz, Jerome D., and L. J. Moulton, to Curtiss-Wright Corp., Marquette Metal Products Division. Textile mill spindles. 2,802,330, 8-13-57, Cl. 57-130.
- Glendinning, Stanley A., to Amalgamated Limestone Corp. Ltd. Transportable bin or container. 2,808,164, 10-1-57, Cl. 214-517.
- Glenn, Ashley C. Pumps or compressors. 2,784,902, 3-12-57, Cl. 230-168.
- Glenn, Dale T., to Pennsylvania Refining Co. Devices for cleaning out internal combustion engine carburetors. 2,792,008, 5-14-57, Cl. 134-167.
- Glenn, George G., and W. W. Wahlgren, to M & T Welding Products Corp. Constant voltage power supply system for welding equipment. 2,800,571, 7-23-57, Cl. 219-131.
- Glenn, Howard J.: *See*—
Swett, Leo R., and Glenn. 2,807,623.
- Glenn, Irving G. Multiple electric heater assembly. 2,777,927, 1-15-57, Cl. 201-67.
- Glenn, John C. Carburetor. 2,801,088, 7-30-57, Cl. 261-65.
- Glenn, John F., J. J. Clancy, and R. S. Brenneman, to The L. D. Caulk Co. Dental cavity primer. 2,794,016, 5-28-57, Cl. 260-80.5.
- Glenn, William E., to General Electric Co. Wear resistant contact. 2,803,738, 8-20-57, Cl. 219-121.
- Glenn, William E., to General Electric Co. Colored light system. 2,813,146, 11-12-57, Cl. 178-54.
- Glenn, William S., Jr., and W. L. Septon; said Septon assor. to said Glenn. Article grappling and stacking attachment for lift trucks. 2,780,377, 2-5-57, Cl. 214-652.
- Glennon, James B., C. M. Van Atta, and J. D. Turlay. Mooring device for a submarine mine. 2,789,503, 4-23-57, Cl. 102-13.
- Glenny, Arthur P.: *See*—
Sedgfield, Hugh B., Greenhalgh, Glenny, and Dove. 2,794,975.
- Glenny, Clarence S., to The Washburn Co. Bicycle basket. 2,805,806, 9-10-57, Cl. 224-41.
- Glesner, Charles W., to The Dow Chemical Co. Washer for use in primary cells. 2,790,022, 4-23-57, Cl. 136-177.
- Glezen, Lewis E.: *See*—
Fox, Gerald B., and Glezen. 2,804,213.
- Glickman, Earl B. Food flavor intensifier. 2,790,719, 4-30-57, Cl. 99-140.
- Glickman, Leonard. Shearing machine. 2,796,124, 6-18-57, Cl. 164-40.
- Glickman, Richard B., to Minneapolis-Honeywell Regulator Co. Safety device. 2,817,973, 12-31-57, Cl. 74-2.
- Glicksman, Richard: *See*—
Morehouse, Clarence K., and Glicksman. 2,809,225.
- Glidden, Arthur R. Fish-bowl having reflective surfaces. 2,808,024, 10-1-57, Cl. 119-5.
- Glidden Co., The: *See*—
Allan, Benjamin W., and Rummery. 2,777,777.
Allan, Benjamin W., and Rummery. 2,777,778.
Allan, Benjamin W., Rummery, and Gilbert. 2,794,702.
Andrews, Robert C., and Peterson. 2,777,829.
Bain, Joseph P., Booth, and Klein. 2,803,647.
Bain, Joseph P., and Gary. 2,785,208.
Bain, Joseph P., and Gary. 2,818,427.
Bain, Joseph P., Klein, Hunt, and Booth. 2,818,435.
Bickel, David K., and Mittl. 2,817,619.
Booth, Albert B., and Klein. 2,796,428.
Booth, Albert B., and Klein. 2,803,659.
Booth, Albert B., and Klein. 2,815,383.
Cochran, Walter M., and Ott. 2,783,151.
Drapeau, Joseph E., Jr., and Johnson. 2,817,579.
Julian, Percy L., and Karpel. 2,789,989.
Julian, Percy L., Meyer, Ryden, and Karpel. 2,816,108.
Klein, Eugene A. 2,815,378.
Klein, Jerome G., Meyer, and Grotz. 2,815,333.
- Glidden, Galen M., to Acme Protection Equipment Co. Recovery and filtering apparatus and method. 2,785,767, 3-19-57, Cl. 183-37.
- Glidden, Galen M., to Acme Protection Equipment Co. Transfer mask. 2,818,066, 12-31-57, Cl. 128-142.
- Glidden, Robert L.: *See*—
Fulper, John H., Cooper, and Glidden. 2,818,008.
- Gliem, William K. T., to Universal Oil Products Co. Stabilization process. 2,780,550, 2-5-57, Cl. 99-163.
- Glietenberg, Eugen: *See*—
Breig, Kurt, Glietenberg, and Nüssler. 2,816,101.
- Glietenberg, Eugen, and J. Hassmann, to Farbenfabriken Bayer Aktiengesellschaft. Process of preparing ice-colors in textile printing and dyeing. 2,815,259, 12-3-57, Cl. 8-45.
- Glinka, Carl. Process and apparatus for the generation of mechanical energy from solid fuels having a high water content. 2,777,288, 1-15-57, Cl. 60-39.04.
- Glinka, Carl, to Buttner-Werke Aktiengesellschaft. Apparatus for the continuous lixivation, extraction or the like of vegetable matter. 2,782,104, 2-19-57, Cl. 23-270.
- Globe Hoist Co.: *See*—
Thompson, Elmer B. 2,802,457.
- Globe Lighting Products, Inc.: *See*—
Oster, Joseph, and Rosenblatt. 2,787,702.
- Globe Oil Tools Co.: *See*—
Goodwin, John S. 2,778,669.
Goodwin, John S. 2,805,045.

- Globe Roofing Products Co., Inc.: *See*—
 Bordeaux, Robert D. 2,801,599.
 Robert, John, and Beckman. 2,803,040.
- Globe-Union Inc.: *See*—
 Guernsey, Glen A., and Garen. 2,802,970.
 Kling, Arnold G. 2,776,356.
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 Roup, Roland R. 2,794,940.
 Schaefer, John F., and Sabatino. 2,799,719.
 Youngbeck, Karl W. 2,777,924.
- Globe-Wernicke Co., The: *See*—
 Conley, Frank, and Brinker. 2,810,388.
- Globus, Alfred R., to United International Research, Inc.
 Method of producing prefabricated forms of metals of high melting point. 2,808,323, 10-1-57, Cl. 75-10.
- Globus, Alfred R., to United International Research, Inc.
 Process of making boron nitride. 2,812,240, 11-5-57, Cl. 23-191.
- Glodde, Herman E. Tools. 2,810,193, 10-22-57, Cl. 30-280.
- Gloss, Paul F. M., to Societe d'Electronique et d'Automatisme. Electronic digital adder and multiplier. 2,790,599, 4-30-57, Cl. 235-61.
- Gloss, Paul F. M., to International Standard Electric Corp.
 Sounding device using electromagnetic waves. 2,807,016, 9-17-57, Cl. 343-11.
- Glogau, Manfred L., to Allen-Bradley Co. Preselection switch. 2,796,474, 6-18-57, Cl. 200-17.
- Glogau, Richard C., to E. I. du Pont de Nemours and Co.
 Nitration of aromatic compounds. 2,791,617, 5-7-57, Cl. 260-645.
- Glo-Quartz Electric Heater Co., Inc.: *See*—
 Strokes, George T. 2,780,715.
- Gloskey, Carl R., to Metal & Thermit Corp. Process for production of tetra-alkyl tin compound having at least 10 carbon atoms per alkyl radical. 2,805,234, 9-3-57, Cl. 260-429.7.
- Gloss, Gunter H.: *See*—
 Dancy, William B., Gloss, and Shaw. 2,809,880.
- Gloss, Gunter H., to International Minerals & Chemical Corp.
 Process for the production of magnesium oxide from ores containing magnesium sulfate. 2,776,191, 1-1-57, Cl. 23-201.
- Gloss, Gunter H., to International Minerals & Chemical Corp.
 Process for recovering solid calcium fluoride containing product and colloidal silica solution from a weak aqueous fluosilicic acid solution. 2,780,523, 2-5-57, Cl. 23-88.
- Gloss, Gunter H., and J. H. Gross, to International Minerals & Chemical Corp. Production of fluorine compounds. 2,780,522, 2-5-57, Cl. 23-88.
- Gloss, Gunter H., and J. H. Gross, to International Minerals & Chemical Corp. Process for production of substantially phosphate-free ammonium silicofluoride from den gas. 2,780,524, 2-5-57, Cl. 23-88.
- Glossbrenner, Daniel I.: *See*—
 Lebocey, Bernard J. E. 2,780,312.
- Glove City Abrading Co., Inc., The: *See*—
 Teetz, Howard D., Sr. 2,793,475.
- Glover, Armond D. Rotatable tool holder for lathe-type rotary cutting tools. 2,777,486, 1-15-57, Cl. 144-231.
- Glover Bros. (Mossley) Ltd.: *See*—
 Finkelstein, Theodor. 2,793,440.
- Glover, Leonora W. Household articles. 2,808,938, 10-8-57, Cl. 210-469.
- Glover, Leonora W. Table cover with replaceable centerpiece. 2,809,466, 10-15-57, Cl. 45-68.3.
- Glover, Wayne A., to Phillips Petroleum Co. Temperature control of chemical reactions and apparatus. 2,790,803, 4-30-57, Cl. 260-290.
- Glover, William D. Game apparatus. 2,787,469, 4-2-57, Cl. 273-134.
- Glover, William G., to The British Oxygen Co. Ltd. Cutting machines. 2,815,199, 12-3-57, Cl. 266-23.
- Glowzinski, Chester J., and P. W. Maurer, to General Motors Corp. Switch controllers. 2,781,425, 2-12-57, Cl. 200-4.
- Gluck, Samuel. Billfold and coin purse. 2,788,825, 4-16-57, Cl. 150-35.
- Gluckin, William, & Co., Inc.: *See*—
 Astor, Edward E. 2,794,984.
- Gluesenkamp, Earl W., to Monsanto Chemical Co. Organic materials. 2,795,545, 6-11-57, Cl. 252-28.
- Gluskin, Nathan: *See*—
 Bugge, Erling P. 2,797,693.
- Gluyas, Thomas M., Jr., L. L. Koros, and R. N. Clark, to Radio Corp. of America. Output or input circuits for vacuum tubes. 2,790,857, 4-30-57, Cl. 179-171.
- Glynn, Theodore W., to Blue Ridge Glass Corp. Electric resistance heater. 2,784,287, 3-5-57, Cl. 219-19.
- Glynn, Theodore W., and J. S. Storm, Jr., to Blue Ridge Glass Corp. Electric resistance heater. 2,780,708, 2-5-57, Cl. 219-19.
- Gmür, Bruno, to G. Buehler. Device for mixing and discharging bulk materials. 2,788,922, 4-16-57, Cl. 222-270.
- Gnome Photographic Products Ltd.: *See*—
 Engelhard, Noe N., and Loebstein. 2,811,078.
- Gobel, Charles. Flowmeter. 2,781,660, 2-19-57, Cl. 73-215.
- Göbel, Gerhard. Temperature regulator for room heating. 2,781,978, 2-19-57, Cl. 236-38.
- Göbel, Gerhard. Heat exchanger. 2,812,926, 11-12-57, Cl. 257-138.
- Gobbie, Kenneth W. Shoulder pad. 2,808,973, 10-8-57, Cl. 224-5.
- Goché, Jean. Shower stall. 2,778,030, 1-22-57, Cl. 4-149.
- Gochenour, Carl I., W. E. Ashton, and C. F. Baranaukas, to Hooker Electrochemical Co. Perhaloacrylyl peroxides in fluoro-olefin polymerizations. 2,793,201, 5-21-57, Cl. 260-92.1.
- Gochoel, Urban F., to J. T. Stanko. Apparatus for generating gaseous fuel. 2,795,493, 6-11-57, Cl. 48-144.
- Godart, Jean A. R. O. L.: *See*—
 Braconier, Frederic F. A., and Godart. 2,779,804.
- Godbarsen, Robert, Jr., to General Electric Co. Switching system. 2,809,296, 10-8-57, Cl. 250-95.
- Goddard, Charles T., to Bell Telephone Laboratories, Inc. Electron discharge devices and method of fabricating. 2,784,480, 3-12-57, Cl. 29-25.14.
- Goddard, Charles T., to Bell Telephone Laboratories, Inc. Wave amplifier electron discharge device. 2,785,338, 3-12-57, Cl. 315-39.
- Goddard, Charles T., to Bell Telephone Laboratories, Inc. Wave amplifier electron discharge device. 2,785,339, 3-12-57, Cl. 315-39.
- Goddard & Goddard Co.: *See*—
 Hill, John P. 2,778,924.
 Hill, John P. 2,797,299.
- Goddard, Harold O. Waste sulphite liquor recovery. 2,801,168, 7-30-57, Cl. 92-2.
- Goddard, Harold O. Process of recovering alcohol from waste sulphite liquor. 2,801,206, 7-30-57, Cl. 195-39.
- Goddard, Harold O. Process for producing and concentrating residual waste sulphite liquor. 2,816,831, 12-17-57, Cl. 92-2.
- Goddard, J., & Sons Ltd.: *See*—
 Treece, Harold R. 2,801,961.
- Gödde, Franz, to Koppers Co., Inc. Apparatus for indicating the state of charge of bunkers. 2,775,892, 1-1-57, Cl. 73-304.
- Goddin, Avery H., and S. S. Sharp, to E. I. du Pont de Nemours and Co. Protecting animal food. 2,818,340, 12-31-57, Cl. 99-2.
- Godel, Albert A., to Compagnie Industrielle de Procédés et d'Applications S. A. (C. I. P. A.) Method for fluidizing solids. 2,813,351, 11-19-57, Cl. 34-10.
- Godes, Elliot: *See*—
 Phillips, Leonard R., Miller, Godes, and Kurth. 2,800,018.
- Godfrey, John W.: *See*—
 Holmes, John R., Godfrey, and Caughill. 2,796,239.
- Godfrey, Kenneth L., to Monsanto Chemical Co. Trichlorophenylacetone nitriles. 2,790,819, 4-30-57, Cl. 260-465.
- Godfrey, Ronald G., to General Electric Co. Wiping spring blades for fluorescent lampholders. 2,814,788, 11-26-57, Cl. 339-52.
- Godfrey, Samuel M. Fish scaling machine. 2,795,812, 6-18-57, Cl. 17-5.
- Godlewski, Edmund E., and R. I. Link. Strip type can opener. 2,797,842, 7-2-57, Cl. 220-52.
- Godley, Philip, 2nd: *See*—
 Clough, Philip J., and Godley. 2,785,082.
- Godowsky, Leopold, and J. J. Duane, to Eastman Kodak Co. Method of making photographic packet emulsions. 2,787,544, 4-2-57, Cl. 96-97.
- Godschalx, Adrian T.: *See*—
 Hosea, Everett E., and Godschalx. 2,816,454.
- Godschalx, Adrian T. Automatic looms. 2,805,686, 9-10-57, Cl. 139-1.
- Godschalx, Adrian T. Automatic control for loom. 2,810,402, 10-22-57, Cl. 139-1.
- Godshalk, James B., and L. A. Medlar, to Fox Products Co. Battery charging and testing apparatus. 2,791,749, 5-7-57, Cl. 324-29.5.
- Godshalk, James B., L. A. Medlar, and W. G. Keck, to Fox Products Co. Current density responsive apparatus. 2,802,182, 8-6-57, Cl. 324-117.
- Godwin, Charles J.: *See*—
 Rives, Frank M., Berigan, Godwin, Siegel, and Zebley. 2,815,869.
- Goebel, Charles G.: *See*—
 Barrett, Fred O., Goebel, and Peters. 2,793,219.
 Barrett, Fred O., Goebel, and Peters. 2,793,220.
- Goebel, Charles G., A. C. Brown, H. F. Oehlschlaeger, and R. P. Rolfes, to Emery Industries, Inc. Method of making azelaic acid. 2,813,113, 11-12-57, Cl. 260-406.
- Goebel, Helmut: *See*—
 Frensch, Heinz, Goebel, Staudermann, and Finkenbrink. 2,799,685.
- Goebel, Victor L., to Avco Mfg. Corp. Refrigerator door and method of assembling the same. 2,817,880, 12-31-57, Cl. 20-35.
- Goebel, Walter E., to American Radiator & Standard Sanitary Corp. Cabinet joining structure. 2,790,691, 4-30-57, Cl. 312-111.
- Goebel, Walter E., to American Radiator and Standard Sanitary Corp. Hinge structure. 2,807,829, 10-1-57, Cl. 16-163.
- Goeckel, Howard F., to Libbey-Owens-Ford Glass Co. Hardware attaching means. 2,787,346, 4-2-57, Cl. 189-46.
- Goeble, Nelson C. Saw sharpener. 2,805,587, 9-10-57, Cl. 76-41.
- Goehler, Elmer E., and G. O. Zener, said Zener to D. A. Chance. Seat for golf cart. 2,800,953, 7-30-57, Cl. 155-135.
- Goehring, Bernhard H., to Norton Co. Swivel table alignment. 2,780,040, 2-5-57, Cl. 51-240.

- Goehring, George F. Animated display device. 2,810,975, 10-29-57, Cl. 40-126.
- Goehring, Gordon J. Fuse carrying attachment for trainmen lanterns. 2,780,723, 2-5-57, Cl. 246-488.
- Goenaga, Alvaro: *See*—
Visor, Frederick C., McNew, Koch, and Goenaga. 2,777,791.
- Goenen, Edward L. Carrying device for cans. 2,782,916, 2-26-57, Cl. 206-65.
- Goepfrich, Rudolph A., to Bendix Aviation Corp. Brake drum. 2,781,873, 2-19-57, Cl. 188-264.
- Goepfrich, Rudolph A., to Bendix Aviation Corp. Valve device for fluid pressure system. 2,789,578, 4-23-57, Cl. 137-493.1.
- Goepfing, Edward J., R. M. Whitehorn, M. E. Bourns, and M. E. Harrison; said Goepfing, Whitehorn, and Harrison assors. to said Bourns. Linearity tester. 2,780,776, 2-5-57, Cl. 324-63.
- Goering, Hans G.: *See*—
Garabrant, Arthur R., Schneider, Goering, and Mottern. 2,779,753.
- Goering, Harvey L.: *See*—
Willardson, Robert K., Goering, and Harman. 2,778,802.
- Goerlich, Reinhard: *See*—
Sindzinski, Willy, and Goerlich. 2,797,057.
- Goerner, Joseph K., and J. F. Bone, to Jefferson Chemical Co., Inc. Decabaling of aldehydes in the oxo process. 2,790,007, 4-23-57, Cl. 260-604.
- Goertz, Matilda F., and H. J. Williams, to Bell Telephone Laboratories, Inc. Stressed ferrite cores. 2,818,514, 12-31-57, Cl. 310-26.
- Goertz, Raymond C., to the United States of America as represented by the United States Atomic Energy Commission. Anti-swing crane. 2,806,610, 9-17-57, Cl. 212-131.
- Goesch, Reuben E. Irrigation pipe carrier. 2,818,182, 12-31-57, Cl. 214-1.
- Goeste, Charles J. Auxiliary sunshade attachment for visors. 2,818,298, 12-31-57, Cl. 296-97.
- Goessel, Elmer: *See*—
Diebold, Edward J., and Goessel. 2,805,300.
- Goettl, Albert B.: *See*—
Goettl, Adam D., and G. and A. B. and J. Goettl. 2,789,494.
- Goettl, Adam D., G. Goettl, A. B. Goettl, and J. Goettl, to International Metal Products Co. Evaporative coolers and means for mounting the same. 2,789,494, 4-23-57, Cl. 62-139.
- Goettl, Gust: *See*—
Goettl, Adam D., and G. and A. B. and J. Goettl. 2,789,494.
- Goettl, John: *See*—
Goettl, Adam D., G. A. B., and J. 2,789,494.
- Goettner, Fritz. High fidelity sound reproducing apparatus. 2,808,121, 10-1-57, Cl. 181-31.
- Goetz, Alfred K. Book carrier. 2,801,781, 8-6-57, Cl. 224-52.
- Goetz, Charles E. Vacuum cooling. 2,786,342, 3-26-57, Cl. 62-178.
- Goetz, Henry G. Photographic print stamping apparatus. 2,779,271, 1-29-57, Cl. 101-291.
- Goetz, John H., and W. C. Carpet wringer. 2,800,012, 7-23-57, Cl. 68-261.
- Goetz, John L.: *See*—
Giacoletto, John P., Goetz, and Wulfsberg. 2,800,618.
- Goetz, John L., to Collins Radio Co. Balanced tuner. 2,786,141, 3-19-57, Cl. 250-40.
- Goetz, Lawrence R.: *See*—
Aust, Robert J., Frey, Goetz, and Skillman. 2,787,713.
- Goetz, Maurus T., to Teletypesetter Corp. Control unit for composing machines. 2,786,567, 3-26-57, Cl. 199-18.
- Goetz, Maurus T., to Teletypesetter Corp. Control unit for composing machines. 2,786,568, 3-26-57, Cl. 199-18.
- Goetz, Michael K. Cover for tap opening of beer kegs. 2,812,876, 11-12-57, Cl. 220-40.
- Goetz, Reuben G., to International Salt Co., Inc. Packaging machine. 2,796,089, 6-18-57, Cl. 141-151.
- Goetz, William C.: *See*—
Goetz, John H., and W. C. 2,800,012.
- Goetzel, Claus G., and J. B. Adamec, to Sintercast Corp. of America. Methods of infiltrating high melting skeleton bodies. 2,798,809, 7-9-57, Cl. 75-200.
- Goetzel, Claus G., and J. L. Ellis, to Sintercast Corp. of America. Method of making a sintered, high temperature article. 2,798,810, 7-9-57, Cl. 75-201.
- Goetzwerke Friedrich Goetze Aktiengesellschaft: *See*—
Müller, Max A. 2,791,927.
- Weissenberger, Alfons. 2,807,873.
- Goff, Forrest A.: *See*—
Coleman, William B., and Goff. 2,811,456.
- Goff, John C., to the United States of America as represented by the Secretary of the Navy. Electrolytically controlled extender delay for a mine. 2,780,993, 2-12-57, Cl. 102-16.
- Goff, John C., to the United States of America as represented by the Secretary of the Navy. Cable snubbing and locking apparatus for moored mine. 2,813,486, 11-19-57, Cl. 102-13.
- Goff, John W., to United Screw Products & Mfg. Co. Drinking fountain for poultry and the like. 2,817,355, 12-24-57, Cl. 137-408.
- Goff, William H., and W. L. Banks, to The Texas Co. Process for preparing stable gelled hydrocarbons. 2,789,040, 4-16-57, Cl. 44-7.
- Goffnett, Fred J. Spring loaded stone trap for combines. 2,812,766, 11-12-57, Cl. 130-27.
- Goforth, Howard I.: *See*—
Geel, John J. 2,794,283.
- Goforth, Howard I., and R. L. Yelverton; said Yelverton assor. to said Goforth. Display device. 2,801,482, 8-6-57, Cl. 40-126.
- Goggin, Edwin J.: *See*—
Erenberg, Robert W., Goggin, and Nordby. 2,795,336.
- Goguen, Joseph A. E. Posture board. 2,785,418, 3-19-57, Cl. 5-327.
- Gohin, Gills: *See*—
Thiebault, Bernard, and Gohin. 2,787,264.
- Gohorel, Fernand P., to International Standard Electric Corp. Automatic telephone systems. 2,810,018, 10-15-57, Cl. 179-22.
- Going, Louis H.: *See*—
Andre, James R., and Going. 2,815,286.
- Goins, Robert R., to Phillips Petroleum Co. Pebble furnaces and method of heating pebbles. 2,776,825, 1-8-57, Cl. 263-19.
- Goins, Robert R., to Phillips Petroleum Co. Pebble heat exchanger. 2,783,097, 2-26-57, Cl. 302-53.
- Goins, Robert R., to Phillips Petroleum Co. Production of unsaturated hydrocarbons and apparatus therefor. 2,816,941, 12-17-57, Cl. 260-679.
- Goins, Robert R., and J. W. Begley, to Phillips Petroleum Co. Regenerative furnace and conversion of hydrocarbons therein to acetylene and ethylene. 2,792,437, 5-14-57, Cl. 260-679.
- Goins, William C., Jr., and F. Nash, Jr., to Gulf Oil Corp. Method of and composition for recovering circulation of drilling fluids in wells. 2,815,079, 12-3-57, Cl. 166-29.
- Gokey, Joseph G., to Structo Mfg. Co. Hoist mechanism for toys. 2,810,984, 10-29-57, Cl. 46-40.
- Golar, Paul: *See*—
Kendall, Fred E., and Golar. 2,813,804.
- Golasowski, Jan. Adjustably interlockable C-clamps. 2,778,393, 1-22-57, Cl. 144-304.
- Golay, Donaven E., to Farmer Feeder Co., Inc. Vacuumized line milk releaser and washer. 2,786,445, 3-26-57, Cl. 119-14.07.
- Golay, Donovan E., to Farmer Feeder Co., Inc. Pulsated milk line milking adapter. 2,809,607, 10-15-57, Cl. 119-14.41.
- Golbeck, Bernard J., to Erwood, Inc. Adjustable saw and planer. 2,803,153, 8-20-57, Cl. 77-69.
- Gold, Benjamin, to Handy Folding Pail Co., Inc. Collapsible service baskets. 2,785,724, 3-19-57, Cl. 150-49.
- Gold, Benjamin, to Handy Folding Pail Co., Inc. Interestable service baskets. 2,785,725, 3-19-57, Cl. 150-51.
- Gold, Charles M., to Yardney International Corp. Liquid-filling device. 2,783,291, 2-26-57, Cl. 136-90.
- Gold, Harold, and D. M. Straight. Fluid metering system. 2,809,653, 10-15-57, Cl. 137-118.
- Gold, John: *See*—
Buchanan, Ross W., and Gold. 2,779,687.
- Gold, Robert M.: *See*—
Lincoln, Clovis W., Zeigler, and Gold. 2,779,427.
- Gold, Robert M., C. W. Lincoln, and H. S. Smith, to General Motors Corp. Fluid power steering control valve. 2,798,461, 7-9-57, Cl. 121-46.5.
- Gold, Robert M., and C. W. Lincoln, to General Motors Corp. Fluid operated mechanism with proportional feel. 2,815,737, 12-10-57, Cl. 121-41.
- Gold, William: *See*—
Vandeputte, John, and Gold. 2,786,781.
- Goldberg, Abraham G. Display device holder. 2,791,046, 5-7-57, Cl. 40-10.
- Goldberg, Bernard, to the United States of America as represented by the Secretary of the Army. Automatic frequency control system with phase control for synchronous detection. 2,777,055, 1-8-57, Cl. 250-20.
- Goldberg, Charles, and M. Goldhaft. Fish hook. 2,816,392, 12-17-57, Cl. 43-43.16.
- Goldberg, David N. Flexible brake or clutch band. 2,778,470, 1-22-57, Cl. 192-107.
- Goldberg, Edwin A., to Radio Corp. of America. Color television transmitter burst injection. 2,776,334, 1-1-57, Cl. 178-5.4.
- Goldberg, Edwin A., to Radio Corp. of America. Switching system. 2,782,303, 2-19-57, Cl. 250-27.
- Goldberg, Edwin A., to the United States of America as represented by the Secretary of the Navy. Electronic integrator. 2,792,988, 5-21-57, Cl. 235-61.
- Goldberg, Ernest W. Case and base structure combination for picture projectors. 2,777,357, 1-15-57, Cl. 88-24.
- Goldberg, Ernest W. Tilttable projector base structure with integral socket mount. 2,783,679, 3-5-57, Cl. 88-24.
- Goldberg, Ernest W. Slide and film projector with swing-away head. 2,783,680, 3-5-57, Cl. 88-28.
- Goldberg, Ernest W. Luggage handle. 2,784,816, 3-12-57, Cl. 190-58.
- Goldberg, Ernest W., to Minneapolis-Honeywell Regulator Co. Photographic slide binder. 2,806,309, 9-17-57, Cl. 40-152.
- Goldberg, Ernest W., to Minneapolis-Honeywell Regulator Co. Editing holder for viewing and cutting strip film. 2,815,813, 12-10-57, Cl. 164-79.

- Goldberg, Howard: *See*—
Potter, Allen D., and Goldberg. 2,776,700.
- Goldberg, Jacob Z., to International Minerals and Chemical Corp. Apparatus for comminuting exfoliated perlite. 2,808,212, 10-1-57, Cl. 241-39.
- Goldberg, Jacob, and B. Cox. Data sorting system. 2,798,216, 7-2-57, Cl. 340-347.
- Goldberg, Jacob, and B. Cox. Electronic apparatus for high-speed printers. 2,799,222, 7-16-57, Cl. 101-93.
- Goldberg, John A., to Superior Lase Mills, Inc. Lase and method of making same. 2,787,934, 4-9-57, Cl. 87-4.
- Goldberg, Morris I. Child's chair for use either within or outside of an automobile. 2,814,333, 11-26-57, Cl. 155-11.
- Goldberg, Moses W., and A. I. Rachlin, to Hoffmann-La Roche Inc. Derivatives of meta hydroxy aniline. 2,783,230, 2-26-57, Cl. 260-247.2.
- Goldberg, Moses W., and S. Teitel, to Hoffmann-La Roche Inc. Phenacylsulfonyl pyridine compounds. 2,784,194, 3-5-57, Cl. 260-294.8.
- Goldberg, Moses W., and A. I. Rachlin, to Hoffmann-La Roche Inc. Derivatives of 4-(diethylaminoethoxy) diphenylpropane. 2,796,435, 6-18-57, Cl. 250-570.7.
- Golden, Clair W. Advertising display combination. 2,797,509, 7-2-57, Cl. 40-10.
- Golden, Harold W.: *See*—
Albright, Robert B., and Golden. 2,777,192.
Albright, Robert B., and Golden. 2,777,193.
- Golden, Harry H., $\frac{1}{2}$ to Sears, Roebuck and Co. Lighted bathroom cabinet. 2,784,302, 3-5-57, Cl. 240-4.1.
- Golden, Jacob M., to Universal Lamp Harp Corp. Lamp shade head assembly. 2,805,329, 9-3-57, Cl. 240-148.
- Golden, Jacob M., to Universal Lamp Harp Corp. Lamp shade support assembly. 2,805,330, 9-3-57, Cl. 240-148.
- Golden, John, 20% to G. W. Flanders, Jr. Foldable carton. 2,783,931, 3-5-57, Cl. 229-15.
- Golden, Norman J.: *See*—
Dawson, Maynard H., and Golden. 2,788,299.
- Golden, Norman J., and A. T. Pip, to Sylvania Electric Products Inc. Within limits frequency response tester. 2,794,952, 6-4-57, Cl. 324-57.
- Goldenberg, Abraham, and C. J. Wintergreen; said Wintergreen assignor to said Goldenberg. Vehicular electromagnetic sound recording and reproducing system. 2,802,906, 8-13-57, Cl. 179-100.2.
- Goldenberg, Julius L., to Hotelevision Co. Vending machine controlled by credit identification means. 2,792,148, 5-14-57, Cl. 222-2.
- Goldenberg, Nathan. Support clamp. 2,791,461, 5-7-57, Cl. 294-85.
- Goldfinger, Walter B., and S. Beckler. Simulated game. 2,808,263, 10-1-57, Cl. 273-1.
- Goldfischer, Lester I., to General Precision Laboratory Inc. Photoelectric trigger circuit. 2,798,965, 7-9-57, Cl. 250-214.
- Goldhaar, Abraham, to Universal Detergents, Inc. Method of acidulating phosphate rocks and reaction-promoting agents therefor. 2,786,746, 3-26-57, Cl. 71-40.
- Goldhaft, Morris: *See*—
Goldberg, Charles, and Goldhaft. 2,816,392.
- Goldhammer, Jerome S. Combined developer and fixer. 2,782,121, 2-19-57, Cl. 96-61.
- Goldhammer, Jerome S., and J. A. Maurer, Jr. Combined developer and fixer. 2,782,120, 2-19-57, Cl. 96-61.
- Golding, Brage, to Purdue Research Foundation. Process for dispersing aluminum rosinate. 2,812,266, 11-5-57, Cl. 106-173.
- Golding, David R. V., to E. I. du Pont de Nemours and Co. Manufacture of phthaloyl chlorides. 2,791,608, 5-7-57, Cl. 260-544.
- Golding, David R. V., to E. I. du Pont de Nemours and Co. Process for preparing cyclohexyl sulfamic acid. 2,814,640, 11-26-57, Cl. 260-501.
- Golding, Robert G. Apparatus for acidizing wells. 2,802,537, 8-13-57, Cl. 166-224.
- Goldman, Arthur, to Velsicol Chemical Corp. Hexachlorobicyclo-heptenyl-vinyl ether. 2,795,619, 6-11-57, Cl. 260-611.
- Goldman, Bronislaw. Mixing machines. 2,793,837, 5-28-57, Cl. 259-21.
- Goldman, Conrad. Electric switches. 2,786,909, 3-26-57, Cl. 200-51.14.
- Goldman, Jerome: *See*—
Spirt, Milton, and Goldman. 2,803,010.
- Goldman, Leon S. Growing and identification of fungi. 2,784,146, 3-5-57, Cl. 195-100.
- Goldman, Louis, to Bancroft Cap Co. Adjustable child's cap. 2,797,417, 7-2-57, Cl. 2-197.
- Goldman, Marcene S., and C. C. Nathan, to The Texas Co. Prevention of paraffin deposition and plugging. 2,817,635, 12-24-57, Cl. 252-8.55.
- Goldman, Oscar. Program preselecting and control apparatus. 2,806,527, 9-17-57, Cl. 161-1.
- Goldman, Sanford L. Jacket for a magazine. 2,808,274, 10-1-57, Cl. 281-20.
- Goldmark, Peter C., to Columbia Broadcasting System, Inc. Phonograph cabinet. 2,777,902, 1-15-57, Cl. 179-100.4.
- Gold Medal Folding Furniture Co.: *See*—
Gittings, John B., and R. S. 2,783,825.
- Goldmuntz, Lawrence, and H. L. Schroeder, to Bobrich Products Corp. Temperature responsive protective device for electric circuits. 2,801,317, 7-30-57, Cl. 219-20.
- Goldmuntz, Lawrence A., to Bobrich Products Corp. Control device for electric heating elements. 2,800,562, 7-23-57, Cl. 219-20.
- Goldner, George H.: *See*—
Gladd, Joseph M., and Goldner. 2,805,318.
- Goldschmidt, Alfred: *See*—
Wright, James R., and Goldschmidt. 2,780,636.
- Goldschmidt, Herbert. Spill-proof containers. 2,810,491, 10-22-57, Cl. 220-1.
- Goldschmidt, Th., A.-G. Chemische Fabriken: *See*—
Bungardt, Walter. 2,776,919.
Bungardt, Walter. 2,792,301.
Bungardt, Walter. 2,802,733.
- Goldschmied, Fabio R., to Westinghouse Electric Corp. Electrostatic precipitators. 2,776,724, 1-8-57, Cl. 183-7.
- Goldsholl, Albert. Identification tag holder and to the means for securing same. 2,793,451, 5-28-57, Cl. 40-17.
- Goldsmith, Bernard M., to the United States of America as represented by the Secretary of the Army. Filter structure. 2,787,767, 4-2-57, Cl. 333-79.
- Goldsmith, Charles N., to Ricardo & Co., Engineers (1927) Ltd. Detachable cylinder head constructions for liquid cooled fuel injection compression ignition engines. 2,785,664, 3-19-57, Cl. 123-41.31.
- Goldsmith, Michael D.: *See*—
Worth, Henry, and Goldsmith. 2,816,309.
- Goldsmith, Morris, to Elgen Mfg. Corp. Coiled product. 2,777,573, 1-15-57, Cl. 206-59.
- Goldsmith, Thomas L., and F. J. Clarke, to Clarke-Built Ltd. Mechanical apparatus for lifting. 2,813,746, 11-19-57, Cl. 294-87.26.
- Goldstein, Alma W.: *See*—
Peterson, Merlin H., Goldstein, and Denison. 2,803,586.
- Goldstein, Arthur, to Tru Balance Corsets, Inc. Cinching girdle. 2,782,414, 2-26-57, Cl. 2-28.
- Goldstein, Edwin, and E. A. Novy. Drink indicating device. 2,814,267, 11-26-57, Cl. 116-133.
- Goldstein, Herbert M. Card receptacle for shelves and the like. 2,811,260, 10-29-57, Cl. 211-86.
- Goldstein, Irving, to Raytheon Mfg. Co. Impedance matched coupling device. 2,796,586, 6-18-57, Cl. 333-33.
- Goldstein, Jean W. Buckles. 2,809,408, 10-15-57, Cl. 24-77.
- Goldstein, Ladislav, to International Telephone and Telegraph Corp. Combined T-R and low power switching gas discharge device. 2,776,409, 1-1-57, Cl. 333-13.
- Goldstein, Ladislav, M. A. Lampert, and J. F. Heney, to International Telephone and Telegraph Corp. Electromagnetic wave generator. 2,817,045, 12-17-57, Cl. 315-39.
- Goldstein, Louis: *See*—
Bair, Richard H. 2,795,119.
Maciszewski, Arthur H., and Goldstein. 2,795,672.
- Goldstein, Meyer. Self lubricating razors. 2,790,234, 4-30-57, Cl. 30-41.
- Goldstein, William: *See*—
Bair, Richard H. 2,795,119.
- Goldstine, Hallan E.: *See*—
Ackerly, George L., and Goldstine. 2,807,788.
- Goldthwaite, John L., and S. Wilder, Jr., to General Motors Corp. Compressor blade manufacture. 2,799,918, 7-23-57, Cl. 29-156.8.
- Goldtrap, Charley L., $\frac{1}{2}$ each to D. Kamphausen and W. W. Flenniken. Toilet flush tank assembly. 2,809,656, 10-15-57, Cl. 137-430.
- Goldtrap, Walter A., to Phillips Petroleum Co. Process for making furnace carbon blacks. 2,781,246, 2-12-57, Cl. 23-209.4.
- Goldy, Irving. Coin dispensing apparatus. 2,790,450, 4-30-57, Cl. 133-6.
- Golick, Alexander J., and G. E. Brown, to Monsanto Chemical Co. Doweling process. 2,817,620, 12-24-57, Cl. 154-118.
- Golightly, James S., to Pittsburgh Plate Glass Co. Glass bending lehrs. 2,794,300, 6-4-57, Cl. 49-47.
- Golbach, Joseph. Scalper. 2,781,908, 2-19-57, Cl. 209-361.
- Gollhofer, Paul J. Baby protective signal system for cribs. 2,818,477, 12-31-57, Cl. 200-85.
- Gollner, Andrew M. Snag proof anchor. 2,789,526, 4-23-57, Cl. 114-208.
- Gollwitzer, Walter T., to Addressograph-Multigraph Corp. Sheet separating and feeding mechanisms. 2,815,947, 12-10-57, Cl. 271-10.
- Golob, Frank L., to Inland Steel Co. Rail brake for traveling bridge. 2,792,081, 5-14-57, Cl. 188-38.
- Golobay, William J. Wire fence with pivoted actuator. 2,814,466, 11-26-57, Cl. 256-32.
- Golwynne, Henry A., to Rufert Chemical Co. Metal powder. 2,787,534, 4-2-57, Cl. 75-0.5.
- Gombar, Leslie J. Rotatable head dust mop. 2,777,144, 1-15-57, Cl. 15-147.
- Gomersall, John R., to McGraw Electric Co. Glass tube heating elements for toasters. 2,779,849, 1-29-57, Cl. 219-19.
- Gomersall, John R., to McGraw Electric Co. Glass enclosed heating element. 2,779,850, 1-29-57, Cl. 219-19.
- Gomersall, John R., to McGraw Edison Co. Electric toaster. 2,790,885, 4-30-57, Cl. 219-19.
- Gomersall, John R., to McGraw-Edison Co. Steam iron. 2,795,062, 6-11-57, Cl. 33-77.
- Gomersall, John R., to McGraw-Edison Co. Latch. 2,795,182, 6-11-57, Cl. 99-376.

- Gomersall, John R., to McGraw-Edison Co. Magnetic valve for steam iron. 2,805,497, 9-10-57, Cl. 38—77.
- Gomersall, John R., to McGraw-Edison Electric Co. Steam iron. 2,815,592, 12-10-57, Cl. 38—77.
- Gomersall, John R., and M. Ireland, to McGraw-Edison Co. Electric iron control. 2,800,807, 7-30-57, Cl. 74—504.
- Gomerue Establishment: *See*—
- Burgsmüller, Karl H. 2,814,236.
- Gomez, Laurence B., to Grover Products Co. Combined air valve and horn support. 2,793,651, 5-28-57, Cl. 137—316.
- Gomez-Rodriguez, Juan. Menstrual cycle calculating device. 2,808,206, 10-1-57, Cl. 235—88.
- Gomez, William H., to Bendix Aviation Corp. Pressure sensitive apparatus. 2,816,444, 12-17-57, Cl. 73—407.
- Gomez, William H., and W. E. Baker, to Bendix Aviation Corp. Differential pressure sensitive apparatus. 2,816,443, 12-17-57, Cl. 73—407.
- Gomonet, Edouard, to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares Etablissements Claude-Paz & Silva. Diaphragm for electric discharge tube. 2,781,471, 12-2-57, Cl. 313—174.
- Goms, Richard H., to Whirlpool-Seeger Corp. Coatings for simplifying frost removal from refrigerated surfaces. 2,812,264, 11-5-57, Cl. 106—13.
- Gonas, Albert: *See*—
- Wilson, Jack L., and Gonas. 2,779,510.
- Goncalves, Joaquim A. A. Deep well pump. 2,793,594, 5-28-57, Cl. 103—5.
- Gonder, Lawton G. Knockdown stand construction. 2,789,873, 4-23-57, Cl. 311—79.
- Gong Bell Mfg. Co. The: *See*—
- Allen, Richard M. 2,781,609.
- Gongwer, Calvin A., to Aerojet-General Corp. Fuel injector pump. 2,794,682, 6-4-57, Cl. 299—107.6.
- Gonia, August T.: *See*—
- Fante, Harry H., and Gonia. 2,777,476.
- Gönnert, Rudolf: *See*—
- Mauss, Hans, Kolling, and Gönnert. 2,786,845.
- Gonsalves, Mary U. Protective partial foot-covering or sock. 2,776,500, 1-8-57, Cl. 36—10.
- Gonsalves, Victor E., to American Enka Corp. Wet spinning apparatus. 2,804,646, 9-3-57, Cl. 18—8.
- Gonsett, Faust R., 1/2 to L. A. Young Spring & Wire Corp., and 1/2 to Fretco, Inc. Processes for the manufacture of multiple strand electrical conductor leads. 2,810,670, 10-22-57, Cl. 154—224.
- Gonski, Joseph, to Goodman Mfg. Co. Material transfer arrangement for boring type mining machine. 2,796,244, 6-18-57, Cl. 262—7.
- Gonski, Joseph, to Goodman Mfg. Co. Cuttings clean up mechanism for boring type mining machine. 2,796,245, 6-18-57, Cl. 262—7.
- Gonski, Joseph, to Goodman Mfg. Co. Boring type mining machine having chain cutter cusp removing means. 2,802,654, 8-13-57, Cl. 262—7.
- Gontero, Adolph F., 50% to F. Mancino. Closures and the combination of a receptacle and a closure therefor. 2,800,892, 7-30-57, Cl. 126—243.
- Gonzales, Abel G., and L. D. Graham. Fencing tool. 2,816,732, 12-17-57, Cl. 254—78.
- Gonzalez Cuesta, F. Safety pneumatic tire wheel. 2,796,108, 6-18-57, Cl. 152—346.
- Gonzales, Edward A. Fishing lure. 2,799,113, 7-16-57, Cl. 43—42.18.
- González, Reginald N., to Monsanto Chemical Co. Polymer separation method for calcium polyacrylates. 2,782,183, 2-19-57, Cl. 260—88.7.
- Gooch, Frederic P., and A. J. Sadler, Jr. Torus chamber type fluid coupling. 2,783,615, 3-5-57, Cl. 60—54.
- Good, Bert S.: *See*—
- Laube, Hans. 2,813,452.
- Good, Fred C., & Sons, Inc.: *See*—
- Good, Raymond J. 2,791,896.
- Good, George M.: *See*—
- Koome, Jacob, and Good. 2,817,693.
- Good, Lowell H., to Radio Corp. of America. Hum reduction in feedback amplifiers. 2,792,458, 5-14-57, Cl. 179—171.
- Good, Paul F.: *See*—
- Cortegiano, William L., and Good. 2,812,870.
- Good, Paul F., to Westinghouse Electric Corp. Positive drive work feeder. 2,780,342, 2-5-57, Cl. 198—170.
- Good, Raymond J., to Fred C. Good & Sons, Inc. Spring stitch release applicator and method of knitting. 2,791,896, 5-14-57, Cl. 66—109.
- Good, Robert D. Compartmented dishpan. 2,799,424, 7-16-57, Cl. 220—8.
- Goodale, Edmund E., to General Electric Co. Gain stabilizing circuit for electron multiplier phototubes. 2,796,531, 6-18-57, Cl. 250—207.
- Goodale, Elmer D., and O. B. Hanson, to Radio Corp. of America. Color television cameras. 2,794,849, 6-4-57, Cl. 178—5.4.
- Goodale, Ralph H. Wheeled foldable carrier. 2,811,367, 10-29-57, Cl. 280—41.
- Goodban, Alan E.: *See*—
- Owens, Harry S., and Goodban. 2,803,567.
- Stark, John B., and Goodban. 2,801,940.
- Goodbar, Isaac, and L. Capo. Electric generating set for alternating current. 2,805,382, 9-3-57, Cl. 322—47.
- Goodchild, Anthony G.: *See*—
- Bessant, Kenneth H. C., Goodchild, Hollis, Hutchinson, and Kemp. 2,784,177.
- Goode, Archibald W. G., to The Hoover Co. Clothes wringer. 2,811,848, 11-5-57, Cl. 68—259.
- Goode, Kenneth E., to the United States of America as represented by the Secretary of the Navy. Shock and vibration mount having non-rotational features. 2,809,005, 10-8-57, Cl. 248—358.
- Goodell, John D., and T. Lode, to Librascope Inc. Memory systems. 2,808,578, 10-1-57, Cl. 340—174.
- Goodemote, George H.: *See*—
- Edwards, Harold, Sr., and Goodemote. 2,790,214.
- Goodemote, George H., and H. W. Seaburg, to The O. M. Edwards Co., Inc. Emergency exit window. 2,787,348, 4-2-57, Cl. 189—64.
- Goodenough, Richard, to J. A. Cahill, d. b. a. Cahill Mfg. Co. Can opener supporting mechanism. 2,778,596, 1-22-57, Cl. 248—293.
- Goodeve, James E. Posture attachments for seats. 2,775,999, 1-1-57, Cl. 155—182.
- Goodhart, Hilary C. N., to National Research Development Corp. Means for aiding the landing of aircraft. 2,784,925, 3-12-57, Cl. 244—114.
- Goodhue, Lyle D.: *See*—
- Crouch, Willie W., and Goodhue. 2,779,703.
- Stansbury, Roy E., and Goodhue. 2,795,525.
- Goodhue, Lyle D., and J. T. Edmonds, Jr., to Phillips Petroleum Co. Methods for repelling insects with polycyclic aldehydes and alcohols. 2,795,526, 6-11-57, Cl. 167—33.
- Goodhue, Lyle D., and K. E. Cantrel, to Phillips Petroleum Co. Stabilized insect repellent composition. 2,813,101, 11-12-57, Cl. 260—295.
- Goodhue, William V., to Universal Winding Co. Dynamometer. 2,800,792, 7-30-57, Cl. 73—135.
- Goodhue, William V., and R. E. Morton, to Universal Winding Co. Textile machine. 2,785,704, 3-19-57, Cl. 139—224.
- Gooding, Chester M., to The Best Foods, Inc. Novel hydrogenation process and products thereof. 2,814,633, 11-26-57, Cl. 260—409.
- Gooding, Francis H., to The Okonite Co. Apparatus for locating voids and other imperfections in insulated wires and cables. 2,794,168, 5-28-57, Cl. 324—54.
- Gooding, Francis H., to The Okonite Co. Cable-testing apparatus. 2,794,169, 5-28-57, Cl. 324—54.
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- Gooding, Gordon. Warning signal to disconnect vehicle lights. 2,780,797, 2-5-57, Cl. 340—52.
- Goodlife, Arthur W., and P. S. MacGregor, to Flight Refueling Inc. Hose-reels with means for jettisoning the hose and sealing the hose connection. 2,788,243, 4-9-57, Cl. 299—79.
- Goodloe, Kenneth V., to Clarke and Courts Investment Co. (Inc.). Chase assembly. 2,813,019, 12-31-57, Cl. 101—391.
- Goodman, Abraham H.: *See*—
- Grinnan, Percy G., Block, and Goodman. 2,796,350.
- Goodman, Clark, to Schlumberger Well Surveying Corp. Nuclear well logging. 2,785,315, 3-12-57, Cl. 250—83.6.
- Goodman, Clark, to Schlumberger Well Surveying Corp. Neutron sources. 2,816,242, 12-10-57, Cl. 313—61.
- Goodman, Collin H. L., to The General Electric Co., Ltd. Electrically semiconducting object and method of producing same. 2,814,004, 11-19-57, Cl. 317—237.
- Goodman, Donald A. Ball ski binding with oscillatable boot toe fastening and release. 2,777,705, 1-15-57, Cl. 280—11.35.
- Goodman, Gilbert, to General Electric Co. Ceramic composition. 2,805,165, 9-3-57, Cl. 106—39.
- Goodman, Isaac S., to Westinghouse Electric Corp. Composite brazing pellet. 2,815,729, 12-10-57, Cl. 113—110.
- Goodman, Joseph J.: *See*—
- Szumski, Stephen A., and Goodman. 2,797,187.
- Goodman, Kenneth C.: *See*—
- Adams, Cecil E., and Goodman. 2,777,425.
- Renick, Wendell E., and Goodman. 2,801,372.
- Goodman, Kenneth C., to American Brake Shoe Co. Apparatus for positioning a movable element. 2,798,190, 7-2-57, Cl. 318—31.
- Goodman, Leo M., Sr. Apparatus for servicing fire extinguishers. 2,799,189, 7-16-57, Cl. 81—3.32.
- Goodman, Lyle A. Hem gauging device. 2,814,116, 11-26-57, Cl. 33—2.
- Goodman Mfg. Co.: *See*—
- Anderson, Edward L. 2,808,250.
- Anderson, Edward L. 2,808,251.
- Beck, William R., and Hagenbook. 2,792,091.
- Bergmann, Ernst R. 2,798,587.
- Bergmann, Ernst R. 2,805,751.
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 Goodwin, John S., to Globe Oil Tools Co. Magnetic fishing tool. 2,778,669, 1-22-57, Cl. 294-65.5.
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- Goodyear, Frank. Vending machine. 2,809,083, 10-8-57, Cl. 312-97.
- Goodyear, Henry, to Petty and Sons Ltd. Registering apparatus for continuous stationery. 2,789,837, 4-23-57, Cl. 282-12.
- Goodyear Tire & Rubber Co., The: *See*—
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- Goodyer, Harold J., to Hills-McCanna Co. Device for introducing atomized liquid into gas under pressure. Re. 24,291, 3-19-57, Cl. 184-55.
- Goodyer, Harold J., to Air Conversion Research Corp. Device for atomizing liquid. 2,778,619, 1-22-57, Cl. 261-63.
- Goodyer, Harold J., to Air Conversion Research Corp. Centrifugal equalizer distributor. 2,804,882, 9-3-57, Cl. 137-561.
- Goodykoontz, James R., Jr., to Hughes Aircraft Co. Toroidal coil winding machine. 2,812,143, 11-5-57, Cl. 242-4.
- Googe, Claude L., $\frac{1}{2}$ to C. H. Rogers. Automatic trailer steering device. 2,793,052, 5-21-57, Cl. 280-426.
- Gookin, Dean H.: *See*—
 Ferguson, Arthur D., and Gookin. 2,787,069.
- Gookin, Sylvester L., to United Shoe Machinery Corp. Machines for inserting spaced groups of tubular fasteners. 2,781,933, 2-19-57, Cl. 218-05.
- Gorris, Raymond. Complete set of teeth and method of making. 2,778,110, 1-22-57, Cl. 32-2.
- Gootherts, Jerome W., to Detroit Controls Corp. All-position rotary jet switch. 2,791,650, 5-7-57, Cl. 200-32.
- Gopp, Leonard W., to Chemical Marketing Corp. Article of manufacture for destroying insects. 2,795,527, 6-11-57, Cl. 167-48.
- Goppel, Johan M., to Shell Development Co. Process for manufacture of glycidyl ethers of polyhydric phenols. 2,801,227, 7-30-57, Cl. 260-46.
- Goran, Steven, to The Louis Allis Co. Laminated core construction for dynamoelectric machines. 2,790,918, 4-30-57, Cl. 310-217.
- Gorby, John H. Patient fall-out warning device for hospital beds. 2,784,395, 3-5-57, Cl. 340-282.
- Gordon, Aaron, and H. B. X-ray film package. 2,802,950, 8-13-57, Cl. 250-68.
- Gordon, Anthony, to Ekco Products Co. Dispensing scoop. 2,797,654, 7-2-57, Cl. 107-48.
- Gordon, Bernard M., and M. A. Meyer, to Laboratory for Electronics, Inc. Balanced modulator. 2,799,829, 7-16-57, Cl. 332-47.
- Gordon, Carroll G. Shrouded valve guide. 2,797,677, 7-2-57, Cl. 123-188.
- Gordon, Carroll G., to Fletcher Aviation Corp. Control for welding apparatus. 2,798,209, 7-2-57, Cl. 336-117.
- Gordon, Carroll G., to Fletcher Aviation Corp. Hydraulic unloader valve. 2,813,536, 11-19-57, Cl. 137-108.
- Gordon-Chapman Co.: *See*—
 Gordon, Jack C. 2,794,991.
- Gordon, Charles R. Remote control for recording equipment. 2,778,876, 1-22-57, Cl. 179-6.
- Gordon, Charles W., to Combustion Engineering, Inc. Apparatus and method of scrubbing gases. 2,807,450, 9-24-57, Cl. 261-79.
- Gordon, Charles W., to Combustion Engineering, Inc. Apparatus for drying material slurry and introducing into a kiln which calcines or otherwise treats it. 2,812,934, 11-12-57, Cl. 263-32.
- Gordon, David A., to The Dow Chemical Co. Stabilized chloroethylene polymers. 2,807,604, 9-24-57, Cl. 260-45,95.
- Gordon, David A., and R. L. Hudson, to The Dow Chemical Co. Process for the preparation of diacyl resorcinols. 2,794,052, 5-28-57, Cl. 260-591.
- Gordon, Donald D., and C. A. Wortham. Means for handling articles. 2,781,139, 2-12-57, Cl. 214-305.
- Gordon, Garland R., to General Dynamics Corp. Shaping machine. 2,787,197, 4-2-57, Cl. 90-13.
- Gordon, Hamilton: *See*—
 Prendergast, Charles S. 2,786,421.
- Gordon, Harry. Method of making an anti-skid and traction chain. 2,782,494, 2-26-57, Cl. 29-403.
- Gordon, Harry B.: *See*—
 Gordon, Aaron, and H. B. 2,802,950.
- Gordon, Harry L. Door closer. 2,807,043, 9-24-57, Cl. 16-76.
- Gordon, Hayden S.: *See*—
 Bradner, Hugh, and Gordon. 2,817,350.
- Gordon, Jack C. to Gordon-Chapman Co. Mattress. 2,794,991, 6-11-57, Cl. 5-351.
- Gordon, Jack E.: *See*—
 Hawkins, Frank L. 2,813,574.
- Gordon, James. Suspended wire vibration damping means. 2,790,843, 4-30-57, Cl. 174-42.
- Gordon, James F., to Bendix Aviation Corp. Coil form. 2,777,116, 1-8-57, Cl. 336-208.
- Gordon, James M. Collapsible lug box. 2,782,955, 2-26-57, Cl. 220-6.
- Gordon, James M. Stacking and nesting containers. 2,783,915, 3-5-57, Cl. 220-97.
- Gordon, John D., to Progressive Welder Sales Co. Method and apparatus for making vehicle bodies. 2,779,092, 1-29-57, Cl. 29-430.
- Gordon, John D., to National Cylinder Gas Co. Method for producing granular solids. 2,792,288, 5-14-57, Cl. 23-302.
- Gordon, John E.: *See*—
 Dorf, Fred B., Bentz, and Gordon. 2,788,348.
 Paterson, John C., and Gordon. 2,777,844.
- Gordon, John E., to American Cyanamid Co. Purification process for pyridine derivative (vitamin B₆). 2,785,169, 3-12-57, Cl. 260-294,9.
- Gordon, Jule. Bottle caps. 2,785,692, 3-19-57, Cl. 132-143.
- Gordon, Leland S. Kitchen waste disposal unit. 2,784,915, 3-12-57, Cl. 241-46.
- Gordon, Leon B., and F. T. Wadsworth, to The American Oil Co. Stepwise polymerization of dipolene fractions. 2,798,866, 7-9-57, Cl. 260-82.
- Gordon, Leon B., and F. T. Wadsworth, to The American Oil Co. Stepwise polymerization of dipolene fractions. 2,798,867, 7-9-57, Cl. 260-82.
- Gordon, Melvin J.: *See*—
 Solomon, Leonard, and Gordon. 2,780,084.
- Gordon, Philip N., to Chas. Pfizer & Co., Inc. Alkanoic acid esters of tetracycline antibiotics. 2,812,349, 11-5-57, Cl. 260-490.
- Gordon, S. Z.: *See*—
 Solomon, Leonard, and Gordon. 2,780,084.
- Gordon, Samuel M.: *See*—
 Schlesinger, Albert, and Gordon. 2,793,226.
 Schlesinger, Albert, and Gordon. 2,813,861.
- Gordon, Samuel R. Tackle box. 2,792,961, 5-21-57, Cl. 220-20.
- Gordon, Valerie M. F., to V. G. (Inverness) Ltd. Waterproof garments. 2,779,333, 1-29-57, Cl. 128-287.
- Gordon, William E., and S. E. Eaton, to A. B. Dick Co. Method of preparing a sensitized thermographic copy sheet and resultant sheet. 2,813,042, 11-12-57, Cl. 117-36.
- Gordon, Woodford W. Tooth positioner. 2,789,351, 4-23-57, Cl. 32-14.
- Gore, George, $\frac{1}{2}$ to F. W. Callison. Circular ramp for garages and the like. 2,815,540, 12-10-57, Cl. 20-113.
- Gore, Graves T.: *See*—
 Thomas, James C., and Gore. 2,777,312.
 Thomas, James C., Gore, and Simmons. 2,777,748.
- Gore, Thomas. Device for tapering and thinning hair. 2,814,112, 11-26-57, Cl. 30-339.
- Goren, Mayer B., to Kerr-McGee Oil Industries, Inc. Process of making organic acids from carbonaceous materials. 2,786,074, 3-19-57, Cl. 260-514.
- Goren, Mayer B., and I. D. Elkins, to Kerr-McGee Oil Industries, Inc. Activatable chars, activated carbons and process for preparing the same. 2,809,938, 10-15-57, Cl. 252-422.
- Goretta, Louis A., to Standard Oil Co. Refining of lubricating oils. 2,779,711, 1-29-57, Cl. 196-24.
- Gorfine, Harry B.: *See*—
 Katzner, Jacob B. 2,778,413.
- Gorga, William H.: *See*—
 Boron, Eugene F., and Gorga. 2,798,107.
 Boron, Eugene F., Yost, Scrivner and Gorga. 2,789,151.
 Boron, Eugene F., Yost, Scrivner, and Gorga. 2,805,270.

- Gorgenson, John A., and M. U. Clauser, to the United States of America as represented by the Secretary of the Navy. Liquid propellant transfer system. 2,791,087, 5-7-57, Cl. 60-35.6.
- Gorgol, Leonard J., and E. M. Liberty, to Western Electric Co., Inc. Transverse pin tool holder. 2,790,647, 4-30-57, Cl. 279-97.
- Gorham, George, and N. G. Kling, to Technicon International, Ltd. Pump. 2,791,180, 5-7-57, Cl. 103-38.
- Gorham, George, and N. G. Kling, to Technicon International Ltd. Microtomes. 2,795,998, 6-18-57, Cl. 88-40.
- Gorham, John A. Paper picture frame. 2,795,071, 6-11-57, Cl. 40-155.
- Gorham, William F., and J. A. Stenstrom, to Union Carbide and Carbon Corp. Process for ethylating toluene. 2,778,862, 1-22-57, Cl. 260-671.
- Gorin, Everett, to Pittsburgh Consolidation Coal Co. Manufacture of hydrogen. 2,781,248, 2-12-57, Cl. 23-212.
- Gorin, Everett, to Pittsburgh Consolidation Coal Co. Process for coking hydrocarbonaceous liquids. 2,813,824, 11-19-57, Cl. 202-22.
- Gorin, Everett, B. W. Jones, and M. B. Neuworth, to Pittsburgh Consolidated Coal Co. Separation of tar acids and tar bases. 2,789,144, 4-16-57, Cl. 260-627.
- Gorin, Manuel H.: See—
Rosenstein, Ludwig, and Gorin. 2,800,466.
Rosenstein, Ludwig, and Gorin. 2,801,993.
- Gorin, Manuel H., and L. Rosenstein. Process for treating tall-oil with urea, and particularly a new form of expanded urea. 2,785,151, 3-12-57, Cl. 260-96.5.
- Gorling, Karl G.: See—
Berglund, Björn E. A., Gorling, Lindvall, and Wallden. 2,803,532.
- Gorman, Andrew T., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with safety control feature. 2,785,931, 3-19-57, Cl. 303-19.
- Gorman, Andrew T., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,789,016, 4-16-57, Cl. 303-3.
- Gorman, Andrew T., to Westinghouse Air Brake Co. Fluid pressure and dynamic brake interlock apparatus. 2,812,981, 11-12-57, Cl. 303-3.
- Gorman, Harold C. Material washing machine. 2,812,622, 11-12-57, Cl. 51-164.
- Gorman, Howard, to General Foods Corp. Sample display device. 2,797,815, 7-2-57, Cl. 211-72.
- Gorman-Rupp Co., The: See—
Rupp, Warren E. 2,791,968.
Rupp, Warren E. 2,811,929.
- Gorman-Rupp Industries, Inc.: See—
Montgomery, Horace M., and Smith. 2,788,014.
Smith, Edward M. 2,787,962.
Steidley, Virgil K. 2,807,275.
- Gorniak, Walter R.: See—
Jonasson, Axel V., and Gorniak. 2,812,916.
- Goro Miura: See—
Takasi, Uemura. 2,781,768.
- Gorr, Walter O., to Knickerbocker Plastic Co., Inc. Musical box construction. 2,786,381, 3-26-57, Cl. 84-95.
- Gorr, Walter O., to Knickerbocker Plastic Co., Inc. Toy musical instrument. 2,811,971, 10-29-57, Cl. 84-406.
- Gorrie, Harvard H.: See—
Green, Thomas A., Gorrie, Shannon, and Fink. 2,793,606.
- Gorrie, Harvard H., to Bailey Meter Co. Fluid pressure relay. 2,776,669, 1-8-57, Cl. 137-86.
- Gorrie, Harvard H., to Bailey Meter Co. Instrument case. 2,785,037, 3-12-57, Cl. 346-17.
- Gorsl, Alexander A., to Philco Corp. Signal amplitude measuring system. 2,802,181, 8-6-57, Cl. 324-98.
- Gorton, Bert S., and B. L. Williams, Jr., to Monsanto Chemical Co. Process for the production of monophenylmelamine. 2,784,187, 3-5-57, Cl. 260-249.6.
- Gorton, George, Machine Co.: See—
Gunderson, Allen D. 2,783,688.
Gunderson, Allen D. 2,808,765.
Gunderson, Allen D. 2,812,695.
Henkes, Peter M. 2,788,946.
- Gorton, Robert T., to S. Curtis & Son, Inc. Card-supported transparent package. 2,796,985, 6-25-57, Cl. 206-78.
- Goryl, William M.: See—
Maisel, Daniel S., and Goryl. 2,782,105.
- Goschel, Karl-Heinz R., to Daimler-Benz Aktiengesellschaft. Internal combustion engine. 2,779,319, 1-29-57, Cl. 123-32.
- Göschel, Karl-Heinz R., and H. R. Grözing, to Daimler-Benz Aktiengesellschaft. Internal combustion engine. 2,779,320, 1-29-57, Cl. 123-32.
- Goschel, Karl-Heinz R., and H. R. Grözing, to Daimler-Benz Aktiengesellschaft. Internal combustion piston engine. 2,803,235, 8-20-57, Cl. 123-140.
- Goslin-Birmingham Mfg. Co.: See—
Mair, James, and Sanford. 2,781,089.
- Gosling, Joseph B., to General Electric Co. Semi-conductor device. 2,813,957, 11-19-57, Cl. 201-63.
- Gosmann, Enart, to Western Electric Co., Inc. Article-working apparatus. 2,789,194, 4-16-57, Cl. 219-10.43.
- Gosnell, Charles N., and L. F. Deise, to Westinghouse Electric Corp. Process for producing sealed electrical members. 2,795,009, 6-11-57, Cl. 18-59.
- Gosney, Ernest, Jr., and G. L. Grove, to The Cincinnati Milling Machine Co. Grinding machine. 2,802,312, 8-13-57, Cl. 51-165.
- Goss, Harold J., to The Central National Bank of Cleveland, as trustee. Apparatus and method of turning blanks. 2,794,372, 6-4-57, Cl. 93-49.
- Goss, Harold J., to International Paper Box Machine Co. Bottle carrier. 2,794,572, 6-4-57, Cl. 220-118.
- Goss, Jack K., to Minneapolis-Honeywell Regulator Co. Fuel quantity measuring apparatus. 2,814,951, 12-3-57, Cl. 73-304.
- Goss, Norman P. Continuous metal-casting apparatus. 2,779,072, 1-29-57, Cl. 22-57.2.
- Gossard, H. W., Co. The: See—
Doyle, Mary M. 2,803,822.
- Gossard, Thomas F., to Standard Coil Products Co., Inc. Fine tuning unit. 2,791,124, 5-7-57, Cl. 74-206.
- Gossard, Thomas F., to Standard Coil Products Co., Inc. Fixed frequency amplifier. 2,796,470, 6-18-57, Cl. 179-171.
- Gossard, Thomas F., to Standard Coil Products Co., Inc. Tuning device. 2,798,954, 7-9-57, Cl. 250-40.
- Gosselin, Albert H.: See—
Carton, Pierre, and Gosselin. 2,801,159.
- Gosselin, Charles J., ½ to M. A. Nishkian. Interlock for vapor recovery apparatus. 2,802,492, 8-13-57, Cl. 141-307.
- Gossen, Henry G., to Esso Research and Engineering Co. Method of oxidizing asphalts. 2,776,933, 1-8-57, Cl. 196-74.
- Gossett Machine Works, Inc.: See—
Dellinger, David C. 2,783,506.
- Gossler, Heinz. Combination writing implement and cigarette holder. 2,777,447, 1-15-57, Cl. 131-178.
- Gossman, Harry G. Compositions for use with electrical connectors. 2,818,346, 12-31-57, Cl. 106-287.
- Gossman, Herbert J., and D. A. Graesser, to The Singer Mfg. Co. Bobbin-cases for sewing machines. 2,813,500, 11-19-57, Cl. 112-231.
- Gossom, Milton H. Musical instrument neck. 2,816,469, 12-17-57, Cl. 84-293.
- Gostyn, Ernest: See—
Julian, Charles N., Gagne, and Gostyn. 2,795,700.
- Gotham Lighting Corp.: See—
Gerstel, Harry M. 2,805,327.
- Gotham, Stanley T.: See—
Twamley, William E., and Gotham. 2,813,445.
- Gotlib, Abraham, 50% to Plastiques Dentaires & Medicaux. Artificial teeth. 2,793,436, 5-28-57, Cl. 32-8.
- Goto, Mitsuo: See—
Tanaka, Isokazu, and Goto. 2,815,506.
- Gott, Allan D.: See—
Henderson, Courtland M., Martin, and Gott. 2,805,145.
- Gott, Otto, to Deutsche Spiegelglas Aktiengesellschaft. Optical glass. 2,776,217, 1-1-57, Cl. 106-52.
- Gottesman, Roy T., to Heyden Newport Chemical Corp. Recovering trimethylolethane by ethyl acetate extraction. 2,806,890, 9-17-57, Cl. 260-637.
- Gottesman, Roy T., and K. T. Sloan, to Heyden Newport Chemical Corp. Recovery of trimethylolethane. 2,806,889, 9-17-57, Cl. 260-637.
- Gottesman, Roy T., and W. R. Cake, to Heyden Newport Chemical Corp. Recovery of trimethylolethane. 2,806,891, 9-17-57, Cl. 260-637.
- Gottfried, Jacob B., W. K. Luby, and W. B. Newkirk, to Corn Products Refining Co. Process for interrupted hydrolyzing of starch. 2,797,176, 6-25-57, Cl. 127-40.
- Gottfried, Paul, to Chambers Corp. Electric stove and broiler. 2,811,628, 10-29-57, Cl. 219-37.
- Gottlieb, Frederick E. Garden tool cart. 2,778,654, 1-22-57, Cl. 280-47.24.
- Gottlieb, Hans B., to E. I. du Pont de Nemours and Co. Chromable azo-phthalocyanine dyes for cellulosic fiber and wool. 2,801,997, 8-6-57, Cl. 260-146.
- Gottier, Thomas L., to Radio Corp. of America. Antenna duplexing. 2,809,285, 10-8-57, Cl. 250-13.
- Gottscho, Adolph, Inc.: See—
Alessi, Andrew J., Jr., and Hirschev. 2,818,016.
Gottscho, Ira S., Hirschev, and Alessi. 2,778,305.
Hirschev, Malcolm. 2,788,740.
- Gottscho, Ira S., M. Hirschev, and A. J. Alessi, Jr., to Adolph Gottscho, Inc. Device for marking tubular articles. 2,778,305, 1-22-57, Cl. 101-329.
- Gottshall, Ralph I., R. T. Kern, Jr., and J. G. Peters, to Gulf Oil Corp. Anti-corrosive lubricating oil. 2,786,028, 3-19-57, Cl. 252-32.5.
- Gottshall, Ralph I., and J. G. Peters, to Gulf Oil Corp. Corrosion inhibiting composition. 2,786,033, 3-19-57, Cl. 252-74.
- Gottshall, Ralph I., J. G. Peters, and H. W. Swain, to Gulf Oil Corp. Lubricating composition. 2,789,950, 4-23-57, Cl. 252-32.5.
- Goudy, Paul R., to Kollsman Instrument Corp. Pitot tube anemometer. 2,789,433, 4-23-57, Cl. 73-212.
- Gouffon, Jean-Jacques, to Paillard S. A. Motion-picture camera fading mechanism. 2,808,756, 10-8-57, Cl. 88-19.3.
- Gough, Sidney W.: See—
Powell, Ernest F., and Gough. 2,780,710.
- Gougler, C. L., Machine Co., The: See—
Miller, Edward M. 2,789,425.
- Gouirand, Rene. Pneumatic suspension devices for vehicles. 2,776,830, 1-8-57, Cl. 267-15.
- Gouirand, Rene. Pneumatic suspension for vehicles. 2,795,434, 6-11-57, Cl. 280-104.5.

- Gould, Albert S. Folding fins for rockets and missiles. 2,801,587, 8-6-57, Cl. 102-50.
- Gould, Alma M., and H. A. Gould. Adjustable lawn sprinkler head. 2,778,677, 1-22-57, Cl. 299-18.
- Gould, Barbara V., to Famous Fit, Inc. Garment. 2,775,767, 1-1-57, Cl. 2-43.
- Gould, Charles C.: *See*—
Anger, Ernest G., and Gould. 2,786,975.
- Gould, Charles W., S. T. Putnam, and J. C. Wright, to Hercules Powder Co. Process for inhibiting polymerization in free-radical reactions. 2,817,648, 12-24-57, Cl. 260-84.3.
- Gould, David H., to Schering Corp. Steroid compounds. 2,814,631, 11-26-57, Cl. 260-397.45.
- Gould, David H., and H. L. Herzog, to Schering Corp. Esters of cortical hormones. 2,783,226, 2-26-57, Cl. 260-239.55.
- Gould, David H., and E. P. Oliveto, to Schering Corp. Process for the manufacture of 17 α -hydroxy-corticosterone and intermediates obtained thereby. 2,783,254, 2-26-57, Cl. 260-397.45.
- Gould, David H., H. L. Herzog, and E. B. Hershberg, to Schering Corp. New gestational agents. 2,816,121, 12-10-57, Cl. 260-397.45.
- Gould, David H., and E. L. Shapiro, to Schering Corp. Hydroxylated steroids. 2,816,902, 12-17-57, Cl. 260-397.45.
- Gould, Edwin B.: *See*—
Gould, Russell D. and E. B. 2,804,743.
- Gould, Gardner S. Grinding machine. 2,803,094, 8-20-57, Cl. 51-95.
- Gould, George D.: *See*—
Lankford, Jonathan D., Tripp, Brakel, and Gould. 2,812,288.
- Gould, Harold W.: *See*—
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- Gould, Harvey A.: *See*—
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- Gould, Ira L.: *See*—
Henney, Charles F., and Gould. 2,793,834.
- Gould, James C., and N. W. Faustyn, to Federal-Mogul Corp. Process for making bearings. 2,815,567, 12-10-57, Cl. 29-420.
- Gould, Jay P. Adapter for handling fluid under pressure. 2,804,279, 8-27-57, Cl. 251-351.
- Gould, Leo M. Child's toilet seat support bracket assembly. 2,804,630, 9-3-57, Cl. 4-239.
- Gould, Merle E., to Self Winding Clock Co., Inc. Automatic coding system. 2,788,878, 4-16-47, Cl. 197-1.
- Gould, Merle E., to Self Winding Clock Co., Inc. Keyboard-controlled programming and imprinting apparatus, method of entering data and novel record format. 2,795,476, 6-11-57, Cl. 346-146.
- Gould, Merle L., and R. Katzen. Catalytic oxidation of olefins and contact beds and catalyst therefor. 2,799,687, 7-16-57, Cl. 260-348.5.
- Gould-National Batteries, Inc.: *See*—
Boughton, Owen H. 2,775,802.
- Dawkins, Kenneth. 2,781,064.
- Gould, Richard E.: *See*—
Jacobs, James W., and Gould. 2,779,168.
- Gould, Russell D. and E. B. Hydraulic tree shaker. 2,804,743, 9-3-57, Cl. 56-328.
- Gould, William L. Stethoscope. 2,807,328, 9-24-57, Cl. 181-24.
- Goulding, Charles E., Sr. Cross draft burner. 2,776,001, 1-1-57, Cl. 158-91.
- Goulding, Charles E., Sr. Fire place heating system. 2,791,213, 5-7-57, Cl. 126-123.
- Goulding, Frederick S., to the United Kingdom Atomic Energy Authority. Electrical circuits using cold-cathode triode valves. 2,814,772, 11-26-57, Cl. 323-22.
- Goulet, Joseph A. Vehicle actuated gates. 2,807,107, 9-24-57, Cl. 39-18.
- Gourley, Lloyd E., Jr.: *See*—
Schuler, Ellis W., Jr., Dunlap, and Gourley. 2,782,364.
- Gournay, Luke S.: *See*—
Murphy, John, Gournay, and Johnson. 2,794,338.
- Goutarel, Robert: *See*—
Janot, Maurice-Marie, and Goutarel. 2,813,873.
- Goutte, Jean: *See*—
Guillard, Jean, and Goutte. 2,789,090.
- Govan, Clifton D., Jr. Tool handles. 2,793,902, 5-28-57, Cl. 294-57.
- Govan, Jack F.: *See*—
Rex, Carl A. M. 2,785,091.
- Govan, Roy H.: *See*—
Rex, Carl A. M. 2,785,091.
- Govan, William L., to Baldwin-Lima-Hamilton Corp. Tube testing device. 2,780,092, 2-5-57, Cl. 73-49.5.
- Gowallis, Eugene J.: *See*—
Fatzinger, Russell C., and Gowallis. 2,812,947.
- Gowan, Willard E., $\frac{1}{2}$ to W. A. Lemmler. Fluid cleaner. 2,807,331, 9-24-57, Cl. 183-92.
- Gowell, Niles P., to Raytheon Mfg. Co. Electron discharge device having two sections. 2,789,243, 4-16-57, Cl. 313-303.
- Gowing, Marvin S. Teeter-totter. 2,781,193, 2-12-57, Cl. 272-30.
- Goyette, Francis H., and J. E. Grenier, to Lodding Engineering Corp. Spray nozzle and method of cleaning same. 2,803,499, 8-20-57, Cl. 299-59.
- Gozlow, Frank J.: *See*—
Keenan, Vincent J., Gozlow, and Doan. 2,804,391.
- Graas, James H.: *See*—
Bock, George E., and Graas. 2,787,065.
- Grab, Werner: *See*—
Wagner, Kuno, Müller, Bayer, and Grab. 2,790,807.
- Grabau, Alexander A., and C. Herre, to Arthur G. McKee & Co. Sealing means for sintering machines or the like. 2,789,809, 4-23-57, Cl. 266-21.
- Grabe, Alf G. Method for producing electrodes for galvanic elements, especially accumulators. 2,794,845, 6-4-57, Cl. 136-67.
- Grabenstein, Thomas A., to E. I. du Pont de Nemours & Co. Heat-shrinkable film and process for producing the same. 2,784,456, 3-12-57, Cl. 18-48.
- Graber, Carl D.: *See*—
Deaton, Charles U., and Graber. 2,786,228.
- Deaton, Charles U., and Graber. 2,786,431.
- Heilman, Cecil C., and Graber. 2,789,876.
- Heilman, Cecil C., and Graber. 2,808,307.
- Graber, Carl D. Rock drill. 2,818,292, 12-31-57, Cl. 287-125.
- Graber, John N., to Graber Mfg. Co., Inc. Traverse rod and slide. 2,812,534, 11-12-57, Cl. 16-87.4.
- Graber Mfg. Co., Inc.: *See*—
Graber, John N. 2,812,534.
- Graber, William H. Safety device for meat hook. 2,803,037, 8-20-57, Cl. 17-44.2.
- Grable, Benjamin: *See*—
Robbins, Joseph J., Grable, Horowitz, and Schuh. 2,786,430.
- Grace, Frank E.: *See*—
Rittner, Edmund S., Grace, Fine, and Beutel. 2,803,779.
- Grace, W. R., & Co.: *See*—
Baral, Leon L. 2,783,129.
- Barrett, Wayne T., and Veltman. 2,808,439.
- Fitch, Frederick T. 2,785,953.
- Fitch, Frederick T., and From. 2,806,763.
- Jackson, Stacy L. 2,775,905.
- Merrill, Edward W. 2,786,233.
- Raphael, Thomas, and Schweizer. 2,810,775.
- Rudner, Bernard. 2,783,243.
- Rumsey, Herbert, Jr. Re. 24,396.
- Russell, Arthur G., Clary, Casey, and Dallon. 2,806,632.
- Russell, Arthur G., Clary, Casey, and Dallon. 2,812,628.
- Schild, Edward M. 2,800,736.
- Veltman, Preston L. 2,810,455.
- Wilson, Charles P., Jr. 2,777,822.
- Grace, William E. Landing gear for trailer trucks. 2,812,193, 11-5-57, Cl. 280-150.5.
- Grace, William J. Folding high chair. 2,777,503, 1-15-57, Cl. 155-147.
- Grace, William J., to Ross Gear and Tool Co. Signal control for vehicles. 2,786,107, 3-19-57, Cl. 200-61.54.
- Graco Metal Products, Inc.: *See*—
Saint, David, and Thomas. 2,807,309.
- Gracon, Edward J. Adjustable drill jig. 2,813,439, 11-19-57, Cl. 77-62.
- Grad, Adolf R., to The Oilgear Co. Axial type hydrodynamic machine. 2,804,828, 9-3-57, Cl. 103-162.
- Gradowohl, Violet. Walking doll push toy. 2,797,528, 7-2-57, Cl. 46-110.
- Grady, Charles B., Jr., to The W. L. Maxson Corp. Motor or inverter speed regulation. 2,777,985, 1-15-57, Cl. 322-39.
- Grady, Giles: *See*—
Willett, Willis M. 2,785,450.
- Grady, Guido O.: *See*—
Hughes, William B., and Grady. 2,784,788.
- Grady, John R.: *See*—
Muschamp, Harold L., and Grady. 2,811,318.
- Graef, Rudolf F., to Huttenwerk Oberhausen Aktiengesellschaft. Method of refining phosphorus containing pig iron. 2,804,385, 8-27-57, Cl. 75-52.
- Graef, Rudolf F., to Huttenwerk Oberhausen Aktiengesellschaft. Rotatable drum for refining metals. 2,806,687, 9-17-57, Cl. 266-36.
- Graefnitz, Russell F., to Duncan Electric Co., Inc. Method of phasing watt-hour meters and apparatus. 2,788,488, 4-9-57, Cl. 324-74.
- Graesser, David A.: *See*—
Goosman, Herbert J., and Graesser. 2,813,500.
- Graetz Kommandit-Gesellschaft: *See*—
Klemm, Rndolf. 2,794,907.
- Graf, Ernest, to Saco-Lowell Shops. Twisters. 2,802,329, 8-13-57, Cl. 57-58.84.
- Graf, Fred V. Strapless brassiere. 2,816,293, 12-17-57, Cl. 2-42.
- Graf, Harold C. Timing device. 2,806,094, 9-10-57, Cl. 200-29.
- Graff, Albert P.: *See*—
Buhler, Rolf D., Graff, and Martin. 2,811,332.
- Graff, Bruno. Snapswitch, particularly for a temperature controller. 2,809,258, 10-8-57, Cl. 219-138.
- Graff, George, to Hoover Ball & Bearing Co. Adapter for coupling liquid lines with anti-pullout seal means. 2,793,056, 5-21-57, Cl. 285-8.
- Graff, William S.: *See*—
Balke, Claire C., and Graff. 2,801,590.

- Graff, Willy, and R. Boulitrop, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Electrolytic preparation of alkaline chlorates. 2,797,192, 6-25-57, Cl. 204-95.
- Graffam, Ralph E. Transparent lid for stoves. 2,799,268, 7-16-57, Cl. 126-220.
- Grafinger, Louis N., and B. J. O'Connor, to Bendix Aviation Corp. Mach number computer. 2,806,353, 9-17-57, Cl. 60-39.28.
- Graflex, Inc.: See—
 Nerwin, Hubert. 2,805,609.
 Nerwin, Hubert. 2,811,908.
 Nerwin, Hubert. 2,813,469.
 Perlin, Fred. 2,807,990.
- Grages, Richard R. Automatic firearm of the blow back type. 2,816,484, 12-17-57, Cl. 89-194.
- Graham, Archibald R., to Hercules Powder Co. Production of resorcinol from meta-diisopropylbenzene dihydroperoxide. 2,789,142, 4-16-57, Cl. 260-621.
- Graham, Archibald R., and A. F. Millidge, to The Distillers Co. Ltd. Process for the manufacture of alkanolamines. 2,811,557, 10-29-57, Cl. 260-584.
- Graham, Charles H. Cooling apparatus for electrical equipment. 2,787,768, 4-2-57, Cl. 336-57.
- Graham, Connelly L., to Northrop Aircraft, Inc. Airplane with separable fuel tanks. 2,777,655, 1-15-57, Cl. 244-135.
- Graham, Connelly L., to Northrop Aircraft, Inc. Tandem rocket launcher. 2,780,143, 2-5-57, Cl. 89-1.7.
- Graham, David, to Johnson & Phillips Ltd. Device for paying out a submarine cable from a ship. 2,792,930, 5-21-57, Cl. 203-25.
- Graham, David E.: See—
 Bloom, Albert, and Graham. 2,789,147.
 Bloom, Albert, and Graham. 2,795,620.
 Bloom, Albert, and Graham. 2,795,621.
- Graham, Donald C., to General Electric Co. Three-phase magnetic core. 2,792,554, 5-14-57, Cl. 336-5.
- Graham, Edward K. P. Fastening device. 2,781,568, 2-19-57, Cl. 24-129.
- Graham, Frank H., to Ansler Morton Corp. Method of alternate low and high fuel firing of a soaking pit furnace. 2,776,827, 1-8-57, Cl. 263-52.
- Graham, Frank O., to Temprite Products Corp. Liquid level control means. 2,798,135, 7-2-57, Cl. 200-152.
- Graham, George C.: See—
 Montgomery, Clarence G. 2,790,962.
- Graham, George C., Jr., to Personal Products Corp. Flexible product. 2,815,736, 12-10-57, Cl. 128-285.
- Graham, George M. Rain actuated closure device. 2,809,826, 10-15-57, Cl. 268-23.
- Graham, Harold E. Traction device for the neck. 2,808,049, 10-1-57, Cl. 128-75.
- Graham, Harold E., Jr., to E. I. du Pont de Nemours and Co. Control of pH in electrodeposition of polytetrafluoroethylene. 2,800,447, 7-23-57, Cl. 204-181.
- Graham, Harry M., to Chance Vought Aircraft, Inc. Supersonic wind tunnel. 2,805,571, 9-10-57, Cl. 73-147.
- Graham, Herbert E., to C & H Machine Co. Apparatus for protecting agricultural crops from frost. 2,807,120, 9-24-57, Cl. 47-2.
- Graham, Herbert J., J. E. Orban, W. F. Reisiger, and A. J. Shaback, to Electric Service Mfg. Co. Apparatus for making vehicle destination signs. 2,779,057, 1-29-57, Cl. 18-17.
- Graham, Jack R.: See—
 Williams, Oren F., Johnson, and Graham. 2,796,376.
- Graham, James J., to The Stanley Works. Curtain rod or track support. 2,809,003, 10-8-57, Cl. 248-224.
- Graham, James R. Propulsion means for boats. 2,808,802, 10-8-57, Cl. 115-29.
- Graham, John M., to General Electric Co. Precision potentiometer. 2,799,756, 7-16-57, Cl. 201-48.
- Graham, John W., W. M. McCardell, J. S. Osoba, and J. G. Richardson, to Esso Research and Engineering Co. Method of increasing oil production. 2,792,894, 5-21-57, Cl. 166-42.
- Graham, Luther D.: See—
 Gonzales, Abel G., and Graham. 2,816,732.
- Graham, M. H. Corp.: See—
 Andres, William A., and Graham. 2,799,762.
- Graham, MacKellar K.: See—
 Greenley, Henry R., Graham, Person, and Rouch. 2,816,604.
- Klessig, Ernst F., Graham, and Raupp. 2,817,210.
- Kriebel, John E., Jr., and Graham. 2,817,394.
- Graham, Malcolm H., and W. C. Jr. Cotton harvester with pneumatic picking means. 2,817,939, 12-31-57, Cl. 56-12.
- Graham Mfg. Co., Inc.: See—
 Mains, William D. 2,780,930.
- Graham, Marion E.: See—
 Whitehouse, Irving, Graham, and Reed. 2,811,433.
- Graham, Matthew P., and E. J. Herbenar, to Thompson Products, Inc. Thermostatically controlled fan and coupling assembly. 2,808,817, 10-8-57, Cl. 123-41.12.
- Graham, Maurice H.: See—
 Andres, William A., and Graham. 2,799,762.
- Graham, Maurice H., deceased; M. W. Graham and Northwestern National Bank of Minneapolis, executors. Coffee maker. 2,784,678, 3-12-57, Cl. 103-231.5.
- Graham, Maurice W.: See—
 Graham, Maurice H. 2,784,678.
- Graham, Paul E.: See—
 Egglestone, Robert W., and Graham. 2,777,079.
- Graham, Percy R. Mortising and boring machine. 2,790,470, 4-30-57, Cl. 144-3.
- Graham, Peter J., and G. M. Whitman, to E. I. du Pont de Nemours & Co. Preparation of dicyclopentadienyliron from cyclopentadiene and pyrophoric ferrous oxide. 2,817,674, 12-24-57, Cl. 260-439.
- Graham, Phillip. Vehicle parking device. 2,815,872, 12-10-57, Cl. 214-16.1.
- Graham, Richard A. Apparatus for heating food in closed containers. 2,785,623, 3-19-57, Cl. 99-357.
- Graham, Richard P., to The Singer Mfg. Co. Trimmer mechanisms for sewing machines. 2,790,405, 4-30-57, Cl. 112-123.
- Graham, Robert E., to Bell Telephone Laboratories, Inc. Wide band amplifier using positive feedback. 2,798,905, 7-9-57, Cl. 179-171.
- Graham, Robert E., and C. F. Mattke, to Bell Telephone Laboratories, Inc. Light servo system for non-intermittent projector. 2,779,819, 1-29-57, Cl. 178-7.2.
- Graham, Robert E., and E. R. Kretzmer, to Bell Telephone Laboratories, Inc. A. C. coupled gate circuits. 2,802,954, 8-13-57, Cl. 307-88.5.
- Graham, Robert E., and C. F. Mattke, to Bell Telephone Laboratories, Inc. Feedback intensity control for continuous film scanner. 2,817,702, 12-24-57, Cl. 178-7.2.
- Graham, Robert P., A. H. Brown, and W. D. Ramage, to the United States of America as represented by the Secretary of Agriculture. Internal drum dejuicing press. 2,795,184, 6-11-57, Cl. 100-121.
- Graham, Robert W., to General Motors Corp. Rotating device. 2,818,051, 12-31-57, Cl. 123-90.
- Graham, Walton: See—
 Di Toro, Michael J., Graham, and Schreiner. 2,810,787.
- Graham, William C., Jr.: See—
 Graham, Malcolm H., and W. C. 2,817,939.
- Graham, William R.: See—
 Bleamaster, Leslie F. 2,815,982.
 Polk, Isaac H. 2,795,939.
 Polk, Isaac H. 2,802,341.
- Graham, William T. Apparatus for dispensing material beneath the shank of a ground-working tool. 2,781,733, 2-19-57, Cl. 111-7.
- Grahame, James H., to The Texas Co. Radioactivity earth exploration. 2,785,314, 3-12-57, Cl. 250-71.
- Grail, Godfrey F.: See—
 Scudi, John V., Tenenbaum, and Grail. 2,788,371.
- Grails, Melvin L. Wet bandage fastener. 2,780,851, 2-12-57, Cl. 24-87.
- Grajcek, Edwin J., J. F. Kalina, and C. T. Wagner, Jr., to Collins & Alkman Corp. Dyeing and finishing textile fabrics. 2,785,042, 3-12-57, Cl. 8-151.
- Gramatzki, Paul. Device for mounting a vehicle frame on the axles of a vehicle. 2,811,370, 10-29-57, Cl. 280-112.
- Gramatzky, Paul A., to L. F. von Holzschuher. Screen printing apparatus. 2,802,419, 8-13-57, Cl. 101-415.1.
- Grambow, Joachim, and E. Rieger, to Saba August Schwer Söhne G. m. b. H. Electrical repeating method and apparatus. 2,803,704, 8-20-57, Cl. 179-15.
- Gramigna, Thomas C. Anti-pulsation control for furnaces and boilers. 2,790,603, 4-30-57, Cl. 236-96.
- Grammer, Allen L. Files. 2,792,981, 5-21-57, Cl. 229-16.
- Grammes, L. F., & Sons, Inc.: See—
 Weindel, Fred, Jr. 2,805,832.
- Grams, Gladys: See—
 Bogart, Frances E., and Grams. 2,812,517.
- Granade, Fred C., and G. H. A. Ruby, to National Lead Co. Journal bearing casting apparatus. 2,787,815, 4-9-57, Cl. 22-57.
- Granatek, Alphonse P.: See—
 Buckwalter, Frank H., Kaplan, and Granatek. 2,795,528.
- Granberg, Albert J. Tank filling and control system. 2,792,014, 5-14-57, Cl. 137-267.
- Granberg, Albert J. Liquid meter assembly. 2,800,022, 7-23-57, Cl. 73-231.
- Granberg, Albert J. Temperature compensating coupling assembly for liquid meters. 2,806,374, 9-17-57, Cl. 73-233.
- Granberg, Albert J. Bulk plant dispensing system. 2,812,920, 11-12-57, Cl. 251-68.
- Granberg, Bengt R., to Sundstrand Machine Tool Co. Drive mechanism. 2,800,032, 7-23-57, Cl. 74-472.
- Granberg, Viktor H. Carrying and supporting sling for rifles. 2,779,521, 1-29-57, Cl. 224-1.
- Granberry, Carl H. Lock nut with axially and radially distorted thread portions. 2,776,692, 1-8-57, Cl. 151-21.
- Granberry, Edgar H.: See—
 Dunn, Harold H., and Granberry. 2,810,165.
- Granco, Inc.: See—
 Jacobson, Donald A. Re. 24,405.
- Grandinette, Anthony B. Athletic training ball. 2,815,211, 12-3-57, Cl. 273-58.
- Grandjean, Philippe, to Saul & Co. Polyazo dyestuffs. 2,778,817, 1-22-57, Cl. 260-173.
- Grandjean, Philippe, F. Kehrler, L. Schneider, W. Steinemann, and M. Kappeler, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Disazo and polyazo dyestuffs. 2,813,852, 11-19-57, Cl. 260-144.

- Grandjean, Philippe, M. Kappeler, L. Schneider, W. Steinemann, and W. Wehrli, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz trust. Azo dyestuffs. 2,817,654, 12-24-57, Cl. 260—147.
- Grandjean, William B.: *See*—
- Blitzer, Sidney M., Brown, and Grandjean. 2,777,866.
- Dunn, Roy E., Grandjean, and Padgett. 2,790,012.
- Grandmont, Paul E., to Curtiss-Wright Corp. Apparatus for simulating aircraft control loading and feel. 2,804,698, 9-3-57, Cl. 35—12.
- Grandpierre, Maurice C. M., to The International Nickel Co., Inc. Process and apparatus for the treatment of molten ferrous alloys. 2,781,260, 2-12-57, Cl. 75—130.
- Grand Rapids Hardware Co.: *See*—
- Gerulis, Benedict R. 2,806,259.
- Grandstaff, Perry, to Line Scale Co., Inc. Line tensiometer. 2,809,518, 10-15-57, Cl. 73—144.
- Grand Union Co., The: *See*—
- Just, George A., and Shield. 2,776,843.
- Just, George A., and Shield. 2,808,946.
- Granfelt, Ernest H., to the United States of America as represented by the Secretary of the Navy. Multi-cellular rocket package. 2,792,962, 5-21-57, Cl. 220—21.
- Granfield, John C., to General Electric Co. Welded miter joints with square lapped joints. 2,797,396, 6-25-57, Cl. 336—217.
- Grange, Raymond A.: *See*—
- Baughman, Robert W., and Grange. 2,779,698.
- Granite City Steel Co.: *See*—
- Wahlert, Ernst H. 2,809,073.
- Graniteville Co.: *See*—
- Converse, Sherman. 2,791,529.
- Granitsas, George A., to American Optical Co. Embossing dies and method of making same. 2,793,585, 5-28-57, Cl. 101—28.
- Granoft, Budd: *See*—
- Kriesman, Sanford S., and Rosen. 2,777,451.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Alternating current motor. 2,810,843, 10-22-57, Cl. 310—68.
- Granqvist, Carl-Erik. Pendulum control arrangement for gyroscopes. 2,817,975, 12-31-57, Cl. 74—547.
- Grant, Albert B., to J. C. Hockery, trustee for H. J. and F. L. Talge, c/o Rival Mfg. Co. Power operated can opener. 2,806,280, 9-17-57, Cl. 30—4.
- Grant, Bruce F.: *See*—
- Bail, Paul T., Grant, and Klosky. 2,808,886.
- Grant, Dwight W., to Bell Telephone Laboratories, Inc. Magnetic amplifier circuits. 2,782,269, 2-19-57, Cl. 179—171.
- Grant, Frank L., to Kelsey-Hayes Co. Sealing cup. 2,791,475, 5-7-57, Cl. 309—1.
- Grant, Frank L., to Kelsey-Hayes Co. Booster device having a valve for metering fluid flow. 2,807,239, 9-24-57, Cl. 121—41.
- Grant, Gordon A.: *See*—
- Myers, Gordon S., Morozovitch, and Grant. 2,784,189.
- Grant, Harry C., Jr., to Specialties Development Corp. Temperature responsive system. 2,781,505, 2-12-57, Cl. 340—233.
- Grant, Harry C., Jr., to Specialties Development Corp. Method of discharging carbon dioxide to inhibit the generation of electrostatic charges. 2,785,124, 3-12-57, Cl. 252—8.
- Grant, Homer A.: *See*—
- Evans, Eugene M., and Grant. 2,803,810.
- Grant, Irving: *See*—
- Thornton, Ray F. 2,778,245.
- Thornton, Ray F. 2,778,246.
- Grant, Jesse R. Cartons with reversible flaps. 2,815,162, 12-3-57, Cl. 229—2.5.
- Grant, John C., to Borg-Warner Corp. Elastic tension member. 2,805,058, 9-3-57, Cl. 267—69.
- Grant, John L., to Poor & Co. Two-piece rail anchor. 2,815,902, 12-10-57, Cl. 238—324.
- Grant, José C. G. Electric plug. 2,794,094, 5-28-57, Cl. 200—115.5.
- Grant, Kenneth A., to J. Brockhouse & Co. Ltd. Brake mechanism for trailer vehicles. 2,798,575, 7-9-57, Cl. 188—3.
- Grant, Kenneth A., to J. Brockhouse & Co. Ltd. Device for coupling a tractor to a trailer vehicle. 2,810,590, 10-22-57, Cl. 280—429.
- Grant, Leo P.: *See*—
- Gulnac, Howard D., and Grant. 2,809,326.
- Grant, Leona H. Hair curler. 2,793,645, 5-28-57, Cl. 132—42.
- Grant, Louis R., and M. D. Taylor, to Callery Chemical Co. Preparation of anhydrous alkaline earth halides. 2,801,899, 8-6-57, Cl. 23—90.
- Grant, Max L.: *See*—
- Miller, Harry B. 2,810,465.
- Miller, Harry B. 2,816,639.
- Grant, Max L. Fare box construction. 2,798,664, 7-9-57, Cl. 232—7.
- Grant, Max L. Audible indicating apparatus for coin collecting apparatus. 2,805,746, 9-10-57, Cl. 194—16.
- Grant, Michael G., to The Briggs Filtration Co. Filter signal. 2,810,034, 10-15-57, Cl. 200—81.9.
- Grant, Nicholas J.: *See*—
- Bloom, David S., and Grant. 2,809,139.
- Wyatt, James L., and Grant. 2,804,410.
- Grant Pulley & Hardware Corp.: *See*—
- Gussack, Milton P. 2,801,887.
- Gussack, Nathan. 2,783,493.
- Gussack, Nathan. 2,796,626.
- Gussack, Nathan A. 2,812,067.
- Gussack, Nathan A. 2,812,222.
- Gussack, Seymour I. 2,788,253.
- Grant, Robert I.: *See*—
- Kleem, Clifford L. 2,777,527.
- Grant, Verna C. Convertible wrap. 2,808,591, 10-8-57, Cl. 2—88.
- Grant, Wallace A., and C. J. Ainsworth. Process of making concrete. 2,783,157, 2-26-57, Cl. 106—92.
- Grantham, Cyril, to Power Jets (Research and Development) Ltd. Bladed rotors for axial flow turbines and similarly bladed fluid flow machines. 2,786,646, 3-26-57, Cl. 253—39.15.
- Grantham, John H.: *See*—
- Rawlings, Frank N., Grantham, and Miller. 2,809,903.
- Granville, Edward. Flanging tool for forming radial flanges. 2,797,726, 7-2-57, Cl. 153—79.
- Granzow, Robert H.: *See*—
- Sonnastine, Edgar H., Jr., and Granzow. 2,789,644.
- Grapes, Robert D., and E. A. Damerau, to Radio Corp. of America. Card handling mechanism. 2,797,095, 6-25-57, Cl. 271—63.
- Graphia, Anthony J., III, and A. W. Osborn. Portable liquid dispenser. 2,808,965, 10-8-57, Cl. 222—175.
- Graphic Arts Research Foundation, Inc.: *See*—
- Grea, René A., Higonnet, and Moyroud. 2,783,651.
- Higonnet, René, and Moyroud. 2,790,362.
- Higonnet, René A., and Moyroud. 2,781,706.
- Higonnet, René A., and Moyroud. 2,787,199.
- Higonnet, René A., and Moyroud. 2,797,613.
- Higonnet, René A., and Moyroud. 2,797,787.
- Higonnet, René A., and Moyroud. 2,806,574.
- Higonnet, René, and Moyroud. 2,806,575.
- Graser, Clarence F., to General Electric Co. Adjustable air distribution grille. 2,813,476, 11-19-57, Cl. 98—40.
- Grassi, Luigi. Spacing and aligning device for seedlings. 2,788,903, 4-16-57, Cl. 214—10.5.
- Grassi, Luigi. Transplanting machine. 2,813,499, 11-19-57, Cl. 111—3.
- Grassick, Donald D.: *See*—
- Waite, William, and Grassick. 2,807,563.
- Graswick, Edward, and J. W. Cedarquist, to Dohrmann Hotel Supply Co. Grease extracting attachment for ventilators for kitchen ranges. 2,793,712, 5-28-57, Cl. 183—77.
- Grathwohl, Kenneth T. Disposable razor having easy cleaning sloping surfaces. 2,780,862, 2-12-57, Cl. 30—32.
- Grathwohl, William L. Hinge butt mortising machine. 2,794,460, 6-4-57, Cl. 144—27.
- Grafton, Worthin F. Automatic transmission for automotive vehicles. 2,797,594, 7-2-57, Cl. 74—732.
- Gratzer, Richard. Toy bells. 2,778,157, 1-22-57, Cl. 46—174.
- Gratzfeld, Eberhard: *See*—
- Verbeek, Hans, and Gratzfeld. 2,793,133.
- Gratzmuller, Jean L. Pressure regulating valves. 2,781,776, 2-19-57, Cl. 137—505.44.
- Gratzmuller, Jean L. Torque-transmitting threaded joint. 2,795,443, 6-11-57, Cl. 287—73.
- Gratzmuller, Jean L. Crank-shaft and the corresponding crank-case. 2,796,769, 6-25-57, Cl. 74—49.
- Gratzmuller, Jean L. Automatically releasable coupling. 2,796,856, 6-25-57, Cl. 123—179.
- Gratzmuller, Jean L. Hydropneumatic accumulators. 2,804,094, 8-27-57, Cl. 138—31.
- Grauers, Kjell G. Automatic controlling means for liquid fuel burners. 2,785,741, 3-19-57, Cl. 158—28.
- Graul, Russell Y., to Aktiebolaget Elektrolux. Attachment for low temperature cooling units. 2,797,558, 7-2-57, Cl. 62—126.
- Graulich, Wilhelm: *See*—
- Reinartz, Kurt, Graulich, Lehmann, and Kleiner. 2,780,562.
- Graumlich, Albert J., and D. W. Toms. Window enclosure actuating mechanism. 2,784,965, 3-12-57, Cl. 268—124.
- Gravenstine, George E.: *See*—
- Bondurant, Carlton W., and Gravenstine. 2,811,349.
- Graver Tank & Mfg. Co., Inc.: *See*—
- Galandak, John. 2,781,911.
- McKelvey, Lawrence N., Jr. 2,812,034.
- Segrest, Allmon F. 2,777,533.
- Ulm, Reign C. 2,801,763.
- Gravert, William H. Welding torch. 2,784,294, 3-5-57, Cl. 219—75.
- Graves, Carl O., to The Cincinnati Milling Machine Co. Milling cutter. 2,782,490, 2-26-57, Cl. 29—103.
- Graves, Charles I. Protractor. 2,777,204, 1-15-57, Cl. 33—102.
- Graves, Delbert B., and E. V. Schlichting, ½ to W. T. Neiman. Impact tool. 2,783,670, 3-5-57, Cl. 81—52.35.
- Graves, Donald E., to General Electric Co. Monitoring system. 2,817,076, 12-17-57, Cl. 340—248.
- Graves, Edward B., to Picker X-Ray Corp., Waite Mfg. Div. Inc. Simplified photo timing. 2,790,907, 4-30-57, Cl. 250—57.
- Graves, Edward B., to Picker X-Ray Corp., Waite Mfg. Div. Inc. Control for X-ray apparatus. 2,790,911, 4-30-57, Cl. 250—93.

- Graves, Edward B., and G. V. Lyons, to Picker X-Ray Corp., Waite Mfg. Div., Inc. X-ray control apparatus. 2,790,912, 4-30-57, Cl. 250-97.
- Graves, Joseph R. Polarized light display apparatus. 2,786,292, 3-26-57, Cl. 40-130.
- Graves, Loinel R., to Northrop Aircraft, Inc. Resin trap. 2,778,448, 1-22-57, Cl. 183-43.
- Graves, Roy R., to The Graves-Stambaugh Corp. Milking and collecting apparatus. 2,808,025, 10-1-57, Cl. 119-14.01.
- Graves-Stambaugh Corp., The: See—
- Graves, Roy R. 2,808,025.
- Graves, Walter, and W. P. Wagner, to Franklin Foods, Inc. Dispenser. 2,778,536, 1-22-57, Cl. 222-184.
- Gravin, Moses M., and P. Foti. Heated glove. 2,792,827, 5-21-57, Cl. 126-204.
- Graviner Mfg. Co., Ltd.: See—
- Mathisen, Anders. 2,782,402.
- Mathisen, Anders. 2,783,845.
- Mathisen, Anders. 2,787,330.
- Mathisen, Anders. 2,795,282.
- Mathisen, Anders. 2,797,760.
- Randolph, Harry B., and Mathisen. 2,798,562.
- Gravino, Nicholas. Adjustable strike plate. 2,787,490, 4-2-57, Cl. 292-341.18.
- Grawey, William F. Bowling alley. 2,788,973, 4-16-57, Cl. 273-51.
- Gray, Allan P.: See—
- Cavallito, Chester J., and Gray. 2,783,237.
- Cavallito, Chester J., and Gray. 2,806,850.
- Cavallito, Chester J., and Gray. 2,814,624.
- Cavallito, Chester J., and Gray. 2,817,664.
- Cavallito, Chester J., Gray, and Archer. 2,804,460.
- Gray, Alvin N., to Western Electric Co., Inc. Strand annealing apparatus. 2,806,130, 9-10-57, Cl. 219-155.
- Gray, Arthur, Jr.: See—
- Ianuzzi, Anthony P. 2,782,700.
- Gray, C. F.: See—
- Wilhelm, Harley A., and Gray. 2,782,117.
- Wilhelm, Harley A., and Gray. 2,782,475.
- Gray, Charles D. Abrading device. 2,793,477, 5-28-57, Cl. 51-186.
- Gray Co., Inc.: See—
- Gray, Russell J. 2,777,716.
- Gray, Daniel M., and G. L. Reymann, to American-Marletta Co., Stoner-Mudge Co. Division. Polymeric sanitary coating system. 2,780,564, 2-5-57, Cl. 117-75.
- Gray, Donald E. Pumping device. 2,812,716, 11-12-57, Cl. 103-37.
- Gray, Earl H., to Phillips Petroleum Co. Preparation of silica gels. 2,782,869, 2-26-57, Cl. 183-114.2.
- Gray, Elzie R. Roller attachment for tractors. 2,778,181, 1-22-57, Cl. 55-6.
- Gray, Ernest F. Earring with clamping member impelled by depressed spring. 2,776,555, 1-8-57, Cl. 63-14.
- Gray, Ernest F. Earring clasp. 2,795,833, 6-18-57, Cl. 24-252.
- Gray, Frederick W., to Colgate-Palmolive Co. Germicidal detergent composition. 2,809,937, 10-15-57, Cl. 252-106.
- Gray, G. A., Co., The: See—
- Walter, John M. 2,798,773.
- Gray, Gene. Garment hanger. 2,813,666, 11-19-57, Cl. 223-88.
- Gray, George W., to Radio Corp. of America. Instrument landing system receiver apparatus. 2,793,363, 5-21-57, Cl. 343-107.
- Gray, George W., and R. D. Kell, to Radio Corp. of America. Apparatus for displaying high frequency wave-forms. 2,783,436, 2-26-57, Cl. 324-77.
- Gray, George W., and A. S. Jensen, to the United States of America as represented by the United States Atomic Energy Commission. Pulse amplitude analyzer. 2,810,828, 10-22-57, Cl. 250-27.
- Gray, Harold P. Cultivating attachment for tractors. 2,788,728, 4-16-57, Cl. 97-47.37.
- Gray, Harold P. Pouring lip for paint cans. 2,817,465, 12-24-57, Cl. 222-570.
- Gray, Harold W., Jr.: See—
- Brainerd, Harold W., Jr., Gray, and Menaul. 2,793,998.
- Gray, Harry J., Jr., P. V. Levonian, and M. Rubino, to the United States of America as represented by the Secretary of the Navy. Analog to digital converter. 2,791,764, 5-7-57, Cl. 340-347.
- Gray, James H., to Allis-Chalmers Mfg. Co. Cotton stripping or doffing device. 2,798,352, 7-9-57, Cl. 56-41.
- Gray, James W. Hand-manipulable portable band-saw assembly. 2,798,518, 7-9-57, Cl. 143-157.
- Gray, John, to Brentford Electric Ltd. Heat pumps. 2,802,342, 8-13-57, Cl. 62-116.
- Gray, John B., III, to Western Electric Co., Inc. Assembly fixture. 2,796,512, 6-18-57, Cl. 219-85.
- Gray, John B., III, and W. R. Yeich, to Western Electric Co., Inc. Assembly fixture. 2,801,329, 7-30-57, Cl. 219-101.
- Gray, John B., III, to Western Electric Co., Inc. Resistance soldering fixture. 2,813,191, 11-12-57, Cl. 219-85.
- Gray, John W., to General Precision Laboratory Inc. Limit stop control circuit for synchro system. 2,788,478, 4-9-57, Cl. 318-30.
- Gray, John W., to General Precision Laboratory, Inc. Cyclic function modifying circuit. 2,796,568, 6-18-57, Cl. 318-30.
- Gray, John W., to General Precision Laboratory Inc. Electrical signal power supply transfer circuit. 2,812,482, 11-5-57, Cl. 318-28.
- Gray, John W., to General Precision Laboratory Inc. Cyclic function modifying circuit. 2,814,767, 11-26-57, Cl. 318-24.
- Gray, John W., W. D. Green, Jr., and D. Sayre, to the United States of America as represented by the Secretary of War. Electrical navigation apparatus. 2,784,908, 3-12-57, Cl. 235-61.
- Gray, Kenneth R.: See—
- Schlosser, Paul H., Mitchell, and Gray. 2,814,569.
- Thomas, Berwyn B., Gray, and Schlosser. 2,790,795.
- Gray, Kenneth R., and H. L. Crosby, to Rayonier Inc. Bark treatment process and product. 2,782,241, 2-19-57, Cl. 260-619.
- Gray, Kenneth R., and H. L. Crosby, to Rayonier Inc. High molecular weight calcium lignosulfonate and process of producing the same. 2,801,994, 8-6-57, Cl. 260-124.
- Gray Mfg. Co., The: See—
- Moore, Frank L. 2,808,268.
- Gray, Marion F. Collapsible brush. 2,792,582, 5-21-57, Cl. 15-203.
- Gray, Parker W. Shotgun sight. 2,794,256, 6-4-57, Cl. 33-56.
- Gray, Richard D., to Motor Wheel Corp. Adjustable mounting for handle of lawn mowers. 2,786,694, 3-26-57, Cl. 280-47.37.
- Gray, Robert B., to American Meter Co., Inc. Variable ratio drive. 2,817,242, 12-24-57, Cl. 74-191.
- Gray, Robert L., and J. J. Henry, to American-Hawaiian Steamship Co. (Del.), Ore Transport, Inc., and J. J. Henry, Inc. Hatch cover for ore carrier and tanker. 2,804,039, 8-27-57, Cl. 114-203.
- Gray, Robert M.: See—
- Winters, Robert W., Gray, and Furtak. 2,779,832.
- Gray, Roland M., to United States Cerimac Tile Co. Process for making thin articles of polytetrafluoroethylene. 2,781,552, 2-19-57, Cl. 18-55.
- Gray, Russell J., to Gray Co., Inc. Socket type hose coupler with reciprocating detent. 2,777,716, 1-15-57, Cl. 285-276.
- Gray, Russell J. Pneumatic control. 2,779,627, 1-29-57, Cl. 299-86.
- Gray, Russell J. Lubricant dispensing apparatus and the like. 2,810,496, 10-22-57, Cl. 222-254.
- Gray, Thomas, to C. A. Parsons & Co. Ltd. Combustion control apparatus. 2,812,140, 11-5-57, Cl. 236-15.
- Gray, Willard F. M.: See—
- Conover, William B., and Gray. 2,776,020.
- Gray, William E. Friction draft gear. 2,811,264, 10-29-57, Cl. 213-45.
- Gray, Willis J. Harrow hitch. 2,796,816, 6-25-57, Cl. 97-5.
- Graybeal, Kenneth W. Cigarettes. 2,786,471, 3-26-57, Cl. 131-10.
- Graybeal, Troy D. High speed recording oscillograph. 2,805,912, 9-10-57, Cl. 246-32.
- Graybill, Clinton L. Power driven screw driver. 2,790,471, 4-30-57, Cl. 144-32.
- Graybill, Clinton L. Hydraulically actuated attachment for power-driven tool chucks. 2,796,161, 6-18-57, Cl. 192-138.
- Graybill, Clinton L. Hydraulically actuated attachment for power-driven tool chucks. 2,809,734, 10-15-57, Cl. 192-30.5.
- Graybill, Howard W., and A. M. Zeth, to I-T-E Circuit Breaker Co. Disconnect switch. 2,789,189, 4-16-57, Cl. 200-170.
- Graybill, Kenneth W., and H. Sengebusch, to General Telephone Laboratories, Inc. Cross-bar type, impulse responsive, telephone switching apparatus. 2,798,119, 7-2-57, Cl. 179-27.54.
- Graybill, Paul J. Carton with folding spout. 2,789,747, 4-23-57, Cl. 229-17.
- Graybill, Paul J. Reclosable containers. 2,796,212, 6-18-57, Cl. 229-16.
- Graybill, Paul J. Dispensing containers. 2,812,126, 11-5-57, Cl. 229-17.
- Graybill, Paul J. Dispensing cartons. 2,812,127, 11-5-57, Cl. 229-17.
- Grayson, Charles N.: See—
- Ray, John G., and Grayson. 2,799,753.
- Grayson, Harry: See—
- Starr, Arthur T., Grayson, Dunkley, and Walker. 2,802,170.
- Grayson, John H., and R. D. Grayson, to General Controls Co. Valve structure. 2,800,135, 7-23-57, Cl. 137-66.
- Grayson, Richard D.: See—
- Grayson, John H., and R. D. 2,800,135.
- Grayson, Richard D., to General Controls Co. Valve structure. 2,777,639, 1-15-57, Cl. 236-48.
- Graziani, Joseph. Wall lamp. 2,806,941, 9-17-57, Cl. 240-73.
- Grazier, Doré W. Self-dumping bucket. 2,796,283, 6-18-57, Cl. 294-73.
- Grea, Rene A., R. A. Higonnet, and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Variable escapement. 2,783,651, 3-5-57, Cl. 74-1.5.
- Greanias, Evon C.: See—
- Jacobs, Robert B., and Greanias. 2,817,764.
- Great American Plastics Co.: See—
- Bottleman, Ray. 2,810,160.

- Greatbatch, William H., Jr., and J. E. Penn, to the United States of America as represented by the Secretary of the Navy. Protective shields for electronic tubes. 2,797,408, 6-25-57, Cl. 340-367.
- Greathouse, Jack F., to Mack Trucks, Inc. Means for securing a pump impeller to a shaft. 2,798,438, 7-9-57, Cl. 103-112.
- Great Lakes Carbon Corp.: *See*—
Bowers, Thomas G. 2,808,326.
Bowers, Thomas G. 2,808,370.
Hickey, John H. 2,808,369.
Martin, Samuel W. 2,812,246.
Moir, Thomas D., and Skakel. 2,801,065.
Thomas, Edward C. 2,805,879.
- Great Lakes Pipe Line Co.: *See*—
Hoyt, Harold R. 2,795,235.
Hoyt, Harold R. 2,815,107.
- Great Lakes Products, Inc.: *See*—
Clay, Stanley B. 2,783,952.
- Great Lakes Stamp & Mfg. Co., Inc.: *See*—
Schuetze, Hilmar O. 2,814,710.
- Greaves, Charles D., and B. R. Atkins, to C. D. Patents Ltd. Method of producing a carbon tube from coal. 2,777,806, 1-15-57, Cl. 202-29.
- Greaves, Fred G., and H. J. Knapp, to The Bauer Bros. Co. Material handling valve. 2,816,693, 12-17-57, Cl. 222-342.
- Greaves, Joseph. Rock picker. 2,804,156, 8-27-57, Cl. 55-17.
- Grebby, John W.: *See*—
Hawtin, Selwyn G., and Grebby. 2,786,737.
Taylor, William L., and Grebby. 2,789,563.
- Grebe, Konrad. Apparatus for driving chains, conveyor bands and the like. 2,797,586, 7-2-57, Cl. 74-221.
- Greco, Peter: *See*—
Dupre, Henry P., and Greco. 2,783,446.
- Gredigk, Josef: *See*—
Huecking, Walter, and Gredigk. 2,783,000.
- Greefkes, Johannes A., and P. van Tilburg, to Hartford National Bank and Trust Co. as trustee. Device for separating synchronizing pulses and signal pulses with pulse-code modulation. 2,780,672, 2-5-57, Cl. 179-15.
- Greeley, Leo O., to F. J. McCarthy, Inc. Hydraulic torque vane-type motors. 2,778,340, 1-22-57, Cl. 121-38.
- Greeley, Leo O., to F. J. McCarthy, Inc. Control valves. 2,792,021, 5-14-57, Cl. 137-622.
- Greely, John J. Traction device. 2,809,704, 10-15-57, Cl. 180-15.
- Green, Arthur D., to Esso Research and Engineering Co. Heat bodying polydiolefinic drying oils with dicyclopentadiene. 2,812,371, 11-5-57, Cl. 260-666.
- Green, Barrett K., to The National Cash Register Co. Oil-containing microscopic capsules and method of making them. 2,800,458, 7-23-57, Cl. 252-316.
- Green, Barrett K., and L. Schleicher, to The National Cash Register Co. Oil-containing microscopic capsules and method of making them. 2,800,457, 7-23-57, Cl. 252-316.
- Green, Charles B., to Studebaker-Packard Corp. Latch structure for vehicle body deck lids. 2,796,288, 6-18-57, Cl. 296-76.
- Green, Clarence J.: *See*—
Hill, Oiva E., and Green. 2,786,311.
- Green, Daniel A., to Mine Safety Appliances Co. Breathing apparatus head harness connection. 2,784,713, 3-12-57, Cl. 128-140.
- Green, Daniel M., and B. F. Duesel, to Nepera Chemical Co., Inc. Salts of 2,6-diamino-3-phenylazo-pyridine. 2,783,224, 2-26-57, Cl. 260-156.
- Green, Daniel P., and H. E. Schwegman, to Halliburton Oil Well Cementing Co. Well tester. 2,806,539, 9-17-57, Cl. 166-226.
- Green, Donald H. Stump extractor. 2,776,504, 1-8-57, Cl. 37-2.
- Green, Donald T., and C. B. Braestrup, to Atomic Energy of Canada Ltd. Rotational therapy unit. 2,781,454, 2-12-57, Cl. 250-91.
- Green, Donald W.: *See*—
McGill, Daniel F. 2,807,134.
- Green, Edward: *See*—
East, Edward, and Green. 2,809,090.
- Green, Edward C., D. J. Jones, and W. R. Pitkin, to The General Electric Co. Ltd. Powder metallurgical process for producing dense tungsten alloys. 2,793,951, 5-28-57, Cl. 75-214.
- Green, Edward H. Aerosol dispensers. 2,777,735, 1-15-57, Cl. 299-95.
- Green, Elbertson D.: *See*—
Smith, Harry S., and Green. 2,813,241.
- Green, Floyd S., to Frank Adam Electric Co. Circuit breakers. 2,810,803, 10-22-57, Cl. 200-88.
- Green, Frederick H., to The Garrett Corp. Direct evaporative vortex tube refrigeration system. 2,786,341, 3-26-57, Cl. 62-138.
- Green, Frederick H., to The Garrett Corp. Gaseous fluid cooling device. 2,788,647, 4-16-57, Cl. 62-136.
- Green, Frederick H., to The Garrett Corp. Axial flow vortex tube mechanism. 2,790,310, 4-30-57, Cl. 62-136.
- Green Fuel Economizer Co., Inc. The: *See*—
Elsnerman, Gert V. 2,814,432.
- Green, Gabriel. Vehicle spring accessory. 2,815,945, 12-10-57, Cl. 267-45.
- Green, George A., to Flasko Forging Die Co. Louver window. 2,815,545, 12-10-57, Cl. 20-62.
- Green, Henry. Hand bags and the like. 2,808,092, 10-1-57, Cl. 150-42.
- Green, Henry A. Rotary sheet music holder. 2,792,666, 5-21-57, Cl. 45-58.
- Green, Herbert C.: *See*—
Locke, Ralph S., Lawson, and Green. 2,784,062.
- Green, Hugh E. Boat trailer. 2,805,786, 9-10-57, Cl. 214-505.
- Green, James B.: *See*—
Schmidt, Richard E., and Green. 2,783,482.
- Green, Jerome, and D. B. Boies, to National Aluminate Corp. Corrosion inhibitor composition for aqueous liquids. 2,815,328, 12-3-57, Cl. 252-75.
- Green, Joseph, to Spectoyculars Inc. Building unit and assembly for toys and the like. 2,814,159, 11-26-57, Cl. 46-23.
- Green, Joseph, A. F. Daglish, and V. D. Poole, to Vitamins Ltd. Process for the manufacture of isoergosterone. 2,776,303, 1-1-57, Cl. 260-397.2.
- Green, Leland W., and S. E. Summers, to Interstate Engineering Corp. Pilot actuated butterfly valve. 2,796,082, 6-18-57, Cl. 137-630.15.
- Green, Louis E., Jr.: *See*—
Foster, Norman G., and Green. 2,783,401.
- Green, Margaret M. Page holder and bookmarker. 2,780,481, 2-5-57, Cl. 281-42.
- Green, Marjorie F. Tension devices for belts. 2,812,564, 11-12-57, Cl. 24-163.
- Green, Martin, and M. Hill. Diaper cover or infant's panty. 2,796,064, 6-18-57, Cl. 128-288.
- Green, Maurice B.: *See*—
Barber, Harry J., and Green. 2,797,246.
- Green, Max L.: *See*—
Kinard, William C., and Green. 2,816,737.
- Green, Milton: *See*—
Land, Edwin H., and Green. 2,794,740.
- Green, Norman, to Aladdin Industries, Inc. Lamp and control means therefor. 2,810,066, 10-15-57, Cl. 240-123.
- Green, Richard M., to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,815,364, 12-3-57, Cl. 260-475.
- Green, Richard R.: *See*—
Katwyk, Clarence, and Green. 2,801,492.
- Green, Robert P.: *See*—
Lyon, Malcolm G., and Green. 2,791,503.
- Green, Samuel G. Regulating plug for gas operated firearm. 2,783,685, 3-5-57, Cl. 89-193.
- Green, Sidney S.: *See*—
Forrest, Cameron B., and Green. 2,816,226.
- Green, Sidney S., and C. E. Forrest, to Hughes Aircraft Co. Electronic timing pulse generator. 2,797,401, 6-25-57, Cl. 340-174.
- Green, Sophia R.: *See*—
Green, Wilbert C. 2,792,629.
- Green, Thomas A., to Bailey Meter Co. Electric terminal connections. 2,811,616, 10-29-57, Cl. 200-163.
- Green, Thomas A., H. H. Gorrie, J. F. Shannon, and T. Fink, to Bailey Meter Co. Indicating instrument. 2,793,606, 5-28-57, Cl. 116-136.5.
- Green, Walter F., Jr.: *See*—
O'Neill, Thomas M., and Green. 2,798,001.
- Green, Walter P., Jr., and W. N. Meek, Jr., to Masonite Corp. Mold coating composition. 2,815,290, 12-3-57, Cl. 106-38.23.
- Green, Wilbert C., deceased; S. R. Green, executrix. Centering device for artificial dentures. 2,792,629, 5-21-57, Cl. 32-19.
- Green, Wilbur. Kite. 2,785,870, 3-19-57, Cl. 244-153.
- Green, Willard E., to Joy Mfg. Co. Packed piston. 2,811,398, 10-29-57, Cl. 309-29.
- Green, Willard J., to Packard-Bell Co. Garage door operating mechanism. 2,805,059, 9-3-57, Cl. 268-74.
- Green, William C.: *See*—
Sullender, Maurice C., and Green. 2,785,697.
- Green, William D., Jr.: *See*—
Gray, John W., Green, and Sayre. 2,784,908.
- Green, William G. Full-opening, non-scoring plug valve. 2,801,820, 8-6-57, Cl. 251-88.
- Green, William G., to A. D. Appleby. Drill bits. 2,814,465, 11-26-57, Cl. 255-341.
- Green, William H.: *See*—
Baker, William H. 2,805,498.
- Green, William S.: *See*—
Curtze, Walter A., and Green. 2,815,937.
- Greenawalt, George P., to General Controls Co. Valve structure. 2,814,447, 11-26-57, Cl. 236-48.
- Greenawalt, William E. Ore treating processes. 2,784,076, 3-5-57, Cl. 75-20.
- Greenawalt, William E. Processes of smelting finely divided metallic ore. 2,784,077, 3-5-57, Cl. 75-26.
- Greenawalt, William E. Processes of smelting finely divided metallic ore. 2,784,078, 3-5-57, Cl. 75-40.
- Greenawalt, William E. Processes of smelting finely divided iron ore. 2,784,079, 3-5-57, Cl. 75-40.
- Greenawalt, William E. Ore smelting processes. 2,784,081, 3-5-57, Cl. 75-72.
- Greenawalt, William E. Ore smelting processes. 2,784,082, 3-5-57, Cl. 75-74.
- Greenbaum, Frederick R.: *See*—
Jacobson, Max, and Greenbaum. 2,779,707.
- Greenberg, Donald K.: *See*—
Seborg, Earnest Y., and Greenberg. 2,780,893.

- Greenberg, Frederic G. High voltage tester for television receivers. 2,805,387, 9-3-57, Cl. 324-20.
- Greenberg, Harry, to Food Machinery and Chemical Corp. Recovery of allethrolone. 2,789,139, 4-16-57, Cl. 260-586.
- Greenberg, Seymour. Fluid holding Venetian blind cleaner. 2,788,537, 4-16-57, Cl. 15-131.
- Greenblatt, Morris: *See—*
- Chwirut, Frank, and Greenblatt. 2,779,298.
- Greenblum, Louis L. Mouth shield. 2,800,898, 7-30-57, Cl. 128-136.
- Greene, Albert E. Electric induction furnaces. Re. 24,300, 4-2-57, Cl. 13-29.
- Greene, Charles R., to Standard Oil Co. Selective extraction. 2,804,486, 8-27-57, Cl. 260-674.
- Greene, Claude E.: *See—*
- Doll, Claude S., Greene, and Alles. 2,777,350.
- Lasher, Robert B., and Greene. 2,814,007.
- Greene, Claude E., and W. V. Sturm, to The Monarch Machine Tool Co. Dual automatic cycle machine. 2,781,684, 2-19-57, Cl. 82-14.
- Greene, Howard M., Jr.: *See—*
- Engle, Homer A., and Greene. 2,797,786.
- Greene, Jesse C.: *See—*
- Thomas, Henry B. 2,799,850.
- Greene, John Q. A.: *See—*
- Henderson, Harvey L., and Greene. 2,811,989.
- Greene, John W., to Metallion Products, Inc. Pulley and method of manufacture. 2,805,582, 9-10-57, Cl. 74-230.8.
- Greene, Joseph R., to Solar Aircraft Co. Tail cone. 2,788,803, 4-16-57, Cl. 138-37.
- Greene, Lawrence P., C. R. Leef, and W. E. Fellers, to North American Aviation, Inc. Wind tunnel air flow control. 2,799,160, 7-16-57, Cl. 73-147.
- Greene, Lawrence P., and W. E. Fellers, to North American Aviation, Inc. Trisonic wind tunnel. 2,799,161, 7-16-57, Cl. 73-147.
- Greene, Robert W.: *See—*
- Miller, Samuel W., Jr., and Greene. 2,808,900.
- Greene, Sidney R. Dispensing device. 2,792,885, 5-21-57, Cl. 164-48.
- Greene, Tweed & Co.: *See—*
- Josephson, Walter S. 2,807,079.
- Josephson, Walter S. 2,818,287.
- Tanis, Henry. 2,779,996.
- Tanis, Henry W. 2,777,521.
- Greene, William J.: *See—*
- Anderson, Nelson E., Greene, and Purkhiser. 2,807,708.
- Shepherd, Thomas L., Moen, and Greene. 2,806,781.
- Greenfield, Walter H. Railroad switch heaters and oil burning systems therefor. 2,815,747, 12-10-57, Cl. 126-271.2.
- Green Giant Co.: *See—*
- Carlson, Wyman I. 2,791,330.
- Scheel, Harvey A., and Martin. 2,808,056.
- Greenhalgh, Alan H.: *See—*
- Sedgfield, Hugh B., Greenhalgh, Glenly, and Dove. 2,794,975.
- Greenhalgh, Colin W., to Imperial Chemical Industries Ltd. Colour couplers for use in colour photography. 2,803,544, 8-20-57, Cl. 96-100.
- Greenhow, Johnston, to Temple Safety On Sea Mfg. Co., Inc. Fire fighting suits. 2,804,071, 8-27-57, Cl. 128-142.
- Greenland, Leonard S., to H. M. Hobson Ltd. Pressure sensitive device. 2,804,084, 8-27-57, Cl. 137-115.
- Greenland, Leonard S., R. Westbury, and C. P. Smith, to H. M. Hobson Ltd. Feel simulator for aircraft. 2,783,006, 2-26-57, Cl. 244-83.
- Greenland, Leonard S., R. Westbury, and C. P. Smith, to H. M. Hobson Ltd. Feel simulator responsive to speed only when within selected Mach numbers. 2,788,185, 4-9-57, Cl. 244-83.
- Greenleaf, Leland B., to C. G. Conn Ltd. Valved wind instrument. 2,790,345, 4-30-57, Cl. 84-388.
- Greenleaf, Walter J. Indexable insert tool holder. 2,791,824, 5-14-57, Cl. 29-96.
- Greenleaf, Walter J. Cutting tool holder. 2,791,825, 5-14-57, Cl. 29-96.
- Greenleaf, Walter J. Rotary cutting tool. 2,805,467, 9-10-57, Cl. 29-105.
- Greenleaf, Walter J. Rotary cutting tool. 2,805,469, 9-10-57, Cl. 29-105.
- Greenlee Bros. & Co.: *See—*
- Hedderich, William E. 2,815,547.
- Swanson, Edwin C. 2,815,646.
- Greenlee, John A.: *See—*
- Butsch, Paul V., and Greenlee. 2,795,290.
- Greenlee, Paul H., and R. S. Rinkinen, to Grimes Mfg. Co. Indicator light. 2,797,407, 6-25-57, Cl. 340-366.
- Greenley, Henry R., M. K. Graham, P. H. Person, and A. J. Rouch, to Airway Products, Inc. Circumferentially traveling shoe tire mounting head for conveyor-supported wheels. 2,816,604, 12-17-57, Cl. 157-124.
- Greenman, Sol I. Safety switch for automobiles. 2,792,480, 5-14-57, Cl. 200-153.
- Greenough, Raymond E., to The Cleveland Pneumatic Tool Co. Sectional fluid seal. 2,797,971, 7-2-57, Cl. 309-23.
- Greenslit, Ivan L. Swing for children. 2,797,736, 7-2-57, Cl. 155-63.
- Greenspan, Frank P., to Food Machinery and Chemical Corp. Method of improving stability of concentrated hydrogen peroxide in contact with stainless steel and aluminum alloys. 2,782,100, 2-19-57, Cl. 23-207.5.
- Greenspan, Frank P., to Food Machinery and Chemical Corp. Peroxid epoxidation of fatty acid esters. 2,810,733, 10-22-57, Cl. 260-348.5.
- Greenspan, Frank P., and R. J. Gall, to Food Machinery and Chemical Corp. In situ epoxidation of organic esters with sulfuric and acetic acids. 2,801,253, 7-30-57, Cl. 260-348.5.
- Greenspan, Frank P., and R. J. Gall, to Food Machinery and Chemical Corp. In situ epoxidation of fatty acids. 2,810,732, 10-22-57, Cl. 260-348.5.
- Greenspan, Irving. Nursing bottle. 2,786,769, 3-26-57, Cl. 99-171.
- Greenspan, Irving. Blood plasma bottle. 2,787,268, 4-2-57, Cl. 128-272.
- Greenspan, Joseph: *See—*
- Amatniek, Ernest. 2,778,884.
- Amatniek, Ernest. 2,810,072.
- Gettner, Mark E., Ornstein, and Florant. 2,797,616.
- Greenspan, Joseph, and A. S. Carlson, to the United States of America as represented by the United States Atomic Energy Commission. Method of determining small quantities of uranium compounds in a gas stream. 2,797,983, 7-2-57, Cl. 23-232.
- Greenspan, Lawrence: *See—*
- Bayes, Ross, Langhans, and Greenspan. 2,802,782.
- Greenspan, Martin, and C. E. Tschiegg, to the United States of America as represented by the Secretary of Commerce. Crystal-controlled relaxation oscillator. 2,796,522, 6-18-57, Cl. 250-36.
- Greenwald, Bertrand W., to Cities Service Research and Development Co. Oxidation of petroleum wax. 2,803,639, 8-20-57, Cl. 260-452.
- Greenway, William T. Longitudinally adjustable fifth wheel mounting for trailer trucks. 2,799,516, 7-16-57, Cl. 280-407.
- Greenwood, Dolphice H. Tank car loader. 2,811,179, 10-29-57, Cl. 141-95.
- Greenwood, Ivan A., Jr., to General Precision Laboratory Inc. Great circle computer. 2,781,168, 2-12-57, Cl. 235-61.
- Greenwood, Ruth A., M. Scalera, and H. Z. Lecher, to American Cyanamid Co. Aromatic phosphonic dichlorides. 2,814,645, 11-26-57, Cl. 260-543.
- Greer, Albert H.: *See—*
- Gilwood, Martin E., and Greer. 2,788,330.
- Greer, Albert H., to The Permutit Co. Anion exchange resins containing keto groups. 2,801,222, 7-30-57, Cl. 260-2.1.
- Greer, Albert H., to The Permutit Co. Novel anion exchange resins from vinyl, alkyl, ring-containing-nitrogen-carbon-heterocyclic polymers and process for producing the same. 2,801,223, 7-30-57, Cl. 260-2.1.
- Greer, Albert H., to The Permutit Co. Quaternary ammonium anion exchange resins and method for preparing the same. 2,801,224, 7-30-57, Cl. 260-2.1.
- Greer, Albert H., and M. E. Gilwood, to The Permutit Co. Anion exchange resins from cross-linked halogenated polyvinylaromatic polymers. 2,788,331, 4-9-57, Cl. 260-2.1.
- Greer, Carl S., Jr. Three-dimension tic-tac-toe apparatus. 2,801,107, 7-30-57, Cl. 273-131.
- Greer, Donald M., and J. L. Zink, to Armour and Co. Cheese manufacture. 2,782,122, 2-19-57, Cl. 99-116.
- Greer, Edith S.: *See—*
- Carper, Harold R. 2,804,893.
- Gillespie, Russell A. 2,804,954.
- Greer, Edward M., to Greer Hydraulics, Inc. Piston accumulator. Re. 24,382, 10-29-57, Cl. 138-31.
- Greer, Edward M., to Greer Hydraulics, Inc. Rotary plumbing switch. 2,786,654, 3-26-57, Cl. 259-30.
- Greer, Edward M., to Greer Hydraulics, Inc. Tubular switch. 2,797,274, 6-25-57, Cl. 200-61.52.
- Greer, Edward M., and J. H. Mercier, to G. M. E. Corp. Locking mechanism. 2,791,455, 5-7-57, Cl. 292-247.
- Greer Hydraulics, Inc.: *See—*
- Greer, Edward M. Re. 24,382.
- Greer, Edward M. 2,786,654.
- Greer, Edward M. 2,797,274.
- Mercier, Jacques H. 2,792,022.
- Greer, J. W., Co.: *See—*
- Feyling, Per L. F. 2,781,833.
- Greer, James B. Internal expanding pipe wrench. 2,811,067, 10-29-57, Cl. 81-72.
- Greer, John H., to L. F. Greer. Process and composition for increasing rate of flow in sewage units. 2,805,989, 9-10-57, Cl. 210-58.
- Greer, Louise P.: *See—*
- Greer, John H. 2,805,989.
- Greer, William D., to Hanes Hosiery Mills Co. Stain or spot removing apparatus. 2,810,216, 10-22-57, Cl. 38-2.
- Greeson, Claret B., and R. W. Bushmeyer, to J. I. Case Co. Disk plow. 2,778,290, 1-22-57, Cl. 97-46.27.
- Greger, Herbert H. Processes for forming high temperature ceramic articles. 2,799,912, 7-23-57, Cl. 25-156.
- Greger, Paul, to Voigtlander, A. G. Photoflash lamp. 2,804,537, 8-27-57, Cl. 240-1.3.
- Gregersen, Peter L. Concentrate classifiers. 2,806,597, 9-17-57, Cl. 209-17.

- Gregg, Elizabeth: *See*—
Gregg, George F., and Caldwell. 2,800,050.
- Gregg, George F., and W. V. Caldwell; said Gregg assor. of 45% to E. Gregg and 5% to C. R. Lyon and R. L. Kohls. Stringed musical instrument. 2,800,050, 7-23-57, Cl. 84-267.
- Gregg, Mahlon H.: *See*—
Decker, Frederick J., and Gregg. 2,795,810.
Decker, Frederick J., and Gregg. 2,797,435.
Decker, Frederick J., and Gregg. 2,807,059.
- Gregg, Robert M., to M. A. Carmody. Semi-trailer tandem axle assembly with one axle steerable. 2,798,734, 7-9-57, Cl. 280-81.
- Greigore, Ferdinand A. A., to Societe des Blancs de Zinc de la Mediterranee, Eugene Chabaury, Pierre Gindre & Cie. Method for producing titanium concentrates through the reducing smelting of titanium containing iron ores. 2,814,557, 11-26-57, Cl. 75-30.
- Greigore, Jacques A., and M. J. Cambornac, to Office National d'Etudes et de Recherches Aeronautiques. Electro-magnetic distance measuring device. 2,779,018, 1-22-57, Cl. 343-12.
- Greigore, Joseph P. Rotary brush. 2,808,602, 10-8-57, Cl. 15-28.
- Gregor, John R., and H. E. Van Orden, to Abrasive and Metal Products Co. Abrasives. 2,811,430, 10-29-57, Cl. 51-298.
- Gregor, Ulrich: *See*—
Schackmann, Heinrich, Gregor, Kayser, and Teworte. 2,793,111.
- Gregory, Alvin R.: *See*—
Currie, John B., and Gregory. 2,808,242.
- Gregory, Arthur S., to Weyerhaeuser Timber Co. Apparatus for continuously applying liquids to the underside of sheet material. 2,790,413, 4-30-57, Cl. 118-315.
- Gregory, Earl F. Conduit bending guide. 2,785,477, 3-19-57, Cl. 33-207.
- Gregory, Edward: *See*—
Kelly, John C. R., Jr., and Gregory. 2,776,886.
- Gregory, George, and I. P. Seegman, to Products Research Co. Polysulfide compositions and cure. 2,787,608, 4-2-57, Cl. 260-79.1.
- Gregory, George P., to Hercules Powder Co. Process of coating paper with gellable water soluble salt of cellulose sulfate and pigment and gelling said coating. 2,776,911, 1-8-57, Cl. 117-62.
- Gregory, George P., to Hercules Powder Co. Process of coating paper with a gellable water-soluble cellulose derivative and pigment and gelling said coating. 2,776,912, 1-8-57, Cl. 117-62.
- Gregory, Hardy E., to The American Brass Co. Process of treating tin bronze. 2,804,408, 8-27-57, Cl. 148-11.5.
- Gregory, Harry R., and M. Kendal, to Coal Industry (Patents) Ltd. Hydraulic powder press. 2,809,395, 10-15-57, Cl. 18-16.
- Gregory Industries, Inc.: *See*—
Eaton, Hugh M., Jr. 2,788,434.
Enright, Maurice A. 2,788,233.
Enright, Maurice A. 2,806,933.
Haynes, Clyde H., and Mowry. 2,790,066.
Kennedy, George E. 2,788,122.
Maras, Joseph. 2,788,435.
Mowry, Lorenz J. 2,816,210.
Shoup, Thomas E., and Sholle. 2,779,859.
Shoup, Thomas E., Sholle, and Mowry. 2,788,433.
Shoup, Thomas E., Sholle, and Mowry. 2,814,716.
- Gregory, James N., and C. A. Yeatman, to Shell Development Co. Drilling apparatus. 2,776,817, 1-8-57, Cl. 255-28.
- Gregory, Leonard A.: *See*—
Gregory, Oscar S., and L. A. 2,802,676.
- Gregory, Orland M. Socket-wrench set. 2,776,589, 1-8-57, Cl. 81-177.
- Gregory, Oscar S., and L. A., 33 1/2% to M. S. and C. Bliss. Safety auxiliary coupling device for tractor trailer. 2,802,676, 8-13-57, Cl. 280-432.
- Gregory, Walter A., to E. I. du Pont de Nemours and Co. Trifluoromethylsulfonylphenyl-dichloracetamido-propandiol. 2,776,992, 1-8-57, Cl. 260-562.
- Gregory, Walter A., to E. I. du Pont de Nemours and Co. Haloacetylbenzenesulfonazides and use thereof. 2,784,137, 3-5-57, Cl. 167-30.
- Gregory, Walter A., to E. I. du Pont de Nemours and Co. Alkyl esters of 1-(p-sulphophenyl)-2-acylamido-1,3-propanediols and their preparation. 2,815,359, 12-3-57, Cl. 260-456.
- Gregory, Walter A., to E. I. du Pont de Nemours and Co. Separation of phenyl-serines. 2,816,915, 12-17-57, Cl. 260-516.
- Gregory, Walter A., R. K. Iler, and R. Schlatter, to E. I. du Pont de Nemours and Co. Oxidation of alkylmercaptacetophenones. 2,802,033, 8-6-57, Cl. 260-592.
- Greider, Clarence E., to Union Carbide and Carbon Corp. Core structure for improving performance of the blown arc. 2,797,351, 6-25-57, Cl. 313-354.
- Greif, Georg, to Hartmann & Braun Aktiengesellschaft. Moving coil system with magnetic core. 2,816,255, 12-10-57, Cl. 317-166.
- Greif, Stanley J. Game device for tick-tack-toe. 2,802,668, 8-13-57, Cl. 273-130.
- Greiff, Trygve: *See*—
Duklaet, Harald. 2,813,923.
- Greig, Harold G., to Radio Corp. of America. Electrostatic printing. 2,811,465, 10-29-57, Cl. 117-17.5.
- Greig, James W., to Woodall Industries, Inc. Trackway and hanger for a sliding door. 2,784,444, 3-12-57, Cl. 16-87.
- Greig, James W., to Woodall Industries, Inc. Sliding door. 2,798,261, 7-9-57, Cl. 20-35.
- Greig, James W., and J. D. Beamer, to Woodall Industries, Inc. Sliding door. 2,784,445, 3-12-57, Cl. 16-105.
- Greig, Edwin E.: *See*—
Moreland, Bernadine S. 2,801,541.
- Greiner, Carl F., to The Buffalo-Springfield Roller Co. Pressure control means for road rollers. 2,775,925, 1-1-57, Cl. 94-50.
- Greiner, Harold F., to Sealor Corp. Sealing assembly. 2,818,285, 12-31-57, Cl. 286-11.15.
- Greiner, John W.: *See*—
Kagan, Fred, Greiner, and Weisblat. 2,805,219.
- Greiner, Joseph J. Hand cultivator and weeding tool. 2,787,945, 4-9-57, Cl. 97-63.
- Greisen, Denver C. Window washing device. 2,814,062, 11-26-57, Cl. 15-245.
- Greist Mfg. Co., The: *See*—
Baehr, Carl G. 2,779,300.
Baehr, Carl G., and Johnson. 2,804,035.
Burgess, Robert W. 2,814,264.
Burgess, Robert W. 2,814,265.
Connors, John. 2,804,037.
- Grekel, Howard and J. J. Hagan, to Pan American Petroleum Corp. Process for purification of oil-and-water-soluble chemicals. 2,810,740, 10-22-57, Cl. 260-450.
- Grela, Milton W., and G. F. Clifford, Jr., to International Equipment Co. Centrifuge for capillary tubes. 2,783,938, 3-5-57, Cl. 233-11.
- Grelat, Maurice, to Ciba Ltd. Process for the manufacturing of anthraquinone vat dyestuffs. 2,790,809, 4-30-57, Cl. 260-310.
- Grelat, Maurice, and W. Kern, to Ciba Ltd. Process for the manufacture of new vat dyestuffs. 2,804,461, 8-27-57, Cl. 260-316.
- Grelat, Maurice, and W. Jenny, to Ciba Ltd. Vat dyestuffs of the anthraquinone series and process for their manufacture. 2,815,347, 12-3-57, Cl. 260-272.
- Greminger, George K., Jr.: *See*—
Weaver, Miles A., Bacon, and Greminger. 2,802,740.
Weaver, Miles A., and Greminger. 2,785,982.
Weaver, Miles A., and Greminger. 2,802,741.
- Greminger, George K., and M. A. Weaver, to The Dow Chemical Co. Leather pasting. 2,805,952, 9-10-57, Cl. 106-141.
- Greminger, George K., Jr., and M. A. Weaver, to The Dow Chemical Co. Thermoplastic compositions of water-soluble cellulose ethers. 2,810,659, 10-22-57, Cl. 106-181.
- Grenier, John E.: *See*—
Goyette, Francis H., and Grenier. 2,803,499.
- Grennan, Percy G., Z. Block, and A. H. Goodman, to DCA Food Industries Inc. Method of making French crullers. 2,796,350, 6-18-57, Cl. 99-92.
- Grénzig, Gerd, to Siemens & Halske Aktiengesellschaft. Device for adjusting the film transport control in motion picture apparatus. 2,793,562, 5-28-57, Cl. 88-18.4.
- Greppin, Ernest H., to Wilmot Castle Co. Surgical lighting system for television and other cameras. 2,809,281, 10-8-57, Cl. 240-1.3.
- Greschickter Fund for Medical Research, Inc.: *See*—
Grogan, Charles H., and Rice. 2,784,199.
- Gresdel, Harold B. Table saw set works. 2,796,092, 6-18-57, Cl. 143-174.
- Gresham, Claude D., and E. Hoffmann, to Tip-Top Products Co. Barrette. 2,778,367, 1-22-57, Cl. 132-48.
- Gresham, Harold E., A. G. Farnsworth, D. W. Hall, and W. M. Doyle, to Rolls-Royce Ltd. Aluminum-base alloy. 2,781,262, 2-12-57, Cl. 75-143.
- Gresham, Harold E., A. G. Farnsworth, and D. W. Hall to Rolls-Royce Ltd. Aluminium base alloy. 2,781,263, 2-12-57, Cl. 75-144.
- Gresham, Harold E., and M. A. Wheeler, to Rolls-Royce Ltd. Nickel chromium base alloy and a stationary turbine blade made therefrom. 2,781,264, 2-12-57, Cl. 75-171.
- Gress, Frank. Safety device for drill bit. 2,801,079, 7-30-57, Cl. 255-61.
- Gretener, Edgar: *See*—
Arni, Johann R. 2,776,339.
Ehrat, Kurt. 2,785,224.
Freys, Hans J. 2,786,958.
- Gretener, Edgar. Positive head for high-intensity arc lamps. 2,788,459, 4-9-57, Cl. 313-36.
- Gretener, Edgar, to Ciba Products Corp. Method for production of lenticulated film. 2,794,739, 6-4-57, Cl. 96-26.
- Gretener, Edgar, and F. Schröter, said Schröter assignor to said Gretener. Secrecy communication system. 2,777,897, 1-15-57, Cl. 179-1.5.
- Greubel, Earl O., Jr.: *See*—
Greubel, Elaine M., and E. O. 2,814,155.
- Greubel, Elaine M., and E. O. Greubel, Jr. Spring toy. 2,814,155, 11-26-57, Cl. 46-1.
- Greune, Heinrich: *See*—
Lakatos, Eduard, Schneglberger, Greune, and Heyna. 2,784,116.

- Grevengood, Paul H.: *See*—
 Kimble, Kenneth G., Gage, and Grevengood. 2,783,774.
 Williams, Murray E., and Grevengood. 2,803,481.
 Williams, Murray E., and Grevengood. 2,804,327.
 Young, Herbert W., and Grevengood. 2,778,665.
 Young, Herbert W., and Grevengood. 2,803,479.
- Grevengood, Paul H., and H. W. Young, to National Brass Co. Latch-supporting clip. 2,779,186, 1-29-57, Cl. 70-451.
- Grever, Charles E., to T. Hogan, Jr. Method for sewing covers on baseballs. 2,800,866, 7-30-57, Cl. 112-262.
- Grewe, Ferdinand: *See*—
 Wegler, Richard, Grewe, and Mehlhose. 2,816,111.
 Wegler, Richard, Grewe, and Regel. 2,784,138.
- Grewe, Rudolf, to Hoffmann-La Roche Inc. Process for the manufacture of octahydroisoquinoline derivatives and acid addition salts thereof. 2,789,111, 4-16-57, Cl. 260-286.
- Grey, Alan L. Combined container cap and crevice brush. 2,785,426, 3-19-57, Cl. 15-138.
- Grey, David S., to Polaroid Corp. Lens-prism optical systems. 2,784,645, 3-12-57, Cl. 88-57.
- Grey, Harlow. Device for cutting hair. 2,782,499, 2-26-57, Cl. 30-31.
- Grey, Hugh M., to Alamance Industries, Inc., and Ridgeview Hosiery Mills Co., Inc. Hosiery construction. 2,817,224, 12-24-57, Cl. 66-172.
- Grey, John C., to Power Jets (Research & Development) Ltd. Thrust bearings. 2,796,305, 6-18-57, Cl. 308-163.
- Grey, John C., to Power Jets (Research & Development) Ltd. Output control for hot air gas turbine plant. 2,806,684, 9-17-57, Cl. 263-19.
- Greydan Mfg. Co.: *See*—
 Lewis, Floyd F., Jr. 2,794,153.
- Grib, Boris F., to Philamon Laboratories, Inc. Tuning forks. 2,806,400, 9-17-57, Cl. 84-457.
- Gribbins, Myers F.: *See*—
 Belasco, Irvin J., Gribbins, Kolterman, and Vaughan. 2,802,307.
- Grice, Joseph B. G. Fishing reel. 2,783,001, 2-26-57, Cl. 242-84.6.
- Gridley, Fred D. Animated display device. 2,787,088, 4-2-57, Cl. 46-226.
- Grieb, Daniel A. Ultrasonic mixing method and apparatus therefor. 2,791,990, 5-14-57, Cl. 123-52.
- Grieb, Daniel A. Ultrasonic mixing method and apparatus. 2,791,994, 5-14-57, Cl. 123-115.
- Grieg, Donald D.: *See*—
 Labin, Emile, and Grieg. 2,802,179.
- Grieg, Donald D., and H. F. Engelmann, to International Telephone and Telegraph Corp. Radio frequency transmission waveguides. 2,800,634, 7-23-57, Cl. 333-84.
- Grieger, Philip F.: *See*—
 Miller, Arthur J., Pitt, and Grieger. 2,780,515.
- Grierson, Raymond H., and C. B. Hess, to Triad Mfg. Co. Display apparatus. 2,784,525, 3-12-57, Cl. 46-122.
- Gries, Otto, to Gries Reproducer Corp. Unitary die cast cup hook. 2,805,460, 9-10-57, Cl. 24-230.5.
- Gries Reproducer Corp.: *See*—
 Gries, Otto. 2,805,460.
- Grieshaber, Emil: *See*—
 Froehlich, Kurt, Grieshaber, and Leichtfuss. 2,810,375.
- Griesbach, Edwin C. Device for the dispersion of gas in a liquid. 2,800,315, 7-23-57, Cl. 261-87.
- Griesbach, Edwin C. Method of alcohol production. 2,802,774, 8-13-57, Cl. 195-15.
- Griesbach, Edwin C. Removal of substances from a culture by the employment of electro-endosmosis. 2,802,776, 8-13-57, Cl. 195-77.
- Grieselhuber, William, to The Western States Machine Co. Horizontally operating loading gate for centrifugal machines. 2,789,730, 4-23-57, Cl. 222-108.
- Grieshaber, Emil, and K. Froehlich, to Nordberg Mfg. Co. Variable retraction valve. 2,792,846, 5-21-57, Cl. 137-543.23.
- Griesinger, John, to W. F. Griesinger. Marking device. 2,799,104, 7-16-57, Cl. 40-2.
- Griesinger, William F.: *See*—
 Griesinger, John. 2,799,104.
- Griest, Raymond H., to Hughes Aircraft Co. Network for damping vibrations of mechanical structures. 2,788,457, 4-9-57, Cl. 310-93.
- Griffeth, Forrest P., and L. Griffith. Floor wax applicator container. 2,809,385, 10-15-57, Cl. 15-124.
- Griffeth, Lena: *See*—
 Griffith, Forrest P., and L. Griffith. 2,809,385.
- Griffin, Bryant W.: *See*—
 Towns, Edward J. 2,814,404.
- Griffin, Charles A., to Morris Motors Ltd. Hydraulically-operated brakes for vehicles. 2,805,737, 9-10-57, Cl. 188-152.
- Griffin, Edward F.: *See*—
 Griffin, John P., and E. F. 2,800,565.
- Griffin, Ira L. Apparatus for sizing yarn. 2,794,236, 6-4-57, Cl. 28-28.
- Griffin, James C.: *See*—
 Frazho, Robert M., and Griffin. 2,817,862.
- Griffin, John P., and E. F. Glass electric water heater. 2,800,565, 7-23-57, Cl. 219-38.
- Griffin, Norman M. Heels for shoes. 2,801,285, 8-13-57, Cl. 36-36.
- Griffin, Oswald E.: *See*—
 Ross, Edgar D., and Griffin. 2,816,396.
- Griffin, Percy W., and D. C. Siewers, to the United States of America as represented by the Secretary of the Army. Mechanically activated source of electrical energy. 2,813,988, 11-19-57, Cl. 310-10.
- Griffin, Roger L., and J. H. Mains, to Swift & Co. Grading apparatus. 2,783,882, 3-5-57, Cl. 209-88.
- Griffin Wheel Co.: *See*—
 Strom, Charles F. 2,812,571.
 Sylvester, Edmund Q. 2,779,075.
 Sylvester, Edmund Q. 2,792,606.
 Sylvester, Edmund Q. 2,794,224.
- Griffin, William C.: *See*—
 Behrens, Robert W., and Griffin. 2,778,814.
- Griffin, William D., to Allied Chemical & Dye Corp. Di-alpha-cumyl peroxide production. 2,802,036, 8-6-57, Cl. 260-610.
- Griffs, Merle V. Automatic sprinkling device. 2,776,860, 1-3-57, Cl. 299-25.
- Griffs, Quentin W. Attachment for garment hangers. 2,813,668, 11-19-57, Cl. 223-98.
- Griffith, Alan A., to Rolls-Royce Ltd. Combustion equipment and nozzle guide vane assembly with cooling of the nozzle guide vanes. 2,780,060, 2-5-57, Cl. 60-39.36.
- Griffith, Arthur C. Merchandise distributing apparatus for warehouses. 2,790,527, 4-30-57, Cl. 193-35.
- Griffith, Ben H., Jr., to Westinghouse Electric Corp. Electrical heating apparatus. 2,781,438, 2-12-57, Cl. 219-10.79.
- Griffith, Benjamin W., Jr., to Continental Electronics Mfg. Co. Dissipative load. 2,809,355, 10-8-57, Cl. 333-22.
- Griffith, Charles G., to Rohr Aircraft Corp. Method and means for removing metal by electric discharges. 2,794,110, 5-28-57, Cl. 219-69.
- Griffith, Clifford J.: *See*—
 Carr, James P., and Griffith. 2,787,403.
- Griffith, Elmer P. Pick-up device for fly swatter handle. 2,806,320, 9-17-57, Cl. 43-137.
- Griffith, James S.: *See*—
 Bradstreet, Samuel W., and Griffith. 2,814,988.
- Griffith, John H., and R. G. Puckett. Snow plow attachment for rotary power mowers. 2,797,502, 7-2-57, Cl. 37-45.
- Griffith, Joseph R. Bolt lock. 2,781,215, 2-12-57, Cl. 292-148.
- Griffith Laboratories, Inc., The: *See*—
 Brown, Andrew G. 2,816,320.
 Hall, Lloyd A. 2,813,032.
- Griffith, Llewellyn B. Milk waste treatment. 2,792,202, 5-14-57, Cl. 261-21.
- Griffith, Paul H.: *See*—
 Elsey, Warren R. 2,795,386.
 Elsey, Warren R. 2,795,387.
 Galloway, Raymond A. 2,798,447.
- Griffith, Raymond C. Reciprocally driven hydraulic device with manually actuated shut-off valve providing fluid by-pass. 2,784,700, 3-12-57, Cl. 121-3.
- Griffith, Raymond C., and G. J. Van Hecke, to Huck Mfg. Co. Fluid actuated pull gun. 2,789,539, 4-23-57, Cl. 121-3.
- Griffith, Richard: *See*—
 Kapp, Roland, and Griffith. 2,816,112.
- Griffith, William F. R. Air conditioning system having a cooling tower or the like. 2,778,203, 1-22-57, Cl. 62-127.
- Griffith, William H.: *See*—
 Selberg, John P., and Griffith. 2,781,108.
- Griffith, Wilson A. Convertible table and easel. 2,798,333, 7-9-57, Cl. 45-131.
- Griffiths, Allan L.: *See*—
 Elder, John A., Jr., and Griffiths. 2,814,420.
- Griffiths, David J.: *See*—
 Kauffman, Harry F., Griffiths, and Mackay. 2,796,331.
- Griffiths, Robert W.: *See*—
 Tomak, Milton E., and Griffiths. 2,785,505.
- Griffiths, Thomas W., to International Telephone and Telegraph Corp. Method of making electrical terminals. 2,784,532, 3-12-57, Cl. 49-81.
- Grigger, John C.: *See*—
 Miller, Henry C., and Grigger. 2,813,825.
- Griggs, William H., to Eastman Kodak Co. Photographic paper having reduced processing curl. 2,784,088, 3-5-57, Cl. 96-85.
- Griggs, William H., and M. Salo, to Eastman Kodak Co. Translucent paper. 2,805,160, 9-3-57, Cl. 96-85.
- Griglak, Stephen I. Instrument for straightening bent lugs of a type casting matrix. 2,791,259, 5-7-57, Cl. 153-48.
- Grigoletti Co., The: *See*—
 Howie, Robert K. 2,815,230.
- Grigsby-Allison Co., Inc.: *See*—
 Allison, Kenneth C. 2,781,144.
- Grigsby, John D. Garment bag. 2,817,432, 12-24-57, Cl. 206-7.
- Grigull, Hans. Sound pressure receiver. 2,806,913, 9-17-57, Cl. 200-61.01.
- Grill, Hans: *See*—
 Stabbecker, Wilhelm, and Grill. 2,778,165.
- Grimal, Adolf. Stereo film cutting device. 2,792,884, 5-21-57, Cl. 164-42.
- Grimble, Donald O. Gunsight attachment. 2,781,583, 2-19-57, Cl. 33-47.
- Grimes, Claude E. Driving apparatus for earth anchors. 2,780,068, 2-5-57, Cl. 61-74.
- Grimes, David D., to the United States of America as represented by the Secretary of the Navy. Monitoring cable release mechanism. 2,786,393, 3-26-57, Cl. 89-1.7.

- Grimes, David D., to the United States of America as represented by the Secretary of the Navy. Rocket grain braking apparatus. 2,798,430, 7-9-57, Cl. 102-49.
- Grimes, David D., and L. W. Bennett, to the United States of America as represented by the Secretary of the Navy. Device for measuring thrust forces developed by rocket motors. 2,790,322, 4-30-57, Cl. 73-116.
- Grimes, David L., to Narmco Sporting Goods Co. Method of making a composite golf shaft for a golf club. 2,809,144, 10-8-57, Cl. 154-83.
- Grimes Mfg. Co.: *See*—
- Greenlee, Paul H., and Rinkinen. 2,797,407.
- Grimes, William W., to The Standard Oil Co. Automatic liquid sampler. 2,807,961, 10-1-57, Cl. 73-422.
- Grimm, George G.: *See*—
- Klein, Arthur L., and Grimm. 2,782,632.
- Grimm, Godfrey: *See*—
- Siegel, Alfred, and Grimm. 2,801,996.
- Grimm, Paul: *See*—
- Hindall, Lawrence D. 2,783,455.
- Grimm, Ralph E., to Vitro Corp. of America. Photo-flash lamp switching system. 2,816,251, 12-10-57, Cl. 315-231.
- Grimme, Walter, and J. Wöllner, to Rheinpreussens Aktiengesellschaft fuhr Bergbau und Chemie, Production of 2-methylol-3-ketobutene(1,2). 2,794,837, 6-4-57, Cl. 260-594.
- Grimmett, Howard L., and E. A. Anderson, to Shell Development Co. Process for extraction of phenol from aqueous mixtures. 2,807,654, 9-24-57, Cl. 260-627.
- Grimsdick, Thomas R.: *See*—
- Fletcher, Arthur H., Corbitt, and Knowles. 2,802,334.
- Grimshaw, Charles S., to General Electric Co. Condition responsive electric switch mechanism. 2,795,674, 6-11-57, Cl. 200-140.
- Grimshaw, Charles S., to General Electric Co. Refrigerator apparatus. 2,811,841, 11-5-57, Cl. 62-117.5.
- Gruier, Gladys M., and C. J. Crane; said Crane assor. to said Gruier. Device for indicating stages of fluid depth of water in wells. 2,791,907, 5-14-57, Cl. 73-309.
- Gringer, Donald, to L. Gringer. Rotatively adjustable scraper. 2,783,537, 3-5-57, Cl. 30-320.
- Gringer, Louis: *See*—
- Gringer, Donald. 2,783,537.
- Grinnell Corp.: *See*—
- Boteler, Henry W. 2,783,746.
- Gustafson, Carl O. 2,782,992.
- Sherburne, Philip C. 2,784,962.
- Williams, James H., and Hall. 2,797,421.
- Grispinoon, Harold. Carton for cans and similar objects. 2,798,603, 7-9-57, Cl. 206-65.
- Grinstead, Robert E.: *See*—
- Bailes, Richard H., Long, and Grinstead. 2,806,764.
- Grinstead, Sanford R., and J. B. Hanner, to Swift & Co. Packaging (vacuum). 2,799,589, 7-16-57, Cl. 99-171.
- Grinyer, Edward G., and F. R. Sibbald, to The Hoover Co. Washing machines. 2,814,191, 11-26-57, Cl. 68-22.
- Grisavage, Frank T. Mirror grinding machine. 2,797,137, 1-29-57, Cl. 51-123.
- Griscom-Russell Co., The: *See*—
- Boni, Frank, Jr. 2,818,193.
- Boni, Frank, Jr., and Gardner. 2,818,197.
- Boni, Frank, Jr., Otten, and Wilson. 2,814,415.
- Bruegger, Ernest. 2,778,610.
- Bruegger, Ernest. 2,796,794.
- Gardner, Karl A. 2,807,445.
- McInnes, Robert L. 2,793,784.
- Otten, Philip S. 2,804,284.
- Schroeder, Robert W. 2,807,074.
- Grisel, Yvan V., to Louis Tschanz Comptoir de la Parfumerie S. A. Device for lipstick holders. 2,780,351, 2-5-57, Cl. 206-56.
- Griset, Ernest J., Jr.: *See*—
- Parker, James P., and Griset. 2,795,925.
- Griset, Ernest J., Jr., to American Enka Corp. Jet suction device for tube spinning. 2,787,152, 4-2-57, Cl. 68-181.
- Griset, Ernest J., Jr., to American Enka Corp. Method for bulking yarn. 2,807,862, 10-1-57, Cl. 28-72.
- Grissinger, George G., and E. W. Stohr, to Westinghouse Electric Corp. Protective apparatus. 2,817,059, 12-17-57, Cl. 324-28.
- Griswold, David E., to D. G. Griswold. Rate of flow control means. 2,803,264, 8-20-57, Cl. 137-501.
- Griswold, David E., to D. G. Griswold. Liquid separation apparatus. 2,805,774, 9-10-57, Cl. 210-110.
- Griswold, Donald G.: *See*—
- Griswold, David E. 2,803,264.
- Griswold, David E. 2,805,774.
- Griswold, Howard L.: *See*—
- Rutherford, Winthrop, and Griswold. 2,803,559.
- Griswold, Stanley M., to B. B. Chemical Co. Methods of making ribbed insoles for welt shoes. 2,790,189, 4-30-57, Cl. 12-146.
- Griswold, Stanley M., to B. B. Chemical Co. Ribbed insoles for welt shoes. 2,805,495, 9-10-57, Cl. 36-22.
- Griswold, Wallace R., to Collins Radio Co. Interlocked detent for shaft positioning apparatus. 2,813,431, 11-19-57, Cl. 74-10.2.
- Groat, Francis P., to The Magee Carpet Co. Method of weaving pile fabrics. 2,800,147, 7-23-57, Cl. 139-89.
- Grob, Benjamin, to Grob, Inc. Roller tool mounting means. 2,807,178, 9-24-57, Cl. 80-16.
- Grob, Inc.: *See*—
- Grob, Benjamin. 2,807,178.
- Grobecker, Hugo H., to Cleaver-Brooks Co. Belling and beading tool. 2,804,119, 8-27-57, Cl. 153-79.
- Grober, Johann C.: *See*—
- Pleuger, Friedrich W., and Grober. 2,814,253.
- Grobizna, Nicholas. Filing device. 2,806,609, 9-17-57, Cl. 211-90.
- Grobl, Jon E., to Friden Calculating Machine Co., Inc. Tens-transfer control means in a decimal elimination mechanism. 2,797,869, 7-2-57, Cl. 235-63.
- Groboski, Joseph G. Rain-shade hard-top visor. 2,799,529, 7-16-57, Cl. 296-44.
- Grodtt, William F., and C. S. Miller, to Arrowsmith Tool & Die Corp. Combination latch and dead bolt. 2,794,663, 6-4-57, Cl. 292-67.
- Groehn, Harvey G. Worktable and adjustable fence for small power tools. 2,799,305, 7-16-57, Cl. 144-253.
- Groen, Fred H., Jr., to Groen Mfg. Co. Strainer assembly for kettles. 2,792,941, 5-21-57, Cl. 210-238.
- Groen Mfg. Co.: *See*—
- Groen, Fred H., Jr. 2,792,941.
- Groen, William, to Bendix Aviation Corp. Hydraulic seal. 2,784,013, 3-5-57, Cl. 286-26.
- Groendijk, Hendrik: *See*—
- Diemer, Gesinus, Knol, Jonker, Versnel, and Groendijk. 2,813,222.
- Groenydyke, Goethe M., to Socony Mobil Oil Co., Inc. Polyphase oscillator independently variable in frequency and phase. 2,791,694, 5-7-57, Cl. 250-36.
- Groenhof, Jacobus, and J. H. Bockmeulen, to Shell Development Co. Apparatus for indicating or measuring the flow of liquid through a conduit. 2,777,325, 1-15-57, Cl. 73-204.
- Groff, Dallas V.: *See*—
- Correll, William L. 2,811,181.
- Groff, Frazier, and P. B. Potter, to Union Carbide and Carbon Corp. Polystyrene phonograph record composition and method of making same. 2,779,744, 1-29-57, Cl. 260-28.5.
- Groff, Frazier, and R. K. Dearing, to Union Carbide and Carbon Corp. Stabilization of synthetic rubber-modified polystyrenes with aryl secondary amines and dithiocarbamic acid salts. 2,789,962, 4-23-57, Cl. 260-45.5.
- Groff, Frazier, and C. F. Martino, to Union Carbide Corp. Thermoplastic laminate. 2,805,181, 9-3-57, Cl. 154-43.
- Grogan, Charles H.: *See*—
- Rice, Leonard M., and Grogan. 2,786,834.
- Rice, Leonard M., and Grogan. 2,803,631.
- Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research, Inc. Endoxy isoinolindole derivatives and salts thereof. 2,784,199, 3-5-57, Cl. 260-319.
- Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research, Inc. Derivatives of 3-azabicycloheptane. 2,802,003, 8-6-57, Cl. 260-247.5.
- Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research, Inc. Derivatives of 3-aza-bicyclo (3:2:0) heptane-2,4-dione. 2,802,004, 8-6-57, Cl. 260-247.5.
- Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research, Inc. Bis-isoinolindole quaternary salts. 2,807,624, 9-24-57, Cl. 260-319.
- Grogan, John E., to The Fuller Brush Co. Push broom. 2,799,037, 7-16-57, Cl. 15-172.
- Grogg, William, Jr., to The Quaker Oats Co. Test cell for continuously determining moisture content in comminuted materials. 2,788,487, 4-9-57, Cl. 324-61.
- Grohs, Felix: *See*—
- Cuscolea, Otwin, Grohs, Kuhnelt, and Rosner. 2,803,534.
- Grohsgal, Alexis C., to Cable Electric Products, Inc. Door chime and viewer. 2,782,753, 2-26-57, Cl. 116-169.
- Grommons, Glenn I. Flatiron stands. 2,791,390, 5-7-57, Cl. 248-117.2.
- Grondona, John L. Store. 2,791,291, 5-7-57, Cl. 186-1.
- Grondzik, Chester A., to Bobchet Industries, Inc. Holding device. 2,785,919, 3-19-57, Cl. 294-5.5.
- Gronck, John. Fishing line supporting clips. 2,791,054, 5-7-57, Cl. 43-25.2.
- Groneman, Garth S., to North American Aviation, Inc. Power operated screw driving arrangement. 2,777,484, 1-15-57, Cl. 144-32.
- Gronemeyer, Herbert W., to Armco Steel Corp. Ball separating means for ball rolling machines. 2,801,457, 8-6-57, Cl. 29-66.
- Gronemeyer, Herbert W., to Armco Steel Corp. Continuous method and apparatus for forming balls. 2,801,556, 8-6-57, Cl. 80-24.
- Gronewold, Arthur E., to Richardson Rod & Reel Co. Fishing rod. 2,795,073, 6-11-57, Cl. 43-23.
- Gronlund, Ernst H. Boat trailer. 2,788,146, 4-9-57, Cl. 214-506.
- Grönlund, Jonas E. Railroad tie construction. 2,779,543, 1-29-57, Cl. 238-86.
- Gronn, Karl. Clamp for rails. 2,816,715, 12-17-57, Cl. 238-349.
- Groom, Walter K., to Allen & Hanburys Ltd. Dermatomes. 2,787,272, 4-2-57, Cl. 128-305.5.
- Grooss, Frank A.: *See*—
- Corser, John, and Grooss. 2,804,702.
- Groover, Robert W., to Bethlehem Steel Co. Protective package for the shipment of rods. 2,780,354, 2-5-57, Cl. 206-65.

- Groov-Pin Corp.: *See*—
 Bosse, Robert W. 2,817,987.
 Braendel, Felix W. 2,795,221.
 Retterath, Valentin. 2,800,820.
- Gros, Anatole A. Joint pointer for masonry work. 2,798,374, 7-9-57, Cl. 72-138.
- Gros, Hermann, to Maybach-Motorenbau G. m. b. H. Control mechanism for a power transmission, including a hydraulic torque converter and a reversing gear. 2,787,172, 4-2-57, Cl. 74-732.
- Grosberg, Sanford H.: *See*—
 Harger, Michael H. 2,796,737.
- Grosbois, Lucien, to Société Nouvelle des Anciens Etablissements F. Wenger, and Etablissements Vidus-Huet & Cie. Filling heads for bottling machine. 2,794,453, 6-4-57, Cl. 141-39.
- Grosgebauer, C. A.: *See*—
 Hugg, Ralph W. 2,796,079.
- Grosch, Benjamin F. Spin casting reel. 2,798,679, 7-9-57, Cl. 242-84.21.
- Gross, Albert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of per-fatty acids. 2,806,045, 9-10-57, Cl. 260-406.
- Gross, Bernard, and J. C. Yager, to Rohr Aircraft Corp. Electrical testing instrument. 2,778,995, 1-22-57, Cl. 324-64.
- Gross, Court, to Primus Motor. Two-stroke engine with crankcase scavenging and tubular slide valve control. 2,814,282, 11-26-57, Cl. 123-73.
- Gross, Frank E. Adjustable coat hanger. 2,791,361, 5-7-57, Cl. 223-94.
- Gross, Frank E. Inflatable coat hanger. 2,813,667, 11-19-57, Cl. 223-92.
- Gross, Franz: *See*—
 Schaaf, Fritz, and Gross. 2,791,534.
- Gross, Fritz A., W. M. Hall, and H. M. Hart, to Raytheon Mfg. Co. Radar relay links. 2,795,780, 6-11-57, Cl. 343-6.
- Gross, Herbert G., to Raytheon Mfg. Co. Insulated ceramic conductors. 2,791,522, 5-7-57, Cl. 117-216.
- Gross, Irving. Game net. 2,817,526, 12-24-57, Cl. 273-30.
- Gross, James A.: *See*—
 Sullivan, Thomas J., Milligan, and Gross. 2,799,556.
 Sullivan, Thomas J., Milligan, and Gross. 2,799,559.
- Gross, Jean, K. Menzi, and J. Wegmann, to Ciba Ltd. Process for dyeing cellulosic materials with metallizable direct dye-stuffs and anions of a polyphosphoric acid. 2,785,040, 3-12-57, Cl. 8-42.
- Gross, John G., and H. Gill, to The Cincinnati Milling Machine Co. Electrical discharge cutting machine. 2,778,925, 1-22-57, Cl. 219-69.
- Gross, John H.: *See*—
 Gloss, Gunter H., and Gross. 2,780,522.
 Gloss, Gunter H., and Gross. 2,780,524.
- Gross, John H., to International Minerals & Chemical Corp. Process for the preparation of ammonium fluoride. 2,816,818, 12-17-57, Cl. 23-88.
- Gross, Louis O. Metal backed print and method for making same. 2,791,528, 5-7-57, Cl. 154-129.
- Gross, Maurice J., to Barnes Drill Co. Honing machine and sizing mechanism therefor. 2,787,865, 4-9-57, Cl. 51-34.
- Gross, Maurice J., to Barnes Drill Co. Plug type gage for honing machines. 2,787,866, 4-9-57, Cl. 51-34.
- Gross, Philipp, and D. L. Levi, to Fulmer Research Institute Ltd. Production and purification of titanium. 2,785,973, 3-19-57, Cl. 75-84.4.
- Gross, Ralph H. Nutrition aid. 2,816,854, 12-17-57, Cl. 167-81.
- Gross, Simon: *See*—
 Cooper, John R. 2,795,690.
- Gross, Thomas A. O., to Raytheon Mfg. Co. Radiation monitors. 2,789,233, 4-16-57, Cl. 250-83.6.
- Gross, Victor L.: *See*—
 Sindelar, William P. 2,783,700.
- Gross, William E. Canister spring. 2,798,718, 7-9-57, Cl. 267-1.
- Grossberg, Arnold L., and A. W. Pryor, to California Research Corp. Liquid control for a fractionating column. 2,795,536, 6-11-57, Cl. 202-39.
- Grosse, Aristid V., and E. A. Nodiff, to The Welsbach Corp. Processes for the catalytic purification of oxygen employing Os. 2,809,881, 10-15-57, Cl. 23-221.
- Grosse, Aristid V., and E. A. Nodiff, to The Welsbach Corp. Processes for catalytic purification of oxygen employing Os and activated alumina catalysts. 2,809,882, 10-15-57, Cl. 23-221.
- Grosse, Kenneth E.: *See*—
 Petry, Stanton H., and Grosse. 2,800,834.
- Grosse-Lohmann, Ralph. Critical aerodynamic limit indicator. 2,796,763, 6-25-57, Cl. 73-178.
- Grossen, Harry W.: *See*—
 Kraft, George H., Grossen, and Bell. 2,790,287.
- Grossenbacher, Henry E.: *See*—
 Grossenbacher, Robert H. and H. E. 2,789,324.
- Grossenbacher, Robert H. and H. E. Metal awning construction. 2,789,324, 4-23-57, Cl. 20-57.5.
- Grosser, Frederick, to General Aniline & Film Corp. Catalyst for the production of glycol and polyglycol ethers of isocyclic hydroxyl compounds. 2,815,332, 12-3-57, Cl. 252-430.
- Grosset, Louis E. Universal work support. 2,818,092, 12-31-57, Cl. 143-132.
- Grossglockner-Hochalpenstrassen Aktiengesellschaft: *See*—
 Wallack, Franz F. 2,794,271.
- Grossi, Louis. Therapeutic device. 2,779,328, 1-29-57, Cl. 128-24.1.
- Grossi, Louis, and A. V. E. C. Guilbert. Electrically heated vibratory medicament applicator. 2,787,998, 4-9-57, Cl. 128-24.1.
- Grosskinsky, Otto, and W. Thürauf. Process of producing polycarboxylic acids. 2,785,198, 3-12-57, Cl. 260-525.
- Grosskopf, Herbert, and H. Diestel, to Schall-Technik Dr. Ing. Karl Schoeps. Microphone arrangement. 2,787,671, 4-2-57, Cl. 179-111.
- Grosskopf, Karl, to Dr. O. H. Drager. Detection of hydrocarbons. 2,800,460, 7-23-57, Cl. 252-408.
- Grossman, Arnold R. Display receptacle. 2,813,653, 11-19-57, Cl. 220-41.
- Grossman, Morris: *See*—
 Tandler, William S., and Grossman. 2,807,175.
- Grossman, Paul R., and T. S. Sprague, to The Babcock & Wilcox Co. Method of and apparatus for gasification of pulverized coal. 2,801,158, 7-30-57, Cl. 48-78.
- Grossman, Ralph E.: *See*—
 Dorn, Herman W., and Grossman. 2,791,353.
- Grossmann, Hans: *See*—
 Brentano, Willy, Grossmann, and Muller. 2,776,957.
- Grossmann, Paul, to Materiel Industriel S. A., and Construc-tions Mecaniques S. A. Railway track horizontal gauge. 2,814,119, 11-26-57, Cl. 33-144.
- Grossmann, Paul, and W. Jenny, to Ciba Ltd. New anthrone derivatives and process for their manufacture. 2,805,225, 9-3-57, Cl. 260-298.
- Grossnickle, Myron D.: *See*—
 Thompson, William M., Grossnickle, and Seidel. 2,808,362.
- Grosz, Edward. Container with pivoted closure. 2,797,015, 6-25-57, Cl. 220-30.
- Grosz, Frank A., and G. C. Elmer. Cabinet for bakery products. 2,784,662, 3-12-57, Cl. 99-271.
- Grosz, Richard T. Photographic lighting assembly. 2,802,094, 8-6-57, Cl. 240-1.3.
- Grosz, Stephen J., and E. K. Dreschel, to American Cyanamid Co. Method of preparing a polyurethane. 2,802,022, 8-6-57, Cl. 260-471.
- Grote, Irvine W., to The Chattanooga Medicine Co. Method of making dihydroxy aluminum carbonate compounds. 2,783,124, 2-26-57, Cl. 23-14.
- Grote, Irvine W., to Chattanooga Medicine Co. Antacid and method of making the same. 2,783,127, 2-26-57, Cl. 23-61.
- Grote, Irvine W., to Chattanooga Medicine Co. Isomeric aluminum hydroxy carbonates as antacids. 2,783,179, 2-26-57, Cl. 167-72.
- Grote Mfg. Co., Inc. The: *See*—
 Richardson, Henry M., and Larson. 2,775,911.
- Groth, Harold N.: *See*—
 Dattman, Lewis R., and Groth. 2,802,115.
- Groth, Willard B.: *See*—
 Breed, Roland N., Groth, Irwin, Kille, and Riggs. 2,780,410.
- Grotnes, Carl C., to Grotnes Machine Works, Inc. Apparatus for forming barrel seams. 2,779,301, 1-29-57, Cl. 113-23.
- Grotnes, Carl C., to Grotnes Machine Works, Inc. Apparatus for opening a hollow flattened cylindrical body. 2,812,002, 11-5-57, Cl. 153-32.
- Grotnes Machine Works, Inc.: *See*—
 Grotnes, Carl C. 2,779,301.
 Grotnes, Carl C. 2,812,002.
- Grotta, Stephen R., to the United States of America as represented by the Secretary of the Navy. Fuel supply control. 2,791,468, 5-7-57, Cl. 299-114.
- Grotz, Leonard C.: *See*—
 Klein, Jerome G., Meyer, and Grotz. 2,815,333.
- Ground Explorations Ltd.: *See*—
 Button, Sidney J. 2,810,289.
- Group, Seymour, and E. H. Wegman, to The S. J. Wegman Co. Rotary disc type grass cutter. 2,814,924, 12-3-57, Cl. 56-25.4.
- Grove, Donald E. Car parking apparatus. 2,788,905, 4-16-57, Cl. 214-95.
- Grove, George L.: *See*—
 Gosney, Ernest, Jr., and Grove. 2,802,312.
- Grove, Marvin H., and A. U. Bryant, to Walworth Co. Valve construction. 2,796,230, 6-18-57, Cl. 251-172.
- Grove Silk Co.: *See*—
 Stuewer, Reinhold F. 2,796,655.
 Stuewer, Reinhold F. 2,807,073.
- Grove Valve and Regulator Co.: *See*—
 Bryant, Austin U. 2,777,664.
 Bryant, Austin U. 2,777,937.
- Grovenmiller, Dale A., and W. B. Landgraf, to General Electric Co. Lamp base. 2,805,406, 9-3-57, Cl. 339-145.
- Grover, Anna M.: *See*—
 Grover, Ray. 2,808,245.
- Grover, Donald P. Rotary toothbrush with lip guard. 2,798,237, 7-9-57, Cl. 15-23.
- Grover, Donald P., to the United States of America as represented by the Secretary of the Army. Drum cooling device. 2,801,575, 8-6-57, Cl. 89-14.
- Grover, Donald P., and B. Stevens, to the United States of America as represented by the Secretary of the Army. Cam operated extractor. 2,817,173, 12-24-57, Cl. 42-68.
- Grover, Philip D., to Grover Products Corp. Snap switch. 2,788,409, 4-9-57, Cl. 200-67.

- Grover Products Co.: *See*—
 Gomez, Laurence B. 2,793,651.
 Grover Products Corp.: *See*—
 Grover, Philip D. 2,788,409.
 Grover, Ray, deceased, by A. M. Grover, executrix. Fuel feed devices for internal combustion engines. 2,808,245, 10-1-57, Cl. 261-51.
 Grover, Russell C., and F. W. Silva. Apparatus for building walls. 2,775,807, 1-1-57, Cl. 25-131.
 Grover Tank & Mfg. Co., Inc.: *See*—
 Meyer, Amel R. 2,817,748.
 Groves, Kenneth D., to American Viscose Corp. Phonograph record. 2,787,602, 4-2-57, Cl. 260-17.
 Grow, Harlow B. Tea bag or similar container. 2,801,736, 8-6-57, Cl. 206-0.5.
 Grow, Harold J., J. H. Prichard, and W. D. Paist, to Celanese Corp. of America. Treatment of polyethylene. 2,795,820, 6-18-57, Cl. 18-48.
 Grow, Harold J., and W. D. Paist, to Celanese Corp. of America. Sheet extrusion apparatus. 2,799,896, 7-23-57, Cl. 18-12.
 Groya, Herman F. Display structure. 2,788,189, 4-9-57, Cl. 248-152.
 Grözinger, Hans R.: *See*—
 Göschel, Karl-Heinz R., and Grözinger. 2,779,320.
 Göschel, Karl-Heinz R., and Grözinger. 2,803,235.
 Grubb, Gunnar A., to Aktiebolaget Elektrolux. Cooling unit for absorption refrigeration. 2,791,892, 5-14-57, Cl. 62-119.5.
 Grubb, Willard T., Jr., to General Electric Co. Neutralization of alkali metal hydroxide catalysts in organopolysiloxanes. 2,789,109, 4-16-57, Cl. 260-46.5.
 Gruber, Arthur L. Baby bottle holder. 2,803,417, 8-20-57, Cl. 248-103.
 Gruber, Arthur W.: *See*—
 Garrison, Van Buskirk, Gruber, and Kiernan. 2,812,174.
 Gruber, Elbert E.: *See*—
 Warner, Walter C., and Gruber. 2,786,044.
 Gruber, Eli H. Beach chairs. 2,782,838, 2-26-57, Cl. 155-153.
 Gruber, Helmut and W. Pieper, to W. C. Heraeus G. m. b. H. Arc-melting furnace for high-melting metals. 2,818,461, 12-31-57, Cl. 13-31.
 Gruber, Ludwig. Closure for containers. 2,808,169, 10-1-57, Cl. 215-74.
 Gruber, Max H., and J. A. Fillettaz, to Dr. R. Maag A.-G., Chemische Fabrik Dilsdorf. Treatment of benzene hexachloride. 2,812,368, 11-5-57, Cl. 260-648.
 Gruber, Warren M., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,798,157, 7-2-57, Cl. 250-36.
 Gruber, Warren M., to Tinius Olson Testing Machine Co. Recording system for rotor unbalance measuring apparatus. 2,817,971, 12-31-57, Cl. 73-462.
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 Gruber, Willy. Repair patches for rubber tires and inner tubes. 2,803,283, 8-20-57, Cl. 152-367.
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 Grudin, Daniel, to Stroukoff Aircraft Corp. Retractable tandem wheel landing gear. 2,777,652, 1-15-57, Cl. 244-104.
 Gruen, Henry. Non-slip floor surface for bathtubs and shower stalls. 2,809,380, 10-15-57, Cl. 4-173.
 Gruen, Wolf J., to General Electric Co. Combined automatic gain control and synchronizing signal separation circuits. 2,810,783, 10-22-57, Cl. 178-7.3.
 Gruender, Oscar C., to Nordberg Mfg. Co. Pneumatic release for gyratory crushers. 2,787,425, 4-2-57, Cl. 241-290.
 Gruender, Oscar C., to Nordberg Mfg. Co. Lubrication means for gyratory crushers and feed mechanism therefor. 2,814,450, 11-26-57, Cl. 241-202.
 Gruener, Hermann, to Underwood Corp. Combined paper feed and function control mechanism. 2,812,131, 11-5-57, Cl. 235-51.
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 Grumbach, Henry, 2nd, deceased; L. H. Grumbach, administratrix. Multiple selective ball point pen. 2,790,422, 4-30-57, Cl. 120-42.13.
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- Guérin, Jean, to Societe d'Electro-Chimie, d'Electro-Metallurgie, et des Acieries Electriques d'Ugine. Method of regenerating activated alumina containing absorbed moisture and chlorine. 2,786,816, 3-26-57, Cl. 252—411.
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- Guernsey, Glen A., and J. C. Garen, to Globe-Union Inc. Ignition apparatus. 2,802,970, 8-13-57, Cl. 317—99.
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- Guerriero, Arcangela: *See*—
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- Guest, Arthur J., and W. H. Holt. Direction signalling device for cycles. 2,790,157, 4-23-57, Cl. 340—134.
- Guest, Howard R.: *See*—
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- Guest, Howard R., and B. W. Kiff, to Union Carbide Corp. Stabilization of 3,4-dihydro-2-formyl-2H-pyran. 2,800,488, 7-23-57, Cl. 260—345-9.
- Guest, Howard R., and H. A. Stansbury, Jr., to Union Carbide and Carbon Corp. Production of haloacetals. 2,802,879, 8-13-57, Cl. 260—615.
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- Guest, Lawrence V., to Birmingham Sound Reproducers Ltd. Sound reproducing apparatus. 2,794,647, 6-4-57, Cl. 274—10.
- Gust, Maurice C. Ventilated automobile seat pad. 2,791,956, 5-14-57, Cl. 98—2.
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- Guggenheim, Max M., to National Equipment Corp. Valves for glue applicators for carton sealing machines. 2,796,847, 6-25-57, Cl. 118—411.
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- Gugger, Rene: *See*—
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- Guggi, Walter B., to General Motors Corp. Electrical testing apparatus. 2,788,486, 4-9-57, Cl. 324—51.
- Guggi, Walter B., to Westinghouse Electric Corp. Motor control circuit. 2,809,339, 10-8-57, Cl. 318—327.
- Guggi, Walter B., to Westinghouse Electric Corp. Transistor amplifier. 2,813,244, 11-12-57, Cl. 323—22.
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- Guida, Arthur: *See*—
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- Guida, Gene F. and A. Watch regulating device. 2,782,591, 2-26-57, Cl. 58—111.
- Guidobaldi, Francois. Road vehicle tilting inwardly in curves. 2,791,440, 5-7-57, Cl. 280—112.
- Guigon, Jean, J. Carabasse, J. Salmon, E. Matis, and C. Nobecourt, to Etablissement Public dite: Houillères Du Bassin Du Nord et du Pas-de-Calais. Apparatus for treating agglomerates. 2,805,848, 9-10-57, Cl. 263—28.
- Guilbaud, Georges: *See*—
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- Guillaume, Franck: *See*—
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- Guilleminot, Roger, and D. Carlier. Packaging machine. 2,811,916, 11-5-57, Cl. 100—15.
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- Guillon, Henri, to Office Central De Chauffage Rationnelle. Method for the gasification of heavy fuel oils. 2,813,784, 11-19-57, Cl. 48—212.
- Guillot, Burton A. Casing scraper. 2,811,210, 10-29-57, Cl. 166—173.
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- Guimont, Nelson J. Automatic door release mechanism. 2,807,460, 9-24-57, Cl. 268—74.
- Guin y Toussaint, Raul. Musical spoon. 2,800,825, 7-30-57, Cl. 84—94.
- Guinane, James P., to Herculox Loose Leaf Corp. Locking devices. 2,815,971, 12-10-57, Cl. 287—53.
- Guinotte, Jules B. Fly trap. 2,809,465, 10-15-57, Cl. 43—122.
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- Gulbrandsen, Helge, to United Shoe Machinery Corp. Sole pressing pads. 2,810,142, 10-22-57, Cl. 12—38.
- Guldjord, Oscar M. Combination drinking fountain and faucet. 2,789,864, 4-23-57, Cl. 299—10.
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 Gundlach, Robert W., to The Haloid Co. Apparatus for developing a powder image on a xerographic plate. 2,777,418, 1-15-57, Cl. 118-51.
 Gundlach, Robert W., to The Haloid Co. Xerographic charging device. 2,790,082, 4-23-57, Cl. 250-49.5.
 Gundlach, Robert W., to The Haloid Co. Multiple copy transfer process and apparatus. 2,812,709, 11-12-57, Cl. 101-426.
 Gundlach, T. J., Corp.: *See*—
 Gundlach, Theodore J. 2,777,333.
 Gundlach, Theodore J., to T. J. Gundlach Corp. Timing gear-train assemblies. 2,777,333, 1-15-57, Cl. 74-392.
 Gundling, Cyril A. Dispenser for tongue depressors. 2,803,378, 8-20-57, Cl. 221-232.
 Gundling, Sebastian. Pipe organ valve action. 2,805,595, 9-10-57, Cl. 84-339.
 Gunite Concrete and Construction Co.: *See*—
 Henderson, Harvey L., and Greene. 2,811,989.
 Gunn, David L., to Westinghouse Air Brake Co. Vehicle reporting systems. 2,790,071, 4-23-57, Cl. 246-124.
 Gunnard, Johnson L. Folding boat trailer. 2,818,268, 12-31-57, Cl. 280-42.
 Gunnerson, Arthur R. Hacksaw frame with angularly adjustable handle. 2,782,821, 2-26-57, Cl. 145-34.
 Guinness, Robert C., to Standard Oil Co. Fractional crystallization and crystal washing. 2,780,663, 2-5-57, Cl. 260-674.
 Gunning, Leslie E. Furrow damming implements. 2,780,975, 2-12-57, Cl. 97-55.
 Gunselman, Wayne H., to Reliance Electric and Engineering Co. Cast rotor and method. 2,784,333, 3-5-57, Cl. 310-211.
 Gunst, Raymond: *See*—
 Liechti, Hans W., and Gunst. 2,777,840.
 Gunst, Raymond, to Ciba Ltd. Monoazo dyestuffs. 2,799,671, 7-16-57, Cl. 260-157.
 Gunst, Raymond, to Ciba Ltd. Monoazo dyestuffs. 2,814,616, 11-26-57, Cl. 260-193.
 Gunter, Ernst: *See*—
 Schmetz, Ferdinand B., Günter, and Kensch. 2,817,434.
 Gunter, Roy C., Jr., and R. E. Haynes, to American Optical Co. Means and method of testing lenses. 2,803,995, 8-27-57, Cl. 88-56.
 Gunterman, Charles W. Fish lure. 2,796,693, 6-25-57, Cl. 43-42.09.
 Gunther, Arnold. Process for reclaiming rubber. 2,794,057, 5-28-57, Cl. 260-714.
 Gunther, Hans: *See*—
 Baasner, Wilhelm, Gunther, and Huber. 2,794,365.
 Günther, Hans, to Kraftanlagen A. G. Process for arc welding of circular seams on pipes in substantially horizontal position. 2,783,359, 2-26-57, Cl. 219-61.
 Günther, Hermann, and H. Meyer. Color-fastness testing. 2,804,770, 9-3-57, Cl. 73-150.
 Gunther, Joseph R., and A. Marcoux, to Douglas Aircraft Co., Inc. Dimple die heater. 2,783,363, 2-26-57, Cl. 219-149.
 Günzl, Herbert C. Heel fastening means for ski bindings. 2,798,728, 7-9-57, Cl. 280-11.35.
 Guppy, Reginald E. Photographic apparatus. 2,786,384, 3-26-57, Cl. 88-24.
 Guptill, Frank E.: *See*—
 Strasser, Dale M., Guptill, and Marion. 2,809,104.
 Gurewitsch, Anatole M., to General Electric Co. Resonator structure. 2,786,982, 3-26-57, Cl. 333-82.
 Gurewitsch, Anatole M., and W. C. Dunlap, Jr., to General Electric Co. Temperature measuring and controlling apparatus. 2,792,484, 5-14-57, Cl. 219-20.
 Gurley, Grey M.: *See*—
 Carroll, Fred M., and Gurley. 2,802,413.
 Gurley, Grey M., and F. M. Carroll, to International Business Machines Corp. Means for sensing and correcting web curling. 2,806,412, 9-17-57, Cl. 92-70.
 Gurley, Grey M., and F. M. Carroll, to International Business Machines Corp. Web feeding apparatus. 2,814,486, 11-26-57, Cl. 271-2.3.

- Gurley, W. & L. E.: See—
Loeck, Günther F. E. 2,804,802.
- Gurney, David M., to General Motors Corp. Direction signal. 2,817,728, 12-24-57, Cl. 200—61.35.
- Gurries, Henry A. Shelf construction. 2,788,949, 4-16-57, Cl. 248—242.
- Gurries Mfg. Co.: See—
Curlett, John. 2,779,346.
Curlett, John. 2,804,883.
Gurries, Raymond A., and Curlett. 2,778,130.
Hobday, Harold W. 2,792,651.
- Gurries, Raymond A., and J. Curlett, to Gurries Mfg. Co. Level control system for bulldozer blades. 2,778,130, 1-22-57, Cl. 37—144.
- Gurski, Walter: See—
Dingman, Thomas C., and Gurski. 2,776,161.
- Gurton, Owen A. J.: See—
Maxwell, William, and Gurton. 2,789,043.
- Gusching, Nagel V.: See—
Sassen, Bernard, and Gusching. 2,782,651.
- Gussack, Milton P., to Grant Pulley & Hardware Corp. Shock lock block. 2,801,887, 8-6-57, Cl. 308—3.8.
- Gussack, Nathan, to Grant Pulley & Hardware Corp. Door hangers and track therefor. 2,783,493, 3-5-57, Cl. 16—97.
- Gussack, Nathan, to Grant Pulley & Hardware Corp. Adjustable door tracks for multiple sliding doors and separable suspension device therefor. 2,796,626, 6-25-57, Cl. 16—94.
- Gussack, Nathan A., to Grant Pulley & Hardware Corp. Horizontal pivot slide. 2,812,067, 11-5-57, Cl. 211—46.
- Gussack, Nathan A., to Grant Pulley & Hardware Corp. Permanent ball retainer for sliding members. 2,812,222, 11-5-57, Cl. 308—6.
- Gussack, Seymour L., to Grant Pulley & Hardware Corp. Pivoting slide. 2,788,253, 4-9-57, Cl. 312—323.
- Gussow, William A.: See—
Curtis, Thomas E., and Gussow. 2,803,967.
- Gussow, William A., to S & C Electric Co. Switch construction. 2,818,474, 12-31-57, Cl. 200—48.
- Gust, Alex A. Automobile door locking and unlocking means. 2,795,127, 6-11-57, Cl. 70—264.
- Gustafson, Carl H. E., and A. O. J. Larborn, to Aktiebolaget Volvo. Devices for the transmission of power from the engine of a motor vehicle to the driven wheels thereof. 2,776,556, 1-8-57, Cl. 64—27.
- Gustafson, Carl O., to Grinnell Corp. Humidifier system. 2,782,992, 2-26-57, Cl. 236—44.
- Gustafson, Gilbert E., and C. J. Steinke, to Zenith Radio Corp. Television receiver control arrangement. 2,796,601, 6-18-57, Cl. 340—367.
- Gustafsson, Amuth. Cigarette smoking device. 2,788,005, 4-9-57, Cl. 131—175.
- Gustafsson, Nils, to Kooperativa Forbundet Ekonomisk Forening. Refrigerating chamber and freezing box arrangements. 2,788,644, 4-16-57, Cl. 62—116.
- Gustan, Ben: See—
Crocker, Warren E. 2,801,427.
- Gustin-Bacon Mfg. Co.: See—
Stephens, Joseph F. 2,784,129.
Stephens, Joseph F. 2,803,043.
Stephens, Joseph F. 2,814,832.
Stephens, Joseph F., Coble, and Sowers. 2,804,143.
Stephens, Joseph F., and Kerr. 2,778,405.
Stephens, Joseph F., and Kerr. 2,778,759.
Stephens, Joseph F., and Kerr. 2,790,464.
- Gustia, Max. Shoes. 2,813,355, 11-19-57, Cl. 36—2.5.
- Gustus, Edwin L., to R. J. Strassenburgh Co. Polyamine sulfonic acid type adsorption compound. 2,811,492, 10-29-57, Cl. 260—2.1.
- Gustus, Edwin L., and L. L. Yaeger, to Tru-Scale, Inc. Dimensionally stable sheet material for reproduction purposes. 2,781,287, 2-12-57, Cl. 154—46.
- Gutcho, Marcia: See—
Laufer, Louis, and Gutcho. 2,799,670.
- Gutehoffnungshutte Oberhausen Aktiengesellschaft: See—
Jacobi, Oskar, and Muller. 2,780,067.
Köpke, Günter, and Fuchs. 2,797,994.
- Guterman, Sadia S., to Raytheon Mfg. Co. Magnetic control systems. 2,773,006, 1-15-57, Cl. 340—174.
- Guth, David C., and E. J. Kerle, to American Cyanamid Co. Compositions comprising an acrylonitrile polymer and an N-(2-cyanoethyl)acrylamide. 2,798,059, 7-2-57, Cl. 260—32.6.
- Guth, David C., and F. C. Schaefer, to American Cyanamid Co. Art of producing copolymers of cyanoalkyl vinyl ethers. 2,813,847, 11-19-57, Cl. 260—80.5.
- Guth, Edwin F. Ceiling illumination. 2,803,741, 8-20-57, Cl. 240—9.
- Guth, Edwin F., Co., The: See—
Guth, Edwin F., Jr. 2,810,823.
Guth, Frederick E. 2,807,709.
- Guth, Edwin F., Jr., to The Edwin F. Guth Co. Fluorescent lighting fixtures. 2,810,823, 10-22-57, Cl. 240—51.11.
- Guth, Fred H.: See—
Hinde, William L., Guth, and Fairweather. 2,790,090.
Wellington, Joseph C., Jr., Fairweather, and Guth. 2,795,747.
Wellington, Joseph C., Jr., Fairweather, and Guth. 2,795,748.
- Guth, Fred H., to Thompson Products, Inc. Alternator drive starting control. 2,790,092, 4-23-57, Cl. 290—40.
- Guth, Frederick E., to The Edwin F. Guth Co. Lighting fixture for ceiling illumination. 2,807,709, 9-24-57, Cl. 240—9.
- Guth, Lauren W., to General Electric Co. Time switch apparatus. 2,803,715, 8-20-57, Cl. 200—38.
- Guth, Lauren W., and R. M. Sasnett, to General Electric Co. Electric induction motor reversing circuit. 2,804,582, 8-27-57, Cl. 318—207.
- Guthans, Harold A., Connecting and tying devices. 2,818,229, 12-31-57, Cl. 254—67.
- Gutherie, Gordon: See—
Casady, Cecil A., and Wood. 2,803,133.
- Guthman, Lawrence. Clasp. 2,780,853, 2-12-57, Cl. 24—243.
- Guthrie, Charles G., and E. C. May, to M. E. P. Co. Ltd. Shifting board, trunk feeder and the like for ships' holds or hatchways. 2,783,729, 3-5-57, Cl. 114—75.
- Guthrie, Donald A.: See—
Duncan, Gordon W., and Guthrie. 2,786,868.
- Guthrie, George B., Jr., to the United States of America as represented by the Secretary of the Navy. Directional interrogator for an identification of friend or foe system. 2,817,836, 12-24-57, Cl. 343—101.
- Guthrie, George G., to Century Geophysical Corp. Pressure actuated circuit maker and breaker. 2,800,549, 7-23-57, Cl. 200—83.
- Guthrie, James E., to Dr. Hess & Clark Inc. Cadmium anthranilate containing anthelmintics. 2,797,182, 6-25-57, Cl. 167—53.
- Guthrie, James M.: See—
Bowman, Samuel G. 2,788,695.
- Guthrie, James M., to Loftus Engineering Corp. Covers for top-charged furnaces. 2,791,191, 5-7-57, Cl. 110—173.
- Guthrie, James M., to Loftus Engineering Corp. Method of heating metal billets by low frequency electrical power. 2,811,623, 10-29-57, Cl. 219—10.41.
- Guthrie, John B., Jr., to Western Electric Co., Inc. Missing pulse indicator. 2,790,142, 4-23-57, Cl. 324—57.
- Guthrie, John D.: See—
Reeves, Wilson A., and Guthrie. 2,795,569.
Reeves, Wilson A., and Guthrie. 2,809,941.
Reeves, Wilson A., and Guthrie. 2,810,701.
Reeves, Wilson A., Guthrie, and Warren. 2,812,311.
Reeves, Wilson A., Hamalainen, and Guthrie. 2,814,573.
- Guthrie, William C., Jr., and H. C. McQuigg. Vehicle wheel-washing apparatus. 2,814,825, 12-3-57, Cl. 15—302.
- Gutierrez, Joseph P., to Automatic Redial Corp. Preset automatic redial. 2,806,902, 9-17-57, Cl. 179—5.
- Gutmann, Hugo, and O. Isler, to Hoffmann-La Roche Inc. Pyridazone compounds and their preparation. 2,783,232, 2-26-57, Cl. 260—250.
- Gutridge, Jack E.: See—
Bock, George E., and Gutridge. 2,812,726.
- Gutridge, Jack E., to Pullman-Standard Car Mfg. Co. Transfer table for loading trailers on flat cars. 2,783,899, 3-5-57, Cl. 214—38.
- Gutridge, Jack E., and J. A. Winkelman, to Pullman-Standard Car Mfg. Co. Freight vehicle holding device. 2,818,033, 12-31-57, Cl. 105—368.
- Gutsche, Herman. Resonance device for stringed musical instrument. 2,778,262, 1-22-57, Cl. 84—296.
- Guterman, Arthur Z., to the United States of America as represented by the Secretary of the Air Force. Thyatron motor control circuit. 2,799,820, 7-16-57, Cl. 318—345.
- Güttner, Werner, R. Bastir, and G. Pickel, to Siemens-Reiniger-Werke Aktiengesellschaft. Ultrasonic transmitter apparatus. 2,799,787, 7-16-57, Cl. 310—8.1.
- Gutton, Henri, to Compagnie Generale de Telegraphie Sans Fil. Display systems for radar. 2,780,805, 2-5-57, Cl. 343—13.
- Gutton, Henri, and A. J. Ortusi, to Compagnie Generale de Telegraphie Sans Fil. Ultra-short wave aerials. 2,783,467, 2-26-57, Cl. 343—783.
- Gutzmann, Dorothea. Tool for making ornamental articles. 2,803,051, 8-20-57, Cl. 28—15.
- Gutzmer, Ernest R., to Intercompany Corp. Automatic line-casting and composing machines. 2,797,797, 7-2-57, Cl. 199—21.
- Guy, Clarence J., 1/2 to R. H. Guy. Wood waste shaving and sawdust baler. 2,780,989, 2-12-57, Cl. 100—218.
- Guy, R. H.: See—
Guy, Clarence J. 2,780,989.
- Guy, Warren H., to American Viscose Corp. Drying roll. 2,792,643, 5-21-57, Cl. 34—124.
- Guve, Pierre, to Saul & Co., as nominee of Fidelity Union Trust Co. Automatic trailer coupling mechanism. 2,804,315, 8-27-57, Cl. 280—477.
- Guyer, Morris W., to Calkins Mfg. Co. Rotary rod weeder drive. 2,776,612, 1-8-57, Cl. 97—42.
- Guyer, Morris W., to Calkins Mfg. Co. Rod weeder. 2,784,655, 3-12-57, Cl. 97—42.
- Guyer, Reynolds, to Waldorf Paper Products Co. Can containing carton. 2,810,476, 10-22-57, Cl. 206—65.
- Guyer, Reynolds, and H. G. Zastrow, to Waldorf Paper Products Co. Bottle carrier. 2,797,845, 7-2-57, Cl. 220—111.
- Guymon, Alonzo F. Adjustable rifle butt plate. 2,787,855, 4-9-57, Cl. 42—73.
- Guyton, Charles R., 50% to H. D. McColum. Jerk hammer for metal working. 2,791,926, 5-14-57, Cl. 81—15.
- Guzik, Casimir. Panic latch for refrigerator doors and the like. 2,778,326, 1-22-57, Cl. 109—63.5.
- Guzik, Casimir. Animal trap. 2,813,370, 11-19-57, Cl. 43—70.

- Guzman, Antonio. Curved-bolt door lock. 2,781,656, 2-19-57, Cl. 70—136.
- Gwin, Gilmore T.: *See—*
Cornell, Hampton G., Gwin, and Korbach. 2,793,168.
- Gwyn, Childress B., Jr., to Metals & Controls Corp. Electrical contacts. 2,815,421, 12-3-57, Cl. 200—166.
- Gwynn, Bernard H., to Gulf Research & Development Co. Hydroformylation of olefins; temperature stabilization. 2,779,795, 1-29-57, Cl. 260—604.
- Gwynn, Bernard H., and C. W. Montgomery, to Gulf Research & Development Co. Removal of metal carbonyls and other connate impurities in oxo process. 2,815,390, 12-3-57, Cl. 260—638.
- Gwynn, Bernard H., and A. C. Whitaker, to Gulf Research & Development Co. Distilling alcohols in presence of stabilizing sulfur compounds. 2,813,912, 11-19-57, Cl. 260—638.
- Gygax, Paul A., to E. I. du Pont de Nemours and Co. Process for preparing sulfonic acid derivatives of the reaction products of 4,4'-azobiphenyl-4'',4'''-dicarbonyl chloride and aminoanthraquinones. 2,785,156, 3-12-57, Cl. 260—157.
- Gyllenberg, John L., to Anthony Brandenthaler. Log barking machine having bilateral cutters, brushes and feed rollers. 2,780,252, 2-5-57, Cl. 144—208.
- Gyllenberg, John L., to A. Brandenthaler. Slab-barking machine having swingably mounted and pneumatically biased brush and rotary cutters. 2,794,465, 6-4-57, Cl. 144—208.
- Gyorgak, Charles A.: *See—*
Francisco, Allen C., and Gyorgak. 2,812,285.
- Gyorgy, Paul, R. Kuhn, and F. Zilliken, to American Home Products Corp. Alcoholicized chitin, process of preparation and food products containing the same. 2,783,148, 2-26-57, Cl. 99—54.
- Gyorgy, Paul, R. Kuhn, and F. Zilliken, to American Home Products Corp. Growth-promoting substances and their recovery. 2,786,051, 3-19-57, Cl. 260—211.5.
- Gyreacta Transmissions Ltd.: *See—*
Clerk, Robert C. 2,801,719.
Clerk, Robert C. 2,803,151.
- Gyrodyne Co. of America, Inc.: *See—*
Papadakos, Peter J. 2,815,820.
- Gysin, Hans: *See—*
Margot, Alfred, and Gysin. 2,806,035.
Margot, Alfred, and Gysin. 2,813,902.
- Gysin, Hans, and E. Knüßli, to J. R. Geigy A. G. Compositions and methods for influencing the growth of plants. 2,776,196, 1-1-57, Cl. 71—2.4.
- Gysin, Hans, and E. Knüßli, to J. R. Geigy A. G. Compositions and methods of influencing the growth of plants. 2,776,197, 1-1-57, Cl. 71—2.4.
- Gysin, Hans, and A. Margot, to J. R. Geigy A. G. Trichloromethane sulphonic acid derivatives. 2,779,788, 1-29-57, Cl. 260—556.
- Gysin, Hans, and A. Margot, to J. R. Geigy A. G. Trichloromethane sulphonic acid derivatives and their use in the combatting of fungi. 2,779,941, 1-29-57, Cl. 260—556.
- Gysin, Hans, and E. Knüßli, to J. R. Geigy A. G. Compositions and methods for influencing the growth of plants. 2,812,247, 11-5-57, Cl. 71—2.3.
- H & H Mfg. Co., Inc.: *See—*
Beagle, Roland F. 2,796,028.
- H-J-M Tool Co.: *See—*
Jones, Earl W. 2,792,063.
- H. & L. Tooth Co.: *See—*
Lauder, Ernie L. 2,798,403.
Lauder, Ernie L. 2,807,105.
- H & R Mfg. Co., The: *See—*
Shields, Samuel T., and Knudsen. 2,787,820.
- H & V Specialties Co., Inc.: *See—*
Farmer, Harris B. 2,793,572.
- Haack, Charles W. Collapsible door holding stand. 2,814,321, 11-26-57, Cl. 144—296.
- Haack, Frank W. Adjustable arbor and clamp-standard for power-driven tools. 2,808,686, 10-8-57, Cl. 51—166.
- Haacke, Alfred C.: *See—*
Hayford, Richard E., and Haacke. 2,817,765.
- Haaff, George W., to Link-Belt Co. Mount for rotary drums. 2,793,920, 5-28-57, Cl. 308—204.
- Haag, Heinz, to Herman C. Starck Aktiengesellschaft. Method for the production of a substantially pure boron. 2,794,708, 6-4-57, Cl. 23—209.
- Haage, Konrad. Pile puller. 2,804,857, 9-3-57, Cl. 123—7.
- Haagen, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Anion exchange resins from phenolic ethers. 2,807,594, 9-24-57, Cl. 260—2.1.
- Haagensen, Duane B., to Raytheon Mfg. Co. Electron discharge devices. 2,785,380, 3-12-57, Cl. 332—5.
- Haagensen, Duane B., to Raytheon Mfg. Co. Mode-shifting devices. 2,790,054, 4-23-57, Cl. 219—10.55.
- Haagensen, Duane B., to Raytheon Mfg. Co. Radiation systems. 2,811,624, 10-29-57, Cl. 219—10.55.
- Haagensen, Duane B., to Raytheon Mfg. Co. Microwave matching devices. 2,817,739, 12-24-57, Cl. 219—10.51.
- Haagensen, Duane B., to Raytheon Mfg. Co. Grid magnetron frequency pushing controls. 2,817,821, 12-24-57, Cl. 332—5.
- Haaglund, Erik K. M., and T. U. E. Ekqvist, to Svenska Cellulosaforeningens Centrallaboratorium (Cellulosaindustriens Centrallaboratorium). Method of improving the yield of methyl sulfide obtained by heating waste liquors from cellulose manufacture by adding inorganic sulfides. Re. 24,293, 3-19-57, Cl. 260—609.
- Haak, Fred C.: *See—*
Kerns, Fred R., Ward, and Haak. 2,807,227.
- Haake, Paul T.: *See—*
Payne, Franke E., and Haake. 2,815,967.
- Haanan, Everett H. Refrigerating unit. 2,780,074, 2-5-57, Cl. 62—91.5.
- Håård, Hans B.: *See—*
Aasma, Felix, Håård, and Warring. 2,798,978.
Aasma, Felix, Håård, and Warring. 2,799,728.
- Hård, Hans B., to Telefonaktiebolaget L M Ericsson. Crystal diode for microwaves. 2,777,949, 1-15-57, Cl. 250—31.
- Haardt, Heinz: *See—*
Federn, Klaus, and Haardt. 2,799,168.
- Haarmeyer, Robert C., to Lake Erie Machinery Corp. Hydraulic circuit for heavy duty presses and the like. 2,800,110, 7-23-57, Cl. 121—38.
- Haas, Albert D. Windshield wiper. 2,784,437, 3-12-57, Cl. 15—25.4.
- Haas, Alfred E. Fishing line guide. 2,778,141, 1-22-57, Cl. 43—24.
- Haas, Anton, and M. Kuhn. Electrical time controlled switching arrangement. 2,806,909, 9-17-57, Cl. 200—35.
- Haas, Arthur W., to Toledo Scale Co. Chain tensioning device for conveyor dishwashing machines. 2,776,046, 1-1-57, Cl. 198—208.
- Haas, Arthur W., to Toledo Scale Co. Traps for peelers. 2,782,931, 2-26-57, Cl. 210—149.
- Haas, Charles J. Composition for preventing the adhesion of baked goods to baking containers. 2,793,123, 5-21-57, Cl. 99—118.
- Haas, Cornelius H., to American Cyanamid Co. Shipping package for suture tubes. 2,798,601, 7-9-57, Cl. 206—63.3.
- Haas, Edgar, to Herman Schwabe, Inc. Hydraulic sole attaching machine. 2,783,486, 3-5-57, Cl. 12—36.
- Haas, Eduard. Apparatus for dispensing pulpy or pasty substances from a container. 2,815,885, 12-10-57, Cl. 222—82.
- Haas, Glenn B., to Formetal, Inc. Self-locking sash balance. 2,791,795, 5-14-57, Cl. 16—197.
- Haas, Glenn B., to Formetal, Inc. Detachable sash balance. 2,791,796, 5-14-57, Cl. 16—202.
- Haas, Glenn B., to Formetal, Inc. Self-locking sash balance. 2,796,630, 6-25-57, Cl. 16—197.
- Haas, Herman: *See—*
Blaser, Bruno, and Haas. 2,806,876.
Blaser, Bruno, Haas, and Helberger. 2,793,229.
- Haas, John W., to the United States of America as represented by the Secretary of the Navy. Thermally controlled safety switch. 2,798,921, 7-9-57, Cl. 200—123.
- Haas, Karl, S. Voll, and F. Zehndner, to Siemens-Schuckertwerke Aktiengesellschaft. Electric drive for ship winches. 2,783,398, 2-26-57, Cl. 310—57.
- Haas, Paul, to Sylvania Electric Products Inc. Image reproduction device screen forming process. 2,787,556, 4-2-57, Cl. 117—17.5.
- Haas, Paul, to Sylvania Electric Products Inc. Electron discharge device. 2,802,133, 8-6-57, Cl. 313—318.
- Haase, Allen P.: *See—*
Fehr, Edith B., and Haase. 2,787,723.
- Haase, Bartholomew, W. N., McWhorter, R. G. Dale and W. W. Stahl. Aqua Jet propulsion device. 2,797,659, 7-2-57, Cl. 115—14.
- Haase, Elmer A.: *See—*
Suttle, Ward C., and Haase. 2,778,312.
- Haase, Gertrude. Colostomy appliance. 2,814,295, 11-26-57, Cl. 128—283.
- Haase, Heinrich E.: *See—*
Walter, Charles T., and Haase. 2,800,224.
- Haase, Heinrich E., to Continental Can Co., Inc. Wrapper cutting, gluing and feeding apparatus. 2,778,176, 1-22-57, Cl. 53—64.
- Haase, Wilbert W., Co.: *See—*
Chandler, Wesley M., Heuser, and Smith. 2,805,462.
- Habana-Cabana, Inc.: *See—*
Bowen, Milton L., and Parker. 2,804,876.
- Haber, Karl K.: *See—*
Smith, Eric, and Haber. 2,816,118.
- Haber, Leonard. Physician's automobile blinker light. 2,807,795, 9-24-57, Cl. 340—107.
- Haber, Norman A.: *See—*
Sussman, Sidney, Haber, and Feldman. 2,789,307.
- Haberkost, Jerome G., to Allen B. Du Mont Laboratories, Inc. Deflection circuit for cathode ray tubes. 2,794,148, 5-28-57, Cl. 315—27.
- Haberl, Richard, to Firma Bayrische Berg-, Hutten- und Salzwerke Akt.-Ges. Blasting material of metal for treating surfaces. 2,796,338, 6-18-57, Cl. 51—309.
- Haberland, Ernest R., to the United States of America as represented by the Secretary of the Navy. Sensitive impact switch with magnetic hold. 2,791,653, 5-7-57, Cl. 200—61.51.
- Haberland, Ernest R., to the United States of America as represented by the Secretary of the Navy. Arming device for mines. 2,795,189, 6-11-57, Cl. 102—16.
- Haberman, Frank F.: *See—*
Morgan, Erving B., Manne, and Haberman. 2,815,065.
- Habermann, Rudolph, Jr., to General Electric Co. Polyphase generators. 2,778,963, 1-22-57, Cl. 310—202.
- Habermehl, Frederick M., 1/2 to B. R. Gugel, and 1/2 to W. L. Dooley. Tube end flaring hand tool. 2,807,305, 9-24-57, Cl. 153—80.5.

- Habeshaw, John, and R. W. Rae, to The British Petroleum Co. Ltd. Hydrogenation of oxo aldehyde bottoms. 2,793,236, 5-21-57, Cl. 260-638.
- Habeshaw, John, A. Elce, I. K. M. Robson, G. P. Armstrong, and D. P. Young, to The Distillers Co. Ltd., and The British Petroleum Co. Ltd. Production of aliphatic acids. 2,800,505, 7-23-57, Cl. 260-533.
- Habeshaw, John, and R. W. Rae, to The British Petroleum Co. Ltd. Thermal polymerization of petroleum hydrocarbon fraction. 2,817,647, 12-24-57, Cl. 260-82.
- Habib, Robert. Automatic machine tool. 2,791,068, 5-7-57, Cl. 51-95.
- Habicht, Lojo. Apparatus for carrying out interactions of liquids on each other. 2,776,193, 1-1-57, Cl. 23-283.
- Habicht, Lojo. Process for carrying out interactions of liquids with each other. 2,776,305, 1-1-57, Cl. 260-415.
- Habig, Harry R. Shutter control mechanism. 2,788,704, 4-16-57, Cl. 88-19.3.
- Habler, Adam L. Holder for smoking pipes. 2,784,887, 3-12-57, Cl. 224-29.
- Habsburg-Lothringen, Stefan, and C. E. Quinn, to General Motors Corp. Vehicle retractable lamp. 2,795,772, 6-11-57, Cl. 340-87.
- Hachihama, Yoshikazu, and I. Hayashi. Polyamides having furan nucleus or tetrahydrofuran nucleus and process for producing the same. 2,808,392, 10-1-57, Cl. 260-78.
- Hachmuth, Karl H., to Phillips Petroleum Co. Method and apparatus for the removal of acetylene from gases containing ethylene. 2,809,710, 10-15-57, Cl. 183-2.
- Hack, Andrew J., S. J. Shapiro, and W. Shorr, to the United States of America as represented by the Secretary of the Army. Solid electrolyte battery. Re. 24,408, 12-17-57, Cl. 136-85.
- Hack, Andrew J., S. J. Shapiro, and W. Shorr, to the United States of America as represented by the Secretary of the Army. Solid electrolyte battery. 2,802,895, 8-13-57, Cl. 136-83.
- Hack, Heinrich, to Carl Schenck Maschinenfabrik G. m. b. H. Means for the balancing of revolvable bodies. 2,804,775, 9-3-57, Cl. 73-461.
- Hack, Heinrich K., to C. Schenck Maschinenfabrik G. m. b. H. Balancing apparatus. 2,810,307, 10-22-57, Cl. 77-5.
- Hack, Kenneth M., and W. S. Wood, to Laporte Chemicals Ltd. Process for the manufacture of hydrogen peroxide. 2,791,491, 5-7-57, Cl. 23-207.
- Hack, Walter L., to Western Gold and Platinum Co. Gold-copper-indium brazing alloy. 2,813,790, 11-19-57, Cl. 75-165.
- Hackbart, Reuben J.: See—
- Neubauer, Emil T., Schroder, and Hackbart. 2,795,194.
- Hackenbergh, John H.: See—
- Ridings, Garvice H., and Hackenberg. 2,806,081.
- Hackenberg, John H., G. B. Worthen, and G. H. Ridings, to The Western Union Telegraph Co. Facsimile transmitters. 2,785,223, 3-12-57, Cl. 178-7.1.
- Hacker, Theodore C., R. A. Chase, and P. E. Carter, to The Ryan Aeronautical Co. Turbine nozzle box. 2,808,226, 10-1-57, Cl. 253-78.
- Hackett, Norman H. Hydraulic brake system. 2,776,734, 1-8-57, Cl. 188-152.
- Hackman, Robert L., R. R. Lobosco, and W. H. Helmbrecht, to Union Carbide Corp. Electric arc welding. 2,806,127, 9-10-57, Cl. 219-137.
- Hackman, William M.: See—
- Ackelsberg, Oscar. 2,778,849.
- Hackmann, Johannes T., to Shell Development Co. Method of protecting plants from fungi by employing N-haloacyl urea. 2,801,200, 7-30-57, Cl. 167-22.
- Hackmann, Johannes T., to Shell Development Co. Fungicidally active S-alkylisothiourea salts of reinecke acid. 2,809,980, 10-15-57, Cl. 260-438.
- Hackmann, Johannes T., to Shell Development Co. Fungicidal aromatic sulfonhydrazide composition and method of using same. 2,813,057, 11-12-57, Cl. 167-30.
- Hackmann, Johannes T., to Shell Development Co. Method and hydrazine compositions for treating plants. 2,814,582, 11-26-57, Cl. 167-22.
- Hackney, Edward J., C. D. Faucette, and F. R. Darkis, to Liggett & Myers Tobacco Co. Aerosol filter making machine. 2,778,403, 1-22-57, Cl. 154-1.
- Hackney, Edward J., C. D. Faucette, and F. R. Darkis, to Liggett & Myers Tobacco Co. Aerosol filters. 2,805,671, 9-10-57, Cl. 131-208.
- Hackstaff, Bruce W.: See—
- Beck, Otto, and Hackstaff. 2,816,973.
- Haco Gesellschaft A. G.: See—
- Matter, Max. 2,778,829.
- Hadary, Joseph. Adjustable blind or shutter. 2,799,061, 7-16-57, Cl. 20-62.
- Haddad, Amram. Masking kit for dolls. 2,807,362, 9-24-57, Cl. 206-78.
- Haddad, James H., to Socony Mobil Oil Co., Inc. Method and apparatus for feeding contact material into a gas lift pipe. 2,801,136, 7-30-57, Cl. 302-53.
- Haddad, Jerrier A., to International Business Machines Corp. Self-latching oscillator. 2,778,939, 1-22-57, Cl. 250-36.
- Haddad, Theodore A.: See—
- Engelman, Joseph H., Haddad, and Landrey. 2,802,130.
- Haddeland, George E.: See—
- Foster, John S., and Haddeland. 2,798,359.
- Hadfield, Lloyd D., to Electric & Musical Industries Ltd. Deflection and accelerating voltage correction circuits for flying spot film scanners. 2,786,888, 3-26-57, Cl. 178-7.2.
- Hadfield, Neal R. Fishing lures. 2,780,884, 2-12-57, Cl. 43-42.19.
- Hadfields Ltd.: See—
- Rait, John R., and Ward. 2,793,113.
- Hadler, Bartholdt C., and E. L. Pelton, to The Dow Chemical Co. Anthelmintic solutions comprising piperazine compounds. 2,810,676, 10-22-57, Cl. 167-53.
- Hadley, Clarence B. Extension shaft for grinding motors. 2,787,873, 4-9-57, Cl. 51-168.
- Hadley, David J., R. H. Hall and D. I. H. Jacobs, to The Distillers Co. Ltd. Alkyl-substituted acroleins. 2,810,763, 10-22-57, Cl. 260-604.
- Hadley, Harlan A., to Toledo Scale Co. Weighing scales. 2,818,245, 12-31-57, Cl. 265-27.
- Hadley, Howard C., to Deere Mfg. Co. Draft arrangement for corn pickers. 2,787,878, 4-9-57, Cl. 56-18.
- Haeblerle, Manfred: See—
- Elbracht, Hans, and Haeblerle. 2,790,201.
- Haede, Werner: See—
- Ruschig, Heinrich, Schmidt-Thome, and Fritsch. 2,794,034.
- Haefeli, Theodor, to Cinetchnik A. G. Process for hydrolysing cellulose acetate films with caustic soda lye. 2,805,175, 9-3-57, Cl. 117-118.
- Haefl, Andrew V., to Hughes Aircraft Co. Direct-viewing electronic storage tubes. 2,795,727, 6-11-57, Cl. 315-12.
- Haefl, Andrew V., to Hughes Aircraft Co. Direct-viewing electronic storage tubes. 2,802,966, 8-13-57, Cl. 315-12.
- Haefl, Andrew V., to Hughes Aircraft Co. Signal delay tube. 2,806,177, 9-10-57, Cl. 315-39.3.
- Haefl, Andrew V., to Hughes Aircraft Co. Plasma amplifiers. 2,806,974, 9-17-57, Cl. 315-3.6.
- Haefl, Andrew V. Method of storing, maintaining, and reproducing electrical signals, and means therefor. 2,813,998, 11-19-57, Cl. 315-12.
- Haefl, Andrew V., and C. K. Birdsall, to Hughes Aircraft Co. Resistive inductive wall amplifier tube. 2,793,315, 5-21-57, Cl. 315-3.6.
- Haefliger, William W. Automobile window sill cover. 2,803,493, 8-20-57, Cl. 296-49.2.
- Haehnel, Herbert E., to Textile Machine Works. Catchbar mechanism for knitting machines. 2,779,177, 1-29-57, Cl. 66-110.
- Haensel, Vladimir: See—
- Pines, Herman, and Ipatieff. 2,804,489.
- Haensel, Vladimir, to Universal Oil Products Co. Method of preparing a platinum composite reforming catalyst. 2,781,324, 2-12-57, Cl. 252-466.
- Haensel, Vladimir, to Universal Oil Products Co. Production of acetophenone. 2,797,245, 6-25-57, Cl. 260-592.
- Haensel, Vladimir, to Universal Oil Products Co. Process for obtaining concentrated aromatic hydrocarbons. 2,799,627, 7-16-57, Cl. 196-78.
- Haensel, Vladimir, to Universal Oil Products Co. Purification of gases with an amine impregnated solid absorbent. 2,818,323, 12-31-57, Cl. 23-2.
- Haensel, Vladimir, and C. G. Gerhold, to Universal Oil Products Co. Combined operation for catalytically upgrading gasoline. 2,781,298, 2-12-57, Cl. 196-50.
- Haensel, Vladimir, and J. W. Ziglar, to Universal Oil Products Co. Method for producing solid siliceous catalyst. 2,794,002, 5-28-57, Cl. 252-441.
- Haensel, Vladimir, and M. J. Murray, to Universal Oil Products Co. Preparation of platinum-containing catalysts. 2,818,394, 12-31-57, Cl. 252-466.
- Haerri, Hans, to Benrus Watch Co. Inc. Timepiece automatic regulator. 2,785,529, 3-19-57, Cl. 58-109.
- Haerther, William W., Jr.: See—
- Lenz, Frank B., and Haerther. 2,792,116.
- Haes, Eduard J.: See—
- Rademakers, Adriaan, and Haes. 2,799,813.
- Haeseler, John A. Pocket monocular with sliding covers for protecting lenses. 2,814,967, 12-3-57, Cl. 88-33.
- Haessler, Walter M.: See—
- Allen, Frank B., and Haessler. 2,807,281.
- Hafekost, Frederick, to L. Edelson, H. S. Schwartz, M. R. Cohen, F. Hafekost, A. Manges, B. Rudikoff, M. Stagg, and Daleo Trading Corp. Pinking shears and method for making same. 2,776,482, 1-8-57, Cl. 30-230.
- Hafele, Carl H., and A. Kreuz, to Rheinische Armature-und Maschinenfabrik Albert Sappell. Pilot controlled main valve with cushioning means. 2,814,307, 11-26-57, Cl. 137-489.
- Hafer, Giles P., to Western Electric Co., Inc. Strand takeup distributor. 2,779,544, 1-29-57, Cl. 242-25.
- Hafer, Giles P., to Western Electric Co., Inc. Apparatus for lapping dies. 2,790,273, 4-30-57, Cl. 51-97.
- Hafer, Giles P., and W. R. Moyers, to Western Electric Co., Inc. Spool runway. 2,788,179, 4-9-57, Cl. 238-1.
- Haffner, Eduard K. L.: See—
- Logan, John A., and Haffner. 2,792,482.
- Haffner, Fred G., to Pneumatic Scale Corp., Ltd. Volume limiting mechanism for a volumetric filling machine. 2,783,017, 2-26-57, Cl. 249-17.
- Haffer, David. Audio-amplifier. 2,815,407, 12-3-57, Cl. 179-171.
- Haffer, David. Transformers. 2,815,408, 12-3-57, Cl. 179-171.

- Haffiger, Franz: *See*—
 Denss, Rolf, and Haffiger. 2,808,411.
 Girod, Emil, and Haffiger. 2,777,858.
 Pfister, Rudolf, and Haffiger. 2,798,074.
 Schindler, Walter, and Haffiger. 2,800,470.
 Schindler, Walter, and Haffiger. 2,808,413.
 Schindler, Walter, and Haffiger. 2,809,200.
 Schindler, Walter, and Haffiger. 2,813,857.
- Hafner, Klaus: *See*—
 Ziegler, Karl, and Hafner. 2,805,266.
 Ziegler, Karl, Hafner, and Weides. 2,804,485.
- Haft and Sons, Inc.: *See*—
 Dunay, John. 2,810,083.
- Hagadorn, Elmore W., to Finishline Laboratories, Inc. Electrically heated tool. 2,779,853, 1-29-57, Cl. 219-27.
- Hagan Chemicals & Controls, Inc.: *See*—
 Albrecht, Kurt. 2,811,033.
 Anderson, George R. 2,811,120.
 Cunningham, Edwin A., Jr. 2,809,799.
 Vetter, Otto B. 2,791,906.
 Vetter, Otto B. 2,803,136.
 Vetter, Otto B. 2,811,174.
- Hagan Corp.: *See*—
 Donaldson, Robert R. 2,786,713.
 Donaldson, Robert R., Jr. 2,786,481.
 Liddell, Robert W., Jr. 2,782,162.
 Sutton, John G., Jr. 2,781,770.
 Williams, Ray S. 2,781,744.
- Hagan, Eugene T., to the United States of America as represented by the Secretary of the Air Force. Detachable fluid-tight joint for protective clothing. 2,813,272, 11-19-57, Cl. 2-82.
- Hagan, John J.: *See*—
 Grekel, Howard, and Hagan. 2,810,740.
- Hagar, Henry H. Collapsible clothesline dryer. 2,795,337, 6-11-57, Cl. 211-178.
- Hagar, Henry H. Collapsible clothes dryers. 2,802,579, 8-13-57, Cl. 211-178.
- Hagdahl, Ernst J., to Telefonaktiebolaget L M Ericsson. Overload tripping switch. 2,816,986, 12-17-57, Cl. 200-116.
- Hagdahl, Ernst J., to Telefonaktiebolaget L M Ericsson. Overload tripping switch. 2,816,987, 12-17-57, Cl. 200-116.
- Hage, William T., to The Babcock & Wilcox Co. Pressure responsive mechanical electrical ratio controller for air swept pulverizer feed. 2,783,947, 3-5-57, Cl. 241-34.
- Hage, William T., to The Babcock & Wilcox Co. Pressure responsive mechanical electrical ratio controller for air swept pulverizer feed. 2,783,948, 3-5-57, Cl. 241-34.
- Hage, William T., to The Babcock & Wilcox Co. Power regulating system for resistance furnaces. 2,798,196, 7-2-57, Cl. 323-66.
- Hageal, Neal. Furniture tool for vacuum cleaners. 2,799,040, 7-16-57, Cl. 15-418.
- Hagedorn, Hans C., to Nordisk Insulinlaboratorium. Machine for washing vials. 2,783,765, 3-5-57, Cl. 134-72.
- Hagedorn, Hans C., to Nordisk Insulinlaboratorium. Process for washing vials. 2,784,120, 3-5-57, Cl. 134-21.
- Hagedorn, William H. Rotary lawn mower blade balancer. 2,813,428, 11-19-57, Cl. 73-480.
- Hägele, Karl, and W. Laib, to Firma Robert Bosch, G. m. b. H. Injection pump controlling device. 2,808,819, 10-8-57, Cl. 123-140.
- Hagelin, Boris C. W. Power-driven ciphering devices. 2,777,556, 1-15-57, Cl. 197-4.
- Hagelin, Boris C. W. Electric switching device for ciphering apparatus. 2,802,047, 8-6-57, Cl. 178-22.
- Hageline, Emil E.: *See*—
 Lathrop, Harry D., and Hageline. 2,813,644.
- Hageline, Emil E., to The Lathrop-Paulson Co. Pulley and method of forming. 2,787,913, 4-9-57, Cl. 74-230.6.
- Hageman, Donald H. A., to Hughes Aircraft Co. System for coupling signals into and out of flip-flops. 2,816,237, 12-10-57, Cl. 307-88.5.
- Hageman, Howard A.: *See*—
 Newby, Thomas H., Snyder, and Hageman. 2,793,231.
- Hageman, Louis F., and C. R. Mabon, to Moore Business Forms, Inc. Strip severing machines. 2,778,424, 1-22-57, Cl. 164-84.5.
- Hagemann, Guy, G. Nomine, and J. Warnant, to Les Laboratoires Français de Chimiothérapie. Method of hydroxylating steroids in the 21-position. 2,805,978, 9-10-57, Cl. 195-51.
- Hagemeyer, Hugh H., Jr., to Eastman Kodak Co. Addition products of thermally degraded polyethylene. 2,811,514, 10-29-57, Cl. 260-94.9.
- Hagemeyer, Hugh J., Jr., to Eastman Kodak Co. Condensation of isobutyraldehyde with lower aliphatic aldehydes. 2,811,562, 10-29-57, Cl. 260-602.
- Hagemeyer, Hugh J., Jr., B. Thompson, and C. W. Hargis, to Eastman Kodak Co. Synthesis of nitriles from aldehydes and ammonia. 2,786,867, 3-26-57, Cl. 260-465.1.
- Hagemeyer, Hugh J., Jr., and D. C. Hull, to Eastman Kodak Co. Directed isomer formation in the oxo reaction. 2,790,832, 4-30-57, Cl. 260-604.
- Hagemeyer, James L.: *See*—
 Killeffer, Lawrence D., and Hagemeyer. 2,781,847.
- Hagen, Glenn E., to Northrop Aircraft, Inc. Electronic counting tube. 2,781,171, 2-12-57, Cl. 235-92.
- Hagen, Norbert: *See*—
 Hagen, Reinold and N. 2,787,023.
- Hagen, Peter A. Wire puzzle. 2,779,600, 1-29-57, Cl. 273-158.
- Hagen, Reinold and N. Manufacture of bottles and the like from plastic materials. 2,787,023, 4-2-57, Cl. 18-55.
- Hagenberg, Theodor: *See*—
 Van Bree, Pieter, and Hagenberg. 2,781,469.
- Hagenberg, Theodor, to North American Philips Co., Inc. Cathode-ray tube having a glass cone. 2,799,422, 7-16-57, Cl. 220-2.3.
- Hagenboecker, Alfred, and M. Blumer, to Ciba Ltd. Process for the manufacture of azo-dyestuffs. 2,776,961, 1-8-57, Cl. 260-196.
- Hagenbook, Loy D.: *See*—
 Beck, William R., and Hagenbook. 2,792,091.
- Hagenbook, Loy D., to Goodman Mfg. Co. Mining machine having a wedging thrusting action. 2,792,205, 5-14-57, Cl. 262-16.
- Hagenbook, Loy D., to Goodman Mfg. Co. Boring type mining machine having three boring heads. 2,818,241, 12-31-57, Cl. 262-7.
- Hagenbuch, Werner, and A. Rheiner, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Acylation of cellulose with retention of fiber structure. 2,814,617, 11-26-57, Cl. 260-227.
- Hagenlocher, Ernest, and G. C. Werner. Flexible couplings. 2,788,650, 4-16-57, Cl. 64-13.
- Hagenlocher, Ernest, and G. C. Werner. Flexible couplings. 2,790,312, 4-30-57, Cl. 64-13.
- Hager, August, to Machine Tool Works Oerlikon, Administration Co. Projectile fuse. 2,806,427, 9-17-57, Cl. 102-71.
- Hager, C., & Sons Hinge Mfg. Co.: *See*—
 Hager, Louis A., Jr. 2,797,433.
- Hager, Frederick M. M. J., to United States Rubber Co. Purification of herbicidal phenoxyacetic acid esters with chlorine. 2,800,499, 7-23-57, Cl. 260-473.
- Hager, Karl F., J. M. Michel, and M. Rosenthal, to the United States of America as represented by the Secretary of the Army. Inhibitor in acid pickling. 2,801,979, 8-6-57, Cl. 252-148.
- Hager, Louis A., Jr., to C. Hager & Sons Hinge Mfg. Co. Door hinges. 2,797,433, 7-2-57, Cl. 16-169.
- Hagerman, Gilbert H., to Robbins & Myers, Inc. Article treating apparatus. 2,803,332, 8-20-57, Cl. 198-33.
- Hagerty, Charles L. and W. K., to Hagerty Mfg. Co., Inc. File sharpener. 2,790,272, 4-30-57, Cl. 51-74.
- Hagerty Co.: *See*—
 Hagerty, Francis W. 2,789,626.
- Hagerty, Elliot B., to Louis Milani Foods, Inc. Method of making gelatin-containing food preparations which dissolve at room temperature and gel at room temperature. 2,803,548, 8-20-57, Cl. 99-130.
- Hagerty, Francis W., to Hagerty Co. Chairs with corded seats. 2,789,626, 4-23-57, Cl. 155-178.
- Hagerty Mfg. Co., Inc.: *See*—
 Hagerty, Charles L. and W. K. 2,790,272.
- Hagerty, William K.: *See*—
 Hagerty, William K. 2,787,009.
- Hagerty, William K.: *See*—
 Hagerty, Charles L. and W. K. 2,790,272.
- Hagerty, William K., to Hagerty Mfg. Co., Inc. Adjustable headrest for creepers. 2,787,009, 4-2-57, Cl. 5-327.
- Hagerup, Svend A. Continuous centrifugal extractor. 2,808,936, 10-8-57, Cl. 210-374.
- Hagey, Lee P., to Electro-Voice, Inc. Ultra high frequency tuner. 2,808,570, 10-1-57, Cl. 333-33.
- Haggard, John M.: *See*—
 McMurray, Paul H., and Haggard. 2,801,612.
- Haggard, Raymond L. Calf weaner. 2,783,740, 3-5-57, Cl. 119-130.
- Haggerty, James E.: *See*—
 Peak, Charles. 2,793,599.
- Haggins, Irving L. Convertible aircraft. 2,803,414, 8-20-57, Cl. 244-7.
- Haggland, Paul B. Fracture plate. 2,780,223, 2-5-57, Cl. 128-92.
- Hägglund, Erik K. M., L. E. G. Hällström, and H. M. Richtzenhain, to Svenska Cellulosaaförenings Centrallaboratorium (Cellulosaindustriens Centrallaboratorium). Process for producing tanning agents from black liquor lignin. 2,789,974, 4-23-57, Cl. 260-124.
- Hägglund, Eugene A. Bug and gravel shield for vehicles. 2,792,254, 5-14-57, Cl. 296-91.
- Häglund, Didrik W. and S. P. G. Höglund, to Sandvikens Jernverks Aktiebolag. Percussion drilling bit. 2,777,672, 1-15-57, Cl. 255-64.
- Häglund, Gerhard O. Automatic heading adjuster signal control. 2,793,602, 5-28-57, Cl. 114-240.
- Hagman, Ernest F. Page turner. 2,791,847, 5-14-57, Cl. 40-104.
- Hagood, Thomas D., and W. S. Roden. Kite. 2,781,989, 2-19-57, Cl. 244-154.
- Hagopian, Jacob J.: *See*—
 Hodson, Waldo G., Peterson, Kenkel, Hagopian, and Hennies. 2,816,720.
- Hagopian, Richard H.: *See*—
 Kinn, Theodore P., and Hagopian. 2,792,483.
- Hagren, Sven J. H., to Aktiebolaget Dux. Sheet feeding apparatus. 2,812,178, 11-5-57, Cl. 271-29.
- Hags, Joseph W., to United States Steel Corp. Apparatus for measuring the thickness of a coating applied to a moving strip. 2,793,345, 5-21-57, Cl. 324-71.

- Hague, Alfred G., deceased, and H. R. Straight; M. E. Hague, executrix of the estate of said A. G. Hague. Car dumping apparatus. 2,786,586, 3-26-57, Cl. 214-46.3.
- Hague, Alfred G., to Straight Engineering Co. Inc. Coupler clamp and hold-down apparatus for car dumpers. 2,814,400, 11-26-57, Cl. 214-55.
- Hague, May E.: *See—*
- Hague, Alfred G., and Straight. 2,786,586.
- Hague & McKenzie Ltd.: *See—*
- Veitch, Donald N. 2,802,595.
- Hague, Wilbur E.: *See—*
- High, Le Roy B., and Hague. 2,803,593.
- Hahir, Ward H., and D. G. MacNeill, to United States of America as represented by the Secretary of the Navy. Flexible endless conveyors. 2,795,315, 6-11-57, Cl. 198-109.
- Hahn, Carl: *See—*
- Niepmann, Friedrich and O., Hahn, and Mittag. 2,798,260.
- Hahn, Clarence E.: *See—*
- Sherratt, George W., and Hahn. 2,795,512.
- Hahn, Clarence E., to General Electric Co. Lehr for ceramic enameled glass bulbs. 2,784,531, 3-12-57, Cl. 49-47.
- Hahn, Georg: *See—*
- Kuhlmann, Wilhelm, and Hahn. 2,778,220.
- Hahn, Gilbert B.: *See—*
- Douglas, Alvin P., and Hahn. 2,797,105.
- Schreckengost, Viktor, and Hahn. 2,798,739.
- Hahn, Harold G.: *See—*
- Walles, Wilhelm E., and Hahn. 2,786,780.
- Hahn, Harold G., and W. E. Walles, to The Dow Chemical Co. Coating process for polyethylene and composite articles thereby obtained. 2,786,783, 3-26-57, Cl. 117-72.
- Hahn, John H., to Monsanto Chemical Co. Method of preparing nickel catalyst. 2,807,532, 9-24-57, Cl. 75-0.5.
- Hahn, John H., J. F. Quinn, and M. A. Terpstra, to Monsanto Chemical Co. Preparation of alkoxy-benzylhalides. 2,777,001, 1-8-57, Cl. 260-613.
- Hahn & Kolb, Werkzeugmaschinen und Werkzeuge: *See—*
- Venus, Willibald. 2,808,627.
- Hahn, Norman F., and A. A. Kraft, to The Cleveland Fuel Equipment Co. Furnace damper and fuel control system. 2,804,267, 8-27-57, Cl. 236-14.
- Hahn, Oscar W. Commode. 2,817,092, 12-24-57, Cl. 4-10.
- Hahn, Paul T., to John Oster Mfg. Co. Beater with resiliently yieldable blades. 2,778,615, 1-22-57, Cl. 259-134.
- Hahn, Paul T., to John Oster Mfg. Co. Food mixer with axially retractable beaters. 2,817,503, 12-24-57, Cl. 259-131.
- Hahn, Robert H. Laminates and process for the production thereof. 2,817,618, 12-24-57, Cl. 154-102.
- Hahn, Rose D.: *See—*
- Hahn, William C. 2,808,202.
- Hahn, Theodor. Machine such as a motor or pump for service with gaseous or fluid media, and in particular a compressed air motor. 2,815,006, 12-3-57, Cl. 121-48.
- Hahn, Werner: *See—*
- Weise, Johannes, Hahn, Kromer, and Noack. 2,815,702.
- Hahn, Wilbur D. Well drill sharpening devices. 2,814,960, 12-3-57, Cl. 76-5.
- Hahn, William C., deceased, by R. D. Hahn, executrix, to General Electric Co. Carry unit for binary digital computing devices. 2,808,202, 10-1-57, Cl. 235-61.
- Hahnel, Alwin, to the United States of America as represented by the Secretary of the Army. Frequency control system for oscillators. 2,810,074, 10-15-57, Cl. 250-36.
- Hahnel, Alwin, to the United States of America as represented by the Secretary of the Army. Frequency multiplier. 2,816,227, 12-10-57, Cl. 250-36.
- Haig, Richard R., to Esso Research and Engineering Co. Prevention of coke formation in upper portion of fluid coker. 2,810,679, 10-22-57, Cl. 202-28.
- Haigh, Ridall A. Test handle. 2,785,258, 3-12-57, Cl. 200-157.
- Haight, Hiram H. and W. Z. Reversible pump with automatic valving. 2,778,316, 1-22-57, Cl. 103-117.
- Haight, Wayland Z.: *See—*
- Haight, Hiram H. and W. Z. 2,778,316.
- Haimsohn, Jerome N., to Stauffer Chemical Co. Purification of monochloroacetic acid. 2,790,828, 4-30-57, Cl. 260-539.
- Haimsohn, Jerome N., to New York-Ohio Chemical Corp. Purification of monochloroacetic acid. 2,809,214, 10-8-57, Cl. 260-539.
- Hainer, Raymond M., and E. C. Evers, to the United States of America as represented by the United States Atomic Energy Commission. Uranium separation process. 2,780,532, 2-5-57, Cl. 23-312.
- Haines, David R., and W. H. Bent, to Massey-Harris-Ferguson (Sales) Ltd. Load lifting implement for attachment to tractors. 2,791,340, 5-7-57, Cl. 214-140.
- Haines, George S., F. D. Heindel, and C. C. Meeker, to Food Machinery and Chemical Corp. Preparation of barium hydride. 2,782,099, 2-19-57, Cl. 23-186.
- Haines, George S., F. D. Heindel, and R. T. Osborne, to Food Machinery and Chemical Corp. Sodium sulfide recovery. 2,812,245, 11-5-57, Cl. 23-302.
- Haines, John F.: *See—*
- Blanchard, Werner J., Haines, Martin, and MacNeill. 2,804,155.
- Peaslee, Robert V., and Haines. 2,794,334.
- Haines, Malcolm P., to Merz Engineering, Inc. Air gauge spindle. 2,797,576, 7-2-57, Cl. 73-37.9.
- Haines, Marcus W., to McGaffey-Taylor Corp. Differential screw thread construction. 2,783,809, 3-5-57, Cl. 151-14.
- Haines, Marcus W., C. C. Taylor, R. A. Werts, and S. K. Ford, to McGaffey-Taylor Corp. Apparatus for sealing leaks in wells. 2,796,937, 6-25-57, Cl. 166-147.
- Haines, Nicholas A. Cup and saucer dispenser. 2,816,808, 12-17-57, Cl. 312-71.
- Haines, Paul G.: *See—*
- Bell, Thomas R., and Haines. 2,812,370.
- Haines, Sidney R., to Powers-Samas Accounting Machines Ltd. Record card controlled statistical machines. 2,791,376, 5-7-57, Cl. 235-61.11.
- Haines, William A., Jr., to A. O. Smith Corp. Adjustable centrifugal switch assembly. 2,777,912, 1-15-57, Cl. 200-80.
- Hainsfurther, Robert M., to Pittsburgh Plate Glass Co. Method and apparatus for minimizing wave in rolled glass. 2,795,083, 6-11-57, Cl. 49-47.
- Hainsworth, John G., to Don Baxter, Inc. Sterilization indicator. 2,795,855, 7-9-57, Cl. 252-408.
- Hainsworth, John G., to Don Baxter, Inc. Steam sterilization indicator. 2,798,856, 7-9-57, Cl. 252-408.
- Hainsworth, Sidney B.: *See—*
- Watts, Gilbert E., Hainsworth, and Perry. 2,800,701.
- Hair, Zera L., to E. I. du Pont de Nemours and Co. Production of titanium tetrachloride. 2,784,058, 3-5-57, Cl. 23-87.
- Hajny, Charles E., to Baso Inc. Condition responsive circuit controlling devices. 2,797,281, 6-25-57, Cl. 200-138.
- Hajny, Charles E., to Baso Inc. Pilot burner. 2,799,331, 7-16-57, Cl. 158-123.
- Hajos, Eugene, to The Howe Scale Co. Spark follow-up and remote control for combination weighing scales. 2,809,781, 10-15-57, Cl. 235-27.
- Hakala, Thomas H.: *See—*
- Baldwin, Francis P., and Hakala. 2,808,378.
- Hakala, Thomas H., and I. Kirshenbaum, to Esso Research and Engineering Co. Olefin hydration process using halogenated cyclic aromatics. 2,818,439, 12-31-57, Cl. 260-614.
- Hakanson, Alfred. Vacuum cleaner nozzle. 2,805,440, 9-10-57, Cl. 15-400.
- Hakogi, Ichiro. Apparatus for printing the circumferential surface of hollow cylindrical articles. 2,796,164, 6-18-57, Cl. 198-24.
- Halahan, John: *See—*
- Drillick, John H., Floyd, Halahan, Aronson, and Lyon. 2,792,275.
- Halahan, John, T. F. Aronson, and F. A. Lyon, to Halm Industries Co., Inc. Feeding means for high speed printing press. 2,787,214, 4-2-57, Cl. 101-232.
- Halahan, John, T. F. Aronson, and F. A. Lyon, to Viewlex, Inc. Microfilm reader. 2,795,994, 6-18-57, Cl. 88-24.
- Halahan, John, T. F. Aronson, and F. A. Lyon, to The Kalart Co., Inc. Film cooling apparatus for film projectors. 2,817,267, 12-24-57, Cl. 88-24.
- Halberg, Max, M. Clavir, B. Cincinatus, W. Gerth, and E. D. Huras. Convertible furniture. 2,787,008, 4-2-57, Cl. 5-47.
- Haldex Aktiebolag: *See—*
- Björk, Bengt A. 2,804,184.
- Haldimann, Hans-Rudolf, to Schweizerische Industrie-Gesellschaft. Lift truck for stacking articles. 2,799,418, 7-16-57, Cl. 214-730.
- Haldy, Burton F., to Stratafoam Corp. Foam-dispensing package. 2,783,091, 2-26-57, Cl. 299-90.
- Hale, Adolph A., to Oldberg Mfg. Co. Apparatus for joining muffler parts. 2,805,635, 9-10-57, Cl. 113-1.
- Hale Condenser Co., Inc.: *See—*
- Hale, William B. 2,815,901.
- Hale, Donald E. Coupling apparatus. 2,798,448, 7-9-57, Cl. 114-235.
- Hale, John E. Projector for fuel combustion. 2,782,841, 2-26-57, Cl. 158-76.
- Hale, Merle R. Pre-punched and pull tab answer card. 2,798,669, 7-9-57, Cl. 255-61.12.
- Hale, Ralph F., to Joy Mfg. Co. Drill steel centralizer for coal drill. 2,788,194, 4-9-57, Cl. 255-51.
- Hale, Ruth. Chair foldable to form a bed. 2,784,766, 3-12-57, Cl. 155-47.
- Hale, William B., to Hale Condenser Co., Inc. Compressor structure. 2,815,901, 12-10-57, Cl. 230-184.
- Hale, William J., to Verdurin Co. Improved tobacco products and cigarette paper and methods of making same. 2,809,637, 10-15-57, Cl. 131-9.
- Hale, William J., to Verdurin Co. Process of treating cacao seeds. 2,813,793, 11-19-57, Cl. 99-23.
- Hale, William J., to Verdurin Co. Therapeutic compositions. 2,815,814, 12-3-57, Cl. 167-65.
- Haley, Albert W. Toy pistol. 2,808,820, 10-8-57, Cl. 124-27.
- Haley, Basil L.: *See—*
- Palmgren, Per G., Ball, Johansson, and Haley. 2,783,102.
- Haley, Emmett L. Power devices. 2,814,041, 11-26-57, Cl. 1-44.4.
- Haley, Kenneth M., H. V. Trask, and J. Healy, to Oglebay, Norton and Co. Temperature control system and method. 2,785,063, 3-12-57, Cl. 75-5.

- Haley, Kenneth M., and H. V. Trask, to Oglebay, Norton and Co. Metalliferous agglomerates having improved green strength and method of forming the same. 2,807,534, 9-24-57, Cl. 75-3.
- Haley, Robert E.: *See*—
Giglio, Joseph, and Haley. 2,800,957.
- Halfmann, Christoph, and H. Aleweld. Burners for gas cookers. 2,782,842, 2-26-57, Cl. 158-116.
- Halford, Frank B., and G. F. Clarke, to The De Havilland Engine Co. Ltd. Stator blade ring assemblies for axial flow compressors and the like. 2,778,564, 1-22-57, Cl. 230-114.
- Halford, Frank B., and W. K. Wilson, to The De Havilland Engine Co. Ltd. Rotors of multi-stage axial flow compressors or turbines. 2,795,393, 6-11-57, Cl. 253-39.
- Halford, Frank B., G. F. Clarke, and A. W. E. Barratt, to The De Havilland Engine Co. Ltd. Stationary blade rings of axial flow turbines or compressors. 2,807,433, 9-24-57, Cl. 253-39.1.
- Halibrand, Henry T. Wheel assembly and brake unit. 2,803,314, 8-20-57, Cl. 188-152.
- Halik, Eugene E. Float-less carburetor. 2,783,033, 2-26-57, Cl. 261-36.
- Halik, Eugene E. Regulators for fluid injection. 2,793,630, 5-28-57, Cl. 123-32.
- Haling, Otto W. Piston rings. 2,795,469, 6-11-57, Cl. 309-29.
- Halkey-Roberts Corp.: *See*—
Munk, Otto. 2,777,490.
- Hall, Albert M.: *See*—
Blank, Howard A., Moon, and Hall. 2,780,545.
- Hall, Basil G. Card shuffler. 2,815,214, 12-3-57, Cl. 273-149.
- Hall, C. M., Lamp Co.: *See*—
Worden, Norbert P. 2,806,940.
- Hall, C. P., Co., The: *See*—
Hill, Norman C. 2,806,821.
- Hall, Carl E., to Fastushin Aviation Corp. Expandable tank reinforcing ring. 2,813,655, 11-19-57, Cl. 220-71.
- Hall, Cecil T. Aural attenuators. 2,812,498, 11-5-57, Cl. 333-28.
- Hall, Clifford C. Linear measuring device. 2,817,906, 12-31-57, Cl. 33-141.
- Hall, Cyril C., to Specialties Development Corp. Light responsive apparatus for detecting suspended matter in a fluid. 2,791,932, 5-14-57, Cl. 88-14.
- Hall, Dick S.: *See*—
Forkel, Curt E., Hall, and Dean. 2,784,066.
- Hall, Dick S., to Phillips Petroleum Co. Pebble heater apparatus. 2,797,335, 6-25-57, Cl. 250-223.
- Hall, Dick S., to Phillips Petroleum Co. Pebble heater apparatus. 2,809,102, 10-8-57, Cl. 23-284.
- Hall, Dick S., and C. E. Forkel, to Phillips Petroleum Co. Pebble heating apparatus and method of removing fines from pebble feed. 2,782,924, 2-26-57, Cl. 209-138.
- Hall, Dick S., and L. E. Dean, to Phillips Petroleum Co. Straightening vanes in pebble heater air lift. 2,806,744, 9-17-57, Cl. 302-53.
- Hall, Donivan L., A. E. Middleton, and E. R. Olson, to The North Electric Co. Contact material. 2,787,688, 4-2-57, Cl. 200-166.
- Hall, Douglas W.: *See*—
Gresham, Harold E., Farnsworth, and Hall. 2,781,263.
Gresham, Harold E., Farnsworth, Hall, and Doyle. 2,781,262.
- Hall, Edgar B., to E. I. du Pont de Nemours and Co. Chemical process control apparatus. 2,808,316, 10-1-57, Cl. 23-252.
- Hall, Emery L., and F. E. Pratt, to Birtman Electric Co. Speed governor for electric motor. 2,794,163, 5-28-57, Cl. 318-325.
- Hall, Ernest A. Fuel feed pump. 2,798,440, 7-9-57, Cl. 103-152.
- Hall, Ernst O. S. Vertical axis rotary slicer. 2,793,667, 5-28-57, Cl. 146-124.
- Hall, Exial O. Mercury expessor. 2,799,935, 7-23-57, Cl. 32-40.
- Hall, Fred V. Control device for carburetor-type internal combustion engines. 2,809,623, 10-15-57, Cl. 123-179.
- Hall, Frederick M.: *See*—
Patton, Temple C., and Hall. 2,794,791.
- Hall, Garrison K. Flexible index strip. 2,805,084, 9-3-57, Cl. 281-43.
- Hall, George R.: *See*—
Cookerly, Jack C., and Hall. 2,777,941.
- Hall Harding Ltd.: *See*—
Bungay, Jeffery A. 2,811,909.
Bungay, Jeffery A. 2,812,699.
- Hall, Henry S., to Morgan Construction Co. Open hearth apparatus. 2,795,409, 6-11-57, Cl. 263-15.
- Hall, Herbert J., to Research Corp. Pulsar circuit. 2,782,867, 2-26-57, Cl. 183-7.
- Hall, Herbert J., to Research Corp. Sparking rate meter. 2,800,191, 7-23-57, Cl. 183-7.
- Hall, Herbert S., C. B. Hayworth, and J. W. Swaine, to Allied Chemical & Dye Corp. Manufacture of sulfur dioxide from sulphur and sulfur trioxide. 2,813,007, 11-12-57, Cl. 23-177.
- Hall, Herman C. Stabilized cultivator attachment for tractors. 2,816,496, 12-17-57, Cl. 97-47.52.
- Hall, Howard S., E. D. Long, and W. R. Yeich, to Western Electric Co., Inc. Fusing machine. 2,795,687, 6-11-57, Cl. 219-85.
- Hall, Ike D., and W. O. Webber, to Esso Research and Engineering Co. Liquid-liquid countercurrent contacting device. 2,794,711, 6-4-57, Cl. 23-270.5.
- Hall, Jeanne P. Pin curl appliance. 2,794,441, 6-4-57, Cl. 132-31.
- Hall, Jesse E., Sr. Well tool mounting. 2,797,756, 7-2-57, Cl. 166-173.
- Hall, Jesse E., Sr. Stop collar assembly. 2,801,700, 8-6-57, Cl. 166-243.
- Hall, Jesse E., Sr. Method of placing cement bridges or films in oil wells. 2,801,715, 8-6-57, Cl. 166-27.
- Hall, Jesse E., Sr. Scratchers. 2,808,112, 10-1-57, Cl. 166-173.
- Hall, John L. Supersonic lubricant homogenizer. 2,791,403, 5-7-57, Cl. 259-1.
- Hall, John M.: *See*—
Williams, James H., and Hall. 2,797,421.
- Hall, John R., to International Harvester Co. Counter-balanced drive mechanism for harvester sickles. 2,808,696, 10-8-57, Cl. 56-296.
- Hall, John R. Saw gullet angle indicator. 2,811,052, 10-29-57, Cl. 76-31.
- Hall, Kenneth J.: *See*—
Waterhouse, Lewis O., Cederlund, and Hall. 2,788,025.
- Hall, Lawrence G., and C. S. Robinson, to Consolidated Electrodynamics Corp. Mass spectrometry. 2,806,956, 9-17-57, Cl. 250-41.9.
- Hall, Lawrence G., and H. W. Washburn, to Consolidated Electrodynamics Corp. Mass spectrometry. 2,810,075, 10-15-57, Cl. 250-41.9.
- Hall, Lee Z., to Palmer-Shile Co. Apparatus for emptying materials handling containers. 2,794,575, 6-4-57, Cl. 222-165.
- Hall, Leonard I., to Rochester Mfg. Co., Inc. Liquid level gauge. 2,795,955, 6-18-57, Cl. 73-317.
- Hall, Lester G.: *See*—
Christie, Peter S., Hall, and Rutkosky. 2,808,355.
- Hall, Lloyd A., to The Griffith Laboratories, Inc. Fatty monoglyceride citrate and antioxidant containing the same. 2,813,032, 11-12-57, Cl. 99-163.
- Hall, Mitchell A., and L. B. Kopp, to J. B. Biederman. Dispensing pump and valve arrangement. 2,808,966, 10-8-57, Cl. 222-207.
- Hall, Noble H. Apparatus for removing stuck pipe from well bores. 2,804,927, 9-3-57, Cl. 166-221.
- Hall, Norman R.: *See*—
Williams, Thomas H., and Hall. 2,795,544.
- Hall, Oliver B.: *See*—
Garvey, Robert P., and Hall. 2,786,241.
- Hall, Orville C., to the United States of America as represented by the Secretary of the Navy. Frequency shift keyed oscillators. 2,817,017, 12-17-57, Cl. 250-36.
- Hall, Owen F. Dispensing valve units. 2,801,032, 7-30-57, Cl. 222-449.
- Hall, Pike: *See*—
Menge, Theodore L. 2,792,984.
- Hall, Reginald H.: *See*—
Hadley, David J., Hall, and Jacobs. 2,810,763.
- Hall, Reginald H., and D. I. H. Jacobs, to The Distillers Co. Ltd. Manufacture of trialkoxyalkanes. 2,800,513, 7-23-57, Cl. 260-615.
- Hall, Richard W.: *See*—
Drake, Blair M., Kagy, and Hall. 2,808,926.
- Hall, Richmond E., to The Plessey Co. Ltd. Contacts for electric circuit breakers. 2,787,687, 4-2-57, Cl. 200-166.
- Hall, Robert E.: *See*—
Carroll, Frank E., Jr., De Groote, and Hall. 2,809,810.
- Hall, Robert J. Animal trap. 2,803,918, 8-27-57, Cl. 43-61.
- Hall, Robert J., and J. W. Neelley, to Allied Chemical & Dye Corp. Screw conveyor. 2,789,738, 4-23-57, Cl. 222-413.
- Hall, Robert N., to General Electric Co. High power junction semiconductor device. 2,778,980, 1-22-57, Cl. 317-235.
- Hall, Robert N., to General Electric Co. Remote base transistor. 2,806,983, 9-17-57, Cl. 317-235.
- Hall, Robert T., to Kelsey-Hayes Co. Electrical checking device. 2,794,878, 6-4-57, Cl. 200-61.41.
- Hall, Roy W. Cigarette and ash retainer and snuffer. 2,776,665, 1-8-57, Cl. 131-235.
- Hall, Samuel M. Punch gun. 2,815,212, 12-3-57, Cl. 273-69.
- Hall, Sven I. N. Multiple-slidable pawl, reversible ratchet wrench. 2,799,194, 7-16-57, Cl. 81-60.
- Hall Telephone Accessories Ltd.: *See*—
Whillock, Arthur F., and Williams. 2,778,638.
- Hall, Thomas F. Apparatus for measuring and dispensing liquids. 2,798,638, 7-9-57, Cl. 222-67.
- Hall, Thomas R., to American Truck Equip. Co. Cable reel brake. 2,780,419, 2-5-57, Cl. 242-90.
- Hall, Victor C., to Merck & Co., Inc. Syringe unit. 2,798,488, 7-9-57, Cl. 128-232.
- Hall, Victor C., to F. J. Stokes Corp. Tablet grading means. 2,809,751, 10-15-57, Cl. 209-82.
- Hall, Wilbur L.: *See*—
Weiss, Walter J., and Hall. 2,802,783.
- Hall, William A., to Realistic Latex Products. Method of making artificial flora. 2,791,854, 5-14-57, Cl. 41-13.
- Hall, William G.: *See*—
Ramey, Robert A., and Hall. 2,792,564.
- Hall, William G., and R. I. Van Nice, to Westinghouse Electric Corp. Square wave phase shifter. 2,798,970, 7-9-57, Cl. 307-106.

- Hall, William G., and R. I. Van Nice, to Westinghouse Electric Corp. Elevator control systems. 2,806,554, 9-17-57, Cl. 187-29.
- Hall, William H., Jr.: *See*—Robertson, Paul M., and Hall. 2,800,575.
- Hall, William M.: *See*—Gross, Fritz A., Hall, and Hart. 2,795,780.
- Hall, Willis K., $\frac{1}{2}$ to D. B. Bennett. Electrical filtration. 2,796,144, 6-18-57, Cl. 183-7.
- Halladay, Merton E., and C. W. White, to Tomkins-Johnson Co. Cushioning structure for hydraulic cylinders. 2,804,052, 8-27-57, Cl. 121-38.
- Hallanger, Erling C.: *See*—Crysler, John B., Gaddis, and Hallanger. 2,788,941.
- Hallas, Lister: *See*—Meadows, Stanley G., Hallas, Coppard, and King. 2,805,391.
- Hallden, Frederick C., to Hazeltine Research, Inc. Cathode-ray tube apparatus. 2,807,740, 9-24-57, Cl. 313-84.
- Hallden, Frederick C., to Hazeltine Research, Inc. Electron-multiplier amplifier. 2,812,444, 11-5-57, Cl. 250-207.
- Hallden, Frederick G.: *See*—Miller, William E., and Hallden. 2,789,027.
- Hallden, Frederick G., and D. M. Zabriskie, to The Western Union Telegraph Co. Facsimile recorders. 2,816,001, 12-10-57, Cl. 346-24.
- Hallden, Karl W., to The Hallden Machine Co. Tractor-type stock feed. 2,797,798, 7-2-57, Cl. 203-305.
- Hallden Machine Co.: *See*—Hallden, Karl W. 2,797,798.
- Halldrosson, Gisli, to Edw. Renneburg & Sons Co. Rotary dryers. 2,783,548, 3-5-57, Cl. 34-79.
- Hallenbeck, Edward M.: *See*—TePoel, Clarence F., and Hallenbeck. 2,811,701.
- Hallenbeck, Thomas L. and L. D. Ninneman, to Baker Brothers, Inc. Molding machine for resinous materials. 2,781,546, 2-19-57, Cl. 18-30.
- Hallenbeck, Victor L., to The B. F. Goodrich Co. Novel method for preparing rubbery chlorinated isocolefin-polyolefin interpolymers. 2,804,448, 8-27-57, Cl. 260-85.3.
- Hallenbeck, Victor L., to The B. F. Goodrich Co. Elastic polyurethane elastomer composites. 2,805,182, 9-3-57, Cl. 154-48.
- Haller, John F., T. M. Jenney, and J. W. Churchill, to Olin Mathieson Chemical Corp. Process for production of hydrogen peroxide. 2,804,376, 8-27-57, Cl. 23-207.
- Haller, John F., and T. H. Dexter, to Olin Mathieson Chemical Corp. Manufacture of hydrazine. 2,805,129, 9-3-57, Cl. 23-190.
- Haller, John W. E., to The Linen Thread Co. Ltd. Process of heat setting thermoplastic net in rope form and product produced thereby. 2,792,617, 5-21-57, Cl. 28-78.
- Haller, Louis G.: *See*—Painter, Edwin S., and Haller. 2,776,192.
- Hallewell, George, to Blackstone and Co. Ltd. Flexible couplings. 2,783,628, 3-5-57, Cl. 64-30.
- Halley, Angus M. Drive mechanism for rotary web printing machinery. 2,794,339, 6-4-57, Cl. 107-219.
- Halley, James L. Burial vault. 2,783,523, 3-5-57, Cl. 27-35.
- Halliburton Oil Well Cementing Co.: *See*—Anderson, Francis M. 2,805,719.
- Green, Daniel E., and Schwegman. 2,806,539.
- Hathorn, Don H. 2,792,262.
- Hinchliffe, William E., and Hower. 2,796,131.
- Hower, Wayne F. 2,803,306.
- Hower, Wayne F., and Knox. 2,815,815.
- Morrisett, O. L., and Schwegman. 2,808,889.
- Pyle, Edwin C., and Pittman. 2,781,100.
- Reesby, Carl E., and Smith. 2,795,856.
- Roberts, Hayden, and Hower. 2,800,963.
- Stogner, Joel M. 2,813,695.
- Halliday, James H., to General Motors Corp. Lubricator. 2,810,457, 10-22-57, Cl. 184-55.
- Halliday, William, H. M. Jefferys, and A. B. C. Rankin, to Kelvin and Hughes Ltd. Non-destructive testing of solid bodies. 2,784,325, 3-5-57, Cl. 310-8.1.
- Halliday, William M., to The Leece-Neville Co. Alternator-rectifier generating system. 2,789,265, 4-16-57, Cl. 320-28.
- Hallie, Gerardus, and J. W. Hoogendonk, to Stamicarbon N. V. Preparation of urear in granular form. 2,793,398, 5-28-57, Cl. 18-47.2.
- Hallinan, William W. Air filter alarm systems and air filter alarm units. 2,804,839, 9-3-57, Cl. 116-112.
- Halliwell, Ronald H., to E. I. du Pont de Nemours and Co. Purification of dinitriles. 2,803,643, 8-20-57, Cl. 260-465.8.
- Hallman, Russell H., to Vickers Inc. Power transmission. 2,787,887, 4-9-57, Cl. 60-52.
- Hallmark Cards, Inc.: *See*—Kalhorn, Willard H. 2,810,483.
- Lohnes, Howard E. 2,797,527.
- Hallmarken, Evert: *See*—Fredh, Tore, and Hallmarken. 2,792,106.
- Hallock, Hiram Y., to Jackson Lumber Harvester Co., Inc. Remote controls mounted on movable carriages. 2,810,411, 10-22-57, Cl. 143-105.
- Hallock, Robert L. Adjustable broilers. 2,787,381, 4-2-57, Cl. 211-143.
- Hällström, Lars E. G.: *See*—Hägglund, Erik K. M., Hällström, and Richtzenhain. 2,789,974.
- Hallum, Andrew. Ground warming device. 2,793,469, 5-28-57, Cl. 47-19.
- Hallum, Andrew. Transplanter. 2,792,470, 5-28-57, Cl. 47-37.
- Hall-Welter Co., Inc.: *See*—Welter, Edwin G. 2,786,411.
- Halm, Eduard. Electric oven electrode cooling apparatus. 2,796,451, 6-18-57, Cl. 13-23.
- Halm Industries Co., Inc.: *See*—Halahan, John, Aronson, and Lyon. 2,787,214.
- Haloid Co., The: *See*—Andrus, Paul G., Matthews, and Ricker. 2,815,330.
- Bogdonoff, Harold. 2,817,277.
- Crumrine, Herbert E., and Mayo. 2,784,694.
- Gundlach, Robert W. 2,777,418.
- Gundlach, Robert W. 2,790,082.
- Gundlach, Robert W. 2,812,709.
- Hayford, Richard E. 2,808,023.
- Hayford, Richard E. 2,812,883.
- Hayford, Richard E. 2,817,598.
- Hayford, Richard E., and Crumrine. 2,811,135.
- Hayford, Richard E., and Haacke. 2,817,765.
- Hudson, Frederick W. 2,807,232.
- Kaiser, Carl B. 2,792,971.
- Lehmann, Ernest H. 2,802,949.
- Lewis, William G., Mayo, and Wolfe. 2,816,493.
- Mayo, Clyde R. 2,778,946.
- Mayo, Clyde R., and Sabel. 2,781,704.
- Paris, Bernard. 2,803,541.
- Rheinfrank, John J., and Jones. 2,788,288.
- Rosenthal, Joseph F. 2,817,767.
- Simmons, George W. F., and Saul. 2,791,949.
- Ullrich, Osmar A., Jr. 2,803,542.
- Vyverberg, Robert G. 2,802,948.
- Vyverberg, Robert G. 2,809,294.
- Walkup, Lewis E. 2,777,957.
- Walkup, Lewis E. 2,784,109.
- Haloski, Frank, to Vacuum Can Co. Heat control for immersion heater. 2,784,292, 3-5-57, Cl. 219-41.
- Halovatch, Paul. Electromagnetic refrigerator door lock. 2,783,617, 3-5-57, Cl. 62-89.
- Halpern, Howard S.: *See*—Ressler, Murray, and Halpern. 2,780,962.
- Halpern, Howard S., to the United States of America as represented by the Secretary of the Navy. Strain-gage bridge network. 2,812,489, 11-5-57, Cl. 323-75.
- Halpern, Israel A. Pouring spout. 2,790,582, 4-30-57, Cl. 222-481.5.
- Halpern, Jack: *See*—Forward, Frank A., and Halpern. 2,797,977.
- Halpern, Sam. Vegetable trimming board. 2,793,668, 5-28-57, Cl. 146-150.
- Halpern, Samuel L., and M. J. Martelli. Apparatus for drying rubber coatings on small objects. 2,808,940, 10-8-57, Cl. 211-1.6.
- Halset, Christ J., to Ideal Machine Co. Inc. Machine for baking edible cups. 2,777,404, 1-15-57, Cl. 107-66.
- Halsey, George H.: *See*—Camilli, Guglielmo, and Halsey. 2,783,441.
- Halstead, John F., to International Cigar Machinery Co. Method of aligning tobacco leaves on a feed conveyor and the filler feed in a cigar bunch machine. 2,808,058, 10-1-57, Cl. 131-21.
- Haltenberger, Jules. Automobile front seat backrest control. 2,783,826, 3-5-57, Cl. 155-163.
- Haltmeier, Alfred: *See*—Riess, Kurt, and Haltmeier. 2,805,734.
- Haltmeier, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Filtering apparatus. 2,793,756, 5-28-57, Cl. 210-360.
- Haltmeier, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Manufacture of sulfuric acid. 2,793,935, 5-28-57, Cl. 23-167.
- Haltmeier, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for effecting an exchange process between a liquid and a gas. 2,793,939, 5-28-57, Cl. 23-261.
- Haltmeier, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Heating of flowing liquids by the injection of vapor. 2,797,073, 6-25-57, Cl. 261-39.
- Halus, Michael N., and S. W. Holcomb. Ionic triode speaker. 2,793,324, 5-21-57, Cl. 315-168.
- Haluska, Loren A., to Dow Corning Corp. Xenyltrichlorosilane. 2,800,475, 7-23-57, Cl. 260-448.2.
- Haluska, Loren A., to Dow Corning Corp. Unsaturated fluorocarbon silanes and their hydrolysis products. 2,800,494, 7-23-57, Cl. 260-448.2.
- Halus, Hans C. Squaring and add-subtract mechanism for calculating machines. 2,801,052, 7-30-57, Cl. 235-63.
- Halvarson, Ralph E. Strap tightener. 2,809,008, 10-8-57, Cl. 248-362.
- Halversen, Roy A. Method of reducing iron ores containing titanium. 2,814,558, 11-26-57, Cl. 75-41.
- Halverson, Gilbert, to Fansteel Metallurgical Corp. Rectifier test system. 2,776,407, 1-1-57, Cl. 324-158.
- Halverson, Kenneth L. Measuring and dispensing container. 2,806,639, 9-17-57, Cl. 222-450.
- Halverson, Roy A. Process for smelting of ores to recover iron. 2,792,299, 5-14-57, Cl. 75-41.
- Halvorsen, Bertrand S., to A/S Strommens Vaerksted. Propeller for ships. 2,812,028, 11-5-57, Cl. 170-160.58.
- Halvorsen, Elmer W., to Sleeper & Hartley, Inc. Wire coiling machine having an accurate wire feeding mechanism. 2,792,869, 5-21-57, Cl. 153-67.

- Halvorsen, James V., and G. O. Wilson, to Federal-Mogul-Bower Bearings, Inc. Roller bearing journal box. 2,802,705, 8-13-57, Cl. 308—180.
- Halvorsen, Halvor O. Biological purification system. 2,809,933, 10-15-57, Cl. 210—16.
- Halvorsen, Robert L., to Westinghouse Electric Corp. Telephone handset terminating and amplifier circuit. 2,806,083, 9-10-57, Cl. 179—1.
- Ham, Albert W. Recording, reproduction and transmission systems. 2,808,465, 10-1-57, Cl. 179—100.1.
- Ham, Carlton W. Device adapted for laying floors. 2,780,437, 2-5-57, Cl. 254—15.
- Ham, George E., to The Chemstrand Corp. Solutions of synthetic linear condensation polymers in dimethylsulfone and process for making same. 2,811,497, 10-29-57, Cl. 260—30.8.
- Ham, George E., and A. B. Beindorff, to The Chemstrand Corp. Method of purifying aromatic dicarboxylic acids. 2,811,548, 10-29-57, Cl. 260—525.
- Ham, John L.: *See*—
Clough, Philip J., Ham, and Sinizer. 2,789,150.
- Ham, John L., and D. I. Sinizer, to National Research Corp. Electric furnace for production of metals. 2,789,152, 4-16-57, Cl. 13—31.
- Hamacher, Edward A., to North American Philips Co., Inc. Apparatus for determining crystal structure. 2,802,947, 8-13-57, Cl. 250—51.
- Hamalainen, Carl: *See*—
Reeves, Wilson A., Hamalainen, and Guthrie. 2,814,573.
- Haman, Ralph W., J. E. Candlin, Jr., and C. V. Norby, to Pullman-Standard Car Mfg. Co. Railway passenger car. 2,813,494, 11-19-57, Cl. 105—340.
- Hammann, Karl: *See*—
Krimm, Heinrich, Hammann, and Bauer. 2,784,182.
- Hamann, Walter F. Coupling devices. 2,787,894, 4-9-57, Cl. 64—8.
- Hamberger, Henry A., to Hamco Machines, Inc. Automatic circular saw sharpener. 2,808,743, 10-8-57, Cl. 76—43.
- Hamberger, John, to Sperry Rand Corp. Tool. 2,797,471, 7-2-57, Cl. 29—268.
- Hambleton, George M., to New England Bobbin & Shuttle Co. Engine control device. 2,785,584, 3-19-57, Cl. 74—472.
- Hamco Machines, Inc.: *See*—
Hamberger, Henry A. 2,808,743.
- Hamel, Lewis E., to Lewis E. Hamel Co., Inc. Fish holder for stringers. 2,801,038, 7-30-57, Cl. 224—7.
- Hamel, Lewis E., Co., Inc.: *See*—
Hamel, Lewis E. 2,801,038.
- Hamer, James I., to Boeing Airplane Co. Self-emptying diaphragm drain valve. 2,793,649, 5-28-57, Cl. 137—204.
- Hamer, Leland S. Sealed gate valve. 2,815,187, 12-3-57, Cl. 251—328.
- Hamerschlag, Allan H.: *See*—
Clarke, John T., and Hamerschlag. 2,780,604.
- Hamerski, Henry H. Traction device for vehicular wheels. 2,806,503, 9-17-57, Cl. 152—225.
- Hamilton, Allen R., to Consolidated Electrodynamics Corp. Absorption of radio frequency energy. 2,786,181, 3-19-57, Cl. 324—61.
- Hamilton, Bertis F., deceased (W. S. Hamilton, executor), and E. F. and W. S. Hamilton, to Hamilton Mfg. Corp. Folding chair. 2,794,492, 6-4-57, Cl. 155—146.
- Hamilton, Billy H., to Bell Telephone Laboratories, Inc. Regulated rectifying apparatus. 2,790,127, 4-23-57, Cl. 321—19.
- Hamilton, Donald A., to Don Baxter, Inc. Automatic volume control device. 2,798,687, 7-9-57, Cl. 249—58.
- Hamilton, Donald E.: *See*—
Fenner, Robert M., and Hamilton. 2,799,867.
Fenner, Robert M., and Hamilton. 2,809,383.
- Hamilton, Douglas J., to Hughes Aircraft Co. Linear saw-tooth wave generator. 2,814,736, 11-26-57, Cl. 307—88.5.
- Hamilton, Earl F.: *See*—
Hamilton, Bertis F., E. F., and W. S. 2,794,492.
- Hamilton, Edgar K., to Chas. Pfizer & Co., Inc. Antibiotic embalming process. 2,805,975, 9-10-57, Cl. 167—49.5.
- Hamilton, Elmer W., to The Froedtert Corp. Method of treating cooked food products. 2,779,678, 1-29-57, Cl. 99—100.
- Hamilton, Floyd: *See*—
Maynard, John E., Thomasson, and Hamilton. 2,796,566.
- Hamilton, Francis E., C. C. Zuleeg, and E. A. Brown, to International Business Machines Corp. Perforating machine. 2,800,182, 7-23-57, Cl. 164—115.
- Hamilton, Francis W.: *See*—
Roualet, Andre J. E., and Hamilton. 2,801,834.
- Hamilton, George: *See*—
McGeorge, Walter, and Hamilton. 2,794,574.
- Hamilton, Harold J., to Librascope, Inc. Magnetic permanent storage. 2,805,408, 9-3-57, Cl. 340—174.
- Hamilton, Homer G.: *See*—
Dick, Marion T., and Hamilton. 2,781,739.
- Hamilton, Jean W.: *See*—
Ingalls, David, Hamilton, and Anderson. 2,800,705.
- Hamilton, Joseph C.: *See*—
Zelt, Elmer J., and Hamilton. 2,810,112.
- Hamilton, Joseph C., to Owens-Illinois Glass Co. Ribbon forming of hollow glass articles. 2,807,121, 9-24-57, Cl. 49—5.
- Hamilton, Joseph C., to Owens-Illinois Glass Co. Furnace for the manufacture of colored glass. 2,817,191, 12-24-57, Cl. 49—54.
- Hamilton, Kenneth D. Bird feeder with perch support therefor. 2,779,311, 1-29-57, Cl. 119—51.
- Hamilton Kent Mfg. Co.: *See*—
Nathan, Tracy D. 2,809,853.
- Hamilton, Lyle A.: *See*—
Garwood, William E., and Hamilton. 2,800,467.
- Hamilton Mfg. Co.: *See*—
Rulseh, Roger D. 2,797,909.
- Hamilton Mfg. Corp.: *See*—
Hamilton, Bertis F., E. F., and W. S. 2,794,492.
Hamilton, William S. 2,807,308.
- Hamilton, Matthew E., to J. I. Case Co. Agricultural disc mounting. 2,783,103, 2-26-57, Cl. 308—181.
- Hamilton Metal Products Co., The: *See*—
Piker, Herbert M. 2,781,937.
- Hamilton, Noble E., to the United States of America as represented by the United States Atomic Energy Commission. Process of producing refractory uranium oxide articles. 2,814,849, 12-3-57, Cl. 25—156.
- Hamilton, Noble E., to the United States of America as represented by the United States Atomic Energy Commission. Refractory article and process of manufacturing same. 2,816,042, 12-10-57, Cl. 106—55.
- Hamilton, Robert C., to General Motors Corp. Electro-mechanical synchronizing apparatus. 2,782,601, 2-26-57, Cl. 60—97.
- Hamilton, Robert C., to General Motors Corp. Electro-mechanical synchronizing apparatus. 2,782,602, 2-26-57, Cl. 60—97.
- Hamilton, Robert C. Invalid bathing device. 2,810,914, 10-29-57, Cl. 4—1.
- Hamilton, Samuel A. B. Air conditioning apparatus. 2,805,559, 9-10-57, Cl. 62—139.
- Hamilton, Thomas, to Westinghouse Electric Corp. Filament positioner for support wire loop forming device. 2,811,988, 11-5-57, Cl. 140—71.6.
- Hamilton-Thomas Corp.: *See*—
Wiegiers, Irvin E. 2,779,290.
- Hamilton, Vivian B.: *See*—
Brown, Charles H. 2,783,557.
Brown, Charles H. 2,783,560.
- Hamilton, Walker: *See*—
Kerridge, Robert L., and Hamilton. 2,792,765.
- Hamilton, Wallace, to The Cleveland Pneumatic Tool Co. Multiple nut assembly with load equalizer. 2,779,207, 1-29-57, Cl. 74—459.
- Hamilton Watch Co.: *See*—
Davis, William L. 2,796,536.
Koehler, Fred. 2,777,279.
Martin, Joseph S., Jr. 2,794,037.
Petters, Oscar R. 2,777,280.
Petters, Oscar R. 2,784,546.
Schoenrock, Kenneth H. 2,806,344.
Slaugh, Richard W. 2,794,314.
Tilton, Warren D., Jr., and Hathaway. 2,798,787.
Van Horn, John A., Biemiller, and Reese. 2,806,908.
Zifferer, Morton F. 2,786,277.
- Hamilton, Will H., to Yellow Cab Co. of Philadelphia. Signalling system for taxi cabs. 2,814,028, 11-19-57, Cl. 340—68.
- Hamilton, William. Animal trap. 2,789,390, 4-23-57, Cl. 43—70.
- Hamilton, William E.: *See*—
McCaffrey, Francis H. G., and Hamilton. 2,796,834.
- Hamilton, William H.: *See*—
Flosdorf, Earl W., and Hamilton. 2,789,909.
- Hamilton, William S.: *See*—
Hamilton, Bertis F., E. F., and W. S. 2,794,492.
- Hamilton, William S., to Hamilton Mfg. Corp. Attaching device. 2,807,308, 9-24-57, Cl. 155—20.
- Hamjian, Harry J., and F. N. Darmara, to Utica Drop Forge & Tool Corp. Method of forming articles from comminuted materials. 2,783,504, 3-5-57, Cl. 18—59.5.
- Hamlin, Alfred J. Speed control devices. 2,776,581, 1-8-57, Cl. 74—526.
- Hamlin, Carl B.: *See*—
O'Keefe, Michael F., and Hamlin. 2,807,792.
- Hamlin, Halley H., to Clevite Corp. Container assembly having releasable connections. 2,792,242, 5-14-57, Cl. 285—349.
- Hamlin, Kenneth E., Jr., to Abbott Laboratories. 1-cyclobutyl-1-ethynyl-ethanol-1. 2,779,799, 1-29-57, Cl. 260—617.
- Hamlin Metal Products Corp.: *See*—
Walklet, Mercer D., and Mueller. 2,793,780.
- Hamm, Clarence L., and F. W. Baumann, to General Electric Co. Dynamoelectric machine. 2,778,958, 1-22-57, Cl. 310—57.
- Hamm, Douglas W.: *See*—
Swartz, Allan E., and Hamm. 2,798,779.
- Hamm, Douglas W., to Muskegon Piston Ring Co. Piston ring. 2,779,647, 1-29-57, Cl. 309—44.
- Hamm, Douglas W., to Muskegon Piston Ring Co. Expander structure for piston rings. 2,785,027, 3-12-57, Cl. 309—43.
- Hamm, Hugh K. Waxing and polishing mop. 2,790,988, 5-7-57, Cl. 15—231.
- Hamm, Philip C., to Monsanto Chemical Co. Selective contact herbicidal compositions. 2,805,927, 9-10-57, Cl. 71—2.7.
- Hammagren, Joel A. Hoist for ceiling material. 2,789,869, 4-23-57, Cl. 304—29.
- Hammann, Ralph A.: *See*—
Peck, David B., Hammann, and Kirkpatrick. 2,790,999.

- Hammar, Carl G. B., to Svenska Skifferolje Aktiebolaget. Catalytical removal of free oxygen from gases containing free hydrogen and hydrogen sulphide. 2,787,519, 4-2-57, Cl. 23-3.
- Hammar, Carl G. B., to Svenska Skifferolje Aktiebolaget. Process for the regeneration of a catalyst accelerating the binding of oxygen to hydrogen. 2,787,598, 4-2-57, Cl. 252-411.
- Hammar, Gustaf W., deceased; by L. B. Hammar, executrix, to the United States of America as represented by the Secretary of the Navy. Size discriminating radiation detector. 2,813,983, 11-19-57, Cl. 250-220.
- Hammar, Louise B.: *See*—
Hammar, Gustaf W. 2,813,983.
- Hammell, Kemper M., to A M P Inc. Electrical connector. 2,791,755, 5-7-57, Cl. 339-258.
- Hammell, Kemper M., to A M P Inc. Electric connector. 2,800,638, 7-23-57, Cl. 339-276.
- Hammell, Kemper M., to AMP Inc. Electrical connector. 2,816,275, 12-10-57, Cl. 339-273.
- Hammer, Alexander, to the United States of America as represented by the Secretary of the Army. Combination flash eliminator and stabilizer for a firearm. 2,792,760, 5-21-57, Cl. 89-14.
- Hammer, Alexander, to the United States of America as represented by the Secretary of the Army. Cartridge belt link. 2,809,563, 10-15-57, Cl. 89-55.
- Hammer, Alfred E. Tire bead loosening jack. 2,786,517, 3-26-57, Cl. 157-1.17.
- Hammer, Nathaniel, to American Uniform Co. Brush having universally connected handle. 2,796,619, 6-25-57, Cl. 15-172.
- Hammer, Samuel, to United Metal Cabinet Corp. Metal trim for countertops and the like. 2,783,111, 2-26-57, Cl. 311-107.
- Haumer, Samuel, to United Metal Cabinet Corp. Cabinet frame assembly. 2,785,035, 3-12-57, Cl. 312-257.
- Hammer, Samuel, to United Metal Cabinet Corp. Counter-top brace and trim construction. 2,789,874, 4-23-57, Cl. 311-106.
- Hammer, Samuel, Method for forming sheet material. 2,804,909, 9-3-57, Cl. 154-41.
- Hammer, Sigwald M., to Sinclair Research Laboratories, Inc. Faulty circuit alarm. 2,783,458, 2-26-57, Cl. 340-251.
- Hammer, William L. Paper clip. 2,781,566, 2-19-57, Cl. 24-66.
- Hammer, William L. Strap wrench. 2,787,924, 4-9-57, Cl. 81-3.43.
- Hammer, William L. Clothes drying bars. 2,804,214, 8-27-57, Cl. 211-106.
- Hammerberg, Edgar S.: *See*—
Christensen, Carl W., Hammerberg, and Chesrown. 2,813,125.
- Hammerschlag, Johann: *See*—
Bonn, Mathias, and Hammerschlag. 2,789,561.
- Hammersley, Charles T. Rupture support. 2,815,023, 12-3-57, Cl. 128-99.
- Hammerstrom, Henry H., and L. B. Woodruff. Self-starting single phase alternating current motors. 2,810,846, 10-22-57, Cl. 310-172.
- Hammesfahr, Willi, to Gebrüder Hoppich-Gesellschaft mit beschränkter Haftung. Ash tray-vehicle. 2,809,877, 10-15-57, Cl. 312-246.
- Hammit, Grady E. Hoist attachment device. 2,815,976, 12-10-57, Cl. 294-82.
- Hammit, Andrew B., and H. L. Birum, Jr. Partition construction. 2,808,136, 10-1-57, Cl. 189-34.
- Hammon, George L., to National Welding Equipment Co. Differential dry joint for fluid manifold. 2,805,871, 9-10-57, Cl. 285-18.
- Hammond, Charles F., to Gemmer Mfg. Co. Manual and power actuated steering mechanism for motor vehicles. 2,784,600, 3-12-57, Cl. 74-89.
- Hammond, Charles F., to Gemmer Mfg. Co. Power steering mechanism for motor vehicle. 2,816,455, 12-17-57, Cl. 74-492.
- Hammond, Edmund B., to Sperry Rand Corp. Electromagnetic force-producing system. 2,795,143, 6-11-57, Cl. 74-5.4.
- Hammond, Edmund B., Jr., to Sperry Rand Corp. Aircraft navigation instrument. 2,782,395, 2-19-57, Cl. 340-27.
- Hammond, Grant P. Gate lock. 2,779,617, 1-29-57, Cl. 292-288.
- Hammond, John H., Jr.: *See*—
Purington, Ellison S. 2,788,389.
Purington, Ellison S. 2,794,124.
- Hammond, John H., Jr. Thermal indicators. 2,788,282, 4-9-57, Cl. 99-192.
- Hammond, John H., Jr. Cooking stove with renewable cooking surface. 2,803,242, 8-20-57, Cl. 126-214.
- Hammond, John H., Jr., and E. S. Purington; said Purington assor, to said Hammond. Magnetic recording methods. 2,782,262, 2-19-57, Cl. 179-100.1.
- Hammond, Judd E. Can opener. 2,804,683, 9-3-57, Cl. 30-16.
- Hammond, Laurens, to Hammond Organ Co. Electronic oscillator. 2,790,906, 4-30-57, Cl. 250-36.
- Hammond, Lester A., and C. M. Doyle, to the United States of America as represented by the Secretary of the Air Force. Analtest probe. 2,806,206, 9-10-57, Cl. 324-72.5.
- Hammond, Milton B., to Rockwell Spring and Axle Co. Laminated torsion spring element. 2,786,670, 3-26-57, Cl. 267-57.
- Hammond, Milton B., to Rockwell Spring and Axle Co. Insulator pads and method of making same. 2,812,014, 11-5-57, Cl. 155-181.
- Hammond, Milton B., and G. B. Bowman, to Rockwell Spring and Axle Co. Method of making formed, plated articles. 2,776,255, 1-1-57, Cl. 204-23.
- Hammond Organ Co.: *See*—
Hammond, Laurens. 2,790,906.
Hanert, John M. 2,783,672.
Hanert, John M. 2,800,047.
- Hammond, William E., to The Air Preheater Corp. Header units for plate type heat exchanger. 2,812,165, 11-5-57, Cl. 257-245.
- Hamner, Charles H.: *See*—
Singleton, James W. 2,789,727.
- Hamner, Glen P.: *See*—
Fuqua, Mack C., and Hamner. 2,779,750.
- Hamner, Lewis T. Portable liquid dispensing device. 2,775,988, 1-1-57, Cl. 141-305.
- Hamner, Lewis T., to Vacuum Motor Corp. Bottle filling apparatus. 2,809,677, 10-15-57, Cl. 141-59.
- Hamnett, James. Hatching device for incubated eggs. 2,791,199, 5-7-57, Cl. 119-35.
- Hampel, Wilbur J.: *See*—
Troeller, Charles G., Hampel, Eckstein, and Nicolaus. 2,805,379.
- Hamper-Tainer Co. Inc.: *See*—
Zucker, Arthur J., and Heiblim. 2,780,402.
- Hamp, Charles W., to Alba Hosiery Mills, Inc. Elastic form fitting undergarment. 2,792,698, 5-21-57, Cl. 66-177.
- Hampshire, John C., to Bridgeport Brass Co. Covered skillet and bracket combination. 2,781,938, 2-19-57, Cl. 220-18.
- Hampshire, William J.: *See*—
Collins, John W., Cully, and Hampshire. 2,793,971.
- Hampton, Horace A., and R. Hurd, to Imperial Chemical Industries Ltd. Resinous polyhydric alcohols modified with polysiocyanates. 2,799,663, 7-16-57, Cl. 260-45.4.
- Hampton Mfg. Co.: *See*—
Dales, Nicholas G. 2,788,892.
- Hampton, Ronald, to Patents and Investments Ltd. Device for severing lengths of drawn stock. 2,776,006, 1-1-57, Cl. 164-68.
- Hamre, Robert W.: *See*—
Braidwood, Clinton A., and Hamre. 2,814,160.
- Hamren, Victor E., to Topp Industries Inc. Mach number sensor. 2,778,907, 1-22-57, Cl. 201-48.
- Hamrick, Howard, Jr. Hand truck with foldable platform thereon. 2,784,004, 3-5-57, Cl. 280-30.
- Hamway, Edward G.: *See*—
Lott, de Forest, and Hamway. 2,787,570.
- Han, Shu-Tang: *See*—
Whitney, Roy P., Han, and Davis. 2,802,791.
- Hance, Richard J., W. J. Spengel, D. Vandeventer, and J. L. Steinbright, to Leeds and Northrop Co. Monitoring system for continuously selecting extreme variables. 2,815,500, 12-3-57, Cl. 340-213.
- Hancock, Bernice G. Vehicle operated gate. 2,803,898, 8-27-57, Cl. 39-31.
- Hancock Industries: *See*—
Mathews, Robert L. 2,792,059.
- Hancock, James E. Earth handling apparatus. 2,791,041, 5-7-57, Cl. 37-8.
- Hancock, James E. Earth grading apparatus. 2,791,043, 5-7-57, Cl. 37-110.
- Hancock, James E. Dirt handling apparatus. 2,791,044, 5-7-57, Cl. 37-126.
- Hancock Mfg. Co.: *See*—
Marple, Rollo. 2,791,458.
Marple, Rollo. 2,803,955.
- Hancock, William. Speed responsive hydraulic brake. 2,782,878, 2-26-57, Cl. 188-183.
- Hancock, William M., to Western Electric Co., Inc. Electrical component mounting apparatus. 2,808,587, 10-8-57, Cl. 1-2.
- Hand, Don, and W. R. Swanson; said Swanson assor, to said Hand. Wall-forming process. 2,806,277, 9-17-57, Cl. 25-155.
- Hand, James F., and A. Tomlin, to Monsanto Chemical Co. Controlling the vulcanization of rubber with N,N arylene nitroso compounds. 2,798,860, 7-9-57, Cl. 260-41.5.
- Hand, James F., and A. Tomlin, to Monsanto Chemical Co. 6-alkoxy-1-nitroso dihydroquinolines for controlling the vulcanization of rubber and vulcanizates resistant to ozone. 2,811,503, 10-29-57, Cl. 260-41.5.
- Hand, John J.: *See*—
Bullock, Milon W., and Hand. 2,789,990.
- Hand, Walter. Clutch arrangement for test equipment. 2,809,735, 10-15-57, Cl. 192-84.
- Handcraft Co., Inc.: *See*—
Mills, Eugene V. 2,789,422.
- Handel, William H., Jr. Dispenser for powdered materials. 2,815,891, 12-10-57, Cl. 222-363.
- Handley Brown Heater Co.: *See*—
Bunnell, Fred H., Handley, and Bancroft. 2,775,978.
- Handley, Harold E.: *See*—
Bunnell, Fred H., Handley, and Bancroft. 2,775,978.
- Handley, John. Fitting for controlling the flow of fluid in pipe lines. 2,800,926, 7-30-57, Cl. 138-94.5.

- Handley, Melvin F., to The Dow Chemical Co. Production of styrene oxide. 2,776,982, 1-8-57, Cl. 260—348.6.
- Hands, Howard G.: *See*—
Farrington, Berners C. D., and Hands. 2,800,339.
- Handschin, Max G., to Promundo. Telephonograph with device for repetition of announcements. 2,777,899, 1-15-57, Cl. 179—6.
- Handschin, Max G., and W. Spieser, to Promundo. Telephonograph. 2,782,255, 2-19-57, Cl. 179—6.
- Handwerk, Joseph H., R. A. Noland, and D. E. Walker, to the United States of America as represented by the United States Atomic Energy Commission. Uranium-oxide-containing fuel element composition and method of making same. 2,805,473, 9-10-57, Cl. 29—182.5.
- Handy Folding Pail Co., Inc.: *See*—
Gold, Benjamin. 2,785,724.
Gold, Benjamin. 2,785,725.
- Handy, Howard C. Shrink micrometer calipers. 2,791,034, 5-7-57, Cl. 33—166.
- Handy Mfg. Co.: *See*—
Joseph, Alan H. 2,796,095.
- Hane, Wilbur A., to the United States of America as represented by the United States Atomic Energy Commission. High speed positive pulse generator. 2,783,376, 2-26-57, Cl. 250—27.
- Hanert, John M., to Hammond Organ Co. Electrical musical instrument capable of producing percussion effects. 2,783,672, 3-5-57, Cl. 84—1.26.
- Hanert, John M., to Hammond Organ Co. Electronic musical instrument. 2,800,047, 7-23-57, Cl. 84—1.01.
- Hanes Hosiery Mills Co.: *See*—
Greer, William D. 2,810,216.
Sturmer, Frederic E. 2,810,212.
- Hanes, James W. E., to Borg-Warner Corp. Drill pipe protector. 2,789,870, 4-23-57, Cl. 308—4.
- Hanes, P. H., Knitting Co.: *See*—
Crouch, Fred P. 2,814,189.
- Hanes, Robert H.: *See*—
Aldrich, Walter S., and Hanes. 2,787,941.
- Hanes, Roger A.: *See*—
Luebbers, Herman E., and Hanes. 2,810,807.
- Hanford, G. C., Mfg. Co.: *See*—
Hanford, George W. 2,781,951.
- Hanford, George W., to G. C. Hanford Mfg. Co. Device for collapsing tubes containing medicinal compounds. 2,781,951, 2-19-57, Cl. 222—103.
- Hanford, Richard I.: *See*—
Hope, Lawrence, and Hanford. 2,793,580.
- Hanford, William D., and T. J. Scarnato, to International Harvester Co. Harvester pick-up packer device. 2,796,722, 6-25-57, Cl. 56—364.
- Hanfmann, Alexander M., to Western Electric Co., Inc. Device for preventing seizure of magnetron tuning mechanism. 2,812,993, 11-12-57, Cl. 316—30.
- Hanft, Kenneth E., and N. E. Pryslak, to Radio Corp. of America. Disc lead-in for electron tubes. 2,813,219, 11-12-57, Cl. 313—252.
- Hangen, Nevin R., and R. H. Hughes, to Radio Corp. of America. Electron gun structure. 2,793,312, 5-21-57, Cl. 313—82.
- Hanhart, Walter, to Ciba Ltd. New azo-dyestuffs. 2,788,345, 4-9-57, Cl. 260—157.
- Hanhart, Walter, to Ciba Ltd. Azo-dyestuffs. 2,809,963, 10-15-57, Cl. 260—155.
- Hanhausen, Ernesto. Dispersion mills. 2,799,484, 7-16-57, Cl. 259—43.
- Hanington, Charles A., to The Scholl Mfg. Co., Inc. Arch support fitter. 2,799,873, 7-23-57, Cl. 12—1.
- Hanink, Dean K., to General Motors Corp. Forming composite articles comprising titanium or titanium-base alloys and aluminum and aluminum-base alloys. 2,785,451, 3-19-57, Cl. 22—204.
- Hanink, Dean K., to General Motors Corp. Method of casting and heat treating nickel base alloys. 2,798,827, 7-9-57, Cl. 148—3.
- Hanink, Dean K., to General Motors Corp. Salt flux and method for brazing aluminum parts therewith. 2,809,423, 10-15-57, Cl. 29—501.
- Hanink, Herman H.: *See*—
Boam, Willard M., and Hanink. 2,779,999.
- Hanisian, John, and J. Warburton, to The M. W. Kellogg Co. Separation of steam and hydrocarbons. 2,786,802, 3-26-57, Cl. 196—95.
- Hanke, Fred R. Fishhook. 2,791,055, 5-7-57, Cl. 43—36.
- Hankes, Elmer J. Test scoring apparatus. 2,805,494, 9-10-57, Cl. 35—48.
- Hankey, Herbert E.: *See*—
Noland, Harley E., and Hankey. 2,783,485.
- Hankin, Ralph L.: *See*—
Barclay, Robert J., and Hankin. 2,803,736.
- Hankins Container Co.: *See*—
Schmidt, Adolph, and Saltzmann. 2,810,329.
- Hankison Corp.: *See*—
Hankison, Lewis E. 2,790,507.
- Hankison, Lewis E., to Hankison Corp. Apparatus for filtering and dehydrating gases. 2,790,507, 4-30-57, Cl. 183—32.
- Hanks, Sidney F.: *See*—
Anderson, Melvin C., and Hanks. 2,796,849.
- Hanks, Thrift G., to Boeing Airplane Co. Ear-enveloping cups. 2,802,214, 8-13-57, Cl. 2—209.
- Hanks, William E.: *See*—
McCune, John S., and Hanks. 2,778,603.
McCune, John S., and Hanks. 2,797,893.
- Hankscraft Co.: *See*—
Conlin, James R., and Schulz. 2,806,932.
Conlin, James R., and Schulz. 2,807,701.
Daugherty, Robert L. 2,805,293.
- Hanlen, Edward J. Sub-surface type oil well pump. 2,807,218, 9-24-57, Cl. 103—158.
- Hanlet, Jacques M. N., to J. Visseaux S. A. Unidirectionally conducting elements. 2,804,580, 8-27-57, Cl. 317—234.
- Hanley, Francis J. Rock picker. 2,806,541, 9-17-57, Cl. 171—63.
- Hanley, Thomas G., to Eastman Kodak Co. Method for the rapid setting of baryta coatings. 2,780,560, 2-5-57, Cl. 117—60.
- Hanley, Walter E.: *See*—
Grupe, William F., and Hanley. 2,806,077.
- Hanlo Gage Co.: *See*—
Lovenston, Hans J. 2,807,882.
- Hanlon, Joseph E.: *See*—
Hawthorne, Kenneth B., Hanlon, Schladermundt, Metzler, and Wark. 2,790,609.
- Hanlon & Wilson Co.: *See*—
Wilson, John R. 2,795,442.
Wilson, John R. 2,801,828.
- Hann, George C.: *See*—
Stradley, Norman H., and Hann. 2,800,414.
- Hann, Melvin M.: *See*—
Stoyke, Ludwig T., and Hann. 2,780,170.
- Hanna Engineering Works: *See*—
Hanna, John C. 2,810,181.
Hanna, John C. 2,814,094.
Schupner, Willard J. 2,787,047.
Schupner, Willard J. 2,814,238.
- Hanna, John C., to Hanna Engineering Works. Method of prestressing metal plates. 2,810,191, 10-22-57, Cl. 29—556.
- Hann, John C., to Hanna Engineering Works. Portable expanding broach. 2,814,094, 11-26-57, Cl. 29—95.1.
- Hannah, Malcolm E., Jr.: *See*—
Palmer, Robert C., Hannah, and Wicke. 2,794,017.
- Hannapel, Martin H. Mechanical automatic couplers. Re. 24,354, 9-10-57, Cl. 213—212.
- Hanneman, Walter M., to Illinois Tool Works. Pyramidal sheet metal lock washer. 2,794,476, 6-4-57, Cl. 151—35.
- Hanner, John B.: *See*—
Darrow, Merritt I., and Hanner. 2,787,103.
Darrow, Merritt I., and Hanner. 2,814,920.
Grinstead, Sanford R., and Hanner. 2,799,589.
- Hannie, Eugene V.: *See*—
Bixler, George, and Hannie. 2,793,069.
- Hannifin Corp.: *See*—
Carlstedt, Philip G. 2,786,643.
Kraujalis, Felix S. 2,776,540.
Tucker, Warren R. 2,786,452.
Tucker, Warren R. 2,789,574.
- Hannig, William A., and A. H. Silver, to General Electric Co. Mechanical-electrical analog converter. 2,799,821, 7-16-57, Cl. 323—79.
- Hannigsberg, Claude, to Lignes Telegraphiques & Telephoniques. Transistor amplifier. 2,803,712, 8-20-57, Cl. 179—171.
- Hannon, Cyril H., to General Electric Co. Copper base alloys containing iron and aluminum. 2,789,900, 4-23-57, Cl. 75—159.
- Hannon, Francis B.: *See*—
Crosman, Loring P., and Hannon. 2,780,408.
- Hannon, Gilbert H. Transmission mechanism employing a positive clutch engaging element. 2,782,892, 2-26-57, Cl. 192—30.
- Hannon, Robert J.: *See*—
Scandurra, Aldo M., and Hannon. 2,795,655.
- Hannon, Robert J., to Standard Coil Products Co., Inc. Ultra high frequency signal generation. 2,777,062, 1-8-57, Cl. 250—36.
- Hannon, Robert J., to Standard Coil Products Co., Inc. Radio frequency amplifier. 2,799,736, 7-16-57, Cl. 179—171.
- Hannon, Robert J., to Standard Coil Products Co., Inc. Ultra high frequency signal generation. 2,811,640, 10-29-57, Cl. 250—36.
- Hannon, Thomas W. Electrically heated screen construction. 2,812,062, 11-5-57, Cl. 209—238.
- Hannum, Albert K., to Thompson Products, Inc. Piston ring. 2,790,686, 4-30-57, Cl. 309—44.
- Hannum, O Wayne: *See*—
Weingart, Vernon R., and Hannum. 2,780,898.
- Hanomag Aktiengesellschaft: *See*—
Nubling, Otto. 2,785,637.
- Hanovia Chemical & Mfg. Co.: *See*—
Anderson, William T., Jr., and Samer. 2,797,363.
Bird, Lester F. 2,792,635.
Jurick, Ernest F. 2,797,311.
- Hans, Edmund E. Vehicle stabilizing and anti-skidding device. 2,797,931, 7-2-57, Cl. 280—150.
- Hansberg, Fritz. Machine for the production of foundry cores and foundry moulds using compressed air. 2,793,409, 5-28-57, Cl. 22—10.
- Hansburg, George B. Pogo stick. 2,793,036, 5-21-57, Cl. 272—57.
- Hansburg, George B. Combined chair and table unit for infants. 2,812,012, 11-5-57, Cl. 155—123.

- Hansel, Paul G., to Servo Corp. of America. Direct-reading frequency meter. 2,807,781, 9-24-57, Cl. 324-78.
- Hansel, Sydney: *See—*
- Andrus, Budd W., Ford, and Hansel. 2,783,795.
- Hansel, Sydney. Rotary debarker having pneumatically operable bark-removing tools. 2,798,519, 7-9-57, Cl. 144-208.
- Hansell, Clarence W., to Radio Corp. of America. Electron discharge device structures and circuitry therefor. 2,808,470, 10-1-57, Cl. 179-171.
- Hansell, Grant E., and J. Brandinger, to Radio Corp. of America. Automatic frequency control. 2,794,120, 5-28-57, Cl. 250-20.
- Hanselman, John H.: *See—*
- Everts, Francis R., and Hanselman. 2,787,846.
- Hansen, Albert. Curtain dryer attachment. 2,799,966, 7-23-57, Cl. 45-24.
- Hansen, Albert, Jr.: *See—*
- Schwieg, Frederic P., and Hansen. 2,777,326.
- Hansen, Albert, Jr., to General Electric Co. Electric current measuring apparatus. 2,780,779, 2-5-57, Cl. 324-99.
- Hansen, Alfred E. Apparatus for degasifying liquid in wells. 2,800,085, 7-23-57, Cl. 103-203.
- Hansen, Alfred J., to Allis-Chalmers Mfg. Co. Steep wave front voltage generating system. 2,798,985, 7-9-57, Cl. 315-273.
- Hansen, Alfred A. Air circulating and distributing baseboard. 2,799,213, 7-16-57, Cl. 98-40.
- Hansen, Carl. Crab trap. 2,787,861, 4-9-57, Cl. 43-102.
- Hansen, Carl A. Container for keys, sales information, and the like. 2,813,620, 11-19-57, Cl. 206-1.
- Hansen, Charles C. Defrosting apparatus for refrigeration systems. 2,801,523, 8-6-57, Cl. 62-3.
- Hansen, Clayton C. Automobile door tool. 2,799,920, 7-23-57, Cl. 29-288.
- Hansen, Donald J. Regulator for pressurized gaseous fuel. 2,787,286, 4-2-57, Cl. 137-495.
- Hansen, Einer A. Hydraulic lift for shellers. 2,784,825, 3-12-57, Cl. 193-17.
- Hansen, Francis F. Method of and apparatus for forming dough into loaves for baking. 2,800,862, 7-30-57, Cl. 107-12.
- Hansen, Fritz B.: *See—*
- Moore, James F., and Hansen. 2,778,642.
- Hansen, George E.: *See—*
- Carr, Edward W., Hansen, and Adelman. 2,791,228.
- Hansen, George E., to Crane Co. Multi-heat motor actuated valves. 2,777,662, 1-15-57, Cl. 251-11.
- Hansen, George E., to Crane Co. Renewable bushing for a valve actuator. 2,780,434, 2-5-57, Cl. 251-222.
- Hansen, Gerhard, and K.-H. Voigt, to C. Zeiss. Variable slit diaphragm, especially for optical instruments. 2,795,170, 6-11-57, Cl. 88-61.
- Hansen, Gilbert H., to Furnas Electric Co. Manually resettable pressure actuated switch. 2,790,869, 4-30-57, Cl. 200-83.
- Hansen, Gilbert H., to Furnas Electric Co. Fluid pressure actuated switch. 2,790,870, 4-30-57, Cl. 200-83.
- Hansen, Hans H., and R. W. Pearson, to The Taylor-Winfield Corp. Electrode actuating mechanism for hot upsetting machines. 2,800,572, 7-23-57, Cl. 219-151.
- Hansen, Harold V., to Deere & Co. Seed dispensing assembly for planter. 2,784,883, 3-12-57, Cl. 222-223.
- Hansen, Hendrik N., to North American Philips Co., Inc. Carrier-wave telephone system. 2,790,029, 4-23-57, Cl. 179-15.
- Hansen, Hendrik N., and F. A. Vitha, to Hartford National Bank and Trust Co., as trustee. Supervisory equipment for carrier-wave telephone systems. 2,784,264, 3-5-57, Cl. 179-175.31.
- Hansen, Henning J. Adjustable piano pedal. 2,799,197, 7-16-57, Cl. 84-229.
- Hansen, Howard J., to The Hansen Mfg. Co. Pipe coupling with wedged spring ring detent means. 2,805,089, 9-3-57, Cl. 285-317.
- Hansen, Johannes P., and M. M. Waldrop, to Southern States Equipment Corp. Transversely operated clutch. 2,791,305, 5-7-57, Cl. 192-76.
- Hansen, John. Bread-slicing blade of endless band type. 2,795,255, 6-11-57, Cl. 146-88.
- Hansen, John R. Sweep rake tooth point. 2,778,185, 1-22-57, Cl. 56-400.
- Hansen, Leslie N. Wedge fastened cabinet hinge. 2,794,207, 6-4-57, Cl. 16-159.
- Hansen, Lloyd F., and J. F. Weidenheimer, to American Cyanamid Co. Rapid preparation of encapsulation mixture. 2,799,592, 7-16-57, Cl. 106-135.
- Hansen Mfg. Co., The: *See—*
- Hansen, Howard J. 2,805,089.
- Hansen, Nils I.: *See—*
- Sjöblom, Åke E., and Hansén. 2,794,611.
- Hansen, Norris D.: *See—*
- Harty, James J., Hansen, and Dux. 2,806,911.
- Hansen, Odd A., to Union Carbide Corp. Double wall tank. 2,814,410, 11-26-57, Cl. 220-15.
- Hansen, Ove H. Combination table, cabinet and folding bed. 2,788,528, 4-16-57, Cl. 5-6.
- Hansen, Siegfried, to Hughes Aircraft Co. Electrical calculating machines. 2,787,416, 4-2-57, Cl. 235-61.
- Hansen, Siegfried, to Hughes Aircraft Co. Direct-viewing storage tube. 2,788,466, 4-9-57, Cl. 315-12.
- Hansen, Siegfried, to Hughes Aircraft Co. Electronic selector switch. 2,806,175, 9-10-57, Cl. 315-12.
- Hansen, Siegfried, to Hughes Aircraft Co. Record-impressing apparatus. 2,813,481, 11-19-57, Cl. 101-93.
- Hansen, Siegfried, N. J. Koda, H. M. Smith, and S. T. Smith, to Hughes Aircraft Co. Direct-viewing storage tube. 2,798,185, 7-2-57, Cl. 315-13.
- Hansen, Theodore A., to Teletype Corp. Motor controller. 2,777,979, 1-15-57, Cl. 318-314.
- Hansen, Thorwald H. Thermal pump for gases. 2,789,754, 4-23-57, Cl. 230-1.
- Hansley, Virgil L., and S. Schott, to National Distillers and Chemical Corp. Selective process for dimerization of unsaturated hydrocarbons. 2,816,917, 12-17-57, Cl. 260-533.
- Hansley, Virgil L., and S. Schott, to National Distillers and Chemical Corp. Process for formation of dialkali metal dimers of diolefins. 2,816,936, 12-17-57, Cl. 260-665.
- Hanslick, Roy S.: *See—*
- Seifter, Joseph, Hanslick, and Freed. 2,780,646.
- Hanslick, Roy S., and W. F. Bruce, to American Home Products Corp. p-Aminobenzyl methyl ether derivatives. 2,784,229, 3-5-57, Cl. 260-570.6.
- Hanslick, Roy S., and W. F. Bruce, to American Home Products Corp. Imidazole salts of penicillin. 2,801,243, 7-30-57, Cl. 260-239.1.
- Hanslip, Charles W. Friction brake or clutch. 2,784,824, 3-12-57, Cl. 192-107.
- Hanson, Alden W.: *See—*
- Donaldson, Walter E., and Hanson. 2,817,399.
- Hanson, Alfred H., to The Fairbanks Co. Hand truck for transporting and servicing television sets. 2,778,515, 1-22-57, Cl. 214-374.
- Hanson, Alfred H., to The Fairbanks Co. Combined hand truck and lift. 2,801,861, 8-6-57, Cl. 280-44.
- Hanson, Alfred H., to The Fairbanks Co. Skid jack. 2,812,951, 11-12-57, Cl. 280-46.
- Hanson, Bror E., to United States Envelope Co. Automatic tab inserting mechanism for an envelope making machine. 2,795,172, 6-11-57, Cl. 93-93.
- Hanson, Charles T., and H. M. Hodge, to National Distillers Products Corp. Method of developing starter and producing animal feed rich in vitamin B₁₂. 2,785,068, 3-12-57, Cl. 99-9.
- Hanson, Edward S., Jr.: *See—*
- Longenecker, Ernst A., and Hanson. 2,796,143.
- Hanson Equipment Co.: *See—*
- Corl, Cady S. 2,778,688.
- Hegstad, Lester O. 2,778,687.
- Hanson, Floyd V. Self-feeding bunker or trench silo construction. 2,815,001, 12-3-57, Cl. 119-58.
- Hanson, Frank R. Water distributor. 2,804,879, 9-3-57, Cl. 137-112.
- Hanson, George E., to Phillips Petroleum Co. Method of removing olefin polymer from process equipment. 2,801,234, 7-30-57, Cl. 260-94.7.
- Hanson, George E., to Phillips Petroleum Co. Hydrogenation catalyst removal with montmorillonite clay. 2,816,097, 12-10-57, Cl. 260-85.1.
- Hanson, Helmer C., to Eureka Specialty Printing Co. Stamp dispensing machine. 2,781,840, 2-19-57, Cl. 164-42.
- Hanson, Henning E. Tone control. 2,780,683, 2-5-57, Cl. 179-171.
- Hanson, Henry L., Co.: *See—*
- Hjort, John. 2,814,845.
- Hanson, Jean A. Dressmaker pin. 2,788,556, 4-16-57, Cl. 24-156.
- Hanson, John C., to the United States of America as represented by the Secretary of Agriculture. Planting trencher. 2,815,725, 12-10-57, Cl. 111-2.
- Hanson, John S.: *See—*
- La Belle, Jack E., Lahr, and Hanson. 2,818,259.
- Hanson, Katharine T.: *See—*
- Thomas, Percy H. 2,803,589.
- Hanson, Louis P., and H. H. Suskin. Electric switching means. 2,783,326, 2-26-57, Cl. 200-84.
- Hanson, Nels L. Vehicle body structure. 2,816,797, 12-17-57, Cl. 298-28.
- Hanson, Oscar B.: *See—*
- Goodale, Elmer D., and Hanson. 2,794,849.
- Hanson, Oswin P., to Flexibox Ltd. Lapping machines. 2,782,571, 2-26-57, Cl. 51-131.
- Hanson, Russel O. Reflective type warning sign. 2,802,443, 8-13-57, Cl. 116-63.
- Hanson-Van Winkle-Munning Co.: *See—*
- Foulke, Donald G., and Kardos. 2,818,376.
- Hauck, Paul A. 2,802,559.
- Hauck, Paul A., and Levering. 2,807,349.
- Kardos, Otto. 2,807,576.
- Hanson, Victor E., to Lamb-Grays Harbor Co., Inc. Conveyor. 2,785,928, 3-19-57, Cl. 302-17.
- Hanssler, Edward, to Colonial-Premier Co. Electric switch actuating mechanism. 2,790,041, 4-23-57, Cl. 200-61.58.
- Hansson, Hugo, to Allmanna Svenska Elektriska Aktiebolaget. Measurement of intensity and transmission of impulses through the same transmission line. 2,780,799, 2-5-57, Cl. 340-180.
- Hantack, Melvin, to McQuay-Norris Mfg. Co. Contact means for thermostatic control switch. 2,813,180, 11-12-57, Cl. 200-166.
- Hanthorn, Horace F., to Radio Corp. of America. Wavemeter. 2,790,150, 4-23-57, Cl. 333-82.
- Hantman, Irvin. Teaching device simulating the human ear. 2,778,125, 1-22-57, Cl. 35-17.

- Hanze, Arthur R., to The Upjohn Co. Process for oxidation of 1-dehydrohydrocortisone 21-acrylates to 1-dehydrocortisone 21-acrylates. 2,813,108, 11-12-57, Cl. 260—397.45.
 Hapman Conveyors, Inc.: See—
 Sigardson, Chris. 2,779,454.
 Hapman, Hannah J.: See—
 Hapman, Henry W. 2,809,744.
 Hapman, Henry W. 2,812,849.
 Hapman, Henry W. 2,812,924.
 Hapman, Henry W. 2,817,430.
 Hapman, Henry W., 40% to H. J. Hapman. Driving unit for bucket conveyors. 2,809,744, 10-15-57, Cl. 198—203.
 Hapman, Henry W., deceased, 40% to H. J. Hapman; M. S. Huffaker and H. J. Hapman, executors. Flow-regulating conduit device. 2,812,849, 11-12-57, Cl. 198—220.
 Hapman, Henry W., deceased, 40% to H. J. Hapman; M. S. Huffaker and H. J. Hapman, executors. Conveying drying apparatus. 2,812,924, 11-12-57, Cl. 257—23.
 Hapman, Henry W., deceased, 40% to H. J. Hapman; M. S. Huffaker and H. J. Hapman, executors. Tire-driven conveying apparatus. 2,817,430, 12-24-57, Cl. 198—140.
 Happe, Melvin J.: See—
 Skromme, Lawrence H., and Happe. 2,777,275.
 Happe, Melvin J., to Sperry Rand Corp. Trailer implement frame construction for tractor drawn and powered implements. 2,788,988, 4-16-57, Cl. 280—415.
 Happe, Melvin J., and H. G. McCarty, to Sperry Rand Corp. Rake suspension for side delivery rake. 2,781,626, 2-19-57, Cl. 56—377.
 Happe, Melvin J., and L. W. Miller, to Sperry Rand Corp. Mounting for reciprocating cutting assembly. 2,786,319, 3-26-57, Cl. 56—25.
 Happe, Ralph A.: See—
 Jaffee, Robert I., Ogden, and Happe. 2,796,347.
 Happe, Reynold, to The Singer Mfg. Co. Snap-acting switch mechanisms. 2,789,172, 4-16-57, Cl. 200—67.
 Happel, John, and C. J. Marsel, to the United States of America as represented by the Secretary of the Navy. Blends of acetylenic hydrocarbons. 2,813,013, 11-12-57, Cl. 52—5.
 Happel, John, C. J. Marsel, D. Kessler, and G. Mechanic, to the United States of America as represented by the Secretary of the Navy. Synthesis of an octatriyne. 2,816,149, 12-10-57, Cl. 260—678.
 Happel, William E., to Landis Tool Co. Interlocking work drive and clamping mechanism. 2,809,472, 10-15-57, Cl. 51—105.
 Hara, Michio: See—
 Tanaka, Isokazu, Asakura, and Hara. 2,804,590.
 Haracz, Edward F. Contact wheels for belts. 2,806,379, 9-17-57, Cl. 74—230.3.
 Harada, Genzaburo. Apparatus for magnetic ore-dressing. 2,783,881, 3-5-57, Cl. 209—39.
 Harasek, Richard J.: See—
 Owen, George E., Jr., and Harasek. 2,813,155.
 Harault, Georges, to Forges et Ateliers de Constructions Electriques de Jeumont. Electrical isolating switches. 2,788,403, 4-9-57, Cl. 200—48.
 Harault, Jean L., to Compagnie Industrielle des Telephones. Level regulating devices for transmission systems for coaxial cables. 2,777,994, 1-15-57, Cl. 333—16.
 Harb, Mitchell A. Cement spraying machine for tires. 2,799,243, 7-16-57, Cl. 118—320.
 Harban, Arthur A.: See—
 Bulkeley, William L., Harban, Krebs, and Ryant. 2,814,070.
 Twaddle, Warren W., Harban, and Arnold. 2,813,089.
 Harbers, Henry C., to Cook Bros. Equipment Co. Weight distribution and traction control means for three-axle vehicles. 2,777,529, 1-15-57, Cl. 180—22.
 Harbers, Henry C., and E. D. Sharpe, to Cook Bros. Equipment Co. Drum control means for transit concrete mixers. 2,781,186, 2-12-57, Cl. 259—177.
 Harbers, Henry C., and D. R. Merchant, to Cook Bros. Equipment Co. Dump truck. 2,794,678, 6-4-57, Cl. 298—22.
 Harbers, Henry C., and D. R. Merchant, to Cook Bros. Equipment Co. Dump truck. 2,815,980, 12-10-57, Cl. 298—14.
 Harberts, Richard D. Corn crib or like. 2,796,156, 6-18-57, Cl. 189—3.
 Harbison, George C., to General Electric Co. Refrigerator shelving arrangement. 2,776,866, 1-8-57, Cl. 312—311.
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 Davies, Ben. 2,792,311.
 McCreight, Donald O., and Birch. 2,805,167.
 Harbour, Albert S., and A. E. Leach, to General Motors Corp. Transmission control. 2,800,805, 7-30-57, Cl. 74—484.
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 Desty, Dennis H., and Harbourn. 2,814,612.
 Desty, Dennis H., and Harbourn. 2,814,613.
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 Hardaway, Henry Z., to Bell Telephone Laboratories, Inc. Flange coupling. 2,788,498, 4-9-57, Cl. 333—98.
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 Hardenbergh, George A., to the United States of America as represented by the Secretary of the Navy. Binary accumulator circuit. 2,780,409, 2-5-57, Cl. 235—61.
 Harder, Edwin L., to Westinghouse Electric Corp. Self-trip circuit breaker. 2,809,330, 10-8-57, Cl. 317—36.
 Harder, John R.: See—
 Mahaffy, Reid A., Young, and Harder. 2,778,177.
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 Harder, Karl M. Gauging and sorting device. 2,789,693, 4-23-57, Cl. 209—88.
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 Hardesty, Ethridge E., to Fairchild Engine and Airplane Corp. Welding methods and apparatus. 2,810,816, 10-22-57, Cl. 219—82.
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 Hardesty, Ethridge E., and A. K. Hill, to Fairchild Engine and Airplane Corp. Resistance welding methods and apparatus. 2,814,718, 11-26-57, Cl. 219—107.
 Hardesty, George K. C. Illuminating assembly for indicating instruments. 2,792,803, 5-21-57, Cl. 116—129.
 Hardesty, George K. C. Laminated metal-plastic illuminable panel. 2,795,069, 6-11-57, Cl. 40—130.
 Hardesty, George K. C. Illuminated panel-uninterrupted translucent lamination. 2,805,505, 9-10-57, Cl. 40—130.
 Hardesty, George K. C. Illuminated panel-modifications of duo-panel system. 2,810,225, 10-22-57, Cl. 40—130.
 Hardesty, Jean A., to California Research Corp. Air distributing device for service station pump blocks. 2,798,421, 7-9-57, Cl. 98—2.
 Hardesty, Richard D. Food mixers. Re. 24,389, 11-12-57, Cl. 74—22.
 Hardgrave, Earl L. Trigger mechanism. 2,788,601, 4-16-57, Cl. 42—69.
 Hardgrove, Wallace J., Jr. Means for fabricating hollow articles from organic plastic materials. 2,792,593, 5-21-57, Cl. 18—19.
 Hardie, Donald E. Babies' high chairs. 2,790,486, 4-30-57, Cl. 155—124.
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 Harding, Frederick H., and F. Bruder, to Rohm & Haas Co. Process of decolorizing sugar solutions with a porous quaternary ammonium anion exchanger. 2,785,998, 3-19-57, Cl. 127—46.
 Harding, George W., to Automatic Draft and Stove Co., Inc. Down draft stove control. 2,797,874, 7-2-57, Cl. 236—96.
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 Harding, James, to Union Carbide and Carbon Corp. Odor inhibited polyethylene. 2,801,225, 7-30-57, Cl. 260—41.
 Harding, John H., generally known as Harry J. Harding, to C. H. Masland & Sons. Terry pile weave. 2,814,314, 11-26-57, Cl. 139—39.
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 Harding, William H. Tire chain repairing device. 2,799,192, 7-16-57, Cl. 81—15.
 Harding, William R., to Westinghouse Electric Corp. Dynamometer contact knife blade. 2,785,326, 3-12-57, Cl. 310—93.
 Harding, William R., W. Schaelehl, and G. E. Mathias, to Westinghouse Electric Corp. Adjustable voltage drive. 2,785,362, 3-12-57, Cl. 318—143.
 Hardinge Brothers, Inc.: See—
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 Parsons, Hubert J. 2,786,687.
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 Bourns, Marlan E., and Hardison. 2,799,757.
 Hardley, Frank J. Straightedge type geometrical instrument. 2,807,879, 10-1-57, Cl. 33—75.
 Hardman, Donald E., to Union Carbide Corp. Plasticized vinyl resin composition. 2,806,828, 9-17-57, Cl. 260—30.4.
 Hardman, Harley F., to The Standard Oil Co. Process for oxidizing asphalts. 2,776,932, 1-8-57, Cl. 196—74.
 Hardman, Harley F., and R. F. Jenkins, to The Standard Oil Co. Asphalt emulsions containing amine derivatives of PzS-olefin products. 2,780,557, 2-5-57, Cl. 106—277.
 Hardman, Harley F., and R. F. Jenkins, to The Standard Oil Co. Method of preparing an asphalt emulsion. 2,789,917, 4-23-57, Cl. 106—277.
 Hardman, Harley F., and E. D. Wells, to The Standard Oil Co. Method of preparing asphalt emulsions containing aluminum sulfate. 2,789,918, 4-23-57, Cl. 106—277.

- Hardman Tool & Engineering Co.: See—
Monroe, Benjamin F., and Lucas. 2,805,904.
- Hardmuth, L. & C., Inc.: See—
Gigli, Giulio. 2,801,613.
- Hardoen, Robert H., to Hohman Plating & Mfg. Inc. Protective coating and process of producing same. 2,812,298, 11-5-57, Cl. 204—40.
- Hardrath, Fredrick A., to A. T. O'Neil and G. H. Danielson. Work table with tilting table top. 2,787,509, 4-2-57, Cl. 311—38.
- Hardt, Paul E.: See—
Kosmider, Johannes, and Hardt. 2,803,535.
- Hardtmayer, Alfred R., Jr., to United States Steel Corp. Combination coil supporting and covering apparatus for box annealing furnace. 2,784,957, 3-12-57, Cl. 263—49.
- Hardware Designers, Inc.: See—
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- Hardway, Edward V., Jr., to Consolidated Electrodynamics Corp. Electrokinetic-transducing devices. 2,782,394, 2-19-57, Cl. 340—13.
- Hardwicke-Etter Co.: See—
Streun, John A. 2,803,044.
- Hardy, Albert L.: See—
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- Hardy, Alfred W., to The Thomas & Betts Co. Installing head. 2,792,853, 5-21-57, Cl. 140—113.
- Hardy, Austin E., to Radio Corp. of America. Measurement of cathode ray tube screen color uniformity. 2,799,825, 7-16-57, Cl. 324—20.
- Hardy, Charles R.: See—
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- Hardy, Edgar E., to Monsanto Chemical Co. Bleaching, sterilizing, disinfecting, and deterging compositions. Re. 24,412, 12-31-57, Cl. 252—99.
- Hardy, Francis H., and J. F. Scamman, to General Electric Co. Terminal. 2,788,507, 4-9-57, Cl. 339—272.
- Hardy, Henry G.: See—
Snook, Walter B. 2,795,454.
- Tocci-Guilbert, Berne, and Blum. 2,789,402.
- Hardy, Henry L. Awning window. 2,798,263, 7-9-57, Cl. 20—42.
- Hardy, Robert L., to Esso Research and Engineering Co. Deashing of hydrocarbon oils. 2,789,083, 4-16-57, Cl. 196—50.
- Hardy, William B., and O. G. Birsten, to American Cyanamid Co. 5(8)10(N)isothiazolobenzanthracenedioxides. 2,799,682, 7-16-57, Cl. 260—304.
- Hardy, William H. Spring lock for a handbag or the like. 2,810,599, 10-22-57, Cl. 292—228.
- Hare, George H., and E. W. Molloy, to Beckman Instruments, Inc. Current measuring device. 2,799,005, 7-9-57, Cl. 324—123.
- Hare, Richard C., to Vickers Inc. Power transmission. 2,807,273, 9-24-57, Cl. 137—108.
- Hare, Weston A., to E. I. du Pont de Nemours and Co. Process of setting the crimp in acrylonitrile polymer fibers with chemical shrinking and setting agents. 2,808,311, 10-1-57, Cl. 8—130.1.
- Har'el, Abraham, to Radio Corp. of America. Phase converter circuit. 2,788,398, 4-9-57, Cl. 179—171.
- Har'el, Abraham, to Radio Corp. of America. Motor control circuit. 2,813,238, 11-12-57, Cl. 318—207.
- Harford, Arthur D.: See—
Shillitoe, George S., and Harford. 2,793,154.
- Harford, Charles G., to Arthur D. Little, Inc. Corrosion inhibiting composition for coating metal, coated metal and method of coating. 2,816,051, 12-10-57, Cl. 148—6.2.
- Harford, Edward F., to E. I. du Pont de Nemours and Co. Antifreeze compositions containing tricresyl phosphate as a foam inhibitor. 2,777,821, 1-15-57, Cl. 252—78.
- Harford, George F. Cattle guards. 2,790,626, 4-30-57, Cl. 256—17.
- Hargens, Charles W., to Radio Condenser Co. Saturable reactor tuning of superheterodyne receiver with differential control of saturation for tracking. 2,810,826, 10-22-57, Cl. 250—20.
- Harger, Michael H., 75% to S. H. Grosberg. Hydraulic remote control system. 2,796,737, 6-25-57, Cl. 60—54.5.
- Hargis, Charles W.: See—
Hagemeyer, Hugh J., Jr., Thompson, and Hargis. 2,786,867.
- Hargivys, Inc.: See—
Harper, Roscoe H. 2,807,807.
- Hargraves, Woodrow J., and L. A. Clarke. Casting mold for printer's base and stereotypes. 2,782,469, 2-26-57, Cl. 22—5.
- Hargreaves, Robert F. Drum sander. 2,789,401, 4-23-57, Cl. 51—194.
- Hargreaves, Thomas F. S., H. T. Prior, and W. F. S. Chittleburgh, to International Standard Electric Corp. Voice frequency signal receivers. 2,806,903, 9-17-57, Cl. 179—84.
- Hargrove, Atwood H., to Bendix Aviation Corp. Crystal controlled oscillator. 2,777,061, 1-8-57, Cl. 250—36.
- Hargrove, Atwood H., to Bendix Aviation Corp. Remote crystal switching for oscillators. 2,777,063, 1-8-57, Cl. 250—36.
- Hargrove, Sanford L., and T. R. Sharp, to Boeing Airplane Co. Rotary metal cutter. 2,782,489, 2-26-57, Cl. 29—103.
- Hargus, William D. Grading markers. 2,798,317, 7-9-57, Cl. 40—2.
- Haricot, Maurice. Musical boxes for which the tunes can be composed. 2,780,952, 2-12-57, Cl. 84—97.
- Haring, Horace E., to Bell Telephone Laboratories, Inc. Semi-conductive translator. 2,816,850, 12-17-57, Cl. 148—33.
- Haring, Ralph. Exhaust air jet. 2,812,634, 11-12-57, Cl. 60—32.
- Haringx, Johannes A., to North American Philips Co., Inc. Device for driving perforated picture film tape by means of a toothed constant-speed drive roller. 2,789,816, 4-23-57, Cl. 271—2.3.
- Harkenrider, Robert J., to G. D. Miller. Lubricators for diesel locomotive traction motor suspension bearings. Re. 24,301, 4-16-57, Cl. 308—132.
- Harkenrider, Robert J., to Continental Can Co., Inc. Pipe fitting for connecting metal pipe to plastic pipe. 2,776,151, 1-1-57, Cl. 285—174.
- Harkenrider, Robert J., to Miller Lubricator Co. Core for journal lubricator. 2,798,776, 7-9-57, Cl. 308—243.
- Harkenrider, Robert J., to Miller Lubricator Co. Journal box packing. 2,801,138, 7-30-57, Cl. 308—243.
- Harkensee, George, to Fernseh G. m. b. H. Electron discharge tube apparatus. 2,803,770, 8-20-57, Cl. 313—84.
- Harker, Charles B., to Thomas J. Lipton, Inc. Method of and apparatus for inserting flexible strips into bags. 2,795,906, 6-18-57, Cl. 53—26.
- Harkess, George A.: See—
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- Harkess, William L., and G. A. Packaging machine. 2,801,774, 8-6-57, Cl. 222—226.
- Harkey, Thomas H.: See—
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- Harkness, Andrew W. Toilet tank flush valve ball. 2,777,135, 1-15-57, Cl. 4—56.
- Harkness, Andrew W. Guide and ball flush valve. 2,777,136, 1-15-57, Cl. 4—57.
- Harkness, George L. Loading and unloading devices for motor vehicles. 2,788,137, 4-9-57, Cl. 214—83.24.
- Harkness, Joseph R.: See—
Lechtenberg, Leo J., and Harkness. 2,796,454.
- Harkness, Reed B., and E. E. Lacey, to The C. Dewitt Lukens Surgical Mfg. Co. Ligature package. 2,788,893, 4-16-57, Cl. 206—63.3.
- Harkness, Reed B., and E. E. Lacey, to The C. Dewitt Lukens Surgical Mfg. Co. Sterile container and ligature package. 2,801,741, 8-6-57, Cl. 206—63.3.
- Harkness, Reed B., and E. E. Lacey, to The C. Dewitt Lukens Surgical Mfg. Co. Ligature receptacle. 2,804,203, 8-27-57, Cl. 206—63.3.
- Harks, Walter M. Multiple level indicator for a tank variety vehicle. 2,785,648, 3-19-57, Cl. 116—118.
- Harlan, Avery S., to Industrial Filtration Co. Magnetic separator. 2,783,890, 3-5-57, Cl. 210—1.5.
- Harlan, Campbell A., and J. M. Erection apparatus. 2,794,687, 6-4-57, Cl. 304—2.
- Harlan, Don L., and J. M. Barron, to The Texas Co. Reaming apparatus. 2,799,475, 7-16-57, Cl. 255—1.8.
- Harlan, James T., Jr., to Shell Development Co. Synthesis of oxygenated compounds. 2,779,802, 1-29-57, Cl. 260—638.
- Harlan, John M.: See—
Harlan, Campbell A., and J. M. 2,794,687.
- Harlan, Stephen O., to Zimmerman Brush Works, Inc. Brushes. 2,790,985, 5-7-57, Cl. 15—183.
- Harland, Philip W.: See—
Le Van, Ambrose E., Harland and Waite. 2,789,206.
- Harland, Philip W., to American Machine and Metals, Inc. Mounting means for measuring instrument. 2,790,617, 4-30-57, Cl. 248—278.
- Harle, Oliver L.: See—
Abbott, Andrew D., Harle, and Thomas. 2,795,549.
- Abbott, Andrew D., Thomas, and Harle. 2,795,552.
- Thomas, John R., and Harle. 2,795,548.
- Harle, Oliver L., and J. R. Thomas, to California Research Corp. Lubricating oil compositions. 2,795,547, 6-11-57, Cl. 252—49.6.
- Harle, Oliver L., J. R. Thomas, and A. D. Abbott, to California Research Corp. Lubricating oil compositions. 2,795,550, 6-11-57, Cl. 252—49.7.
- Harle, Oliver L., and J. R. Thomas, to California Research Corp. Lubricant compositions. 2,795,551, 6-11-57, Cl. 252—49.7.
- Harless, Charles A., to R. Hoe & Co., Inc. Inking mechanism for printing machines. 2,811,919, 11-5-57, Cl. 101—178.
- Harless, Charles A., to R. Hoe & Co., Inc. Inking mechanisms for printing machines. 2,813,485, 11-19-57, Cl. 101—366.
- Harley-Davidson Motor Co.: See—
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- Harley, Earl, Inc.: See—
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- Harley, Joseph J., T. C. Henneberger, and R. G. Watling, to Bell Telephone Laboratories, Inc. Installation of overhead transmission lines. 2,785,217, 3-12-57, Cl. 174—40.
- Harley, Max. Call device. 2,782,558, 2-26-57, Cl. 46—180.
- Harley, Max. Non-slug fish hook. 2,796,692, 6-25-57, Cl. 43—42.04.
- Harley, William J., to Harley-Davidson Motor Co. Luggage carriers for cycles. 2,783,927, 3-5-57, Cl. 224—32.
- Harman, Albert L. Wiener forming rack and smoke stick. 2,780,831, 2-12-57, Cl. 17—34.

- Harman, Arthur E., to L. Reichmann. Strip-like member reversibly convertible from a flexible to a rigid condition. 2,806,562, 9-17-57, Cl. 189-34.
- Harman, Cameron G.: *See—*
Fenit, Robert D., Harman, and Wainer. 2,803,554.
- Harman, Cameron G., and J. W. Lennon, to Cambridge Tile Mfg. Co. Ceramic composition having thermal shock resistance. 2,776,896, 1-8-57, Cl. 106-39.
- Harman, Julius, to Wilmot-Breeden Ltd. Vehicle door fastening. 2,811,382, 10-29-57, Cl. 292-335.
- Harman, Marion W.: *See—*
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- Harman, Melvin H., to General Steel Products Co., Inc. Sofa bed. 2,796,615, 6-25-57, Cl. 5-47.
- Harman, Palmer. Multiple blade safety razor with aligning means. 2,807,084, 9-24-57, Cl. 30-50.
- Harman, Theodore C.: *See—*
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- Harmes, Oren B., to Livingston Tool Co. Torque clutch. 2,796,160, 6-18-57, Cl. 192-56.
- Harmes, Oren B., to Livingston Tool Co. and Ladish Co. Facing tools. 2,811,903, 11-5-57, Cl. 90-12.
- Harmes, Oren B., and G. J. Stewart, to Livingston Tool Co. Irrigation control valve. 2,813,694, 11-19-57, Cl. 251-89.
- Harmon, Bernard. Method of printing carbon transfer ink in a spaced design on paper. 2,781,278, 2-12-57, Cl. 117-36.
- Harmon, Darell B.: *See—*
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- Harmon, Hodges T. Frost preventer. 2,800,746, 7-30-57, Cl. 47-2.
- Harmon, Jerome Z. Oil line clearing and testing device. 2,803,961, 8-27-57, Cl. 73-168.
- Harmon, Paul V., to Precision Parts Corp. Folding stairway. 2,815,159, 12-3-57, Cl. 228-50.
- Harmon, Ralph N., and E. J. Naumann, to the United States of America as represented by the Secretary of the Navy. Turbine driven fuze. 2,795,190, 6-11-57, Cl. 102-81.2.
- Harmon, William A.: *See—*
Brown, Joseph E., and Harmon. 2,816,324.
- Harmesen, Gerrit J.: *See—*
Van Heiningen, Jan, and Harmesen. 2,816,043.
- Harned, Roger L., to Commercial Solvents Corp. Recovery of cyclohexene. 2,789,983, 4-23-57, Cl. 260-307.
- Harner, Joseph P., to The W. F. Norman Sheet Metal Mfg. Co. Incinerator. 2,804,030, 8-27-57, Cl. 110-18.
- Harness, Lawrence W., to General Motors Corp. Method of making a propeller blade. 2,807,870, 10-1-57, Cl. 29-156.8.
- Harness, Wayne E., to Walter Kidde & Co., Inc. Thermo-static switch. 2,777,919, 1-15-57, Cl. 200-137.
- Harnet, A. De Vere. Differential drive mechanism seal. 2,818,129, 12-31-57, Cl. 180-75.
- Harnett, A. De Vere. Power driven lawn mower. 2,805,536, 9-10-57, Cl. 56-25.4.
- Harney, Bernard C., and F. D. Lakins, to Lipe-Rollway Corp. Automatic bar feed for multiple spindle bar working machines. 2,781,574, 2-19-57, Cl. 29-93.
- Harney, Doran B., to Pacific Pumps, Inc. Shaft sealing device with standby seal. 2,818,286, 12-31-57, Cl. 286-11.15.
- Harney, William J. Chain lock for closures. 2,816,431, 12-17-57, Cl. 79-93.
- Harney, William M. Water heating device. 2,784,291, 3-5-57, Cl. 219-38.
- Harnischfeger Corp.: *See—*
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Schneider, Karl. 2,800,205.
- Harocopi, Marino N. Extensible ski pole. 2,818,290, 12-31-57, Cl. 287-58.
- Harowitz, Charles L.: *See—*
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- Harp, Dallas S., and R. R. Richolt, to Lockheed Aircraft Corp. Hydraulic transfer valve. 2,802,453, 8-13-57, Cl. 121-38.
- Harper, Charles L. Conveyers. 2,788,117, 4-9-57, Cl. 198-173.
- Harper, David, L. R. Peebles, and L. R. Swank, to R. R. Donnelley & Sons Co. Skid and pallet handling lift truck. 2,788,147, 4-9-57, Cl. 214-621.
- Harper, Kennard W., to American Optical Co. Gun sight mounts. 2,810,963, 10-29-57, Cl. 33-30.
- Harper, Leonard R., to International Business Machines Corp. Electronic conversion counter. 2,800,276, 7-23-57, Cl. 235-61.
- Harper, Merle E. Latching apparatus. 2,816,786, 12-17-57, Cl. 292-182.
- Harper, Niles E. Spark plug. 2,793,308, 5-21-57, Cl. 313-11.5.
- Harper, Richard V., and L. B. Wilder, to Pan American Petroleum Corp. Method and apparatus for in-place lining of a pipeline. 2,794,758, 6-4-57, Cl. 154-82.
- Harper, Robert H., to Swift & Co. Processing of cured meats. 2,792,305, 5-14-57, Cl. 99-109.
- Harper, Robert H., to Swift & Co. Sausage, vacuumizing to improve color of. 2,792,306, 5-14-57, Cl. 99-109.
- Harper, Roscoe H., to Hargivys, Inc. Sediment prevention means. 2,807,807, 10-1-57, Cl. 4-228.
- Harper, Roy B.: *See—*
Noonan, Francis J., and Harper. 2,786,677.
- Harper, Samuel B., Sr. Printing block assembly. 2,811,784, 11-5-57, Cl. 33-184.5.
- Harper, Stanley H., to Benzol Products Co. Processes for making trans chrysanthemic acid and related compounds and products therefrom. 2,815,362, 12-3-57, Cl. 260-464.
- Harper, Thomas W., to Dunlop Rubber Co. Ltd. Windscreen wiper system. 2,803,846, 8-27-57, Cl. 15-253.
- Harper, Toby B. Price-controlled fuel pump. 2,784,874, 3-12-57, Cl. 222-16.
- Harper, Walter J., to Westinghouse Electric Corp. Fluorescent screen for X-ray image tube and method for preparing same. 2,798,823, 7-9-57, Cl. 117-33.5.
- Harper, Willis J., and D. A. Seiberling, to The Ohio University Research Foundation. Method and apparatus for the continuous production of cheese-forming curd. 2,781,269, 2-12-57, Cl. 99-116.
- Harper-Wyman Co.: *See—*
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- Harpole, Murray J., and T. R. James, to General Mills, Inc. Extrapolating servosystem. 2,816,256, 12-10-57, Cl. 318-28.
- Harr, Claude F.: *See—*
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- Harr, Russel E.: *See—*
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- Harrah, John L. Pistons and piston packing for internal combustion engines. 2,782,082, 2-19-57, Cl. 309-14.
- Harred, George H., to Bostitch, Inc. Wire stitching machine. 2,785,403, 3-19-57, Cl. 1-104.
- Harred, George H., to Bostitch, Inc. Means for feeding blanks from a supply stack. 2,812,939, 11-12-57, Cl. 271-44.
- Harrell, Dave. Cross grain adapter. 2,811,934, 11-5-57, Cl. 107-12.
- Harrer, Herbert W. Man-lifting apparatus for silos and the like. 2,808,126, 10-1-57, Cl. 187-6.
- Harrer, Herbert W. Material-transferring and unloading apparatus. 2,816,804, 12-17-57, Cl. 302-56.
- Harrer, Joseph M.: *See—*
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- Harrer, Paul H., to Allis-Chalmers Mfg. Co. Auger conveyer extension. 2,815,852, 12-10-57, Cl. 198-213.
- Harrer, Theodore S., to Allied Chemical & Dye Corp. Method of roasting ore. 2,795,496, 6-11-57, Cl. 75-9.
- Harrigan, Daniel W. Method of pulling a drill string. 2,782,004, 2-19-57, Cl. 255-1.8.
- Harrill, Marion O., Jr.: *See—*
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- Harriman, Benjamin R.: *See—*
Gerhardt, Francis H., and Harriman. 2,805,948.
- Harriman, Louis A.: *See—*
Keil, Harold L., Harriman, and Roberts. 2,805,186.
Lloyd, William E., and Harriman. 2,776,214.
- Harrington, Bertie S., to Armour and Co. Article gripping tool. 2,814,963, 12-3-57, Cl. 81-5.1.
- Harrington, Daniel B., to Bendix Aviation Corp. Electron multiplier. 2,778,944, 1-22-57, Cl. 250-41.9.
- Harrington, Frank A., and W. W. Bowles, to Marco Industries Co. Indicator light with snap-in mounting. 2,778,930, 1-22-57, Cl. 240-52.
- Harrington, Frank A., and T. W. Jentges, to Marco Industries Co. Push button switch with double switch mechanism. 2,816,995, 12-17-57, Cl. 200-167.
- Harrington, Gerald D.: *See—*
Shakespeare, Henry G., and Harrington. 2,776,803.
- Harrington, Joseph, Jr.: *See—*
Cardani, Charles P., and Harrington. 2,791,772.
- Harrington & Richardson, Inc.: *See—*
Davis, Elwood R. 2,779,215.
- Harrington, Roy E., to Deere & Co. Safety shielded power-transmitting assembly. 2,785,549, 3-19-57, Cl. 64-4.
- Harrington, Winfred O.: *See—*
Olson, Robert L., Harrington, and Mayer. 2,816,037.
- Harrington, Winfred O., to the United States of America as represented by the Secretary of Agriculture. Removing cooked tissue from peeled potatoes. 2,797,165, 6-25-57, Cl. 99-154.
- Harris, Alva F., to Monsanto Chemical Co. Sizing for nylon yarns. 2,808,348, 10-1-57, Cl. 117-138.8.
- Harris, Alva F., to Monsanto Chemical Co. Terpolymer of vinyl acetate, maleic anhydride and a beta alkoxy ethyl partial ester of maleic acid. 2,808,393, 10-1-57, Cl. 260-78.5.
- Harris, Ames, Neville Co.: *See—*
Ames, Edward E. 2,811,164.
- Harris, Ben A.: *See—*
Blashfield, William H., and Harris. 2,800,532.
- Harris, Bernard, and A. Macovski, to Radio Corp. of America. Phase comparison system. 2,799,784, 7-16-57, Cl. 307-88.5.
- Harris, Bernard, F. S. Beale, and H. B. Dobyns, to Westinghouse Electric Corp. Controlled modulation circuit. 2,806,136, 9-10-57, Cl. 250-13.
- Harris, Billups. Coupon book. 2,813,728, 11-19-57, Cl. 281-18.
- Harris, Bruce G. Apparatus for recovering and cleaning the residual sand content from the tailings of gravel washing plants. 2,779,469, 1-29-57, Cl. 209-211.
- Harris, Carl, to The Singer Mfg. Co. Embroidering mechanism for zigzag sewing machines. Re. 24,370, 10-8-57, Cl. 112-158.
- Harris, Carl C. Sealed stamp pad. 2,778,306, 1-22-57, Cl. 101-333.

- Harris, Carl C. Article clip. 2,791,015, 5-7-57, Cl. 24—11.
- Harris, Chapin A.: See—
Thomson, George, and Harris. 2,786,733.
- Harris, David H., to Shenango China, Inc. Dishware construction. 2,795,942, 6-18-57, Cl. 65—15.
- Harris, Edward F., to Thompson Products, Inc. Magnetic high frequency attenuator. 2,784,382, 3-5-57, Cl. 333—81.
- Harris, Edward F. High frequency antenna. 2,785,399, 3-12-57, Cl. 343—796.
- Harris, Edward H.: See—
Hines, Lloyd Q., Sr., and Harris. 2,784,881.
- Harris, Edward H., Jr.: See—
Fein, Martin L., Harris, and Filachione. 2,817,672.
- Filachione, Edward M., and Harris. 2,795,478.
- Harris, Edward P., and F. W. Sampson, to General Motors Corp. Mold for molding rubber foam latex strips and the like. 2,817,875, 12-31-57, Cl. 18—4.
- Harris, Ferrel B. Valve. 2,788,796, 4-16-57, Cl. 137—246.22.
- Harris, Florence M. Butterfly valve with a rotatable eccentric bearing mounting. 2,811,981, 11-5-57, Cl. 137—340.
- Harris, Ford W., to Wulff Process Co. Regenerative heat exchanger. 2,793,022, 5-21-57, Cl. 263—51.
- Harris, Ford W., to Wulff Process Co. Ceramic tile. 2,815,198, 12-3-57, Cl. 263—51.
- Harris Foundry & Machine Co.: See—
Simmons, John R. 2,806,449.
- Harris, Francis D. Vehicle mounted handling device for pallet stacks. 2,779,487, 1-29-57, Cl. 214—75.
- Harris, Francis S., to Cleve Corp. Phonograph pickup. 2,816,056, 12-10-57, Cl. 179—100.41.
- Harris, Frank C., to The American Mono Rail Co. Apparatus for handling articles. 2,797,825, 7-2-57, Cl. 214—60.
- Harris, Geoffrey T., and H. C. Child, to William Jessop & Sons, Ltd. Ferrous alloys for high temperature use. 2,801,916, 8-6-57, Cl. 75—128.
- Harris, Geoffrey T., and H. C. Child, to William Jessop & Sons, Ltd. Fe-Cr-Ni alloys. 2,803,539, 8-20-57, Cl. 75—128.
- Harris, Guy H.: See—
Fischback, Bryant C., and Harris. 2,789,114.
- Martin, Merritt W., Harris, and Oliver. 2,796,438.
- Harris, Holbert L. Means for treating bank gravel. 2,780,417, 2-5-57, Cl. 241—152.
- Harris, Howard G. Three-point tool adapter for tractors. 2,780,160, 2-5-57, Cl. 97—46.59.
- Harris, Isaac R. Brake beam strut. 2,818,144, 12-31-57, Cl. 188—229.6.
- Harris, Ivan: See—
Everard, Kenneth B., and Harris. 2,777,836.
- Harris, James O.: See—
Beaver, David J., Downey, and Harris. 2,805,212.
- Harris, James O., and W. A. Vaughn, to Monsanto Chemical Co. Manufacture of thiophenols. 2,792,422, 5-14-57, Cl. 260—609.
- Harris, James O., and C. C. Tung, to Monsanto Chemical Co. 6-amino substituted 1,2,3,4-tetrahydroquinolines. 2,794,020, 5-28-57, Cl. 260—288.
- Harris, James R.: See—
Andres, Roy K., and Harris. 2,796,460.
- Kennedy, Claude L., and Harris. 2,808,452.
- Walker, William E., and Harris. 2,805,280.
- Harris, James S., to Radio Corp. of America. Pulse modifying circuit arrangement. 2,810,784, 10-22-57, Cl. 178—69.
- Harris, Jay C., to Monsanto Chemical Co. Ensilage. 2,799,583, 7-16-57, Cl. 99—8.
- Harris, John. Dockboard assembly. 2,817,102, 12-24-57, Cl. 14—71.
- Harris, John H. Demolition device and method. 2,810,969, 10-29-57, Cl. 37—184.
- Harris, John L. Control device. 2,786,907, 3-26-57, Cl. 200—38.
- Harris, John L. Control device and system. 2,799,847, 7-16-57, Cl. 340—222.
- Harris, Joseph E., Jr.: See—
Ferguson, Harry D., Jr., and Harris. 2,776,655.
- Harris, Joseph N. Mixing device. 2,808,240, 10-1-57, Cl. 259—134.
- Harris, Lawrence A., to Research Corp. Apparatus for generating hollow electron beams. 2,791,711, 5-7-57, Cl. 313—84.
- Harris, Leonard, to Radio Corp. of America. Basing oven. 2,812,933, 11-12-57, Cl. 263—2.
- Harris, Leslie M., Jr., and J. E. Evans, Jr., to General Dynamics Corp. Squelch circuit. 2,809,289, 10-8-57, Cl. 250—20.
- Harris, Paul B. Safety switch control for three-phase electric motor. 2,804,579, 8-27-57, Cl. 317—46.
- Harris, Ralph M. Milk can cover. 2,808,959, 10-8-57, Cl. 220—55.
- Harris, Robert R., and C. W. Klinge, to Clipper Mfg. Co. Drive unit mounting and controls for wheels of cutting machines. 2,779,426, 1-29-57, Cl. 180—74.
- Harris, Robert W. Production of benzaldehyde. 2,816,144, 12-10-57, Cl. 260—599.
- Harris, Ross: See—
Mullen, Edward, and Harris. 2,792,927.
- Mullen, Edward, and Harris. 2,796,973.
- Harris, Roy E. Attachment for record players and other coin controlled machines. 2,795,774, 6-11-57, Cl. 340—162.
- Harris, Samuel D. Silo unloader. 2,801,885, 8-6-57, Cl. 302—56.
- Harris, Samuel J., and J. A. Henderson, to International Telephone and Telegraph Corp. Television film scanner having sprocket hole sensing means responsive to film refraction between holes. 2,818,467, 12-31-57, Cl. 178—7.2.
- Harris Seybold Co.: See—
Barley, Leo D. 2,780,204.
- Gulick, Kenneth H. 2,815,209.
- Meyer, Henry F. 2,777,388.
- Newell, William J. 2,788,624.
- Pritchard, Howard A. 2,796,832.
- Schreckengost, Viktor, and Vandeman. 2,791,323.
- Seel, Howard J. 2,797,094.
- Wood, James R. 2,815,208.
- Harris, Stanley S. Fishing tackle belt. 2,782,553, 2-26-57, Cl. 43—57.5.
- Harris, Thomas S., Jr., to Revere Corp. of America. Load measuring cells. 2,814,946, 12-3-57, Cl. 73—141.
- Harris, Todd, to Creative Plastics Corp. Level. 2,813,349, 11-19-57, Cl. 33—211.
- Harris Transducer Corp., The: See—
Harris, Wilbur T. 2,776,416.
- Harris, Wilbur T. 2,776,417.
- Harris, Wilbur T. 2,778,998.
- Harris, Wilbur T. 2,789,280.
- Harris, Wilbur T. 2,804,603.
- Harris, Wilbur T. 2,811,216.
- Harris, Wilbur T. 2,812,452.
- Harris, Vernice L., and R. C. Rhodes. Fishing trawl. 2,816,386, 12-17-57, Cl. 43—9.
- Harris, Walter, to Linotype and Machinery Ltd. Stereotype plate casting machine. 2,788,553, 4-16-57, Cl. 22—2.
- Harris, Walter D., A. W. Feldman, and J. W. Zukel, to United States Rubber Co. Aryloxyalkyl carbalkoxyalkyl sulfite diesters. 2,802,727, 8-13-57, Cl. 71—2.3.
- Harris, Wilbert L., to The Fyr-Fyter Co. Diffusing tip for dry chemical fire extinguisher. 2,780,295, 2-5-57, Cl. 169—1.
- Harris, Wilbur T., to The Harris Transducer Corp. Compensated winding. 2,776,416, 1-1-57, Cl. 340—11.
- Harris, Wilbur T., to The Harris Transducer Corp. Compensated winding. 2,776,417, 1-1-57, Cl. 340—11.
- Harris, Wilbur T., to The Harris Transducer Corp. Low-frequency responsive means. 2,778,998, 1-22-57, Cl. 324—143.
- Harris, Wilbur T., to The Harris Transducer Corp. Linear-motor transducer. 2,789,280, 4-16-57, Cl. 340—8.
- Harris, Wilbur T., to The Harris Transducer Corp. Sound meter. 2,804,603, 8-27-57, Cl. 340—11.
- Harris, Wilbur T., to The Harris Transducer Corp. Acoustic baffle construction. 2,811,216, 10-29-57, Cl. 181—33.
- Harris, Wilbur T., to The Harris Transducer Corp. Split cylindrical transducer. 2,812,452, 11-5-57, Cl. 310—8.2.
- Harris, William H., and E. Heyworth, to Scovill Mfg. Co. Panel fasteners. 2,817,135, 12-24-57, Cl. 24—221.
- Harrison, Benjamin A., and W. S. Agent. Power driven rotary file. 2,815,686, 12-10-57, Cl. 76—37.
- Harrison, Charles C.: See—
Viehmann, George A., and Harrison. 2,785,778.
- Harrison, Charles W.: See—
Clogston, Albert M., and Harrison. 2,776,371.
- Harrison, Donald D., to Dex (Prefabrications) Ltd. Composite floor or roof support. 2,813,310, 11-19-57, Cl. 20—0.5.
- Harrison, E. N.: See—
Phipps, Charles C. 2,788,554.
- Harrison, George, to National Lead Co. Metal chip melting apparatus. 2,793,852, 5-28-57, Cl. 266—33.
- Harrison, Halla M. Combination stationery and envelope. 2,809,778, 10-15-57, Cl. 229—92.7.
- Harrison, Harry W., to Houston Engineers, Inc. Hydraulic jar. 2,802,703, 8-13-57, Cl. 255—27.
- Harrison, Harvey N. Farm wagon having an extensible frame. 2,780,473, 2-5-57, Cl. 280—34.
- Harrison, Homer S., to Allied Steel and Conveyors, Inc. Tire inflation machine. 2,778,388, 1-22-57, Cl. 141—101.
- Harrison, Homer S., to Allied Steel and Conveyors, Inc. Tire lubricating machine. 2,787,977, 4-9-57, Cl. 118—11.
- Harrison, James E.: See—
Fosness, John P., and Harrison. 2,777,650.
- Harrison, Lloyd C. Permanent wave hair curler. 2,808,839, 10-8-57, Cl. 132—40.
- Harrison, Lloyd G.: See—
Harrison, Roy C. 2,815,222.
- Harrison, Marvin E.: See—
Bourns, Marlan E., and Harrison. 2,804,529.
- Bourns, Marlan E., and Harrison. 2,805,307.
- Bourns, Marlan E., Harrison, and Whitehorn. 2,811,619.
- Goepfinger, Edward J., Whitehorn, Bourns, and Harrison. 2,780,776.
- Harrison, Raymond B., and R. G. Edwards, to Stedfast Rubber Co., Inc. Stiffening of shoe uppers and stiffening elements therefor. 2,780,879, 2-12-57, Cl. 36—46.5.
- Harrison, Roy C., 50% to L. G. Harrison. Tricycle driving and braking arrangement. 2,815,222, 12-3-57, Cl. 280—261.
- Harrison, Stuart A., to General Mills, Inc. Substituted benzodioxanes. 2,789,985, 4-23-57, Cl. 260—340.3.
- Harrison, Stuart A., to General Mills, Inc. Condensation of maleic esters and fatty esters. 2,808,418, 10-1-57, Cl. 260—404.8.
- Harrison, Stuart A., and D. Aelony, to General Mills, Inc. Acceleration of fatty amine addition reactions. 2,787,633, 4-2-57, Cl. 260—465.5.

- Harrison, Taylor, $\frac{1}{2}$ to J. Danciger. Meat tenderizer. 2,791,799, 5-14-57, Cl. 17-28.
- Harrison, Taylor H., $\frac{1}{2}$ to J. Danciger. Water agitating circulator. 2,791,407, 5-7-57, Cl. 259-108.
- Harrison, Thomas, and R. J. Clifford. Garment hanger. 2,808,942, 10-8-57, Cl. 211-86.
- Harrison, Thomas H. Date indicators. 2,810,224, 10-22-57, Cl. 40-113.
- Harrison, Thomas R., to Minneapolis-Honeywell Regulator Co. Temperature measuring apparatus. 2,811,856, 11-5-57, Cl. 73-355.
- Harrison, Thomas R., to Minneapolis-Honeywell Regulator Co. Apparatus for measuring the degree of supersaturation of boiling solutions. 2,813,419, 11-19-57, Cl. 73-53.
- Harrison, Thomas R., and W. H. Wannamaker, Jr., to Minneapolis-Honeywell Regulator Co. Measuring and controlling apparatus using a radiation pyrometer. 2,785,860, 3-19-57, Cl. 236-15.
- Harrison, Walter M., to Teddington Aircraft Controls Ltd. Fluid flow control valves. 2,797,706, 7-2-57, Cl. 137-625.48.
- Harrison, Ward D., to Riegel Paper Corp. Stirrer for rotary digester. 2,793,117, 5-21-57, Cl. 92-18.
- Harrison, William, to Siemens Brothers & Co., Ltd. Circuit arrangement for starting and operating hot-cathode electric discharge lamp. 2,197,365, 6-25-57, Cl. 315-98.
- Harrison, William B. Flammable vapor detectors. 2,781,506, 2-12-57, Cl. 340-237.
- Harrison, William S., deceased; W. H. Jenne, and G. Woodburn, executors. Automatic elevation adjuster stands. 2,802,575, 8-13-57, Cl. 211-51.
- Harriss, Richard A., to The English Electric Co. Ltd. Variable-incidence sweptback wing for aircraft. 2,783,956, 3-5-57, Cl. 244-48.
- Harrold, Darwin A., and J. H. Keyser. Baton. 2,812,683, 11-12-57, Cl. 84-477.
- Harrowell, Douglas W. J., and A. F. J. Pink, to W. E. Bray & Co. Ltd. Dual loaders. 2,799,411, 7-16-57, Cl. 214-140.
- Harry, Frank. Automatic alarm lock. 2,818,475, 12-31-57, Cl. 200-61.64.
- Harry, Gordon W.: See—
Barnes, William E., and Harry. 2,818,027.
- Harry, Robert J., to The Alliance Machine Co. Hoist mechanisms. 2,778,506, 1-22-57, Cl. 212-21.
- Harry, William R., to McGraw-Edison Co. Repeating circuit interrupter. 2,813,947, 11-19-57, Cl. 200-89.
- Harsch, Chester A. Cage leveling apparatus. 2,786,723, 3-26-57, Cl. 304-29.
- Harse, Douglas H., to General Electric Co. Transformer winding retainer. 2,776,414, 1-1-57, Cl. 336-198.
- Harsh, Maurice D.: See—
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- Harsh, Maurice D., to Radio Corp. of America. Ion trap. 2,810,091, 10-15-57, Cl. 315-8.
- Harshaw Chemical Co. The: See—
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Du Rose, Arthur H., and Little. 2,782,155.
Ellis, David G. 2,784,152.
Olson, Harold M. 2,777,826.
- Swinehart, Carl F., and Burton. 2,805,982.
- Harshbarger, Erle L. Fish bite signalling means. 2,817,176, 12-24-57, Cl. 43-17.
- Harshberger, Russell F. Earth working machine or the like. 2,792,769, 5-21-57, Cl. 97-34.
- Harshman, Richard C.: See—
Fusco, Victor C., and Harshman. 2,813,112.
- Harslem, Eric W., and L. F. Muller, to Reaction Motors, Inc. Mobile heating and cooling apparatus. 2,791,401, 5-7-57, Cl. 257-9.
- Hart, Betty M. Protective garment. 2,793,367, 5-28-57, Cl. 2-4.
- Hart, Bill A. Nail set. 2,783,799, 3-5-57, Cl. 145-46.
- Hart & Cooley Mfg. Co.: See—
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- Hart, Earl, to Western Electric Co., Inc. Device for determining the cutting face angles on taps. 2,800,722, 7-30-57, Cl. 33-201.
- Hart, Fred J., to Electronic Medical Foundation. Electrical therapeutical device for internal application. 2,777,445, 1-15-57, Cl. 128-303.12.
- Hart, Gene E., and H. F. Metcalf, to Carolina Knitting Machine Corp. Circular multi-feed hosiery knitting machine and method of knitting. 2,785,553, 3-19-57, Cl. 66-42.
- Hart, George: See—
Vang, Alfred. 2,776,558.
- Hart, George D.: See—
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- Hart, Harold M.: See—
Gross, Fritz A., Hall, and Hart. 2,795,780.
- Hart, Harold P. Brake controlled log cart. 2,797,829, 7-2-57, Cl. 214-85.1.
- Hart, Harold W.: See—
Rose, Boyd W., and Hart. 2,794,421.
- Hart Heat, a Division of Avery Farm Machinery Co.: See—
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- Hart, Herbert F., R. Lindberg, and R. E. Hopp, to Bobrich Products Corp. Duplicating, printing, and punching machine. 2,803,187, 8-20-57, Cl. 101-19.
- Hart, Irwin M., to Winko-Matic Signal Co. Pedestrian control signal. 2,793,356, 5-21-57, Cl. 340-44.
- Hart, Jack M.: See—
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- Hart, Joe R. Apparatus for testing specific gravity of liquids. 2,803,960, 8-27-57, Cl. 73-32.
- Hart, John T.: See—
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Mangold, George B., Dyer, and Hart. 2,793,957.
- Hart, Lester C., to Joslyn Mfg. and Supply Co. High voltage switch. 2,810,806, 10-22-57, Cl. 200-146.
- Hart Mfg. Co., The: See—
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- Hart Mfg. (Canada) Ltd.: See—
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- Hart, Porter: See—
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- Hart, Robert T., to S. D. Warren Co. Process of drum-finishing coated paper and product. 2,776,226, 1-1-57, Cl. 117-64.
- Hart, Victor B., to Boeing Airplane Co. Voice warning systems. 2,804,501, 8-27-57, Cl. 179-5.
- Hart, Walter L. Planetary gear set with overload release. 2,794,350, 6-4-57, Cl. 74-766.
- Harte, Francis A., Jr., and T. W. and W. H. Bailey. Tray or support therefor. 2,815,399, 12-3-57, Cl. 179-1.
- Hartel, Erwin H., to The Cleveland Pneumatic Tool Co. Multi-stage liquid spring. 2,793,031, 5-21-57, Cl. 267-64.
- Hartel, Erwin H., to The Cleveland Pneumatic Tool Co. Actuator lock mechanism. 2,811,137, 10-29-57, Cl. 121-40.
- Harter Bank & Trust Co., The: See—
Holt, Ralph D. 2,803,922.
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- Harter, Charles H., to Idevelopers, Inc. Dispensing cap for mounting on a bottle or other container. 2,790,581, 4-30-57, Cl. 222-455.
- Harter, Esther M.: See—
Harter, Paul A. 2,796,963.
- Harter, Isaac, to The Babcock & Wilcox Co. Mandrel guiding arrangement for billet piercing apparatus. 2,812,673, 11-12-57, Cl. 78-9.
- Harter, Isaac, I. Harter, Jr., and T. W. Ratcliffe, to The Babcock & Wilcox Co. Method of and apparatus for continuously casting metal. 2,804,665, 9-3-57, Cl. 22-57.2.
- Harter, Isaac, Jr.: See—
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- Harter, Isaac, Jr., T. W. Ratcliffe, and R. R. McClain, to The Babcock & Wilcox Co. Control system for continuous casting. 2,804,663, 9-3-57, Cl. 22-57.2.
- Harter, James R. R. Dark-trace cathode ray tube presentation systems. 2,798,901, 7-9-57, Cl. 178-6.8.
- Harter, Mary C.: See—
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- Harter, Noel D.: See—
Asbeck, Hans J., and Harter. 2,804,044.
- Harter, Paul, C. Ort, K. Raab, and W. Umbs, to Jos. Schneider & Co. Adjustable and interchangeable mounting means for photographic objective systems. 2,811,080, 10-29-57, Cl. 88-57.
- Harter, Paul A., deceased, by E. M. Harter, administratrix. Magnetic clutch with stationary winding. 2,796,963, 6-25-57, Cl. 192-84.
- Harter, Paul A., to Warner Electric Brake & Clutch Co. Electromagnetic friction device. 2,808,917, 10-8-57, Cl. 192-84.
- Harter, Paul G., and K. A. Steisslinger, to Eastman Kodak Co. Container for photographic objectives, filters, supplementary lenses, and the like. 2,780,348, 2-5-57, Cl. 206-1.
- Harter, Robert L., to Trabon Engineering Corp. Divisional lubricant feeder. 2,792,911, 5-21-57, Cl. 184-7.
- Harter, Robert M. Wing flapping rocker. 2,812,943, 11-12-57, Cl. 272-53.2.
- Harter, William R.: See—
Bruck, George, Harter, and Wilbur. 2,798,160.
- Hartewig, Heinrich: See—
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- Hartfield, William L. Convertible loudspeaker system. 2,815,086, 12-3-57, Cl. 181-31.
- Hartford National Bank and Trust Co.: See—
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 Hartje, Henry W. Adjustable coupling attachment for shafts. 2,777,613, 1-15-57, Cl. 222—268.
 Hartke, Wilbur A. Apparatus for automatically setting foot brake of driverless vehicle accidentally detached from towing vehicle. 2,796,956, 6-25-57, Cl. 188—112.
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- Hasler, Charles, and A. Dreyer, to A. Dreyer and M. de Toledo. Impervious container for liquid or gaseous fluids. 2,804,257, 8-27-57, Cl. 229—62.5.
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- Hasty, Albert F., and G. W. Doyle, to Superior Hone Corp. Automatic honing machine. 2,805,521, 9-10-57, Cl. 51—34.
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- Hatch, Arthur J., Jr.: See—
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- Hatch, Arthur J., to The Strong Electric Corp. Arc lamp. 2,785,333, 3-12-57, Cl. 314—26.
- Hatch, Chauncey R., Jr., to McKaig-Hatch, Inc. Adjustment locking means for adjustable jaw wrenches. 2,813,444, 11-19-57, Cl. 81—165.
- Hatch, Gerald G.: See—
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- Hatch, James A. Cast worm wheel and method and apparatus for manufacturing the same. 2,802,372, 8-13-57, Cl. 74—458.
- Hatch, Leslie R.: See—
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- Hatch, Osborn L., and N. L. Feeder for livestock. 2,789,533, 4-23-57, Cl. 119—51.5.
- Hatch, Raymond S., and W. B. Roberson, to Hudson Pulp & Paper Corp. Remoistening adhesive composition and a sheet coated therewith. 2,791,512, 5-7-57, Cl. 106—208.
- Hatcher, Cecil W., to Concut Sales Co. of California. Concrete sawing machine. 2,791,412, 5-7-57, Cl. 262—20.
- Hatcher, Creel W. Coin changing apparatus. 2,780,336, 2-5-57, Cl. 194—10.
- Hatcher, Harry R.: See—
Reed, William A., Hatcher, and Sanscrainte. 2,776,874.
- Hatcher, Harry R., and J. R. Sanscrainte, to Republic Steel Corp. Process of treating gases containing HCl to reduce the water content thereof. 2,805,931, 9-10-57, Cl. 75—37.
- Hatcher, Merrel E. Bench lathes. 2,797,716, 7-2-57, Cl. 142—1.
- Hatcher, Robert D., to the United States of America as represented by the Secretary of the Navy. Broad band matching hybrid waveguide. 2,813,254, 11-12-57, Cl. 333—7.
- Hatcher, Robert D., to the United States of America as represented by the Secretary of the Navy. Waveguide power divider. 2,816,269, 12-10-57, Cl. 333—7.
- Hatchett, Eugene L. Electric beverage can opener. 2,791,828, 5-14-57, Cl. 30—4.
- Hatchl, Sidney: See—
Erath, Louis W., Madeley, and Hatchl. 2,776,560.
- Hatebur, Fritz B. Method of making workpieces provided with head and shank, especially screw bolts. 2,799,027, 7-16-57, Cl. 10—27.
- Hatfield, George I., to Bendix Aviation Corp. Re-entrant switching servo system. 2,796,574, 6-18-57, Cl. 318—467.
- Hatfield, John C., to Chrysler Corp. Brake. 2,778,453, 1-22-57, Cl. 188—73.
- Hatfield, Marcus R., to Union Carbide Corp. Spiral-wound cathode for external cathode primary battery. 2,807,658, 9-24-57, Cl. 136—107.
- Hatfield, Richard F., to Pryor, Inc. Packaging of articles for shipment. 2,806,592, 9-17-57, Cl. 206—62.
- Hatfield, Verne J. Golf swing trainer. 2,807,472, 9-24-57, Cl. 273—191.
- Hathaway, Charles T., to General Electric Co. Process of preparing alkylated hydroxy aromatic compounds. 2,800,512, 7-23-57, Cl. 260—613.
- Hathaway, Charles T., to General Electric Co. Process of preparing alkylated hydroxy aromatic compounds. 2,800,514, 7-23-57, Cl. 260—624.
- Hathaway, Charles T., to General Electric Co. Process of preparing alkylated hydroxy aromatic compounds. 2,800,515, 7-23-57, Cl. 260—624.
- Hathaway, Claude M.: See—
Tilton, Warren D., Jr., and Hathaway. 2,798,787.
- Hathaway, James C., to Collins Radio Co. Frequency rejection system for mechanical filter. 2,777,999, 1-15-57, Cl. 333—71.
- Hathaway, Richard: See—
Evans, Owen T., Hathaway, and Abram. 2,805,376.
- Hathorn, Don H., to Halliburton Oil Well Cementing Co. Pneumatically discharged vessel for pulverulent materials. 2,792,262, 5-14-57, Cl. 302—53.
- Hatle, Carl M.: See—
Johnson, Henry E., and Hatle. 2,781,679.
Johnson, Henry E., and Hatle. 2,781,680.
- Hatton, Roger E., and A. Lasslo, to Monsanto Chemical Co. Reaction of aryloxyacetic acids and unsymmetrical epoxides. 2,780,642, 2-5-57, Cl. 260—473.
- Haubein, Albert H., to Hercules Powder Co. Insecticidal compositions comprising 2-(dichloromethyl)-1,4,5,6,7,7-hexachlorobicyclo [2.2.1]-5-heptene. 2,806,813, 9-17-57, Cl. 167—30.
- Hauberg, Victor A. Plating attachment for knitting machines. 2,796,752, 6-25-57, Cl. 66—136.
- Hauch, Henry W.: See—
Feucht, Jacob E., and Hauch. 2,787,250.
- Hauck, Frederick P.: See—
Dickey, Robert C., Hauck, and Archer. 2,784,695.
- Hauck, George W., to Crane Co. Method and apparatus for welding. 2,802,092, 8-6-57, Cl. 219—61.
- Hauck, Leon P., and G. A. Scheidt, to Western Electric Co., Inc. Continuous strand reeling apparatus. 2,779,545, 1-29-57, Cl. 242—25.

- Hauck Mfg. Co.:** *See—*
 Parker, Melvin J., and Turpin. 2,796,118.
 Turpin, Alexander J. 2,790,597.
- Hauck, Paul A.,** to Hanson-Van Winkle-Munning Co. Conveying mechanism. 2,802,559, 8-13-57, Cl. 198—19.
- Hauck, Paul A.,** and W. C. Levering, to Hanson-Van Winkle-Munning Co. Transfer mechanism. 2,807,349, 9-24-57, Cl. 198—20.
- Hauck, Richard M.,** to C. Thomas and F. D. Nicoli. Hand truck. 2,813,647, 11-19-57, Cl. 214—511.
- Hauck, Theodore,** to General Bronze Corp. Metallic window sill. 2,787,034, 4-2-57, Cl. 20—70.
- Hauck, Theodore,** to General Bronze Corp. Window construction. 2,812,557, 11-12-57, Cl. 20—53.
- Hauck, Theodore,** to General Bronze Corp. Window construction. 2,812,812, 11-12-57, Cl. 160—101.
- Hauke, Oswin.** Wheel aligner. 2,781,587, 2-19-57, Cl. 33—203.15.
- Hauke, Oswin.** Automobile headlight tester. 2,806,653, 10-8-57, Cl. 33—180.
- Hauer, Werner,** to International Standard Electric Corp. Dispatch-tube system. 2,815,183, 12-3-57, Cl. 243—16.
- Haufe, John H.:** *See—*
 Haufe, Robert C. 2,811,359.
- Haufe, Mabel L.:** *See—*
 Haufe, Robert C. 2,811,359.
- Haufe, Robert C.,** assignor of $\frac{1}{2}$ to N. S. Fink, and $\frac{1}{2}$ to J. H. and M. L. Haufe. Tick-tack-toe game apparatus. 2,811,359, 10-29-57, Cl. 273—130.
- Haug, Charles F.,** to Mason, Au & Magenheimer Conf. Mfg. Co. Novelty. 2,783,155, 2-26-57, Cl. 99—180.
- Haug, Richard J.** Angular power transmission tube. 2,815,050, 12-3-57, Cl. 143—43.
- Haug, Wilhelm,** to Manufacture de Machines du Haut-Rhin. Feeler head. 2,795,666, 6-11-57, Cl. 200—61.41.
- Haugen, Edmond H.,** to Scaife Co. Water heater. 2,805,648, 9-10-57, Cl. 122—33.
- Haugen, Edmond H.,** to Scaife Co. Igniter. 2,812,016, 11-5-57, Cl. 158—28.
- Haughton Elevator Co.:** *See—*
 Borden, Joseph H. 2,779,439.
 Borden, Joseph H. 2,811,228.
 Borden, Joseph H. 2,814,027.
 Nikazy, Walter A. 2,791,654.
 Thurston, Ernest B. 2,779,438.
- Haumann, George,** to Moore Dry Kiln Co. Clipper machine. 2,784,784, 3-12-57, Cl. 164—68.
- Haumerson, Fred C.,** to Walker Mfg. Co. of Wisconsin. Base structure. 2,778,597, 1-22-57, Cl. 248—346.
- Haupt, Frank J.,** and W. J. Ramhorst, to The Western Union Telegraph Co. Means to facilitate the handling of telegraph storage tape. 2,818,468, 12-31-57, Cl. 178—17.5.
- Haupt, Hans.** Collapsible umbrella. 2,775,977, 1-1-57, Cl. 135—26.
- Haupt, Rudolf F.,** to I S C O Optische Werke G. m. b. H. Mechanism for automatically adjusting the diaphragm of a photographic objective. 2,805,610, 9-10-57, Cl. 95—64.
- Hauptli, Edwin F.** Vehicle body with adjustable roof structure. 2,797,124, 6-25-57, Cl. 296—26.
- Hauptman, Ferdinand D.,** to H. K. Porter Co. (Delaware). Apparatus for making plastic hose. 2,809,393, 10-15-57, Cl. 18—13.
- Hauptschein, Murray,** to Pennsalt Chemicals Corp. Method for the preparation of perfluorooheptan-4-one and its hydrate. 2,802,034, 8-6-57, Cl. 260—595.
- Hauptschein, Murray,** and R. A. Braun, to Pennsalt Chemicals Corp. Fluorinated compounds containing nitrogen and oxygen. 2,802,010, 8-6-57, Cl. 260—297.
- Hausburg, Carl G.,** to Bendix Aviation Corp. Automatic choke. 2,803,442, 8-20-57, Cl. 261—39.
- Hausch, Douglas C.,** to Shell Development Co. Production of catalytic cracking feed stock from petroleum residues by vacuum flashing. 2,809,923, 10-15-57, Cl. 196—72.
- Hauschild, William E.,** and J. E. Solecki, to Western Electric Co., Inc. Sensing devices for selective delivery conveyors. 2,794,535, 6-4-57, Cl. 198—38.
- Hauschildt, Peter:** *See—*
 Loop, Werner, Luhrs, and Hauschildt. 2,809,966.
- Hausdorf, Erich.** Telephone ear piece. 2,778,889, 1-22-57, Cl. 179—182.
- Hausdorf, Erich.** Device for cleaning photographic films and similar articles, especially motion-picture films. 2,791,788, 5-14-57, Cl. 15—100.
- Hause, Gilbert K.:** *See—*
 Kelley, Oliver K., and Hause. 2,816,630.
- Hauser, Adolph F.** Artificial limb and valve therefor. 2,790,180, 4-30-57, Cl. 3—1.
- Hauser, Alfred K.,** Trellis. 2,788,615, 4-16-57, Cl. 47—47.
- Hauser, Arthur A.,** to Sperry Rand Corp. Electronic computer. 2,812,132, 11-5-57, Cl. 235—61.
- Hauser, Edward F.** Variable light intensity flashlight. 2,810,822, 10-22-57, Cl. 240—10.66.
- Hauser, Erwin:** *See—*
 Eisler, Paul, and Hauser. 2,785,280.
 Eisler, Paul, and Hauser. 2,789,259.
- Hauser, Frederick,** to Westrex Corp. Film gate. 2,790,349, 4-30-57, Cl. 88—17.
- Hauser, John M.,** and T. E. Forrest, to Elkins-Ewall Rubber Co., Inc. Laminated cast in fracture treatment. 2,781,757, 2-19-57, Cl. 128—89.
- Hauser, Jon W.,** to Hawley Products Co. Article of furniture. 2,788,846, 4-16-57, Cl. 155—194.
- Hauser, Ralph I.,** to the United States of America as represented by the Secretary of the Navy. Front clamp for aircraft electronic apparatus mounting base. 2,790,618, 4-30-57, Cl. 248—361.
- Hauser, Richard:** *See—*
 Lingal, Harry J., Sandin, and Hauser. 2,809,252.
- Hausermann, Heinrich:** *See—*
 Keller, Ernst, Zweidler, and Hausermann. 2,784,183.
- Haushalter, Fred L.** Method of making a vibration damper. 2,795,036, 6-11-57, Cl. 29—450.
- Haushalter, Fred L.** Method of making a vibration damper. 2,795,037, 6-11-57, Cl. 29—450.
- Hausman, John M.** Double cylinder and ram type plastic mixing apparatus. 2,813,300, 11-19-57, Cl. 18—2.
- Hausmann, George F.,** to United Aircraft Corp. Supersonic jet deflection device. 2,799,990, 7-23-57, Cl. 60—35.55.
- Hausmann, Henry C.** Electrical relay devices. 2,799,751, 7-16-57, Cl. 200—140.
- Hausmann Laboratories Ltd.:** *See—*
 Bersin, Theodor, and Mueller. 2,799,618.
- Hausner, Henry H.:** *See—*
 Zambrow, John, and Hausner. 2,807,082.
- Hausser, Firm O. & M., The:** *See—*
 Hausser, Rolf. 2,790,268.
- Hausser, Rolf,** to The Firm O. & M. Hausser. Ski toy. 2,790,268, 4-30-57, Cl. 46—116.
- Hausser, Will N.** Self-retaining cattle trocar. 2,779,335, 1-29-57, Cl. 128—347.
- Häussermann, Kurt A.,** to Lamellen-und Kupplungsbau August Häussermann. Friction clutch with spring disc of the Belleville type. 2,813,607, 11-19-57, Cl. 192—68.
- Haut, Clarence A.,** to General Motors Corp. Glove compartment switch. 2,816,972, 12-17-57, Cl. 200—61.62.
- Hauttmann, Hubert:** *See—*
 Suess, Theodor E., Trenkler, Hauttmann, and Rinesch. 2,800,631.
- Hautzenroeder, Richard W.,** to Massey-Harris-Ferguson Inc. Steering mechanism for tractors. 2,778,655, 1-22-57, Cl. 280—93.
- Hautzik, Robert M.:** *See—*
 Anderson, Tore N., and Hautzik. 2,813,972.
- Havelka, Charles F.** Automatic speed reducing signal for motor vehicles. 2,811,597, 10-29-57, Cl. 200—61.46.
- Haven, Alfred C., Jr.,** to E. I. du Pont de Nemours and Co. Dicyclopentadienyl group VIII metal compounds having an alpha-hydroxyalkyl substituent on one or both of the cyclopentadienyl rings. 2,810,737, 10-22-57, Cl. 260—439.
- Haven, Alfred C., Jr.,** to E. I. du Pont de Nemours and Co. Polymeric dicarboxylic acids and derivatives. 2,813,899, 11-19-57, Cl. 260—515.
- Haven, Alfred C., Jr.,** to E. I. du Pont de Nemours and Co. Chemical product. 2,816,904, 12-17-57, Cl. 260—439.
- Havenlin, Jules E.,** and F. Kahn. Stabilized soil. 2,815,294, 12-3-57, Cl. 106—118.
- Havens, Byron L.:** *See—*
 Schreiner, Kenneth E., and Havens. 2,779,940.
- Havens, Byron L.,** and C. R. Borders, to International Business Machines Corp. Digital information register. 2,782,305, 2-19-57, Cl. 250—27.
- Havens, Carl B.,** to The Dow Chemical Co. Stabilized chloroethylene polymers. 2,807,605, 9-24-57, Cl. 260—45.95.
- Havens, Carl B.,** and J. R. Mathieson, to The Dow Chemical Co. Bis (2-hydroxy-3-benzoyl phenyl) methanes and compositions containing the same. 2,787,607, 4-2-57, Cl. 260—45.95.
- Havens, Keith C.** Picture frame. 2,790,259, 4-30-57, Cl. 40—155.
- Havens, Keith C.** Kit for artist. 2,806,311, 9-17-57, Cl. 41—4.
- Haverland, William H.,** to J. J. Monaghan Co., Inc. Portable mechanical lung. 2,816,540, 12-17-57, Cl. 128—30.
- Haviland, Girard S.:** *See—*
 Stoner, Arthur M., and Haviland. 2,816,768.
- Havlin, Thomas D.:** *See—*
 Prough, James L., and Havlin. 2,807,013.
- Havnen, Egil.** Wheel brakes. 2,800,202, 7-23-57, Cl. 188—74.
- Hawaiian Development Co., Ltd.:** *See—*
 Duncan, Richard A., and Burns. 2,808,865.
 Payne, John H., Kenda, and Mahon. 2,805,156.
- Hawaiian Pineapple Co., Ltd.:** *See—*
 Felton, George E. 2,785,076.
- Hawes, Albert H.,** to Kwikform Ltd. Scaffolding and other structural elements. 2,793,720, 5-28-57, Cl. 189—37.
- Hawes, Bradford K.,** to General Electric Co. Calibrated electrical telemetering instrument. 2,816,279, 12-10-57, Cl. 340—177.
- Hawes, John H.,** to Hilmor Ltd. Bending machines. 2,801,559, 8-6-57, Cl. 81—15.
- Hawes, Roland C.,** to Beckman Instruments, Inc. Dynamic amplifier. 2,779,921, 1-29-57, Cl. 324—102.
- Hawk, Carson B.,** to Aerojet-General Corp. Combined valve and coupling. 2,776,850, 1-8-57, Cl. 284—17.
- Hawk, Le Roy R.,** to Gerber Products Co. Heater. 2,801,087, 7-30-57, Cl. 261—62.
- Hawke, Arthur R.** Printer's composing unit. 2,797,925, 7-2-57, Cl. 276—44.
- Hawke, Frank T.,** to Electric Steam Radiator Corp. Thermostatic control device. 2,792,473, 6-14-57, Cl. 200—138.
- Hawkins, Frank L.,** $\frac{1}{10}$ to H. L. Hawkins and $\frac{1}{2}$ to J. E. Gordon and G. R. Bassmann. Platform rockers and swivel chairs. 2,813,574, 11-19-57, Cl. 155—71.

- Hawkins, Harold L.: *See*—
Hawkins, Frank L. 2,813,574.
- Hawkins, Harold M., and J. A. Weedman, to Phillips Petroleum Co. Solvent extraction process. 2,809,222, 10-8-57, Cl. 260—666.
- Hawkins, Henry R. Filling attachment for hydraulic brake master cylinder. 2,777,293, 1-15-57, Cl. 60—54.6.
- Hawkins, James E., to Seismograph Service Corp. System for analysis of seismographic records. Re. 24,330, 6-18-57, Cl. 181—5.
- Hawkins, James E., to Seismograph Service Corp. Radio surveying apparatus. 2,778,013, 1-15-57, Cl. 343—105.
- Hawkins, James E., to Seismograph Service Corp. Radio location system. 2,814,799, 11-26-57, Cl. 343—105.
- Hawkins, John J.: *See*—
Muller, Werner C., and Hawkins. 2,801,209.
Muller, Werner C., Miller, and Hawkins. 2,801,210.
- Hawkins, Kenneth C. Automatic knife sharpener. 2,798,339, 7-9-57, Cl. 51—54.
- Hawkins, Luty. Fowl or poultry feeding device. 2,789,536, 4-23-57, Cl. 119—53.
- Hawkins, W. O. Snap on and off handle. 2,784,995, 3-12-57, Cl. 292—348.
- Hawkins, Willis M., Jr.: *See*—
Price, Nathan C., and Hawkins. 2,802,333.
- Hawkins, Willis M., Jr., and E. C. Frost, to Lockheed Aircraft Corp. Apparatus for facilitating the taking off and landing of vertical rising aircraft. 2,807,429, 9-24-57, Cl. 244—114.
- Hawkins, Winifred L. Plant receptacle. 2,814,161, 11-26-57, Cl. 47—38.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Tire retreading equipment. 2,777,163, 1-15-57, Cl. 13—18.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Buffing machine for pneumatic tire casings. 2,787,089, 4-2-57, Cl. 51—33.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Method of producing tire molds. 2,794,351, 6-4-57, Cl. 76—107.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Rim for pneumatic tire casings. 2,811,999, 11-5-57, Cl. 152—413.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Mold construction. 2,813,304, 11-19-57, Cl. 18—38.
- Hawkinson, Paul E., Co.: *See*—
Hawkinson, Earle W. 2,777,163.
Hawkinson, Earle W. 2,787,089.
Hawkinson, Earle W. 2,794,351.
Hawkinson, Earle W. 2,811,999.
Hawkinson, Earle W. 2,813,304.
- Hawks, Clio G. Automatic popcorn popping and dispensing machine. 2,812,704, 11-12-57, Cl. 99—238.2.
- Hawks, Verl J., to Bell Telephone Laboratories, Inc. Balanced amplitude modulation with reinserted carrier. 2,804,596, 8-27-57, Cl. 332—43.
- Hawley, Charles F., to Riley Stoker Corp. Steam generating unit. 2,776,647, 1-8-57, Cl. 122—480.
- Hawley, Dean, deceased; D. A. Hawley, administrator, to Origins Inc. Flexible, rolling-seal type valves. 2,781,051, 2-12-57, Cl. 137—219.
- Hawley, Dean A.: *See*—
Hawley, Dean. 2,781,051.
- Hawley, George S. Window screen runner. 2,792,881, 5-21-57, Cl. 160—367.
- Hawley, Henry B., to The National Research Development Corp. Nisin preparations. 2,785,108, 3-12-57, Cl. 195—96.
- Hawley, Jack S.: *See*—
Hosmer, Ellsworth A., Hawley, and Jurs. 2,814,798.
- Hawley, Jesse G., to The Goodyear Tire & Rubber Co. Brake having deflection compensation means therein. 2,790,515, 4-30-57, Cl. 188—72.
- Hawley, Mones E., to the United States of America as represented by the Secretary of the Navy. Microphone converter. 2,812,826, 11-12-57, Cl. 181—34.
- Hawley Products Co.: *See*—
Hauser, Jon W. 2,788,846.
Kyle, Colin. 2,804,644.
Stewart, John S. 2,797,624.
- Hawley, Ray: *See*—
Hubbard, Harry V., Couchot, and Hawley. 2,813,197.
- Hawley, William J.: *See*—
Lavieri, Daniel C., and Hawley. 2,814,239.
- Haworth, Howard H., to Belden Mfg. Co. Continuous dead reel let-off with controlled tension. 2,809,791, 10-15-57, Cl. 242—128.
- Haworth, Joseph P.: *See*—
Duncan, Gordon W., Lifson, and Haworth. 2,784,067.
- Haworth, Leland J., to the United States of America as represented by the Secretary of the Navy. Ship centered PPI. 2,804,613, 8-27-57, Cl. 343—11.
- Haworth, Lionel, and P. Redfern, to Rolls-Royce Ltd. Torque-responsive control systems for controlling the supply of fluids to combustion engines. 2,795,107, 6-11-57, Cl. 60—39.28.
- Hawrylyshyn, Bohdan: *See*—
Orr, James, and Hawrylyshyn. 2,799,291.
- Hawthorne, Herbert J., and E. M. Weaver. Drill bit. 2,783,973, 3-5-57, Cl. 255—61.
- Hawthorne, Kenneth B., J. F. Hanlon, P. Schladermundt, C. L. Metzler, and J. D. Wark, to Johnson & Johnson. Adhesive tape dispenser. 2,790,609, 4-30-57, Cl. 242—55.5.
- Hawthorne, Lowell H., to Revere Copper and Brass Inc. Welding. 2,797,300, 6-25-57, Cl. 219—74.
- Hawtin, Selwyn G., and J. W. Grebby, to British Celanese Ltd. Wet spinning process. 2,786,737, 3-26-57, Cl. 18—54.
- Hawver, Neil F. Concealed box lock. 2,800,220, 7-23-57, Cl. 206—15.
- Hawxhurst, Stephen, to Crane Packing Co. Variable displacement pump. 2,807,215, 9-24-57, Cl. 103—38.
- Hay, Russell G., and R. W. Helwig, to Gulf Research & Development Co. Aromatization of naphtha. 2,794,841, 6-4-57, Cl. 260—668.
- Hay, Russell G., and S. M. Hazen, to Gulf Research & Development Co. Process for recovering aliphatic dibasic acids. 2,804,475, 8-27-57, Cl. 260—537.
- Hay, Russell G., and J. R. Tomlinson, to Gulf Research & Development Co. Process for oxidizing hydrocarbons. 2,813,888, 11-19-57, Cl. 260—451.
- Hayano, Mika: *See*—
Fish, Charles A., Hayano, and Pincus. 2,797,186.
- Hayashi, Izumi: *See*—
Hachibama, Yoshikazu, and Hayashi. 2,808,392.
- Hayashi, Shigenori: *See*—
Katsumaru, Kunizo, Hayashi, and Iwai. 2,777,988.
- Hayba, Franklin P., to General Electric Co. Mobile electric vacuum cleaner. 2,811,737, 11-5-57, Cl. 15—327.
- Hayden, Clayton O.: *See*—
Chartier, Edmund G., and Hayden. 2,779,150.
- Hayden, Clyde G., to General Motors Corp. Sprag clutch. 2,795,308, 6-11-57, Cl. 192—45.1.
- Hayden, Ernest R. Double-action pump. 2,792,785, 5-21-57, Cl. 103—51.
- Hayden, James F.: *See*—
Hintz, Harvey P., Hayden, and Offensend. 2,800,832.
Hintz, Harvey P., Hayden, Offensend, and Wetherald. 2,794,364.
- Hayden, John R.: *See*—
Lloyd, William H., Disinger, and Hayden. 2,778,606.
- Hayden, Peter J., to P. A. Connellan. Retractable tractor wheel land grips. 2,818,301, 12-31-57, Cl. 301—46.
- Hayden, Ralph L., to L-O-F Glass Fibers Co. Fiber winding apparatus. 2,793,819, 5-28-57, Cl. 242—54.
- Hayden, William, Jr.: *See*—
Coleman, John H., Hayden, and O'Keefe. 2,779,786.
- Hayden, William M., to Chemetals Corp. Method of purifying metals and consolidating the same. 2,814,564, 11-26-57, Cl. 75—211.
- Haydon, Arthur W., to Consolidated Electronics Industries Corp. Motor speed governor. Re. 24,310, 4-30-57, Cl. 318—311.
- Haydon, John E., to Haydon Switch, Inc. Switch casing. 2,785,259, 3-12-57, Cl. 200—168.
- Haydon Mfg. Co., Inc.: *See*—
Poole, Arthur B. 2,783,835.
- Haydon Switch, Inc.: *See*—
Haydon, John E. 2,785,259.
- Hayek, Arthur F., to General Precision Laboratory Inc. Three dimensional cam follower. 2,788,677, 4-16-57, Cl. 74—569.
- Hayes, Burl C. Mounting for service ribbons. 2,795,876, 6-18-57, Cl. 40—15.
- Hayes, C. I., Inc.: *See*—
Gilbert, Wesley R. 2,783,987.
- Hayes, Carl W. Chord playing attachment. 2,798,398, 7-9-57, Cl. 84—317.
- Hayes, Charles M. Jet reamer. 2,785,875, 3-19-57, Cl. 255—1.8.
- Hayes, Charles W.: *See*—
Pew, James E., and Hayes. 2,780,304.
- Hayes, Clair: *See*—
Marcus, Ben E. 2,702,347.
- Hayes, Dale I., to American Zinc, Lead and Smelting Co. Track frame suspension for endless tread vehicle. 2,809,703, 10-15-57, Cl. 180—9.1.
- Hayes, Edward J.: *See*—
Riordan, Hugh E., and Hayes. 2,802,122.
- Hayes, Gordon B., to The Parsec Co. Detachable pouring spout for vessels. 2,783,924, 3-5-57, Cl. 222—569.
- Hayes, Harry T.: *See*—
Lannde, Robert W., Hayes, Deen, and Johnson. 2,796,603.
- Hayes, Jack D., Jr.: *See*—
Bohlman, Walter S., and Hayes. 2,775,987.
Bohlman, Walter S., and Hayes. 2,795,990.
Bohlman, Walter S., and Hayes. 2,807,975.
- Hayes, Jerry R. Can opener and spout. 2,779,504, 1-29-57, Cl. 222—83.5.
- Hayes, Lester P., and H. Wolff, to A. E. Staley Mfg. Co. Refining vegetable oils. 2,782,216, 2-19-57, Cl. 260—424.
- Hayes, Lester P., and H. Wolff, to A. E. Staley Mfg. Co. Processing vegetable oils. 2,792,411, 5-14-57, Cl. 260—424.
- Hayes, Loren A., to United States Steel Corp. Cutting tool with removable bit. 2,779,992, 2-5-57, Cl. 29—96.
- Hayes, Martha: *See*—
Marcus, Ben E. 2,802,347.
- Hayes, Monson H.: *See*—
Hunt, John M., and Hayes. 2,786,148.
- Hayes, Monson H. Voltage regulation. 2,814,014, 11-19-57, Cl. 321—18.
- Hayes, Richard D.: *See*—
Commlisso, Nicholas D., Hayes, and Samuels. 2,811,280.
- Hayes, Robert A., to The Firestone Tire & Rubber Co. Production of linear polyesters of alkylene dicarboxylic acids. 2,779,783, 1-29-57, Cl. 260—485.

- Hayes, Robert A., to The Firestone Tire & Rubber Co. Compositions of a styrene-acrylonitrile resin, a graft of styrene and acrylonitrile upon a diene rubber and a diene rubber. 2,802,808, 8-13-57, Cl. 260—45.5.
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- Hayes, Robert A., to Union Special Machine Co. Work feeding mechanism for sewing machines. 2,811,123, 10-29-57, Cl. 112—207.
- Hayes, Robert A., and G. M. Reimer, to Union Special Machine Co. Zigzag sewing machines. 2,792,797, 5-21-57, Cl. 112—158.
- Hayes, Robert E. Golf cup remover and setter. 2,792,251, 5-14-57, Cl. 294—19.
- Hayes, Robert H.: *See—*
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- Hayes, Robert H., to The B. F. Goodrich Co. Bearing assembly. 2,793,087, 5-21-57, Cl. 308—26.
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- Hayes, Stanley W., to Hayes Track Appliance Co. Wheel retainer with spiral cam actuated clamps. 2,789,517, 4-23-57, Cl. 104—258.
- Hayes, Thomas E. Money counting machine. 2,802,626, 8-13-57, Cl. 235—92.
- Hayes, Thomas E. Money counting machine. 2,805,858, 9-10-57, Cl. 271—74.
- Hayes, Thomas E. Produce hardness tester. 2,816,439, 12-17-57, Cl. 73—81.
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- Hayes, William G. Baseball air distribution assembly. 2,796,015, 6-18-57, Cl. 98—40.
- Hayeshaw Ltd.: *See—*
Roscoe, Samuel. 2,788,666.
- Hayford, Richard E., to The Haloid Co. Apparatus for developing electrostatic latent image. 2,808,023, 10-1-57, Cl. 118—637.
- Hayford, Richard E., to The Haloid Co. Electrophotographic developing powder cloud generating process and apparatus. 2,812,883, 11-12-57, Cl. 222—193.
- Hayford, Richard E., to The Haloid Co. Continuous tone reversal development process. 2,817,598, 12-24-57, Cl. 117—175.
- Hayford, Richard E., and H. E. Crumrine, to The Haloid Co. Powder charging device. 2,811,135, 10-29-57, Cl. 118—637.
- Hayford, Richard E., and A. C. Haacke, to The Haloid Co. Xerographic method. 2,817,765, 12-24-57, Cl. 250—65.
- Hayman, Max: *See—*
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- Hayman, Richard L.: *See—*
Driskel, Don W., and Hayman. 2,813,518.
- Hayne, Wilbur L., Jr.: *See—*
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- Hayne, William G. Combustion demonstration apparatus. 2,796,682, 6-25-57, Cl. 35—18.
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- Hayner, Paul F., to Sanders Associates, Inc. Hydraulic valve. 2,817,359, 12-24-57, Cl. 137—620.
- Haynes, Artemas J., and E. F. Allen, to V. E. Macy, Jr. Wind direction and velocity indicator. 2,780,937, 2-12-57, Cl. 73—189.
- Haynes, Artemas J., and E. F. Allen, to Valentine E. Macy, Jr. Pilot light. 2,786,196, 3-19-57, Cl. 340—381.
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- Haynes, Charles W., and A. P. Teal, to Black, Sivalls & Bryson Inc. Apparatus for treating liquid mixtures. 2,786,543, 3-26-57, Cl. 183—27.
- Haynes, Clyde H., and L. J. Mowry, to Gregory Industries, Inc. Stud welder. 2,790,066, 4-23-57, Cl. 219—98.
- Haynes, Donald C.: *See—*
Dunn, Eustace S., and Haynes. 2,809,310.
- Haynes, G. B.: *See—*
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- Haynes, Harold E., to Radio Corp. of America. Multi-path optical systems. 2,792,740, 5-21-57, Cl. 88—1.
- Haynes, Harold E., to Radio Corp. of America. Color correction systems. 2,808,453, 10-1-57, Cl. 178—5.2.
- Haynes, James L. Citrus fruit spoon. 2,778,109, 1-22-57, Cl. 30—324.
- Haynes, James R., and J. A. Hornbeck, to Bell Telephone Laboratories, Inc. Semiconductive devices. 2,805,347, 9-3-57, Cl. 250—211.
- Haynes, Joseph E. Sliding sash with lubricated bearings. 2,804,181, 8-27-57, Cl. 189—72.
- Haynes, Lester N. Tree girdler. 2,792,670, 5-21-57, Cl. 47—1.
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Beyer, Lawrence A. 2,792,958.
- Haynes, Munro K., W. W. Lawrence, and G. E. Whitney, to International Business Machines Corp. Comparing system. 2,800,280, 7-23-57, Cl. 235—61.7.
- Haynes, Richard H. Floor drainer. 2,816,664, 12-17-57, Cl. 210—460.
- Haynes, Robert E.: *See—*
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- Whitney, Donald B., Wing, and Haynes. 2,792,748.
- Haynes, Walter S. Stop watch. 2,788,765, 4-16-57, Cl. 116—129.
- Haynes, William J., to Leavenworth Steel, Inc. Cam actuated quick acting bench vise. 2,776,684, 1-8-57, Cl. 144—307.
- Hays, James B., Jr.: *See—*
Bodle, David W., and Hays. 2,789,254.
- Hays, Palmer E. Saw table with attachments for using power driven hand saw. 2,812,786, 11-12-57, Cl. 143—6.
- Hays, Thomas W., to Westinghouse Air Brake Co. Remote control systems. 2,790,158, 4-23-57, Cl. 340—163.
- Haywood, Wesley J., Jr.: *See—*
Westcott, Vernon C., Williams, and Haywood. 2,800,796.
- Hayworth, Curtis B.: *See—*
Hall, Herbert S., Hayworth, and Swaine. 2,813,007.
- Hayworth, Curtis B., and W. E. Watson, to Allied Chemical & Dye Corp. Production of sulfur dioxide from sulfur and sulfur trioxide. 2,813,006, 11-12-57, Cl. 23—177.
- Hazak, John T., and W. P. Kinneman, to Raymond Concrete Pile Co. Hydraulic pile driving hammer. 2,798,363, 7-9-57, Cl. 61—76.
- Hazard, Frank M., Jr.: *See—*
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- Hazard, Vivian E., to Beautee-Fit Co. Brassieres. 2,800,659, 7-30-57, Cl. 2—30.
- Hazel, Herbert K., to Melpar, Inc. Stapling machines. 2,778,691, 1-22-57, Cl. 302—2.
- Hazelle, Inc.: *See—*
Rollins, Hazelle H. 2,788,609.
- Hazelquist, Fred L. Hair clipping implement. 2,778,106, 1-22-57, Cl. 30—201.
- Hazelquist, Fred L. Barbering tool. 2,778,107, 1-22-57, Cl. 30—201.
- Hazeltine, Alan, to Hazeltine Research, Inc. Apparatus for utilizing the earth's magnetic field to indicate aircraft velocity. 2,785,376, 3-12-57, Cl. 324—70.
- Hazeltine, Alan, to Hazeltine Research, Inc. Autotransformer for scanning system of television receiver. 2,800,608, 7-23-57, Cl. 315—27.
- Hazeltine, James E., Jr., to Armstrong Cork Co. Felt base floor covering. 2,784,113, 3-5-57, Cl. 117—76.
- Hazeltine, James E., Jr., to Armstrong Cork Co. Method of producing plastic floor covering. 2,809,125, 10-8-57, Cl. 117—47.
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- Buehrle, William E., Jr., and Lanza. 2,790,166.
- Curtis, Richard C. 2,814,035.
- Espenlaub, Walter C. 2,806,211.
- Espenlaub, Walter C., and Loughlin. 2,807,661.
- Foster, Dudley E., and Gieseke. 2,802,909.
- Hallden, Frederick C. 2,807,740.
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- Hazeltine, Alan. 2,785,376.
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- Hirsch, Charles J. 2,795,656.
- Jones, William A. 2,794,149.
- Kirkness, Robert H., and Morrow. 2,790,903.
- Loughren, Arthur V. 2,793,247.
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- Loughlin, Bernard D. 2,810,780.
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- Luening, James W. 2,781,413.
- Nelson, Rudolph G. 2,790,075.
- Richman, Donald. 2,784,249.
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- Rubin, Samuel. 2,787,705.
- Hazelwood, Robert N.: *See—*
Butler, Charles E., and Hazelwood. 2,782,126.
- Hazelwood, Robert N., to McGraw Electric Co. Method and composition for making ceramic articles. 2,776,897, 1-8-57, Cl. 106—39.
- Hazen, Edward J., to Bendix Aviation Corp. Fuel control system and regulator for an intermittent or ram jet engine. 2,795,929, 6-18-57, Cl. 60—39.28.
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- Hazen, Elizabeth L., and R. F. Brown, to Research Corp. Nystatin and method of producing it. 2,797,183, 6-25-57, Cl. 167—65.
- Hazen, Ethmer J.: *See—*
Hoyet, Eugene, and Hazen. 2,776,527.
- Hazen, George G.: *See—*
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- Hazen, Gretzolon L., to James Mfg. Co. Means for moving feed forward in a reciprocating feed trough. 2,795,313, 6-11-57, Cl. 198—60.
- Hazen, Ronald M., and O. P. Prachar, to General Motors Corp. Ducted fan type jet propulsion engine. 2,798,360, 7-9-57, Cl. 60—35.6.
- Hazen, Stanley M.: *See—*
Hay, Russell G., and Hazen. 2,804,475.
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- Hazlett, Roy R. Portable trash and garbage can holder. 2,802,673, 8-13-57, Cl. 280—47.24.
- Heacock, Frederick H.: *See—*
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- Head, Cornelius R. Retaining devices for pump liners. 2,784,040, 3-5-57, Cl. 309-3.
- Head, James C. Tool for cleaning and burnishing commutators. 2,806,333, 9-17-57, Cl. 51-205.
- Head, James D.: *See—*
- Ivins, Owen D., Head, and Britton. 2,810,688.
- Head, William L., to Eastman Kodak Co. Composition and process for treating yarn. 2,807,864, 10-1-57, Cl. 28-75.
- Headlee, Frank. Musical training pot. 2,788,764, 4-16-57, Cl. 116-67.
- Headley, Walter L.: *See—*
- Nichool, William J., and Headley. 2,812,187.
- Heagerty, Hubert. Vehicle throttle depressor. 2,795,151, 6-11-57, Cl. 74-482.
- Heal, Robert G., to Staples and Co. Ltd. Adjustable height tables with telescoping supports. 2,794,695, 6-4-57, Cl. 311-40.
- Heal, Millard F., and G. H. Angell, to Sears, Roebuck and Co. Portable chain saw. 2,798,516, 7-9-57, Cl. 143-32.
- Heald, Daniel J., to General Foods Corp. Processing of fish. 2,787,549, 4-2-57, Cl. 99-111.
- Heald Machine Co., The: *See—*
- Blood, Harold L., and Rice. 2,787,874.
- Blood, Harold L., and Ware. 2,801,502.
- Schmidt, William D. 2,804,727.
- Thomas, Fred. 2,808,068.
- Townsend, Almon F. 2,780,036.
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- Heald, Robert F., and W. W. Sweet, to Colgate-Palmolive Co. Process for drying synthetic organic compositions and the like. 2,812,018, 11-5-57, Cl. 159-49.
- Healey, Norman: *See—*
- Brakel, Arle, and Healey. 2,788,323.
- Healey, Raymond P.: *See—*
- Young, Harold, and Healey. 2,776,928.
- Healis, George A. Toy and paddle. 2,776,524, 1-8-57, Cl. 46-69.
- Healy, James. Combined pipe and coin holder. 2,796,068, 6-18-57, Cl. 131-260.
- Healy, James. Rests and supports for cigars, cigarettes and pipes. 2,799,279, 7-16-57, Cl. 131-240.
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- Healy, John J., Jr., to Monsanto Chemical Co. Production of esters of acrylic acid. 2,816,135, 12-10-57, Cl. 260-489.
- Healy, Joseph F., to Harvey Hubbell, Inc. Aircraft safety switch. 2,786,912, 3-26-57, Cl. 200-67.
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- Heaps, John F.: *See—*
- Cohen, Oscar P., and Heaps. 2,794,736.
- Heard, Harry G., and W. W. Salsig, Jr., to the United States of America as represented by the United States Atomic Energy Commission. Accelerator target positioner. 2,798,178, 7-2-57, Cl. 313-62.
- Hearn, Benjamin F., 49% to H. J. Valentine. Material classifying apparatus. 2,812,060, 11-5-57, Cl. 209-36.
- Hearn, Robert T., to The Wayne Pump Co. Oil can draining rack. 2,807,290, 9-24-57, Cl. 141-375.
- Hearne, George W., D. S. La France, and E. C. Shokal, to Shell Development Co. Polymerization of unsaturated aldehydes with nitrite catalysts. 2,809,185, 10-8-57, Cl. 260-67.
- Heaston, Donald M.: *See—*
- Meredith, Z. Albert. 2,794,358.
- Heaston, George D.: *See—*
- Meredith, Z. Albert. 2,794,358.
- Heater, John N., to American Steel Foundries. Hydraulic press. 2,790,995, 5-7-57, Cl. 18-17.
- Heath, Arthur E.: *See—*
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- Heath, Clarence W., to Cinch Mfg. Corp. Vacuum tube holders for printed wire panels. 2,793,351, 5-21-57, Cl. 339-126.
- Heath Co.: *See—*
- Fleming, Lawrence T. 2,789,225.
- Heath, Dennis F.: *See—*
- Lane, David W. J., and Heath. 2,791,599.
- Heath, Dudley E., to Servel, Inc. Ice making machine. 2,778,198, 1-22-57, Cl. 62-7.
- Heath Engineering Co.: *See—*
- Mattingly, John W. 2,815,591.
- Heath, Howard B. Cutting guide for packaged food material. 2,789,913, 4-23-57, Cl. 99-178.
- Heath, Howard B. Elastic weed guard for fish hooks. 2,811,804, 11-5-57, Cl. 43-42.1.
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- Heath, Thomas C., to General Motors Corp. Temperature corrected electrical control device. 2,788,412, 4-9-57, Cl. 200-87.
- Heath, Thomas D.: *See—*
- Smith, David B., Lewis, Malabre, Jukkola, and Heath. 2,799,558.
- Heath, W. C. Associates Inc.: *See—*
- Heath, William C. 2,800,860.
- Heath, Warren F. Honing mandrel. 2,787,097, 4-2-57, Cl. 51-184.3.
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- Heathcote, Ronald T.: *See—*
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- Heather Filters Ltd.: *See—*
- Lewis, Douglas G. 2,802,544.
- Heaton, Robert L. Golf practice, arm restraint. 2,808,267, 10-1-57, Cl. 273-189.
- Heatube Corp.: *See—*
- Finn, John J. 2,783,353.
- King, Robert J. 2,786,931.
- Hebard, Glen G., and E. S. Miles, to Phillips Petroleum Co. Electrical indicator of trouble for engines, etc. 2,800,640, 7-23-57, Cl. 340-52.
- Hebb, Malcolm H., to General Electric Co. Radiation sources in charged particle accelerators. 2,803,766, 8-20-57, Cl. 313-62.
- Hebbel, Emil E., and C. D. Eichelberger, to General Electric Co. Clutch interlocked circuit breaker carrier mechanism. 2,778,895, 1-22-57, Cl. 200-50.
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- Hebel, Fred, to Fred Hebel Corp. Machine for dispensing refrigerated articles. 2,776,035, 1-1-57, Cl. 194-10.
- Hebel, Fred, Corp.: *See—*
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- Heber, Emery, to Bell Telephone Laboratories, Inc. Harmonic generator apparatus. 2,813,200, 11-12-57, Cl. 250-36.
- Heberlein Patent Corp.: *See—*
- Kunzle, August. 2,790,298.
- Vonaesch, Fritz. 2,777,186.
- Hebert, Eugene J., Jr.: *See—*
- Scal, Robert K-F. 2,808,521.
- Hebert, Harold C., and S. S. Nicholson, to American Can Co. Method and apparatus for handling sheet metal cans for storage and shipment. 2,788,136, 4-9-57, Cl. 214-83.22.
- Hebert, John W., to Calculator Corp. Sectional dumping grate. 2,790,401, 4-30-57, Cl. 110-18.
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- Evans, Lyon D., and Hebert. 2,805,451.
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- Hebron, Julia T. Safety purse device. 2,796,905, 6-25-57, Cl. 150-47.
- Hechler, Valentine, IV. Photoelectric circuit. 2,803,751, 8-20-57, Cl. 250-209.
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- Hechtman, John F.: *See—*
- McIntyre, James W., and Hechtman. 2,803,560.
- Heck, Burnette, to General Motors Corp. Fluid cooling system for liquid cooled friction brakes. 2,788,870, 4-16-57, Cl. 188-264.
- Heckel, Verne K.: *See—*
- King, Earle C., and Heckel. 2,799,522.
- Heckenkamp, Edward B.: *See—*
- Carlin, Robert, and Heckenkamp. 2,777,375.
- Hecker, Arthur C., to Argus Chemical Corp. Stabilizer composition for chlorine containing resins. 2,789,963, 4-23-57, Cl. 260-45.75.
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- Heckerman, Pearl M. G. Flexible shutter type door and window awning. 2,794,498, 6-4-57, Cl. 160-62.
- Heckert, Richard E.: *See—*
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- Heckert, Richard E., to E. I. du Pont de Nemours and Co. Preparation of tetracyanoethylene. 2,794,823, 6-4-57, Cl. 260-465.8.
- Heckert, Richard E., to E. I. du Pont de Nemours and Co. α -cyanovinyl-substituted aryl amines and their preparation. 2,803,640, 8-20-57, Cl. 260-465.

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- Heckethorn, John E., to Heckethorn Mfg. & Supply Co. Method of making a hose coupling. 2,814,862, 12-3-57, Cl. 29—443.
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- Vollertzen, Sven H., and Heckethorn. 2,785,016.
- Heckethorn, William W.: *See*—
Vollertzen, Sven H., and Heckethorn. 2,785,016.
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- Hedklinger, Clarence F., to Allied Chemical & Dye Corp. Controlled recovery of ammonia from liquors containing fixed ammonia valves. 2,781,244, 2-12-57, Cl. 23—193.
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- Hecox, William: *See*—
Merrill, Roger L., Boland, and Hecox. 2,777,661.
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- Hedding, Linnie K., and R. H. Zetwo, to Westinghouse Air Brake Co. Dry cell reconditioning device. 2,780,760, 2-5-57, Cl. 320—4.
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- Hedene, Edwin E., to Rockwell Mfg. Co. Venturi valve. 2,799,467, 7-16-57, Cl. 251—124.
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- Hedges, Lee M., to Johns-Manville Corp. Apparatus for forming fibers. 2,807,048, 9-24-57, Cl. 18—2.6.
- Hedin, Robert S.: *See*—
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- Hedland, Harry A., to W. Waterman. Flow regulators. 2,800,141, 7-23-57, Cl. 137—484.2.
- Hedley, Norman, and H. Tabachnick, to American Cyanamid Co. Process of recovering precious metals from refractory source materials. 2,777,764, 1-15-57, Cl. 75—105.
- Hedrick, Ross M., to Monsanto Chemical Co. Copolymer of ethylenesulfonfyl fluoride and acrylonitrile. 2,801,991, 8-6-57, Cl. 260—79.3.
- Hedstrom, Erik H. L., and R. V. Tegholm. Electromagnetic induction method and apparatus for prospecting. 2,794,949, 6-4-57, Cl. 324—6.
- Hedstrom, Otto: *See*—
Weber, William F., and Hedstrom. 2,811,163.
- Hedstrom Union Co.: *See*—
Boucher, Raymond W. 2,793,727.
- Hedtke, Robert G., to Minneapolis-Moline Co. Tensioning means for hay balers. 2,781,719, 2-19-57, Cl. 100—19.
- Hedwin Corp.: *See*—
Winstead, Thomas W. 2,790,651.
- Heeb, Volle C. Form for pouring concrete ditch dams. 2,786,255, 3-26-57, Cl. 25—118.
- Heehler, Arthur C., and F. X. Keegan, to The Pyle-National Co. Warning light with a retainer and mounting structure for a sealed beam lamp. 2,780,796, 2-5-57, Cl. 340—49.
- Heenan & Froude Ltd.: *See*—
Bathurst, William N., and Jarvis. 2,784,728.
- Heenan, Sidney A.: *See*—
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- Heep, Hermanus A. Drain trough construction. 2,791,011, 5-7-57, Cl. 20—70.
- Heer, Ralph W., to Poor & Co. Split shell for roll crusher. 2,798,676, 7-9-57, Cl. 241—294.
- Heer, Walter, to Escher Wyss Aktiengesellschaft. Slide track for machine tools. 2,800,375, 7-23-57, Cl. 308—160.
- Heer, William G. N., and B. L. Steierman, to Owens-Illinois Glass Co. Sealing cathode tubes. 2,793,472, 5-28-57, Cl. 49—82.
- Heer, William G. N., and N. M. Waterbury, to Owens-Illinois Glass Co. Aluminum bronze alloy containing boron and nickel. 2,809,889, 10-15-57, Cl. 75—159.
- Heerema, Jacob: *See*—
Segel, Edward, and Heerema. 2,810,751.
- Heerwagen, Paul K. Acoustic tile. 2,796,636, 6-25-57, Cl. 20—4.
- Heestand, Paul L. Printing screen registering device. 2,796,831, 6-25-57, Cl. 101—126.
- Heffelfinger, Robert D.: *See*—
Ayars, Edward M., Jr., Beyers, Heffelfinger, and Truitt. 2,814,088.
- Heffelfinger, Robert D., to American Viscose Corp. Precision fiber cutter. 2,782,853, 2-26-57, Cl. 164—68.
- Heffernan, William R., to Johnson & Johnson. Tying device. 2,805,664, 9-10-57, Cl. 128—296.
- Heffley, Howard H., to The Toledo Plate & Window Glass Co. Apparatus and method for silvering mirrors. 2,815,298, 12-3-57, Cl. 117—35.
- Heffner, Francis E.: *See*—
Davies, Robert, and Heffner. 2,786,363.
- Heffron, Charles B.: *See*—
Farr, Kenneth E., Baugh, and Heffron. 2,780,668.
- Heft, Joseph S., to Hewitt-Robins Inc. Log feeding apparatus. 2,792,099, 5-14-57, Cl. 198—30.
- Heftner, Bert H., to General Motors Corp. Insulating seal. 2,803,696, 8-20-57, Cl. 174—88.
- Heftner, Robert E., and M. E. Pruitt, to The Dow Chemical Co. Ethers of polyoxyalkylene glycols. 2,782,240, 2-19-57, Cl. 260—613.
- Heft, Carroll W.: *See*—
Heft, Fred R. 2,784,506.
- Heft, Fred R., deceased; C. W. Heft, executor. Ditch digging machine. 2,784,506, 3-12-57, Cl. 37—98.
- Heftler, Maurice B. Coasting economizers. 2,789,802, 4-23-57, Cl. 261—69.
- Heftler, Maurice B., and P. V. Carburetors. 2,793,633, 5-28-57, Cl. 123—122.
- Heftler, Pierre V.: *See*—
Heftler, Maurice B., and P. V. 2,793,633.
- Hegarty, James M., to Hoffman Electronics Corp. Pulse modulation circuits or the like. 2,797,389, 6-25-57, Cl. 332—9.
- Heger, Albert J.: *See*—
Smith, Theodore W., Heger, and McConnell. 2,818,063.
- Heger, Herbert: *See*—
Tramm, Heinrich, Kolling, Schnur, Buchner, Heger, and Stiebling. 2,802,843.
- Hegerland, Arent M. Snow plow. 2,794,272, 6-4-57, Cl. 37—45.
- Heggen, Ola. Electric switching device. 2,804,515, 8-27-57, Cl. 200—61.46.
- Hegmege, Paul E., Jr., to The International Nickel Co., Inc. Nickel alloy. 2,780,544, 2-5-57, Cl. 75—170.
- Hegstad, Lester O., to Hanson Equipment Co. Spray nozzle. 2,778,687, 1-22-57, Cl. 289—153.
- Hehr, Elmer T., E. F. Fey, and J. P. Roth, to Hehr Mfg. Co. Window structure. 2,794,017, 6-11-57, Cl. 20—53.
- Hehr Mfg. Co.: *See*—
Fey, Ephraim P., and Roth. 2,795,306.
Hehr, Elmer T., Fey, and Roth. 2,795,017.
Rodaway, Keith S. 2,795,413.
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- Heiberger, Charles A., to Food Machinery and Chemical Corp. Aralkyl halide stabilizers. 2,805,265, 9-3-57, Cl. 260—651.
- Heiberger, Charles A., and P. K. Reily, Jr., to Food Machinery and Chemical Corp. Aralkyl halide stabilizers. 2,803,674, 8-20-57, Cl. 260—651.
- Heiblim, Bernard: *See*—
Zucker, Arthur J., and Heiblim. 2,780,402.
- Heidecke, Reinhold, and H. F. Albrecht, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Photographic camera. 2,794,381, 6-4-57, Cl. 95—31.
- Heidelberger, Charles, and R. Duschinsky. 5-fluorouracil. 2,802,005, 8-6-57, Cl. 260—260.
- Heideman, Robert C., to American Carry Products Co., Inc. Combination stroller and baby carriage. 2,781,225, 2-12-57, Cl. 296—26.
- Heiden, John A., to United Engineering and Foundry Co. Article handling and transfer apparatus. 2,781,120, 2-12-57, Cl. 198—29.
- Heidenhain, Johannes. Projection measuring arrangement with transverse scale. 2,797,614, 7-2-57, Cl. 88—24.
- Heidinger, Del J., to Richards-Wilcox Mfg. Co. Chain link conveyor. 2,784,833, 3-12-57, Cl. 198—177.
- Heidmann, Leon, to Forges et Ateliers de Constructions Electriques de Jeumont. Machine for shaping containers. 2,787,973, 4-9-57, Cl. 113—44.
- Heidmann, Leon, to Forges et Ateliers de Constructions Electriques de Jeumont. Fluid-operated and electrically controlled mechanism generating an intermittent high fluid pressure in a molding machine. 2,794,519, 6-4-57, Cl. 185—27.

- Heidmann, Leon, to Forges et Ateliers de Constructions Electriques de Jeumont. Machine for setting and molding containers. 2,809,602, 10-15-57, Cl. 113-44.
- Heidner, Richard C., to West Bend Aluminum Co. Speed limiter. 2,798,468, 7-9-57, Cl. 123-98.
- Heidner, Richard C., to West Bend Aluminum Co. Fuel activating means. 2,804,861, 9-3-57, Cl. 123-59.
- Heien, Sigurd, Combination washing, rinsing and drying machine. 2,797,567, 7-2-57, Cl. 68-16.
- Heigis, Henry E., to Specialties Development Corp. Fluid dispensing system. 2,780,296, 2-5-57, Cl. 169-11.
- Heijligers, Joris D.: *See*—
- Roovers, Wilhelmus A., and Van Steenis. 2,780,892.
- Vermaas, Henricus G. P., and Van Steenis. 2,785,821.
- Heijnis, James W. I., and C. Engels, to American Enka Corp. Ribbon guide. 2,786,674, 3-26-57, Cl. 271-2.3.
- Heikes, Norman L.: *See*—
- Stahl, Robert J., and Heikes. 2,787,655.
- Heil Co., The: *See*—
- Brown, Arthur G., and Urban. 2,798,624.
- Wieschel, John E. 2,795,458.
- Hell, Friedrich, to Telefonbau und Normalzeit G. m. b. H. Printing cylinders with dual position printing plates. 2,816,503, 12-17-57, Cl. 101-91.
- Heil, Wilhelm: *See*—
- Kiefer, Erich, and Hell. 2,805,492.
- Heilbronner, Harry S., to The Perry Knitting Co. Sleeve construction. 2,775,771, 1-1-57, Cl. 2-270.
- Heilman, Cecil C., and C. D. Graber, to Diebold, Inc. Collective drawer lock construction for insulated filing cabinets and the like. 2,789,876, 4-23-57, Cl. 312-218.
- Hellman, Cecil C., and C. D. Graber, to Diebold Inc. Insulated filing cabinet construction. 2,808,307, 10-1-57, Cl. 312-214.
- Hellman, George P., P. Kaye, and V. Wasynczuk, to International Staple and Machine Co. Two-piece removable anvil for stapling machines. 2,816,288, 12-17-57, Cl. 1-2.
- Hellman, James M.: *See*—
- Swenson, Gustave F. 2,799,058.
- Hellman, John T. Locking device for bolt action rifles. 2,803,079, 8-20-57, Cl. 42-16.
- Hellmann, Phillip, H. Losch, E. Marx, and L. Schmitz. Arc-extinguishing mechanism for electric switches. 2,781,435, 2-12-57, Cl. 200-150.
- Heim, Alfred, to Jahresuhren-Fabrik G. m. b. H., Aug. Schatz & Sohne. Alarm movement. 2,798,358, 7-9-57, Cl. 58-16.
- Heim, Lewis R. Method of making self-aligning bearings. 2,787,048, 4-2-57, Cl. 29-149.5.
- Heiman, Sidney J. Fan having adjustable directional air controls. 2,792,985, 5-21-57, Cl. 230-274.
- Helmaster, John W., to Union Carbide and Carbon Corp. Bore mining machine with strata differentiating device. 2,798,710, 7-9-57, Cl. 262-7.
- Heimbach, Karl N., to General Railway Signal Co. Plug-in connector type terminal board. 2,793,354, 5-21-57, Cl. 339-198.
- Heimbach, Otto: *See*—
- Everard, Joseph. 2,777,977.
- Heimberg, Karl: *See*—
- Doat, Robert, Heimberg, and Paschke. 2,787,535.
- Heimberg, Karl, and E. Lanzendoerfer, to Compagnie Generale des Conduites d'Eau. Process of producing Bessemer steel. 2,802,731, 8-13-57, Cl. 75-43.
- Heimbuch, Elmer F., to Brummer Seal Co. One-piece damper and retainer ring for annular seal. 2,784,016, 3-5-57, Cl. 288-2.
- Heimerich, George R. Photographic film changers. 2,815,451, 12-13-57, Cl. 250-66.
- Heimers, Friedrich O.: *See*—
- Heimers, Rudolph H., F. O. and S. I. 2,806,700.
- Heimers, Rudolph H., F. O. and S. I. Apparatus having a captive element. 2,806,700, 9-17-57, Cl. 273-95.
- Heimers, Sigfried I.: *See*—
- Heimers, Rudolph H., F. O. and S. I. 2,806,700.
- Heimlicher, Paul, to Maschinenfabrik Winkler, Fallert & Co. A. G. Decelerating and stopping device for conveyor fed sheets. 2,803,459, 8-20-57, Cl. 271-46.
- Hein, Charles E., and M. O. Kos, to Morse Chain Co. Clutch and controls therefor. 2,809,535, 10-15-57, Cl. 74-472.
- Hein, George N., Jr. Injection apparatus. 2,785,678, 3-19-57, Cl. 128-173.
- Hein, George N., Jr. Ampule. 2,798,485, 7-9-57, Cl. 128-173.
- Hein, George N., Jr. Injection assembly. 2,798,486, 7-9-57, Cl. 128-173.
- Hein, Harold W., to International Harvester Co. Single vane pump. 2,818,025, 12-31-57, Cl. 103-136.
- Hein, Henry W.: *See*—
- Dolney, Stanley M., and Hein. 2,810,421.
- Hein, Henry W., and F. J. Phillips, to The Cyril Bath Co. Method for stretch forming tapered blanks. 2,816,593, 12-17-57, Cl. 153-40.
- Hein, Lehmann & Co., Aktiengesellschaft: *See*—
- Schweppe, Ernst. 2,802,574.
- Hein, Wilbur G., to Vapor Recovery Systems Co. Depth indicating apparatus for large tanks. 2,811,039, 10-29-57, Cl. 73-321.
- Heindel, Frank D.: *See*—
- Haines, George S., Heindel, and Meeker. 2,782,099.
- Haines, George S., Heindel, and Osborne. 2,812,245.
- Heindel, Herbert H.: *See*—
- Holmes, Burton F., and Heindel. 2,811,758.
- Heine, Bruno, to Allgemeine Telefon-Fabrik, G. m. b. H. Combination telephone switch and dial. 2,794,861, 6-4-57, Cl. 179-99.
- Heine, Henry W. Liquid filter. 2,788,128, 4-9-57, Cl. 210-282.
- Heine, Henry W. Method of making composite fireproof acoustical tile. 2,791,020, 5-7-57, Cl. 25-156.
- Heine, Thomas H.: *See*—
- Gilmore, John F., and Heine. 2,812,228.
- Meister, George, and Heine. 2,802,129.
- Meister, George, and Heine. 2,806,970.
- Heinecke, Erich, to International Standard Electric Corp. High-efficiency linear amplifier. 2,785,235, 3-12-57, Cl. 179-171.
- Heinemann Electric Co.: *See*—
- Wilckens, Kurt W. 2,781,433.
- Wilckens, Kurt W. 2,817,730.
- Heinemann, Heinz, to Houdry Process Corp. Regeneration of noble metal catalysts. 2,785,139, 3-12-57, Cl. 252-415.
- Heinemann, Heinz, and G. A. Mills, to Houdry Process Corp. Isomerization of N-butane and N-pentane. 2,798,105, 7-2-57, Cl. 260-683.5.
- Heinemann, Kurt W., to Schlumberger Well Surveying Corp. Measuring device. 2,778,117, 1-22-57, Cl. 33-134.
- Heinen, Irving J.: *See*—
- Heinen, Joseph and I. J. 2,795,960.
- Heinen, Joseph and I. J. Valve actuating means. 2,795,960, 6-18-57, Cl. 74-22.
- Heiner, Laurence E. Imitation football game. 2,784,970, 3-12-57, Cl. 273-94.
- Heininger, Samuel A., to Monsanto Chemical Co. Phenylhydrazinopropionitriles, herbicidal method and composition embodying same. 2,792,296, 5-14-57, Cl. 71-2.3.
- Heininger, Samuel A., to Monsanto Chemical Co. Process for preparing chromanones. 2,792,407, 5-14-57, Cl. 260-345.2.
- Heininger, Samuel A., to Monsanto Chemical Co. Hydrazinopropionitrile compounds. 2,802,021, 8-6-57, Cl. 260-465.5.
- Heininger, Samuel A., to Monsanto Chemical Co. Hydroxy-anilino-propionitriles. 2,809,983, 10-15-57, Cl. 260-465.
- Heininger, Samuel A., to Monsanto Chemical Co. Acetylenic nitriles. 2,809,988, 10-15-57, Cl. 260-465.6.
- Heininger, Samuel A., to Monsanto Chemical Co. Ether-nitriles. 2,818,422, 12-31-57, Cl. 260-465.
- Heinisch, George. Rotary well drilling machine. 2,803,434, 8-20-57, Cl. 255-19.
- Heinle, Carl W., R. E. J. Nordquist, and K. Bofinger, to American Can Co. Can opening key soldering machine. 2,785,281, 3-12-57, Cl. 219-85.
- Heinlein, John L., and C. H. Muehlhausen, to The Oliver Co. Mounting and control means for a tractor mounted mower. 2,817,204, 12-24-57, Cl. 56-25.
- Heinn Co., The: *See*—
- Pandl, Conrad J. 2,784,719.
- Heino, Arne W., to Wood Conversion Co. Panel board coating apparatus. 2,811,133, 10-29-57, Cl. 118-239.
- Heinrich, Adolf. Carburetor with improved carburization. 2,793,846, 5-28-57, Cl. 261-65.
- Heinrich, August H. Sealing systems. 2,776,851, 1-8-57, Cl. 286-11.
- Heinrich Koppers Gesellschaft mit beschränkter Haftung: *See*—
- Frauhöse, Heinrich, and Dittmer. 2,792,923.
- Heinrich, Oswald X. Centrifugal dust collector with laminar gas flow. 2,806,551, 9-17-57, Cl. 183-80.
- Heinrich, Richard F. Cyclone dust separators. 2,802,545, 8-13-57, Cl. 183-76.
- Heinrich, William H., to Sorensen & Co., Inc. Voltage regulator. 2,810,105, 10-15-57, Cl. 323-22.
- Heinrich, Wolfgang A., to Eastman Kodak Co. Electrolytic process for removing machining burrs from metal articles. 2,784,155, 3-5-57, Cl. 204-143.
- Heinrichs, Samuel J., to Field Maintenance Service. Bar conveyor. 2,776,045, 1-1-57, Cl. 198-195.
- Heins, Harold: *See*—
- Coggins, Donald I., and Heins. 2,794,967.
- Heins, Harold, to Bomac Laboratories Inc. Water vapor replenisher for gaseous discharge switching devices. 2,791,715, 5-7-57, Cl. 313-180.
- Heins, Sidney M., to Atlantic Chemicals and Metals Co. Method for removing tint coatings. 2,807,538, 9-24-57, Cl. 75-64.
- Heintke, Martin: *See*—
- Mersheimer, Hans, and Heintke. 2,788,223.
- Heintz, Charles E.: *See*—
- Fink, Carl J., and Heintz. 2,816,367.
- Heintz Mfg. Co.: *See*—
- Muir, Robert, and Schuster. 2,801,944.
- Schuster, Ludwig K., and Baldi. 2,777,785.
- Trautvetter, George. 2,783,113.
- Heinze, Otto K. Piston ring. 2,802,709, 8-13-57, Cl. 309-44.
- Heinze, Werner, and W. Julich, to Precisa A. G. Rechenmaschinenfabrik. Printing mechanism for printing a number, including a decimal fraction. 2,802,415, 8-13-57, Cl. 101-93.

- Heinzelman, Earl E.: *See*—
Eager, Herbert H., and Heinzelman. 2,808,859.
- Heinzelman, Edward, Jr.: *See*—
Aspergren, Brooke D., Heinzelman, and Moffett. 2,782,206.
- Ayres, Robert F., and Heinzelman. 2,790,740.
- Heinzelman, Richard V., and B. D. Aspergren, to The Upjohn Co. d-N-methyl-N-benzyl- β -phenylisopropylamine. 2,789,138, 4-16-57, Cl. 260—570.9.
- Heinzelman, Richard V., and B. D. Aspergren, to The Upjohn Co. N(α - β -diphenyl ethano) pyrrolidine compounds. 2,798,876, 7-9-57, Cl. 260—326.5.
- Heinzmann, Fritz. Centrifugal speed governor. 2,797,079, 6-25-57, Cl. 264—15.
- Heinzmann, Fritz. Centrifugal speed governor. 2,807,455, 9-24-57, Cl. 264—15.
- Heise, Howard L., and G. McAllister, to The Gummed Products Co. Method of coating and remoistening gummed tapes. 2,805,172, 9-8-57, Cl. 117—62.
- Heise, Samuel M., and G. C. Tipton. Incubator egg turning device. 2,782,759, 2-26-57, Cl. 119—44.
- Heisenberg, Erwin, and E. Pirot, to Vereinigte Glanzstoff Fabriken Aktiengesellschaft. Method of spinning solutions of polyacrylonitrile or mixed polymers thereof. 2,779,746, 1-29-57, Cl. 260—32.6.
- Heisenberg, Erwin, and R. Lotz, to Vereinigte Glanzstoff-Fabriken Aktiengesellschaft. Preparation of 1,4-bis(trichloromethyl)-2,5-dichlorobenzene. 2,814,648, 11-26-57, Cl. 260—651.
- Heiser, Edward J.: *See*—
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- Heiser, George H., to Westinghouse Electric Corp. Hydraulically operated disconnect coupling. 2,784,822, 3-12-57, Cl. 192—86.
- Heiser, Robert F. Vehicle lighting. 2,784,303, 3-5-57, Cl. 240—71.
- Heisig, Theodore C.: *See*—
Keating, Patrick J., Jr., and Heisig. 2,785,078.
- Heisler, Edward G.: *See*—
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- Heisler, Joseph L., to Tele-Dynamics Inc. Rack-mount arrangement. 2,789,024, 4-16-57, Cl. 312—333.
- Heisler, Robert Y., to The Texas Co. Olefin carbonylation process. 2,816,931, 12-17-57, Cl. 260—604.
- Heiss, Harvey, to Genco, Inc. Amusement game apparatus. 2,783,754, 3-5-57, Cl. 124—1.
- Heiss, John P., to Thompson Products, Inc. Thermostatic fan. 2,786,456, 3-26-57, Cl. 123—41.12.
- Heiss, John P., to Thompson Products, Inc. Automatic tapet. 2,795,218, 6-11-57, Cl. 123—90.
- Heiss, John P., to Thompson Products, Inc. Piston ring. 2,817,565, 12-24-57, Cl. 309—44.
- Heitmann, Walter. Tobacco feed machine. 2,802,471, 8-13-57, Cl. 131—146.
- Heizer, Raymond, Jr., J. D. Gay, Jr., and H. G. Bell, to Gay-Bell Corp. Dolly support for hoghead loader and compactor. 2,782,711, 2-26-57, Cl. 100—229.
- Hejtmanek, Joe E. Agitation plate for feed hopper. 2,801,729, 8-6-57, Cl. 198—53.
- Hekster, Siegfried. Device for determining the resultant of series or parallel complex resistance in arbitrary combinations. 2,800,279, 7-23-57, Cl. 235—61.
- Helber, Carl A., to Goodyear Aircraft Corp. Photographic film transport mechanism. 2,782,701, 2-26-57, Cl. 95—31.
- Helberg, Vernon C. Clip board. 2,783,062, 2-26-57, Cl. 281—44.
- Helberger, Johann H.: *See*—
Blaser, Bruno, Haas, and Helberger. 2,793,229.
- Helbling, Anton E. Electric branding and dehorning iron. 2,779,854, 1-29-57, Cl. 219—30.
- Helbling, Anton E. Docking iron. 2,780,713, 2-5-57, Cl. 219—29.
- Helco Products Corp.: *See*—
MacCauley, Wilbur J., and Parrish. 2,806,483.
- Woods, Elmer O., MacCauley, and Kaufman. 2,806,928.
- Held, Joseph, to Textile Machine Works. Guide bar shogging means for knitting machines. 2,775,881, 1-1-57, Cl. 66—86.
- Held, Joseph, to Textile Machine Works. Yarn tensioning means for knitting machines. 2,811,027, 10-29-57, Cl. 66—146.
- Heldstab, Walter H. Oil bath journal lubricator. 2,803,506, 8-20-57, Cl. 308—83.
- Helen, Edwin O. Cranberry harvester. 2,783,605, 3-5-57, Cl. 56—330.
- Helfrich, Ronald D. Nut harvesting apparatus. 2,807,128, 9-24-57, Cl. 56—328.
- Helgeby, Ralph O., to General Motors Corp. Continuous vivid arc instrument. 2,793,605, 5-28-57, Cl. 116—57.
- Helgeby, Ralph O., to General Motors Corp. No tipping error speed cup instrument. 2,798,174, 7-2-57, Cl. 310—97.
- Helgeby, Ralph O., to General Motors Corp. In-line speedometer indicator. 2,802,442, 8-13-57, Cl. 116—57.
- Helgeland, Neil T. B. Folding knockdown table. 2,783,110, 2-26-57, Cl. 311—79.
- Helgeson, Henry E. Shock absorbing trailer hitch. 2,797,934, 7-2-57, Cl. 280—489.
- Helgren, Fred J., to Abbott Laboratories. Sweetening compositions and method of producing the same. 2,803,551, 8-20-57, Cl. 99—141.
- Heli-Coil Corp.: *See*—
Brancato, Leo J. 2,780,265.
- Brancato, Leo J. 2,780,270.
- Forster, John O., and Mussnug. 2,782,674.
- Pearson, Robert D. 2,804,320.
- Smith, Byrom J. 2,775,992.
- Helke, Robert C., to General Motors Corp. Fluid motor and transmission. 2,778,462, 1-22-57, Cl. 192—03.
- Heller, Franz, to American Type Founders Co., Inc. Plate clamping means. 2,778,307, 1-22-57, Cl. 101—415.1.
- Heller, George L.: *See*—
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- Heller, George L., to Columbian Carbon Co. Manufacture of carbon black. 2,779,665, 1-29-57, Cl. 23—209.8.
- Heller, George L., to Columbian Carbon Co. Manufacture of carbon black. 2,782,101, 2-19-57, Cl. 23—209.4.
- Heller, George P., to Dit-Mco, Inc. Projection booth port hole blower. 2,785,621, 3-19-57, Cl. 98—36.
- Heller, George W., Inc.: *See*—
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- Heller, Isaac, to Robin Hood Co. Telephonic unit with battery-powered auxiliaries. 2,790,027, 4-23-57, Cl. 179—1.
- Heller, Isaac, to Robin Hood Co. Toy radio station, telephone and signaling system. 2,813,373, 11-19-57, Cl. 46—227.
- Heller, Joseph N.: *See*—
McMullen, Wesley W., and Heller. 2,779,431.
- Heller, Joseph N., and R. H. Spahr, Jr., to General Motors Corp. Multiple sound frequency inlet silencer. 2,804,161, 8-27-57, Cl. 181—35.
- Heller, Paul R.: *See*—
Baudry, René A., and Heller. 2,780,739.
- Heller, Robert E., H. M. Owren, and D. A. Mack, to the United States of America as represented by the United States Atomic Energy Commission. Pulse transformer. 2,799,836, 7-16-57, Cl. 336—220.
- Hellerud, Arthur O. Clam-shell and bucket control system. 2,784,862, 3-12-57, Cl. 214—657.
- Hellier, Edward. Hot beverage dispenser. 2,799,300, 7-16-57, Cl. 141—104.
- Hellman, Simon M. Means for mounting anti-skid tire chains on tires. 2,815,060, 12-3-57, Cl. 152—214.
- Hellmann, Frank R., Jr., to The Standard Oil Co. Filter apparatus. 2,780,359, 2-5-57, Cl. 210—43.
- Hellmann, Richard J.: *See*—
Fowler, William F., Jr., and Hellmann. 2,798,063.
- Hellmann, Richard J., to Eastman Kodak Co. Hydrosols of acrylic esters and hydrophobic monomers polymerized with cationic or amphotolytic hydrophilic copolymers and process for making same. 2,808,388, 10-1-57, Cl. 260—45.5.
- Hellmich, Ernst. Knife for cutting onions. 2,788,820, 4-16-57, Cl. 146—147.
- Hellrich, Tobias. Artificial Christmas tree. 2,814,897, 12-3-57, Cl. 41—15.
- Hellstrom, Axel G., to Aktiebolaget Elektrolux. Absorption refrigeration. 2,795,941, 6-18-57, Cl. 62—119.5.
- Hellstrom, Axel S., to The Youngstown Foundry & Machine Co. Apparatus for processing metal strip. 2,790,229, 4-30-57, Cl. 29—81.
- Hellstrom, Gosta: *See*—
Ullstrand, Hugo M., and Hellstrom. 2,804,757.
- Hellstrom, Gosta L. Electric switch. 2,810,031, 10-15-57, Cl. 200—67.
- Hellstrom, Lennart M.: *See*—
Bard, Larry A., Cardoze, and Hellstrom. 2,809,515.
- Hellyer, Harold. Vehicle wheel jack. 2,808,162, 10-1-57, Cl. 214—332.
- Hellyer, John T.: *See*—
Gundelinger, William E., and Hellyer. 2,794,245.
- Helm, Hugh: *See*—
Woodward, Frank, and Helm. 2,784,338.
- Helm, Jack D.: *See*—
Hopkins, Frank L., and Helm. 2,808,858.
- Helm, Tony W., and E. A. Derieg. True vertical travel independent suspension for automotive vehicles. 2,793,874, 5-28-57, Cl. 280—124.
- Helmbrecht, Wilbur H.: *See*—
Hackman, Robert L., Lobosco, and Helmbrecht. 2,806,127.
- Helmer, Robert, to Helmer Transmission Corp. Magnetic torque transmission. 2,779,548, 1-29-57, Cl. 242—75.
- Helmer Transmission Corp.: *See*—
Helmer, Robert. 2,779,548.
- Helmert, Robert, to International Standard Electric Corp. Circuit arrangement for the blocking of circuits in interlocking plants operating with electric lockings. 2,787,740, 4-2-57, Cl. 317—136.
- Helms, Frank W., to Allis-Chalmers Mfg. Co. Harvester grain conveyor. 2,783,906, 3-5-57, Cl. 214—519.
- Helms, Joseph M.: *See*—
Long, Charlie J., and Helms. 2,800,686.
- Helmshrott, Hans, M. Hurst, and J. Weber, to Robert Bosch G. m. b. H. Injection pump regulating structure. 2,798,469, 7-9-57, Cl. 123—140.
- Helmut, Majer. Method of manufacturing paper containers. 2,802,407, 8-13-57, Cl. 93—55.1.
- Helpard, Curtis S., to Makatag Machine Corp. Tag patch supply. 2,815,121, 12-3-57, Cl. 206—56.
- Helsel, Harold E. Hospital bed. 2,807,174, 9-24-57, Cl. 74—722.
- Helsingborgs Gummifabriks Aktiebolag: *See*—
Stelling, Per O., and Flemmert. 2,798,792.

- Helsper, Robert G., to Specialties Development Corp. Deformation switch assembly. 2,790,872, 4-30-57, Cl. 200-86.
- Heltzel, Carl J.: *See*—
- Heltzel, John N., 2,777,370.
- Heltzel, John N., 2,780,149.
- Heltzel, John N., deceased; The Union Savings & Trust Co. and C. J. Heltzel, executors. Concrete expansion joints. 2,777,370, 1-15-57, Cl. 94-17.
- Heltzel, John N., deceased; The Union Savings & Trust Co., and C. J. Heltzel, executors. Concrete expansion joints. 2,780,149, 2-5-57, Cl. 94-18.
- Helvern, James O., to General Motors Corp. Automatic brake wear adjuster for vehicles. 2,804,177, 8-27-57, Cl. 188-79.5.
- Helwig, Clifford C. Fireplace front. 2,776,707, 1-8-57, Cl. 160-118.
- Helwig, Ralph W.: *See*—
- Hay, Russell G., and Helwig. 2,794,841.
- Heming, Linus M.: *See*—
- Whitehead, William, and Heming. 2,776,869.
- Heminway & Bartlett Mfg. Co., The: *See*—
- Houk, Charles D., and Thompson. 2,795,242.
- Hemmeter, George T. Wheel balancer. 2,779,196, 1-29-57, Cl. 73-458.
- Hemmi, Hans: *See*—
- Hofer, Kurt, and Hemmi. 2,802,715.
- Hemmi, Hans M.: *See*—
- Hofer, Kurt, and Hemmi. 2,817,675.
- Hemming, Charles B., W. H. Sheffield, and G. T. Brown, Jr., to United States Plywood Corp. Decorative laminated covering material and method of making same. 2,812,277, 11-5-57, Cl. 154-102.
- Hemminger, Charles E., to Esso Research and Engineering Co. Fluid hydroforming process with regeneration of the platinum containing catalyst. 2,816,857, 12-17-57, Cl. 196-50.
- Hemminger, Charles E., and C. W. Tyson, to Esso Research and Engineering Co. Reforming followed by hydrodealkylation. 2,780,661, 2-5-57, Cl. 260-672.
- Hemmings, Emile A., and G. Adamec; said Adamec assor., to said Hemmings. Compact construction. 2,779,344, 1-29-57, Cl. 132-83.
- Hempel, Gustav A., to McDowell Mfg. Co. Rotatably engageable lugged pipe-in-locket coupling with auxiliary latch. 2,806,717, 9-17-57, Cl. 285-5.
- Hempel, Herbert W., to Marsh Stencil Machine Co. Twin length selector control for tape dispenser. 2,797,919, 7-2-57, Cl. 271-2.4.
- Hemphill, Alfred A., and J. M. Tewksbury, to Bendix Aviation Corp. Means for reducing leakage inductance in magnetic antennas. 2,807,801, 9-24-57, Cl. 343-788.
- Hemphill, Alfred A., and J. M. Tewksbury, to Bendix Aviation Corp. Magnetic antenna with low leakage inductance. 2,807,802, 9-24-57, Cl. 343-788.
- Hemphill Co.: *See*—
- Anton, Clifford. 2,799,148.
- Canavan, Joseph P. 2,785,554.
- Hemphill, Lawrence F., to General Electric Co. Apparatus for making dynamoelectric machine cast winding rotor. 2,807,844, 10-1-57, Cl. 22-116.
- Hemscheidt, Hermann. Air cleaner of suction type. 2,789,659, 4-23-57, Cl. 183-34.
- Hemsworth, Martin C., to General Electric Co. Annular means for changing the area of a variable exhaust nozzle. 2,800,766, 7-30-57, Cl. 60-35.6.
- Hemsworth, Martin C., to General Electric Co. Sealing means. 2,811,379, 10-29-57, Cl. 288-4.
- Henchert, John: *See*—
- Flugge, Sylvester L., and Henchert. 2,808,972.
- Henchert, John, to Continental Can Co., Inc. Plastic nozzle mounting. 2,805,006, 9-3-57, Cl. 222-566.
- Henchert, John, to Continental Can Co., Inc. Plastic nozzle or spout mounting and method of forming same. 2,815,894, 12-10-57, Cl. 222-566.
- Henchert, John, to Continental Can Co., Inc. Plastic nozzle or spout mounting. 2,818,203, 12-31-57, Cl. 222-542.
- Henchert, John, and W. F. Punte, to Continental Can Co., Inc. Plastic nozzle and screw cap assembly. 2,818,204, 12-31-57, Cl. 222-551.
- Hencken, James E.: *See*—
- Derner, William J., and Hencken. 2,801,394.
- Hendee, Charles F., to North American Philips Co., Inc. Mass spectrometer. 2,798,162, 7-2-57, Cl. 250-41.9.
- Hendel, Frank J., to Wigton-Abbott Corp. Production of dichlorodiphenyltrichlorethane. 2,786,084, 3-19-57, Cl. 260-649.
- Henderson, Albert. Molds for concrete building members. 2,783,520, 3-5-57, Cl. 25-118.
- Henderson, Albert. Continuous precast concrete girders and columns. 2,783,638, 3-5-57, Cl. 72-15.
- Henderson, Cloyd S., and D. E. Axe, to The O. M. Edwards Co., Inc. Unit frame mounting means. 2,787,347, 4-2-57, Cl. 189-64.
- Henderson, Courtland M., G. L. Martin, and A. D. Gott, to Mallinckrodt Chemical Works. Exothermic metallurgical composition and method of introducing same into ferrous alloy. 2,805,145, 9-3-57, Cl. 75-27.
- Henderson, Delbert H. Incinerator apparatus. 2,816,519, 12-17-57, Cl. 110-18.
- Henderson, Edward. Drop dispenser and container. 2,800,253, 7-23-57, Cl. 222-209.
- Henderson, George A.: *See*—
- Kendall, James M., and Henderson. 2,777,028.
- Henderson, Harvey L., and J. Q. A. Greene, to Gunite Concrete and Construction Co. Cutting and forming apparatus for rolled stock. 2,811,989, 11-5-57, Cl. 140-105.
- Henderson, J. Alvin: *See*—
- Harris, Samuel J., and Henderson. 2,818,467.
- Henderson, J. Alvin, to Farnsworth Research Corp. Blanking circuit for electron multiplier. 2,777,948, 1-15-57, Cl. 250-27.
- Henderson, Jack F.: *See*—
- Johnson, Charles R., and Henderson. 2,775,929.
- Henderson, John A., I. R. Lewis, Jr., and F. A. Scott, to Merck & Co., Inc. Article positioning apparatus. 2,815,113, 12-3-57, Cl. 198-33.
- Henderson, John B.: *See*—
- Beerbower, Alan, and Henderson. 2,814,595.
- Henderson, Ray M. Apparatus for supplying heat for hot gas defrosting systems. 2,807,145, 9-24-57, Cl. 62-3.
- Henderson, Robert, to Research Interests Ltd. Structural space frames. 2,803,317, 8-20-57, Cl. 189-34.
- Henderson, Robert E., to The Goodyear Tire & Rubber Co. Production of dry N,N-diisopropyl-2-benzothiazolesulfenamide. 2,782,202, 2-19-57, Cl. 260-306.6.
- Henderson, Ronald P. Quartz fibre electroscopes. 2,806,960, 9-17-57, Cl. 250-83.3.
- Henderson, Vernon J. Garment hanger. 2,812,888, 11-12-57, Cl. 223-88.
- Henderson, Wayne L., to General Electric Co. Terminal assembly. 2,790,962, 4-30-57, Cl. 339-202.
- Henderson, Wayne L. R., to General Electric Co. Weather-tight ballast. 2,779,496, 1-29-57, Cl. 220-3.92.
- Henderson, Wayne L. R., to General Electric Co. Inductive device. 2,815,492, 12-3-57, Cl. 336-165.
- Henderson Welding Works, Inc.: *See*—
- Pearl, Eugene J. 2,817,495.
- Henderson, William G., to Radio Corp. of America. Stud welder. 2,817,746, 12-24-57, Cl. 219-103.
- Henderson, Willis. Continuous coal or oil shale-mining pulverizing and simultaneous burning apparatus. 2,800,316, 7-23-57, Cl. 262-26.
- Hendey Mfg. Corp.: *See*—
- Kellar, George E. 2,793,002.
- Hendricks, Charles E., to The Celastic Corp. Impregnation of sheet materials with synthetic resin latices. 2,805,962, 9-10-57, Cl. 117-120.
- Hendricks, George D., and G. L. Rambo, to Eagle Signal Corp. Solenoid actuated interrelated locking means for flow controls in a plurality of independent channels. 2,798,917, 7-9-57, Cl. 200-98.
- Hendrickson, Alfred R.: *See*—
- Cardwell, Paul H., Eilers, and Hendrickson. 2,794,779.
- Hendrickson, Don R. Gate latch for animal pens. 2,793,897, 5-28-57, Cl. 292-210.
- Hendrickson, Fritz E., to Norton Co. Adjustable width buffing wheel hub construction for mounting elements in staggered relation. 2,785,516, 3-19-57, Cl. 51-193.
- Hendrickson, James M., to The Pannier Corp. Metal stamping machine. 2,776,617, 1-8-57, Cl. 101-4.
- Hendrickson, Luther G., and M. F. Williams, Jr., to United States Steel Corp. Method and apparatus for depolarizing particles of magnetic material. 2,807,363, 9-24-57, Cl. 209-8.
- Hendrickson, Severin B., to Heywood-Wakefield Co. Adjustable headrest. 2,784,771, 3-12-57, Cl. 155-177.
- Hendrickson, Severin B., to Heywood-Wakefield Co. Stowage compartment for vehicle chairs. 2,805,705, 9-10-57, Cl. 155-103.
- Hendrickson, Severin B., and D. E. Higley, to Heywood-Wakefield Co. Reclining chair for vehicle compartments. 2,815,794, 12-10-57, Cl. 155-6.
- Hendrix, Daisy: *See*—
- Hendrix, King R. 2,788,141.
- Hendrix, Don O. Optical beam splitter. 2,795,164, 6-11-57, Cl. 88-1.
- Hendrix, King R., deceased, by D. Hendrix, executrix. Tobacco cropping machine. 2,788,141, 4-9-57, Cl. 214-83.1.
- Hendrix, William L. Service-cable support and combination of same with mid-span conductor spacer. 2,783,296, 2-26-57, Cl. 174-43.
- Hendry, Kenneth H.: *See*—
- Swanson, Fred R., and Hendry. 2,784,647.
- Hendryx, Andrew B., to The Andrew B. Hendryx Co. Bird cage. 2,806,446, 9-17-57, Cl. 119-17.
- Hendryx, Andrew B. Co., The: *See*—
- Hendryx, Andrew B. 2,806,446.
- Heney, John F.: *See*—
- Goldstein, Ladislav, Lampert, Heney. 2,817,045.
- Hengehold, Ferd J. Combined refrigerator and cooking pan. 2,787,891, 4-9-57, Cl. 62-80.
- Hengstebeck, Robert J., to Standard Oil Co. Combination pretreating-hydroforming with platinum-type catalysts. 2,800,428, 7-23-57, Cl. 196-24.
- Hengstebeck, Robert J., and M. F. Oxenreiter, to Standard Oil Co. Hydrocarbon reforming with fluidized platinum and heating system therefor. 2,776,248, 1-1-57, Cl. 196-50.
- Henick, Kenneth. Template for locating collar insignia. 2,813,347, 11-19-57, Cl. 33-180.

- Henig, Seymour, to the United States of America as represented by the Secretary of the Navy. Short rail rocket launcher. 2,804,805, 9-3-57, Cl. 89-17.
- Henke, Alfred M., and H. C. Stauffer, to Gulf Research & Development Co. Separation of liquids by thermal diffusion. 2,791,332, 5-7-57, Cl. 210-72.
- Henkel & Cie. G. m. b. H.: *See—*
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Raecke, Bernhard, Stein, and Schirp. 2,794,830.
Stein, Werner. 2,798,093.
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- Henkel, Erich: *See—*
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Reppe, Walter, Friederich, Henkel, and Lautenschlager. 2,806,040.
- Henkel, Harvey L., to Herring-Hall-Marvin Safe Co. Security file. 2,803,203, 8-20-57, Cl. 109-59.
- Henkel, Konrad: *See—*
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- Henkelman, William S. Motor vehicle counters. 2,782,990, 2-26-57, Cl. 235-99.
- Henker, Heinz: *See—*
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- Henkes, Peter M., to George Gorton Machine Co. Motor mounting. 2,788,946, 4-16-57, Cl. 248-16.
- Henkin, Hyman, to Colgate-Palmolive Co. Method of permanently reshaping a keratin-containing substance. 2,817,342, 12-24-57, Cl. 132-7.
- Henkin, Hyman, and R. P. Messina, to Colgate-Palmolive Co. Stabilized antiperspirant cosmetic cream. 2,783,181, 2-26-57, Cl. 167-90.
- Henle, Robert A., to International Business Machines Corp. Control circuit employing transistors. 2,812,474, 11-5-57, Cl. 315-168.
- Henley, Horace, Jr. Sink rim. 2,817,097, 12-24-57, Cl. 4-187.
- Henley, Robert H.: *See—*
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Pennington, Neal A. 2,807,258.
- Henn, Richard W., to Eastman Kodak Co. Concentrated developers. 2,784,086, 3-5-57, Cl. 96-66.
- Henneberger, Leo. Pie top cutter. 2,791,029, 5-7-57, Cl. 30-305.
- Henneberger, Thomas C.: *See—*
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- Hennebette, Georges B. L. Life-saving apparatus. 2,782,429, 2-26-57, Cl. 9-19.
- Hennecke, Hermann: *See—*
Sifrin, Andreas, Eberhardt, and Hennecke. 2,778,327.
- Hennes, John H.: *See—*
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- Hennessy, Douglas J., and R. J. Mosby, to American Lecithin Co., Inc. Processes of enhancing phosphatides and other organic materials. 2,791,594, 5-7-57, Cl. 260-403.
- Hennessy, James J., to Hennessy Lubricator Co., Inc. Railway journal lubricator structure. 2,797,970, 7-2-57, Cl. 308-84.
- Hennessy, Leroy J.: *See—*
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- Hennessy Lubrication Co., Inc.: *See—*
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- Hennessy, Stephen T. Method and machine for accurately determining internal diameters. 2,809,539, 10-15-57, Cl. 77-3.
- Hennessy, William G.: *See—*
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- Henney, Charles F.: *See—*
Baker, Marshall W., Henney, and Johnston. 2,779,162.
- Henney, Charles F., to General Motors Corp. Dual engine exhaust aspirator. 2,784,549, 3-12-57, Cl. 60-32.
- Henney, Charles F., and I. L. Gould, to General Motors Corp. Vehicle refrigerating apparatus. 2,793,834, 5-28-57, Cl. 257-3.
- Henney, Mac L. Boat turning cradle. 2,804,217, 8-27-57, Cl. 214-1.
- Hennick, Frank. Musical instrument. 2,780,127, 2-5-57, Cl. 84-170.
- Hennies, Stuart R.: *See—*
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- Hennig, Gustav. Oscillation suppressing device. 2,806,365, 9-17-57, Cl. 64-27.
- Hennig, Harvey, W. J. Alford and L. R. E. Hutchings, to The Pure Oil Co. Manufacture of sulfonates. 2,802,026, 8-6-57, Cl. 260-504.
- Hennig, Harvey, and J. W. Tierney, to The Pure Oil Co. Process for the manufacture of methyl mercaptan from methanol and hydrogen sulfide. 2,807,649, 9-24-57, Cl. 260-609.
- Hennig, Irving. Ice particles storage and dispensing device. 2,791,887, 5-14-57, Cl. 62-7.
- Henning, George E., to Western Electric Co., Inc. Extruding apparatus. 2,791,803, 5-14-57, Cl. 18-13.
- Henning, George E., and A. S. Windeler, to Western Electric Co., Inc., and Bell Telephone Laboratories, Inc. Methods of and apparatus for making insulated multiconductor wire. 2,778,059, 1-22-57, Cl. 18-13.
- Henning, Harley A., and O. J. Murphy, to Bell Telephone Laboratories, Inc. Matching circuit. 2,811,707, 10-29-57, Cl. 340-149.
- Henning, James E., to Bjorksten Research Laboratories, Inc. Glass laminate, article and method. 2,778,758, 1-22-57, Cl. 154-275.
- Henning, James E., to Bjorksten Research Laboratories, Inc. Method of soldering with a polyester flux. 2,816,357, 12-17-57, Cl. 29-495.
- Henning, Johann C., to Siemens-Schuckertwerke Aktiengesellschaft. Voltage regulating apparatus for alternators in parallel operation. 2,794,947, 6-4-57, Cl. 322-25.
- Henning, Leland L.: *See—*
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- Henning, Philip A., to Gilfillan Bros. Inc. Broad band barretter mount. 2,777,995, 1-15-57, Cl. 333-22.
- Henning, Robert W., to Portable Industries, Inc. Shield and gauge structures for powder-actuated tools. 2,785,401, 3-19-57, Cl. 1-44.5.
- Henning, Robert W., and E. F. Pfaff, to Portable Industries, Inc. Shield and gauge structures for powder-actuated tools. 2,785,402, 3-19-57, Cl. 1-44.5.
- Henning, Robert W., and R. J. Kopf, to Ramset Fasteners, Inc. Receptor for positioning discs and the like at the muzzle of the barrel of explosively actuated tools. 2,790,173, 4-30-57, Cl. 1-44.5.
- Henning, Robert W., H. L. Ivins, R. J. Kopf, and E. F. Pfaff, to Olin Mathieson Chemical Corp. Muzzle shield for explosively-actuated tools. 2,806,218, 9-17-57, Cl. 1-44.5.
- Henning, Rudolf E.: *See—*
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- Henning, William W.: *See—*
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- Hennings, Walter. Collapsible tooth-brush. 2,790,449, 4-30-57, Cl. 132-84.
- Henny, Victor E.: *See—*
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- Henrich, Richard E.: *See—*
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- Henrich, Richard E., to Houdaille Industries, Inc. Tuned rubber crankshaft vibration damper. 2,779,211, 1-29-57, Cl. 74-574.
- Henrichs, Henk, to Mannesmann Aktiengesellschaft. Process for refining iron. 2,790,712, 4-30-57, Cl. 75-51.
- Henrici Laundry Machinery Corp.: *See—*
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- Henricl, Stanley B., and W. L. Zemberry, to United States Steel Corp. Production counter. 2,797,049, 6-25-57, Cl. 235-92.
- Henricks, Jack L.: *See—*
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- Henrickson, Erling G. Articulated nestable device. 2,799,969, 7-23-57, Cl. 46-17.
- Henriksen, Elmer C., to Bell & Howell Co. Device for self threading motion picture devices. 2,807,979, 10-1-57, Cl. 88-18.
- Henrikson, Eror W., and B. J. Oom, to American Seating Co. Kneeler accessory for a chair. 2,777,505, 1-15-57, Cl. 155-166.
- Henrikson, Oscar W., and F. E. Wood, to Automatic Electric Laboratories, Inc. Ship service telephone mounting. 2,782,261, 2-19-57, Cl. 179-100.
- Henriksson, Sten T., to Bolidens Gruvaktiebolag. Process and apparatus for impregnating wood. 2,786,784, 3-26-57, Cl. 117-116.
- Henry, Augustus P., to Control Specialists, Inc. Rotary actuating device. 2,781,027, 2-12-57, Cl. 121-97.
- Henry, Bert N.: *See—*
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- Henry, Edward D.: *See—*
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- Henry, Elliott A., to Sperry Products, Inc. Ultrasonic inspection device. 2,800,789, 7-30-57, Cl. 73-67.8.
- Henry, Elliott A., and A. N. Paul, to Sperry Products, Inc. Amplitude comparison circuit. 2,779,870, 1-29-57, Cl. 250-22.
- Henry, Francis B. Lock guard. 2,816,788, 12-17-57, Cl. 292-346.
- Henry, Glenn C. Shears. 2,795,044, 6-11-57, Cl. 30-248.
- Henry, Grady R. Illuminated rotating tree. 2,806,938, 9-17-57, Cl. 240-10.1.
- Henry, J. J., Inc.: *See—*
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- Henry, James J.: *See—*
Gray, Robert L., and Henry. 2,804,039.
- Henry, John E., to Hercules Powder Co. Water-soluble gums of improved water solubility and method of producing same. 2,807,591, 9-24-57, Cl. 252-363.5.
- Henry Mfg. Co.: *See—*
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- Henry, Marcel-Georges, to Etablissements Richier, Societe Anonyme. Vibratory-type road-rolling device. 2,812,696, 11-12-57, Cl. 94-48.
- Henry, Maurice M. Wheel rim cleaning device. 2,807,038, 9-24-57, Cl. 15-21.
- Henry, Robert L.: *See—*
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- Henry, Wesley D.: *See—*
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- Henry, William F., and J. J. Purcell, to International Business Machines Corp. Toll highway recorder. 2,810,619, 10-22-57, Cl. 346-40.
- Henry, William F., and J. J. Purcell, to International Business Machines Corp. Toll highway recorder system. 2,810,620, 10-22-57, Cl. 346-40.
- Henry, William V., to American Enka Corp. Staple fiber cutter. 2,792,888, 5-21-57, Cl. 164-61.
- Henschel, Joseph W. Cap having a self-adjusting sweat band. 2,775,769, 1-1-57, Cl. 2-197.
- Henseleit, Georg, to Koppers Co., Inc. Door operating mechanism for horizontal coking chamber ovens. 2,780,366, 2-5-57, Cl. 212-4.
- Henseleit, Georg, to Koppers Co., Inc. Door handling gear for use with horizontal coking chamber ovens. 2,807,372, 9-24-57, Cl. 212-4.
- Hensen, Ray M. Egg oiling machine. 2,801,606, 8-6-57, Cl. 118-2.
- Hensgen, Bernard T., to Swift & Co. Frankfurter skinning machine. 2,779,968, 2-5-57, Cl. 17-1.
- Hensgen, Bernard T., to Swift & Co. Packaging under air pressure. 2,780,043, 2-5-57, Cl. 53-112.
- Hensgen, Bernard T., to Swift & Co. Device for oiling slices of plastic stock. 2,803,214, 8-20-57, Cl. 118-15.
- Hensgen, Bernard T., and H. Hertwig, to Swift & Co. Packaging apparatus. 2,790,288, 4-30-57, Cl. 53-167.
- Hensgen, Bernard T., D. B. Van Dolah, W. J. Patterson, and S. W. Lis, to Swift & Co. Bag closing device. 2,795,790, 6-18-57, Cl. 1-217.
- Hensgen, Bernard T., and H. G. Reichel, to Swift & Co. Sausage manufacture (continuous). 2,799,585, 7-16-57, Cl. 99-109.
- Hensgen, Bernard T., and J. C. Vanden Bosch, to Swift & Co. Manufacture of cheese slices. 2,799,586, 7-16-57, Cl. 99-115.
- Hensgen, Bernard T., W. E. Palmer, and R. M. Faust, to Swift & Co. Weighing method and apparatus. 2,802,658, 8-13-57, Cl. 265-27.
- Hensgen, Bernard T., and H. G. Reichel, to Swift & Co. Continuously operating piston pump extruders. 2,805,444, 9-10-57, Cl. 17-39.
- Hensgen, Bernard T., H. G. Reichel, and J. J. Prohaska, to Swift & Co. Ham pumping control method. 2,809,115, 10-8-57, Cl. 99-159.
- Henshall, Alan H.: *See*—
Tyrer, Ray, and Henshall. 2,811,383.
- Henshall, Arthur T., and C. C. Tomlinson, to the United States of America as represented by the Secretary of the Navy. Gunner's control handle for a fire control system. 2,800,058, 7-23-57, Cl. 89-41.
- Henshaw, William M. Clamp for holding a reel upon a spinning fishing rod handle. 2,814,147, 11-26-57, Cl. 43-22.
- Hensleigh, Robert H., and J. P. Waggener, said Waggener assor, to said Hensleigh. Rotary, turbine type hydraulic torque converter. 2,805,549, 9-10-57, Cl. 60-54.
- Hensley, Thomas B.: *See*—
Minter, John O., and Hensley. 2,816,613.
- Henson, Douglas R., to Dunlop Rubber Co. Ltd. Belting. 2,799,177, 7-16-57, Cl. 74-231.
- Henström, Sten A., to Aktiebolaget Bofors. Moving mechanism for a power-laid weapon. 2,791,156, 5-7-57, Cl. 89-41.
- Henström, Sten A., and A. A. H. Johnson, to Aktiebolaget Bofors. Loading device for a gun with a barrel mounted for traversing and elevating or depressing. 2,785,607, 3-19-57, Cl. 89-45.
- Henszey, Richard R.: *See*—
Henszey, Roy O., and R. R. 2,815,071.
- Henszey, Roy O., and R. R. Horizontal spray drier. 2,815,071, 12-3-57, Cl. 159-4.
- Henter, Mathias, to Allis-Chalmers Mfg. Co. Dynamoelectric machine with bare collector leads. 2,798,977, 7-9-57, Cl. 310-232.
- Henthorn, Victor H., to The Burt Machine Co., Inc. Belt scraper for label pasting machine. 2,797,660, 7-2-57, Cl. 118-259.
- Henthorn, Victor H., to The Burt Machine Co., Inc. Continuous label feed mechanism. 2,804,303, 8-27-57, Cl. 271-62.
- Henz, Frank. Control device. 2,783,752, 3-5-57, Cl. 123-102.
- Henze, Henry L., N. E. Spliss, Jr., E. J. Cornish, and E. J. Kennelly, to National Dairy Products Corp. Apparatus for processing containers or the like. 2,792,028, 6-14-57, Cl. 141-97.
- Henze Instrument and Valve Inc.: *See*—
Domingo, Emil, and Peragallo. 2,798,215.
Domingo, Emil, and Peragallo. 2,804,773.
- Hepner, Neal. Time delay means for roller towel dispensing mechanism. 2,789,638, 4-23-57, Cl. 161-1.
- Hepola, George E.: *See*—
Lear, Earl B., and Hepola. 2,796,301.
- Hepp, Harold J.: *See*—
Frey, Frederick E., and Hepp. 2,803,684.
- Hepp, Harold J., to Phillips Petroleum Co. Integrated cracking-alkylation process. 2,816,150, 12-10-57, Cl. 260-683.4.
- Hepp, Harold J., and F. E. Frey, to Phillips Petroleum Co. Catalytic alkylation of hydrocarbons in the presence of acetylene and hydrogen. 2,781,409, 2-12-57, Cl. 260-683.4.
- Heppenstall, Charles W. Self-sealing container. 2,797,026, 6-25-57, Cl. 222-190.
- Heppenstall, Charles W., H. J. Ross and F. F. Rohrer, Jr., to Heppenstall Co. Lathe system or the like. 2,791,921, 5-14-57, Cl. 77-3.
- Heppenstall Co.: *See*—
Heppenstall, Charles W., Ross, and Rohrer. 2,791,921.
Heppenstall, Max R. 2,776,857.
- Heppenstall, Max R., to Heppenstall Co. Vacuum lifter. 2,776,857, 1-8-57, Cl. 294-64.
- Hepperle, Erwin, to Machine Tool Works Oerlikon, Administration Co. Mechanism on automatic firearms with revolver drums. 2,778,276, 1-22-57, Cl. 89-33.
- Heppner, Elmore A., to Heppner Mfg. Co. Focus device. 2,801,356, 7-30-57, Cl. 313-84.
- Heppner, Elmore A., to Heppner Mfg. Co. Electrical connector. 2,801,398, 7-30-57, Cl. 339-191.
- Heppner Mfg. Co.: *See*—
Heppner, Elmore A. 2,801,356.
Heppner, Elmore A. 2,801,398.
- Hepworth Machine Co., Inc.: *See*—
McPhee, Alexander H., and Reid. 2,803,315.
- Hepworth, Walter, to Imperial Chemical Industries Ltd. New pyrimidine derivatives. 2,812,328, 11-5-57, Cl. 260-251.
- Heraeus Quarzschmelze G. m. b. H.: *See*—
Mohn, Heinrich. 2,800,704.
- Heraeus, W. C. G. m. b. H.: *See*—
Bredereck, Hellmut, Bader, Nubling, and Wohnhas. 2,776,952.
Bredereck, Hellmut, Bader, Wohnhaas, and Nubling. 2,779,751.
- Gruber, Hellmut, and Pieper. 2,818,461.
- Hiesinger, Leopold, and Bock. 2,818,209.
- Jaumann, Johannes, and Ruthardt. 2,803,775.
- Klumb, Hans. 2,785,571.
- Lorenz, Albert. 2,786,156.
- Herb, Raymond G., to High Voltage Engineering Corp. Field emission ion source. 2,809,314, 10-8-57, Cl. 313-63.
- Herb, Raymond G., and J. A. Weinman, to High Voltage Engineering Corp. Negative ion source. 2,816,243, 12-10-57, Cl. 313-63.
- Herbe, James E.: *See*—
Warner, Fred, Calhoun, and Herbe. 2,800,929.
- Herbenar, Edward J.: *See*—
Graham, Matthew P., and Herbenar. 2,808,817.
- Herbenar, Edward J., to Thompson Products, Inc. Permanently lubricated resilient connector for steering linkages. 2,778,664, 1-22-57, Cl. 287-85.
- Herbenar, Edward J., to Thompson Products, Inc. Shock insulated steering linkage. 2,797,929, 7-2-57, Cl. 280-95.
- Herbenar, Edward J., to Thompson Products, Inc. Fan drive with a fluid and mechanical coupling. 2,802,459, 8-13-57, Cl. 123-41.2.
- Herbert, Alfred E., J. Woods, and R. Turner, to John Bright & Brothers Ltd. Machine for winding threads or the like. 2,811,317, 10-29-57, Cl. 242-18.
- Herbert, Alfred, Ltd.: *See*—
Marklew, Cecil K. 2,802,084.
- Herbert, Robert J., to General Electric Co. Method of making broad area semi-conductor devices. 2,783,197, 2-26-57, Cl. 204-143.
- Herbert, Thomas A., Jr., to Rohr Aircraft Corp. Method of resistance welding sandwich panels. 2,796,510, 6-18-57, Cl. 219-83.
- Herbert, William J., E. E. McCown, and S. S. Levine. High speed magnetic switch. 2,786,182, 3-19-57, Cl. 332-40.
- Herbert, William S., and D. C. Oakley, to Ray-O-Vac Co. Dry cell construction. 2,803,691, 8-20-57, Cl. 136-133.
- Herbold, Robert J. Photosensitive electron emission cell. 2,792,516, 5-14-57, Cl. 313-96.
- Herbolsheimer, Bruce E., and R. C., to I. L. Herbolsheimer. Hinge for drop leaf tables. 2,815,529, 12-10-57, Cl. 16-179.
- Herbolsheimer, Iona L.: *See*—
Herbolsheimer, Bruce E., and R. C. 2,815,529.
- Herbolsheimer, Roger C.: *See*—
Herbolsheimer, Bruce E., and R. C. 2,815,529.
- Herbrecht, René: *See*—
Polard, Jean, and Herbrecht. 2,815,564.
- Herbrecht, René, to Societe Anonyme dite: Compagnie Electro-Mecanique. Device for positioning stators and dummy rotors in machines for inserting coils in the slots of stators. 2,814,096, 11-26-57, Cl. 29-205.
- Herbrich, Wilhelm, to Spica S. p. A. Devices for regulating the delivery of piston pumps. 2,780,173, 2-5-57, Cl. 108-41.
- Herbruggen, Heinrich J. B., to Federal Foundry Supply Co. Control system for sand blowing apparatus. 2,779,071, 1-29-57, Cl. 22-36.
- Herbruggen, Heinrich J. B., to The Federal Foundry Supply Co. Method of blowing sand into sand molds. 2,779,074, 1-29-57, Cl. 22-193.
- Herbruggen, Heinrich J. B., to The Federal Foundry Supply Co. Sand blowing apparatus. 2,790,215, 4-30-57, Cl. 22-10.
- Herbruggen, Heinrich J. B., to The Federal Foundry Supply Co. Core and mold blowing method and apparatus. 2,798,266, 7-9-57, Cl. 22-10.

- Herbst, Carl W. Formed heel portion of shoe outsole. 2,814,133, 11-26-57, Cl. 36-71.
- Herbst, Clarence A., to Resinoid Engineering Corp. Spacer and method of making same. 2,793,152, 5-21-57, Cl. 154-110.
- Herbst, John A., to Bogue Electric Mfg. Co. Fail-safe servo system. 2,782,347, 2-19-57, Cl. 318-29.
- Herbst, Ronald S., to the United States of America as represented by the Secretary of the Army. Self-centering precision chuck. 2,817,533, 12-24-57, Cl. 279-33.
- Herche, John E.: See—
Mancuso, Joseph P. 2,804,262.
- Herchenbach, Wolfgang. Electrostatic high tension generator. 2,777,078, 1-8-57, Cl. 310-6.
- Hercik, Lad L. Control mechanism for grinding belt. 2,783,593, 3-5-57, Cl. 51-135.
- Hercules Galion Products, Inc.: See—
Herpich, William A., and Sand. 2,800,234.
- Hercules Motors Corp.: See—
Kuepfer, Matthew C., Horiak, and Holskey. 2,787,985.
- Hercules Powder Co.: See—
Aldrich, Paul H. 2,818,407.
Barthelson, Norman A. 2,779,797.
Bennett, James L., Brooks, McMillan, and Plunkett. 2,776,965.
Billing, Wylly M. 2,813,891.
Bohlman, Walter S., and Hayes. 2,775,987.
Bohlman, Walter S., and Hayes. 2,795,990.
Bohlman, Walter S., and Hayes. 2,807,975.
Bonner, Lyman G. 2,776,623.
Brown, Werner C. 2,776,904.
Brown, Werner C. 2,792,314.
Bruce, David S., and Spurlin. 2,776,880.
Bruxelles, Gregory N. 2,798,014.
Chappell, Fred L., Jr. 2,797,198.
Darling, Robert B. 2,806,025.
Eckels, Warren H. 2,809,229.
Elliott, Herschel A., and Franklin. 2,804,968.
Engelmann, Helmut M. 2,816,912.
Enos, Herman I., Jr. 2,817,687.
Enos, Herman I., Jr. 2,817,688.
Feild, George B., and Ropp. 2,802,891.
Filar, Leo J. 2,776,937.
Gault, Clarence W. 2,798,009.
Glasebrook, Arthur L., Hoffmann, and Montgomery. 2,776,276.
Gould, Charles W., Putnam, and Wright. 2,817,648.
Graham, Archibald R. 2,789,142.
Gregory, George P. 2,776,911.
Gregory, George P. 2,776,912.
Haubein, Albert H. 2,806,813.
Henry, John E. 2,807,591.
Horne, Charles F. 2,802,422.
Horne, Charles F., and Ramer. 2,802,421.
Jacobs, David I. H. 2,784,238.
Jacobs, David I. H. 2,785,205.
Jacobs, David I. H., and Thompson. 2,801,262.
Keim, Gerald I. 2,776,238.
Keim, Gerald I. 2,776,277.
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Keim, Gerald I. 2,786,824.
Keim, Gerald I. 2,786,825.
Keim, Gerald I. 2,786,826.
Kelly, Ralph E. 2,816,092.
Lamborn, Bayard T. 2,807,612.
Lamborn Bayard T. 2,810,717.
Lamborn, Bayard T. 2,816,887.
Lamborn, Bayard T. 2,816,888.
Larson, Victor J. 2,798,056.
Lawrence, Robert W. 2,777,389.
Lesser, David K. 2,798,015.
Lesser, David K. 2,798,016.
Lesser, David K. 2,798,017.
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Lewis, John R., and Blanchard. 2,806,009.
List, Hildegard. 2,795,611.
Lohr, Arthur D., and Taves. 2,799,715.
McMillan, James G., Jr., and Plunkett. 2,776,944.
McMillan, James G., Jr., and Plunkett. 2,776,964.
McMillan, James G., Jr., and Plunkett. 2,776,966.
Naudain, Edward A., and Boys. 2,794,006.
Osberg, Wilfred E., Jr. 2,785,067.
Pieper, Josef H. F., and Stauch. 2,805,253.
Ropp, Walter S. 2,776,319.
Roshier, Ronald. 2,776,955.
Sanderson, Thomas F. 2,776,986.
Sanderson, Thomas F. 2,785,184.
Saunders, Robert H. 2,776,325.
Schilling, William M. 2,794,027.
Speck, Rhoads M. 2,815,350.
Stuart, Joseph, II. 2,812,790.
Subluskey, Lee A. 2,806,893.
Subluskey, Lee A. 2,817,677.
Taves, Milton A. 2,776,953.
Taves, Milton A. 2,776,954.
Taves, Milton A. 2,799,695.
Taves, Milton A. 2,799,698.
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Webster, William, and Quin. 2,776,322.
- Hercules Powder Co.: See—Continued
Webster, William, and Thompson. 2,812,357.
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Weisgerber, Cyrus A. 2,817,645.
Willis, William D. 2,816,089.
Young, Donald P. 2,797,249.
- Herculox Loose Leaf Corp.: See—
Guinane, James P. 2,815,971.
- Herdklotz, Earl W., to A & E Tool and Gage Co. (Inc.). Die cast toy vehicles. 2,775,847, 1-1-57, Cl. 46-221.
- Heredia, Francisco M. F., to Patents Talgo, S. A. Articulated railway trains. 2,782,729, 2-26-57, Cl. 105-4.
- Herell, Georges J. B. V.: See—
Jakimiuk, Wsiewold J., and Herell. 2,779,557.
- Herell, Georges J. B. V., and W. J. Jakimiuk, to Societe Nationale de Constructions Aeronautiques du Sud-Est. Fuselage of aerodynes. 2,779,558, 1-29-57, Cl. 244-119.
- Herelle, Ludwig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Device for the continuous polymerization and extrusion of organic synthetic substances, especially polyamides. 2,810,630, 10-22-57, Cl. 23-285.
- Heresite & Chemical Co.: See—
Pleuss, Herbert E. 2,776,269.
- Hereth, Walter A.: See—
Pawley, Myron G., Parker, and Hereth. 2,786,105.
- Hergenrother, Rudolf C., to Raytheon Mfg. Co. Color kine-scope. 2,791,626, 5-7-57, Cl. 178-5.4.
- Herider, Elmer A.: See—
Rigby, Miles G., and Herider. 2,784,764.
- Herider, Elmer A., and K. Pitts, to Rockwell Spring and Axle Co. Automatic latching means for back rests. 2,777,504, 1-15-57, Cl. 155-162.
- Herider, Elmer A., and J. Cumming, to Rockwell Spring and Axle Co. Vertically adjustable seat support. 2,792,873, 5-21-57, Cl. 155-14.
- Herider, Elmer A., and J. C. Cumming, to Rockwell Spring and Axle Co. Spring seat assembly. 2,818,105, 12-31-57, Cl. 155-179.
- Hering, Karl W., to The Perkin-Elmer Corp. Compensated velocity servo-loop system. 2,783,421, 2-26-57, Cl. 318-19.
- Hering, Walter. Electrical snap switch. 2,813,175, 11-12-57, Cl. 200-138.
- Herion, Henry. Illumination failure warning device. 2,786,991, 3-26-57, Cl. 340-251.
- Herkenhoff, Earl C., to Stamicarbon N. V. (Stamicarbon, Ltd.). Method of separation employing truncated cyclone. 2,793,748, 5-28-57, Cl. 209-144.
- Herlach, Fritz, and F. Linder, to Machine Tool Works Oerlikon, Administration Co. Cartridge chamber seal for automatic firearms with revolver drum. 2,801,573, 8-6-57, Cl. 89-13.
- Herlach, Heinrich, to Machine Tool Works Oerlikon, Administration Co. Sight mounting for a gun with a cradle mount. 2,778,277, 1-22-57, Cl. 89-41.
- Herlach, Heinrich, to Machine Tool Works Oerlikon, Administration Co. Gun carriage with pedal-controlled training. 2,782,687, 2-26-57, Cl. 89-41.
- Herlach, Heinrich, to Machine Tool Works Oerlikon, Administration Co. Trigger device on gun mounts. 2,787,193, 4-2-57, Cl. 89-27.
- Herlach, Heinrich, to Machine Tool Works Oerlikon, Administration Co. Trigger device on multiple-gun mounts for automatic guns. 2,789,477, 4-23-57, Cl. 89-127.
- Herlach, Heinrich, to Machine Tool Works Oerlikon, Administration Co. Ammunition feed mechanism for automatic guns. 2,809,562, 10-15-57, Cl. 89-133.
- Herlach, Heinrich, and O. Schwager, to Machine Tool Works Oerlikon, Administration Co. Gun-carriage with muzzle brake. 2,778,278, 1-22-57, Cl. 89-42.
- Hermach, Francis L., to the United States of America as represented by the Secretary of Commerce. Alternating-current volt-ammeters. 2,805,394, 9-3-57, Cl. 324-106.
- Herman, Albert D., to Aeroquip Corp. Cam V-retainer for V-band coupling. 2,818,282, 12-31-57, Cl. 285-410.
- Herman, Albert D., and T. A. Woolsey, to Aeroquip Corp. Band clamp with multiple V-restrainer means. 2,801,116, 7-30-57, Cl. 285-365.
- Herman, Carl L., to Amsler Morton Corp. Partible soaking pit cover. 2,792,795, 5-21-57, Cl. 110-173.
- Herman, Elvin E. Frequency measurement circuit. 2,790,897, 4-30-57, Cl. 250-20.
- Herman, Elvin E., and G. F. Smith, to Hughes Aircraft Co. Direct-viewing half-tone storage device. 2,790,929, 4-30-57, Cl. 315-12.
- Herman, Erich: See—
Wisfeld, Werner, Dorn, and Hermann. 2,810,693.
- Herman, Ervino O. Huller having flexible hulling tube. 2,781,071, 2-12-57, Cl. 146-299.
- Herman, Harold W. Combination lid. 2,787,399, 4-2-57, Cl. 220-42.
- Herman; Hartley R., to Rohr Aircraft Corp. Method of forming a sandwich structure with a cellular core. 2,816,355, 12-17-57, Cl. 29-469.
- Herman, Kenneth R., to Vickers Inc. Power transmission. 2,799,995, 7-23-57, Cl. 60-97.
- Herman, Leo F. Foldable service tray for automobiles. 2,817,566, 12-24-57, Cl. 311-22.
- Herman, Moe and S. Connector for two piece handles. 2,798,749, 7-9-57, Cl. 287-108.

- Herman, Morris: *See*—
Herman, Nathan and M. 2,784,102.
Herman, Nathan and M. Methods of preserving meat. 2,784,102, 3-5-57, Cl. 99-157.
Herman, Nicholas: *See*—
Seybold, Frederick W., and Herman. 2,798,967.
Herman Pneumatic Machine Co.: *See*—
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Kaveny, Paul J. 2,796,645.
Herman, Richard H.: *See*—
Robinson, Donald L., and Herman. 2,817,026.
Herman, Sam: *See*—
Herman, Moe and S. 2,798,749.
Herman, Shepard. Stack pressure meter. 2,806,377, 9-17-57, Cl. 73-389.
Herman, Thomas S., to Frederick P. Warrick Co. Fastener for film reel magazine covers. 2,805,092, 9-3-57, Cl. 292-256.63.
Herman, William P., and T. K. Hobson. Female connector. 2,814,789, 11-26-57, Cl. 339-191.
Hermann, Benjamin R., to General Electric Co. Load break device. 2,812,475, 11-5-57, Cl. 317-11.
Hermann, Edward C., L. M. Larson, and W. A. Price, Jr., to E. I. du Pont de Nemours and Co. Antibiotic and production thereof. 2,805,185, 9-3-57, Cl. 167-65.
Hermann, Leon and O. Resilient side or branch fitting for irrigation mains. 2,807,478, 9-24-57, Cl. 285-5.
Hermann, Le Roy N., to Inland Steel Products Co. Arched panel sheet for self-supporting truss-free building. 2,812,730, 11-12-57, Cl. 108-1.
Hermann, O'Dale: *See*—
Hermann, Leon and O. 2,807,478.
Hermanson, George H.: *See*—
Sadler, Carl L., Jr., Eisengrein, and Hermanson. 2,803,112.
Hermanson, Raymond W., to The Plomb Tool Co. Open-end ratchet wrenches of the spanner type. 2,810,313, 10-22-57, Cl. 81-90.
Hermelin, Victor M. Sustained release pharmaceutical preparations. 2,809,916, 10-15-57, Cl. 167-82.
Hermelin, Victor M. Sustained release pharmaceutical tablet. 2,809,917, 10-15-57, Cl. 167-82.
Hermelin, Victor M. Sustained release pharmaceutical preparations. 2,809,918, 10-15-57, Cl. 167-82.
Hermenzie, Joseph W. Signal device for automobile ignition systems. 2,786,194, 3-19-57, Cl. 340-52.
Hermes, Bernard P. Vacuum bottle cap. 2,815,879, 12-10-57, Cl. 215-13.
Hermes, Willem: *See*—
Ensink, Johannes, and Hermes. 2,794,919.
Hermes, Willem, to North American Philips Co., Inc. Crystal-controlled oscillator. 2,794,921, 6-4-57, Cl. 250-36.
Hermeyer, Edward J., and W. E. Strippgen. Clipboard illuminator. 2,779,865, 1-29-57, Cl. 240-10.67.
Hermorion Ltd.: *See*—
Järund, Harry S. V. 2,784,540.
Hernandez, Julian W.: *See*—
Flores, Joaquin E. 2,796,778.
Herndon, Walter B., to General Motors Corp. Torque wrench driven by fluid coupling. 2,781,682, 2-19-57, Cl. 81-52.4.
Herndon, Walter B., to General Motors Corp. Transmission control system. 2,790,327, 4-30-57, Cl. 74-472.
Herndon, Walter B., and R. L. Thorman, to General Motors Corp. Variable capacity pump. 2,805,628, 9-10-57, Cl. 103-120.
Herndon, William B., Jr., to Whirlpool-Seeger Corp. Refrigeration system. 2,783,620, 3-5-57, Cl. 62-116.
Herndon, William B., Jr., to Whirlpool-Seeger Corp. Evaporators for household refrigerators. 2,795,116, 6-11-57, Cl. 62-103.
Herndon, William B., Jr., and R. E. Tobey, to Whirlpool-Seeger Corp. Household refrigerators. 2,795,117, 6-11-57, Cl. 62-103.
Hernqvist, Karl G. Impedance matching device. 2,806,976, 9-17-57, Cl. 315-5.15.
Hernqvist, Karl G., to Radio Corp. of America. Neutralization of ion plasma oscillations in electron discharge tubes. 2,809,322, 10-8-57, Cl. 315-5.38.
Hero Mfg. Co., Inc.: *See*—
Perham, John N. 2,817,221.
Heron, Andrew G. Flexible hoses. 2,801,323, 7-30-57, Cl. 219-39.
Heron, Andrew G. Flexible electrically heated hoses. 2,809,268, 10-8-57, Cl. 219-46.
Herpich, William A., and J. G. Sand, to Hercules Galion Products, Inc. Vehicle body with packing and ejector plate means. 2,800,234, 7-23-57, Cl. 214-82.
Herr, Charles H., Jr., to Allis-Chalmers Mfg. Co. Bulldozer tractor. 2,778,131, 1-22-57, Cl. 37-144.
Herr, Charles H., Jr., and G. O. Christensen, to Allis-Chalmers Mfg. Co. Hydraulic steering mechanism for joined vehicles. 2,781,860, 2-19-57, Cl. 180-79.2.
Herr Equipment Corp., The: *See*—
Herr, Richard F. 2,780,421.
Herr, Richard F. 2,780,503.
Herr, Richard F. 2,785,891.
Northrup, Russell E. 2,814,803.
Herr, Gerhard, to Gebrüder Happich-Gesellschaft mit beschränkter Haftung. Adjustable backrest mechanism. 2,784,770, 3-12-57, Cl. 155-160.
Herr, Milton E.: *See*—
Heyl, Frederick W., and Herr. 2,781,368.
Herr, Milton E., to The Upjohn Co. 9 α -halo-11-keto-17-alkyltestosterones. 2,793,218, 5-21-57, Cl. 260-397.45.
Herr, Milton E., to The Upjohn Co. 9 α -halo-11 β ,17 β -dihydroxy-17 α -methyl-androstane-3-ones. 2,806,863, 9-17-57, Cl. 260-397.45.
Herr, Milton E., to The Upjohn Co. 9 α -halo-17 α -methyl-androstane-3,11 β ,17 β -triol. 2,813,881, 11-19-57, Cl. 260-397.5.
Herr, Milton E., to The Upjohn Co. 9 α -halo-17 β -hydroxy-17 α -methyl-androstane-3-11-diones. 2,813,883, 11-19-57, Cl. 260-397.45.
Herr, Milton E., and F. W. Heyl, to The Upjohn Co. Steroid enamines. 2,781,342, 2-12-57, Cl. 260-239.5.
Herr, Richard F., to The Herr Equipment Corp. Level-winding apparatus. 2,780,421, 2-5-57, Cl. 242-153.
Herr, Richard F., to The Herr Equipment Corp. Slitter apparatus. 2,780,503, 2-5-57, Cl. 308-59.
Herr, Richard F., to The Herr Equipment Corp. Accumulator apparatus in strip feeding machines. 2,785,891, 3-19-57, Cl. 271-2.3.
Herre, Conrad: *See*—
Crabau, Alexander A., and Herre. 2,789,809.
Herrera, Juan H. Apparatus for supplying a fixed amount of hot water to an infuser. 2,786,408, 3-26-57, Cl. 99-283.
Herreshoff, Alexander G., A. R. White, and R. M. Wagner, to Chrysler Corp. Food feeding device. 2,813,491, 11-19-57, Cl. 103-149.
Herreshoff, Clarence D. Automatic control of ventilation means. 2,816,712, 12-17-57, Cl. 236-37.
Herrick, Carlyle S., to General Electric Co. Variable temperature refrigeration. 2,794,328, 6-4-57, Cl. 62-115.
Herrick, Carlyle S., to General Electric Co. Variable temperature refrigeration. 2,794,329, 6-4-57, Cl. 62-115.
Herrick, Clifford E., Jr.: *See*—
Benbrook, Charles H., and Herrick. 2,789,904.
Herrick, Gerard P., to G. S. Herrick and S. H. Cornell. Band brake for convertiplane. 2,807,427, 9-24-57, Cl. 244-7.
Herrick, Gerard S.: *See*—
Herrick, Gerard P. 2,807,427.
Herrick, Guy S., J. C. Conger, and M. W. Savio, to American Cyanamid Co. Preparation of methyl violet. 2,816,900, 12-17-57, Cl. 260-391.
Herrick, John H., to Bestpak Inc. Method of making corrugated lined box blanks. 2,800,840, 7-30-57, Cl. 93-36.6.
Herrick, William W., to Pitney-Bowes, Inc. Sheet feeding and folding device. 2,813,714, 11-19-57, Cl. 270-68.
Herring-Hall-Marvin Safe Co.: *See*—
Henkel, Harvey L. 2,803,203.
Herring, William C.: *See*—
Deans, William A. 2,807,341.
Herrington, Orange S., Jr., to Masonite Corp. Fiber stock refining apparatus. 2,811,904, 11-5-57, Cl. 92-27.
Herriott, James R. Bed deodorizers. 2,778,441, 1-22-57, Cl. 183-4.
Herriott, Paul. Smoking pipe composition and process of making same. 2,792,840, 5-21-57, Cl. 131-172.
Herrlinger, Paul W., to The Gummed Products Co. Gummed paper and method for making it. 2,815,297, 12-3-57, Cl. 117-11.
Herrmann, John F., to American Optical Co. Slide projectors. 2,808,759, 10-8-57, Cl. 88-28.
Herrmann, John F., H. T. Wilton, and D. A. Sanni, to American Optical Co. Projection apparatus. 2,803,993, 8-27-57, Cl. 88-28.
Herrmann, Julius, to Gewerkschaft Eisenhütte Westfalen. Mining machine with side cutting disk. 2,791,411, 5-7-57, Cl. 262-8.
Herrmann, Otto, and K. Paule, to Robert Bosch G. m. b. H. Electrical switch. 2,810,035, 10-15-57, Cl. 200-83.
Herrmann, Theodore J., to United States Steel Corp. Turnbuckle. 2,813,733, 11-19-57, Cl. 287-60.
Herrmann, Walter A. O., to Sherritt Gordon Mines Ltd. Method of extracting metal values from metal bearing material. Re. 24,298, 4-2-57, Cl. 75-101.
Herron, Rolfe M., and W. J. Krause, to Bendix Aviation Corp. Impact tester. 2,810,288, 10-22-57, Cl. 73-12.
Herron, Wingo. Lug strap support for looms. 2,792,024, 5-14-57, Cl. 139-154.
Herron, Wingo. One piece lug strap support. 2,792,025, 5-14-57, Cl. 139-154.
Herschaff, William. Structural supports. 2,790,524, 4-30-57, Cl. 189-39.
Hersch, Paul, to The International Nickel Co., Inc. Oxygen analysis of gases. 2,805,191, 9-3-57, Cl. 204-1.
Herschede Hall Clock Co., The: *See*—
Woodruff, William N. 2,802,621.
Herschel, Alf. Vanes for rotary pumps and the like. 2,818,024, 12-31-57, Cl. 103-136.
Herschel, Carl E., and C. D. Vandenburg, to American Viscose Corp. Article transfer system. 2,782,579, 2-26-57, Cl. 53-197.
Herschler, Robert J., to Crown Zellerbach Corp. Acidic ammonium-base sulfite waste liquor-phenol-aldehyde resins, their production and application. 2,786,008, 3-19-57, Cl. 154-132.
Herschmann, Otto. Root's blowers, in particular for suction purposes. 2,779,532, 1-29-57, Cl. 230-141.
Herschmann, Otto. Internal combustion engine. 2,781,034, 2-12-57, Cl. 123-195.
Herscovitch, William. Two wheel mobile power saws with elevating wheel attachment. 2,815,049, 12-3-57, Cl. 143-43.

- Hersey, Henry J., Jr. Filter. 2,796,950, 6-25-57, Cl. 183-47.
- Hersey, Henry J., Jr., and D. B. Perlis; said Perlis assor. to said Hersey. Scanning jet for filters. 2,796,146, 6-18-57, Cl. 183-61.
- Hersey, Millar P., Jr., to Minneapolis-Honeywell Regulator Co. Method and apparatus for measuring speed. 2,779,931, 1-29-57, Cl. 340-3.
- Hersh, Herman I.: See—
Edwards, LeRoy B., and Hersh. 2,789,379.
Gant, Virgil A., and Hersh. 2,787,274.
- Hersh, Herman I., and F. P. Bessing; said Bessing assor. to said Hersh. Hair treating composition and methods for use of same. 2,782,790, 2-26-57, Cl. 132-7.
- Hersh, Sidney, to the United States of America as represented by the Secretary of the Navy. Guide loaded switch. 2,809,558, 10-15-57, Cl. 89-1.7.
- Hershcraft, Leon: See—
Ross, Frank A. 2,778,633.
- Hershberg, Emanuel B.: See—
Gould, David H., Herzog, and Hershberg. 2,816,121.
Herzog, Hershel, Hershberg, and Coan. 2,810,734.
Oliveto, Eugene P., and Hershberg. 2,781,369.
- Hershberger, William D., to Radio Corp. of America. Systems and methods of gas analysis. 2,792,548, 5-14-57, Cl. 324-58.5.
- Hershberger, William D., to Radio Corp. of America. Automatic adjustment of frequency stabilization systems. 2,802,943, 8-13-57, Cl. 250-36.
- Hershel California Fruit Products Co., Inc.: See—
Warren, Ray C. 2,776,690.
- Hershey, Stephen. Caddy bag cart kit. 2,782,971, 2-26-57, Cl. 224-29.
- Herstedt, Martin E. Matchbook holder. 2,786,571, 3-26-57, Cl. 206-33.
- Hertel, Carl. Blade sharpening device. 2,798,344, 7-9-57, Cl. 51-211.
- Hertel, Charles W. Lamp socket adaptor. 2,788,504, 4-9-57, Cl. 339-180.
- Hertel & Reuss: See—
Reuss, Eduard. 2,778,116.
- Hertl, Robert, to Westinghouse Electric Corp. High pressure steam turbine casing structure. 2,796,231, 6-18-57, Cl. 253-39.
- Hertner Electric Co., The: See—
Anderson, Robert L. 2,778,960.
- Hertrich, Elise: See—
Hertrich, Joseph. 2,776,753.
Hertrich, Joseph. 2,801,035.
- Hertrich, Joseph, to The Western States Machine Co. Centrifugal basket strip linings. 2,776,501, 1-22-57, Cl. 210-76.
- Hertrich, Joseph, deceased, by E. Hertrich, executrix, to The Western States Machine Co. Stabilized discharger shoe for centrifugal machines. 2,776,753, 1-8-57, Cl. 210-70.
- Hertrich, Joseph, deceased, by E. Hertrich, executrix, to The Western States Machine Co. Power-operated loading gate for centrifugal machines. 2,801,035, 7-30-57, Cl. 222-504.
- Hertwig, Harry, to Hartford National Bank and Trust Co., as trustee. Gas discharge tube system for motor control. 2,780,763, 2-5-57, Cl. 318-345.
- Hertwig, Henry: See—
Hensgen, Bernard T., and Hertwig. 2,790,288.
Laden, Max H., and Hertwig. 2,809,021.
- Hertz, Abraham. Self-sealing collapsible tubes. 2,788,160, 4-9-57, Cl. 222-492.
- Hertz, Julius: See—
Hill, Robert A., Hertz, and Niebling. 2,811,248.
- Hertz, Lester M.: See—
Burgener, Donald R., and Hertz. 2,795,722.
- Hertzfeldt, Albert C. Key and can support for removing sealing bands from vacuum cans. 2,780,387, 2-5-57, Cl. 220-52.
- Hertzler, Frederick W.: See—
Williams, Donald E., Hertzler, and Lathrop. 2,793,378.
- Hervert, George L., and H. S. Bloch, to Universal Oil Products Co. Production of silica-magnesia composites. 2,793,194, 5-21-57, Cl. 252-457.
- Hervert, George L., and H. S. Bloch, to Universal Oil Products Co. Production of silica-alumina composites. 2,804,433, 8-27-57, Cl. 252-453.
- Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Extraction process utilizing aqueous arylated carbohydrates as solvents. 2,810,003, 10-15-57, Cl. 260-674.
- Hervey, Laurence R. B., to The Polymer Corp. Composition of nylon powder and silica aerogel. 2,811,499, 10-29-57, Cl. 260-37.
- Hervey, Laurence R. B., to Rubberset Co. Keratin treating process and products thereof. 2,814,851, 12-3-57, Cl. 28-82.
- Hervey, Paul R. Tractor mounted rotary disc mowing assembly. 2,782,585, 2-26-57, Cl. 56-25.4.
- Herz, Josef E.: See—
Fried, Josef, and Herz. 2,814,629.
- Herz, Julius J. and R. H., ½ to Eastern Wood Products Co. and ½ to Acme Pallet Co. Pallets. 2,783,960, 3-5-57, Cl. 248-120.
- Herz, Robert H.: See—
Herz, Julius J. and R. H. 2,783,960.
- Herze, Frank, Jr.: See—
Howe, James T., and Herze. 2,792,634.
- Herzegh, Frank, to The B. F. Goodrich Co. Sealing means for divided rims. 2,790,476, 4-30-57, Cl. 152-410.
- Herzegh, Frank, to The B. F. Goodrich Co. Rubber tire valve assembly with stiffening washer. 2,798,528, 7-9-57, Cl. 152-427.
- Herzegh, Frank, to The B. F. Goodrich Co. Divided rim and valve stem assembly for tubeless tires. 2,798,529, 7-9-57, Cl. 152-427.
- Herzegh, Frank, to The B. F. Goodrich Co. Device for measuring variations in tire thickness. 2,812,583, 11-12-57, Cl. 33-147.
- Herzer, Joseph. Game device. 2,805,068, 9-3-57, Cl. 273-129.
- Herzfelder, Harold L. Collapsible lamp shades. 2,796,517, 6-18-57, Cl. 240-108.
- Herzig, Albert M. Squeeze container with tear opening and automatic closure. 2,815,150, 12-3-57, Cl. 222-211.
- Herzig, Harold L.: See—
Norman, Edward A., Jr., Reichelderfer, and Herzig. 2,809,627.
- Herzig, Pablo T. Filtering device for the innocuous preparation of injectable solutions. 2,817,337, 12-24-57, Cl. 128-272.
- Herzog, Carl. Rotary element and shaft assembly. 2,804,322, 8-27-57, Cl. 287-52.
- Herzog, Gerald B., to Radio Corp. of America. Diode detector-resistor amplifier circuit for signal receivers. 2,802,938, 8-13-57, Cl. 250-20.
- Herzog, Gerhard: See—
Stelzer, Roland E., and Herzog. 2,793,805.
- Herzog, Gerhard, to The Texas Co. Radioactivity earth exploration. 2,782,318, 2-19-57, Cl. 250-71.
- Herzog, Gerhard, and R. B. Stelzer, to The Texas Co. Method for forming and surveying a cavern in a salt formation. 2,786,661, 3-26-57, Cl. 262-3.
- Herzog, Harriett M.: See—
Malm, Carl J., Tanghe, and Herzog. 2,816,106.
- Herzog, Hershel, E. B. Hershberg, and S. B. Coan., to Schering Corp. 11-keto steroid intermediates and process for manufacturing same. 2,810,734, 10-22-57, Cl. 260-397.45.
- Herzog, Hershel L.: See—
Gould, David H., and Herzog. 2,783,226.
Gould, David H., Herzog, and Hershberg. 2,816,121.
- Herzog, Michael D. Safety goggle switch actuator. 2,800,543, 7-23-57, Cl. 200-61.58.
- Herzog, Otto E., to American Enka Corp. Stocking and method of making the same. 2,798,281, 7-9-57, Cl. 28-74.
- Heslov, Simon. Price tag molding. 2,815,594, 12-10-57, Cl. 40-10.
- Heseltine, Donald W.: See—
Brooker, Leslie G. S., and Heseltine. 2,776,280.
- Hesemans, Herman P. J., to North American Philips Co., Inc. Method of producing a conductive layer of graphite on an insulating substratum. 2,818,355, 12-31-57, Cl. 117-226.
- Hesh, Frank H. Delayed action mercury switch. 2,800,537, 7-23-57, Cl. 200-33.
- Hesh, Frank H. Multiple pole electrical typewriter key. 2,803,714, 8-20-57, Cl. 200-6.
- Hesky, Hans, to Friedrich Uhde G. m. b. H. Apparatus for distributing and spraying liquids over circular areas. 2,783,093, 2-26-57, Cl. 299-120.
- Hesmer, Albert J., to Dunham-Bush, Inc. Butterfly valve with flow proportional to valve rotation. 2,817,489, 12-24-57, Cl. 251-208.
- Hespenheide, Wilbur G., to Michigan Bumper Corp. Method of making magnetic core layers. 2,803,570, 8-20-57, Cl. 148-6.35.
- Hess, Alexander M. Drapery pleating device. 2,779,404, 1-29-57, Cl. 160-348.
- Hess, Alexander M. Pleating strip. 2,779,405, 1-29-57, Cl. 160-348.
- Hess, Bryce M. Rotary drier. 2,780,010, 2-5-57, Cl. 34-109.
- Hess, Calvin B.: See—
Grierson, Raymond H., and Hess. 2,784,525.
- Hess, Dr., & Clark Inc.: See—
Guthrie, James E. 2,797,182.
- Hess, Dwight C.: See—
Finch, Roy L., and Hess. 2,784,986.
- Hess, Edward R., to the United States of America as represented by the Secretary of the Navy. Torpedo propeller guard-lock. 2,775,949, 1-1-57, Cl. 114-20.
- Hess, Frank. Musical instrument system. 2,784,633, 3-12-57, Cl. 84-171.
- Hess, Frederic O., to Selas Corp. of America. Radiant panel space heater. 2,806,465, 9-17-57, Cl. 126-92.
- Hess, Gerard C., N. H. Taylor, and R. M. Wilmotte, to Padeco, Inc. Aircraft identification and location system. 2,796,602, 6-18-57, Cl. 343-6.5.
- Hess, Goldsmith & Co., Inc.: See—
Teja, Jayanti D., and Peters. 2,788,286.
- Hess, Hanns. Girders. 2,780,842, 2-12-57, Cl. 20-0.5.
- Hess, Heinrich O., to Joh. Jacob Rieter & Co., Ltd. Means for producing a drawable staple. 2,795,010, 6-11-57, Cl. 19-0.56.
- Hess, Howard V.: See—
Christensen, Edward R., and Hess. 2,818,449.
Pevere, Ernest F., and Hess. 2,783,956.
Pevere, Ernest F., Hess, and Arnold. 2,799,640.

- Hess, Howard V., to The Texas Co. Fractional crystallization under pressure. 2,816,938, 12-17-57, Cl. 260-666.
- Hess, Howard V., and C. A. Coghan, to The Texas Co. High pressure crystallization apparatus containing a fluid pressure transfer device. 2,816,822, 12-17-57, Cl. 23-273.
- Hess, Jack, to Houston Well Screen Co. Lugging disc for strainer wire. 2,811,882, 11-5-57, Cl. 80-30.
- Hess, John A. Portable boring machine. 2,777,339, 1-15-57, Cl. 77-2.
- Hess, Karl W., F. H. De Jong, and L. W. Roosendaal, to North American Phillips Co., Inc. Device for controlling the welding times and intervals in resistance welding apparatus. 2,798,187, 7-2-57, Cl. 315-166.
- Hess, Lawrence G., and H. W. Schulz, to Union Carbide and Carbon Corp. Hydrogenation of esters. 2,782,243, 2-19-57, Cl. 260-638.
- Hess, Lester J., and H. M. Newcomb, to Wade Electric Products Co. Electrical connector. 2,794,963, 6-4-57, Cl. 339-258.
- Hess, Newman W., and W. F. Dacey, to United States Rubber Co. Method of making dipped goods. 2,814,834, 12-3-57, Cl. 18-58.6.
- Hess, Otto. Sewing machine. 2,782,742, 2-26-57, Cl. 112-209.
- Hess, Paul S., to Congoleum-Nairn Inc. Felt product and process therefor. 2,791,502, 5-7-57, Cl. 92-3.
- Hess, Paul S., to Congoleum-Nairn Inc. Felt product and process. 2,801,937, 8-6-57, Cl. 117-140.
- Hess, Ray E., to L-O-F Glass Fibers Co. Yarn package. 2,800,290, 7-23-57, Cl. 242-161.
- Hess, Theophil A., to Duro Metal Products Co. Safety lock for cutter head of jointer. 2,779,362, 1-29-57, Cl. 144-114.
- Hess, Theophil A., and F. B. McKain, to Duro Metal Products Co. Separable hinged mounting for motors or the like. 2,778,053, 1-22-57, Cl. 16-171.
- Hess, Theophil A., and W. F. Hosford, to Duro Metal Products Co. Retaining means for power tool gauge. 2,787,805, 4-2-57, Cl. 144-253.
- Hess, Thomas D.: See—
- Fancher, Kenneth L., and Hess. 2,815,741.
- Hess, Turner E. Ventilator. 2,790,373, 4-30-57, Cl. 98-99.8.
- Hess, Werner G., to Dana Corp. Welding machine. 2,777,938, 1-15-57, Cl. 219-130.
- Hess, Werner G., to Dana Corp. Overlapped joint welding device. 2,802,931, 8-13-57, Cl. 219-73.
- Hess, William, to General Motors Corp. Cowl ventilator. 2,812,702, 11-12-57, Cl. 98-2.
- Hess, William, R. Potocnik, and F. C. Walther, to General Motors Corp. Vertically swingable station-wagon tail gate with retractible window. 2,793,907, 5-28-57, Cl. 296-106.
- Hesse, Gilbert S. Portable dome light. 2,788,439, 4-9-57, Cl. 240-59.
- Hesse, Stanley H.: See—
- Chiddix, Max E., Hesse, and Williams. 2,809,999.
- Hessel, Frederick A.: See—
- Werner, Jesse, Steckler, and Hessel. 2,809,953.
- Werner, Jesse, Steckler, and Hessel. 2,813,844.
- Hessel, Joseph. Tie rack gripper. 2,793,763, 5-28-57, Cl. 211-124.
- Hessenberg, Wilfrid C. F., and J. Savage, to The British Iron and Steel Research Association. Method of and apparatus for the casting of metal. 2,815,551, 12-10-57, Cl. 22-57.2.
- Hession, Joseph P., to General Motors Corp. Flow responsive dump valve for gas turbine fuel systems and the like. 2,814,180, 11-26-57, Cl. 60-39.09.
- Hession, Rodney J. Apparatus for cleaning potatoes. 2,778,042, 1-22-57, Cl. 15-3.14.
- Hessler, Henry P.: See—
- Schulze, Richard B., Hessler, Davison, and Winter. 2,796,253.
- Hessler, Willi. Method of extracting carnauba-like waxes from crude montan waxes. 2,783,259, 2-26-57, Cl. 260-423.
- Hesson, James C., to Cardox Corp. System for dispensing liquid carbon dioxide. 2,798,365, 7-9-57, Cl. 62-1.
- Hesson, James C., and J. L. Smith, to Cardox Corp. Material breaking cartridge. 2,794,395, 6-4-57, Cl. 102-25.
- Hester, Frank A., to Hogan Laboratories, Inc. Frequency modulated communications system with multiplexed audio channels. 2,810,782, 10-22-57, Cl. 178-5.6.
- Hester, James H. Safety linkage for dual accelerator pedals. 2,803,969, 8-27-57, Cl. 74-478.
- Hester, Robert G., to Hughes Aircraft Co. Multivibrator linear time base generator. 2,812,438, 11-5-57, Cl. 250-36.
- Hester, Stephen S. Rotating wheel game device. 2,800,331, 7-23-57, Cl. 273-141.
- Heston, John L., to Collins Radio Co. Positive-negative counting device. 2,813,679, 11-19-57, Cl. 235-117.
- Heteji, Paul S., to Worthington Corp. Hammer means for a rotatable mixing drum. 2,784,952, 3-12-57, Cl. 259-175.
- Heth, Sherman C., to J. I. Case Co. Snapping roll opening device for corn pickers. 2,777,273, 1-15-57, Cl. 56-104.
- Heth, Sherman C., to J. I. Case Co. Adjustable concave having shear pin. 2,794,438, 6-4-57, Cl. 130-27.
- Heth, Sherman C., to J. I. Case Co. Combine header tilt device. 2,800,760, 7-30-57, Cl. 56-209.
- Heth, Sherman C., to J. I. Case Co. Divider with rotary vertical cutter. 2,811,006, 10-29-57, Cl. 56-315.
- Heth, Sherman C., to J. I. Case Co. Cut drop pickup and crushing machine. 2,811,819, 11-5-57, Cl. 56-1.
- Hetherington, Alexander C., and W. O. Teeters, to The M. W. Kellogg Co. Dispersions of perfluorocarbon polymers. 2,782,174, 2-19-57, Cl. 260-29.6.
- Hetherington, Inc.: See—
- Cox, Charles L., Jr. 2,777,911.
- Hetman, Frank W., and A. V. Knollenberg, to Self Storing Window Co., Inc. Sash saw for mitering simultaneously a plurality of pieces. 2,814,319, 11-26-57, Cl. 143-47.
- Hetrick, Homer J. Device for use in cleaning fish. 2,801,877, 8-6-57, Cl. 294-106.
- Hettick, George R., and C. H. Owen, to Phillips Petroleum Co. Method and device for injecting a fluid into a fluidized bed of a particulate material. 2,798,030, 7-2-57, Cl. 196-52.
- Hettinger, Daniel M., to The Weatherproof Products Corp. Combination weather-strip and sash guide for double hung windows. 2,775,795, 1-1-57, Cl. 20-52.
- Hettinger, Daniel M., to The Weatherproof Products Corp. Spring balances for double hung window sashes. 2,786,230, 3-26-57, Cl. 16-197.
- Hettinger, William P., Jr., and H. Erickson, to Sinclair Refining Co. Production of alcohols and ethers. 2,798,097, 7-2-57, Cl. 260-614.
- Hettrick Mfg. Co., The: See—
- Jones, James E., and Stevens. 2,815,998.
- Meekin, James J., and Zent. 2,815,512.
- Smith, William I. 2,789,634.
- Wallace, Earl C., and Rider. 2,810,390.
- Zent, Lawson J. 2,777,657.
- Hettwer, Hubert J.: See—
- Hettwer, Leonard J. and H. J. 2,777,340.
- Hettwer, Leonard J. and H. J. Offset drilling attachment. 2,777,340, 1-15-57, Cl. 77-55.
- Hetzel, Max, to Bulova Watch Co., Inc., New York. Bienne Branch. Device for measuring the amplitude of the vibrations of a watch escapement. 2,782,627, 2-26-57, Cl. 73-6.
- Hetzel, Stanford J., to Sun Oil Co. Manufacture of cement. 2,793,958, 5-28-57, Cl. 106-100.
- Hetzel, Stanford J., to Sun Oil Co. Hardening oxidized wax. 2,802,751, 8-13-57, Cl. 106-270.
- Hetzel, Stanford J., to Sun Oil Co. Polymer of a vinyl aromatic compound with a petroleum hydrocarbon polymer. 2,805,211, 9-3-57, Cl. 260-41.
- Hetzel, Stanford J., to Sun Oil Co. Method of forming shell molds and composition therefor. 2,812,561, 11-12-57, Cl. 22-193.
- Heur, Russell P., to General Refractories Co. Refractory roof. 2,799,233, 7-16-57, Cl. 110-99.
- Heur, Russell P., to General Refractories Co. Refractory wall and roof making. 2,781,006, 2-12-57, Cl. 110-99.
- Heur, Russell P. Process of producing steel. 2,811,436, 10-29-57, Cl. 75-52.
- Heur, Russell P., and M. A. Fay, to General Refractories Co. Refractory brick having spacer plates. 2,791,116, 5-7-57, Cl. 72-35.
- Heugel, Robert E. Revolving advertising light. 2,812,424, 11-5-57, Cl. 240-10.1.
- Heupgen, Marcel, to Forges et Ateliers de Constructions Electriques de Jeumont. Method of making electrical cables. 2,810,669, 10-22-57, Cl. 154-2.28.
- Heuschkel, Julius: See—
- Ludwig, Howard C., and Heuschkel. 2,818,352.
- Heuser, Helmut C., to General Motors Corp. Electrical cutting and grinding. 2,793,992, 5-28-57, Cl. 204-143.
- Heuser, Paul F.: See—
- Chandler, Wesley M., Heuser, and Smith. 2,805,462.
- Heuser, Richard, to McKaig-Hatch, Inc. Adjustment locking means for adjustable jaw wrenches. 2,817,259, 12-24-57, Cl. 81-165.
- Heusser, Franklin E., to Casco Products Corp. Toggle switch. 2,782,279, 2-19-57, Cl. 200-68.
- Heusser, Hans, O. Jeger, and L. Ruzicka, to Ciba Pharmaceutical Products, Inc. 14-methyl pregnenes and method. 2,782,212, 2-19-57, Cl. 260-397.45.
- Hevi Duty Electric Co.: See—
- Kusko, Alexander. 2,787,732.
- Kusko, Alexander. 2,787,733.
- Hewes, Ralph W., to General Railway Signal Co. Casing closure and latching means. 2,779,588, 1-29-57, Cl. 268-72.
- Hewes, Ralph W., to General Railway Signal Co. Railway switch point connection. 2,806,668, 9-17-57, Cl. 246-452.
- Hewes, Ralph W., and I. A. De Kramer, to General Railway Signal Co. Control switch for railway traffic controlling systems. 2,786,904, 3-26-57, Cl. 200-4.
- Hewes, Ralph W., and S. M. Phelps, to General Railway Signal Co. Speed indicating and recording device. 2,793,095, 5-21-57, Cl. 346-73.
- Hewett, James V., to E. I. du Pont de Nemours and Co. Process for inhibiting gelation of a solution containing polymerized acrylonitrile. 2,781,329, 2-12-57, Cl. 260-32.6.
- Hewett, Philip C., to The Cincinnati Milling Machine Co. Variable conical cutter. 2,791,946, 5-14-57, Cl. 90-11.
- Hewitt, Alvin E., to American Autolastic Corp. Reinforced flexible duct. 2,810,400, 10-22-57, Cl. 138-56.
- Hewitt, Charles A.: See—
- Allison, John R., and Hewitt. 2,813,014.
- Hewitt, David K., to J. Hewitt & Son (Fenton) Ltd. Press tools for the manufacture of toothed supporting arms in the firing of pottery. 2,792,613, 5-21-57, Cl. 25-27.

- Hewitt, George. Flush tank valve control means. 2,817,849, 12-31-57, Cl. 4-67.
- Hewitt, J., & Son (Fenton) Ltd.: See—
Hewitt, David K. 2,792,613.
- Hewitt, Maurice C. P., and D. P. Lambert, to Powers-Samas Accounting Machines Ltd. Electric accumulators for use with record controlled statistical machines. 2,786,631, 3-26-57, Cl. 235-133.
- Hewitt-Robins Inc.: See—
Heft, Joseph S. 2,792,099.
- Hickey, Merrill H., and Bolme. 2,780,368.
- Huntzinger, Charles L. 2,797,823.
- Hewitt, William H., Jr., to Bell Telephone Laboratories, Inc. Magnetically controllable transmission system. 2,814,783, 11-26-57, Cl. 333-7.
- Hewitt, William H. L., and A. I. F. Simpson, to The General Electric Co. Ltd. Electrical apparatus. 2,791,621, 5-7-57, Cl. 174-16.
- Hewitt, Woodrow W., to Spinsavac Corp. Access door for vacuum type filter boxes. 2,799,356, 7-16-57, Cl. 183-37.
- Hewlett, Clarence W., to General Electric Co. Method of making P-N junction semiconductor units. 2,780,569, 2-5-57, Cl. 148-1.5.
- Hewlett-Packard Co.: See—
Hilton, Edgar A. 2,796,830.
- Schrock, Norman B. 2,810,829.
- Hewson, Andrew J. Pistons. 2,782,083, 2-19-57, Cl. 309-14.
- Hewson, Carl E. Laundry container. 2,792,857, 5-21-57, Cl. 141-364.
- Hewson, Colin T., to Rolls-Royce Ltd. Guide vane assemblies in annular fluid ducts. 2,795,373, 6-11-57, Cl. 230-132.
- Hewson, Elmer E.: See—
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- Hewson, Emory W. and E. E. Baled hay loader attachment for vehicle. 2,804,219, 8-27-57, Cl. 214-80.
- Hexcel Products Inc.: See—
Holland, Kenneth M. 2,803,578.
- Steele, Roger C., and Rule. 2,790,207.
- Hexter, Leo. Portable cleansing applicator. 2,815,522, 12-10-57, Cl. 15-131.1.
- Heyden Chemical Corp.: See—
Tidwell, Paul W. 2,792,344.
- Heyden Newport Chemical Corp.: See—
Cake, William R. 2,806,069.
- De Lorenzo, Sylvio A. 2,806,892.
- Fischer, Alfred. 2,807,553.
- Fischer, Alfred, and Nowak. 2,801,988.
- Gottesman, Roy T. 2,806,890.
- Gottesman, Roy T., and Cake. 2,806,891.
- Gottesman, Roy T., and Sloan. 2,806,889.
- Leonard, Reid H. 2,809,203.
- Palmer, Robert C., Hannah, and Wicke. 2,794,017.
- Palmer, Robert C., and Wicke. 2,799,717.
- Snow, John E. 2,818,422.
- Walling, Cheves and Buckler. 2,810,766.
- Heyek, Gerhard. Dry-shaving apparatus with a flexible shear plate. 2,802,261, 8-13-57, Cl. 30-43.
- Heyer, Benjamin F., and J. W. Horton. 6-12 volt battery tester. 2,782,357, 2-19-57, Cl. 320-14.
- Heyer, Don, to International Pneumatic Corp. Motion picture reproducing apparatus. 2,781,689, 2-19-57, Cl. 88-18.7.
- Heyer, Don, to International Research Corp. Pull for drawers, door and the like. 2,796,627, 6-25-57, Cl. 16-121.
- Heyer, William T., and F. Kepka. Replacement valve stem assembly for globe and faucet valves. 2,816,569, 12-17-57, Cl. 137-454.6.
- Heyer, Willy. Method of preparing a hops powder. 2,816,032, 12-10-57, Cl. 99-50.5.
- Heygel, Paul R., and E. G. Kaltenbach, to Olin Mathieson Chemical Corp. Slitting machine. 2,790,497, 4-30-57, Cl. 164-65.
- Heyl, Frederick W.: See—
Herr, William E., and Heyl. 2,781,342.
- Heyl, Frederick W., and M. E. Herr, to The Upjohn Co. 11-ketotestosterone, 11-keto-19-nortestosterone, esters thereof and process. 2,781,368, 2-12-57, Cl. 260-397.45.
- Heyl & Patterson, Inc.: See—
Rose, Bennie A. 2,796,180.
- Heyl, Russell G., Jr.: See—
Norwood, Stewart E., and Heyl. 2,809,691.
- Heyman, Albert A., to The Maryland Baking Co. Edible containers for multiple scoops of ice cream. 2,784,097, 3-5-57, Cl. 99-89.
- Heyman, Moses D. Integrated mica oil-impregnated sheet. 2,781,819, 2-19-57, Cl. 154-2.6.
- Heyman, Moses D. Mica base insulating sheet and method for producing the same. 2,810,425, 10-22-57, Cl. 154-2.6.
- Heyman, Sam, to Universal Converting Corp. Collapsible chair. 2,812,801, 11-12-57, Cl. 155-139.
- Heymann, Erich, and G. Schmerling, to Silvercrown Ltd. Electrodeposition of alloys containing copper and tin. 2,793,990, 5-28-57, Cl. 204-44.
- Heymann, Hans. Purification of waste water based on the use of vibrations. 2,790,762, 4-30-57, Cl. 210-19.
- Heymann, Hans. Apparatus for separating liquids from sludges. 2,799,398, 7-16-57, Cl. 210-388.
- Heymes, René: See—
Amiard, Gaston, Heymes, and Velluz. 2,794,025.
- Amiard, Gaston, Heymes, and Velluz. 2,797,226.
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- Heymons, Albrecht, and W. Schnabel, to Riedelde Haen Aktiengesellschaft. Process of preparing fungicidal 8-hydroxyquinoline compositions. 2,799,615, 7-16-57, Cl. 167-33.
- Heyna, Johannes: See—
Lakatos, Eduard, Schnegberger, Greune, and Heyna. 2,784,116.
- Heyna, Johannes, A. Carl, and H.-D. Wagner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Diphenylamine-vinylsulfone. 2,784,204, 3-5-57, Cl. 260-397.6.
- Heyner, Robert G.: See—
Aterno, Joseph P., Heyner, Leyden, and Pindzola. 2,811,483.
- Heynick, Louis N., M. Schnee, S. Winkler, and R. J. Wohl, to the United States of America as represented by the Secretary of the Navy. Shock testing device. 2,799,824, 7-16-57, Cl. 324-20.
- Heys, Ralph C., to Beloit Iron Works. Paper-making machines. 2,780,968, 2-12-57, Cl. 92-49.
- Heywang, Hermann: See—
Dauner, Karl, and Heywang. 2,802,256.
- Heywood, Basil J., to May & Baker Ltd. 4-(chlorophenoxy) valeric acids. 2,818,425, 12-31-57, Cl. 260-473.
- Heywood, Donald L.: See—
Phillips, Benjamin, Starcher, and Heywood. 2,806,860.
- Heywood, Harold L.: See—
Armitage, Joseph B., Heywood, and Martin. 2,816,487.
- Heywood-Wakefield Co.: See—
Hendrickson, Severin B. 2,784,771.
- Hendrickson, Severin B. 2,805,705.
- Hendrickson, Severin B., and Higley. 2,815,794.
- Larsen, Gordon. 2,799,547.
- Heyworth, Ernest: See—
Harris, William H., and Heyworth. 2,817,135.
- Hiatt, Gordon D., and J. Emerson, to Eastman Kodak Co. Process of preparing mixed esters of cellulose containing dicarboxylic acid groups. 2,794,799, 6-4-57, Cl. 260-225.
- Hiatt, Gordon D., L. W. Blanchard, Jr., and L. J. Tanghe, to Eastman Kodak Co. Method of hydrolyzing cellulose esters. 2,801,239, 7-30-57, Cl. 260-230.
- Hibbard, George J. Automobile storage elevator. 2,781,922, 2-19-57, Cl. 214-16.1.
- Hibbard, James O., to Research Products Co. Noninflammable fumigant mixture. 2,803,581, 8-20-57, Cl. 167-39.
- Hibbard, Myrthan R., and J. L. Riley. Crane mounted log tongs. 2,803,364, 8-20-57, Cl. 214-658.
- Hibbard, Oscar L., and M. L. Brain, to International Business Machines Corp. Record receiver mechanism. 2,801,621, 10-22-57, Cl. 346-79.
- Hibbitt, Alec E. W., S. N. Couzens, R. W. Watler, and J. H. Batchelor, to Muirhead & Co., Ltd. Miniature rotating electrical machines. 2,810,086, 10-15-57, Cl. 310-261.
- Hibner, Delos E., Jr., and J. A. Vanyo, Jr., to Blaw-Knox Co. Automatic operating means for boiler wall blowers. 2,811,954, 11-5-57, Cl. 122-392.
- Hibshman, Henry J.: See—
Reinsch, Arthur J., and Hibshman. 2,808,897.
- Hibshman, Henry J., and S. H. Dole, to Esso Research and Engineering Co. Fractionating tower utilizing directional upflow means in conjunction with slanted trays. 2,787,453, 4-2-57, Cl. 261-114.
- Hickerson, Carlos, Jr. Sliding drawer and adapter for telephone base. 2,778,151, 1-22-57, Cl. 45-0.5.
- Hickerson, Frederick R. Solenoid pilot controlled piston valve. 2,799,466, 7-16-57, Cl. 251-30.
- Hickey, David H., to The Soundscriber Corp. Dip erasing tank for thermoplastic disk records. 2,799,894, 7-23-57, Cl. 18-1.
- Hickey, Frank D.: See—
Kilburn, Robert W., and Hickey. 2,781,070.
- Hickey-Freeman Co.: See—
Gemignani Hugo J. 2,813,340.
- Hickey, Herbert A., to The Upjohn Co. Agitator apparatus for sterile processing. 2,780,444, 2-5-57, Cl. 259-113.
- Hickey, John H., to Great Lakes Carbon Corp. Coal purification. 2,808,369, 10-1-57, Cl. 202-25.
- Hickey, John J. Devices for playing card games with balls. 2,810,579, 10-22-57, Cl. 273-148.
- Hickey, John S., Jr., to the United States of America as represented by the Secretary of the Navy. Permanent magnet for beam tubes. 2,817,038, 12-17-57, Cl. 315-3.5.
- Hickey, Merrill H., and O. M. Bolme, to Hewitt-Robins Inc. Tripper sealing means. 2,780,368, 2-5-57, Cl. 214-17.
- Hickey, William P. Efficiency metering system. 2,803,400, 8-20-57, Cl. 235-61.
- Hickin, Robert J., to The Ohio Boxboard Co. Intaglio glue mechanism. 2,787,244, 4-2-57, Cl. 118-259.
- Hickin, Robert J., to The Ohio Boxboard Co. Conveyor system. 2,789,678, 4-23-57, Cl. 198-19.
- Hickle, Joseph C. Motor vehicle hydraulic brake system. 2,780,322, 2-5-57, Cl. 188-90.
- Hickman, Albert F., A. K. Simons, and C. W. Marcinek, to Hickman Industries, Inc. Resilient seat structure. 2,783,822, 3-5-57, Cl. 155-50.
- Hickman, Earl L. Nebulizer. 2,785,923, 3-19-57, Cl. 299-88.5.
- Hickman Industries, Inc.: See—
Hickman, Albert F., Simons, and Marcinek. 2,783,822.
- Hickman, Merritt: See—
Woods, Paul H., and Hickman. 2,809,444.
- Woods, Paul H., and Hickman. 2,817,160.

- Hickman, Roy. Cleaning and reaming device for metallic fittings and tubings. 2,793,473, 5-28-57, Cl. 51-5.
- Hickman, Samuel L. Adjustable resilient walking cane. 2,802,479, 8-13-57, Cl. 135-45.
- Hickok Mfg. Co., Inc.: See—
- Levis, Robert R., and Ring. 2,788,123.
- Hickok, Robert D., Jr.: See—
- Yenni, William H., and Hickok. 2,783,437.
- Hicks, Frank G.: See—
- Bachman, Eugene, Bolte, and Hicks. 2,794,889.
- Hicks, George H.: See—
- Suen, Tzeng J., and Hicks. 2,801,232.
- Hicks, Gordon M. Drain strainer. 2,800,231, 7-23-57, Cl. 210-463.
- Hicks, Harry G., W. E. Nervik, and P. C. Stevenson, to the United States of America as represented by the United States Atomic Energy Commission. Solvent extraction process for the separation of tantalum and niobium values. 2,795,481, 6-11-57, Cl. 23-19.
- Hicks, Kelly S. No shine and protective press mat for the head of a garment pressing machine. 2,807,895, 10-1-57, Cl. 38-66.
- Hicks, Lawrence. 19-nor-delta-4-androstene, 3-one, 17 beta hexahydro benzoate and method for manufacturing same. 2,785,189, 3-12-57, Cl. 260-397.4.
- Hicks, Percy W.: See—
- Stallworthy, Frank A., and Hicks. 2,814,674.
- Hicks, William L. Vehicle tire ballast. 2,797,721, 7-2-57, Cl. 152-330.
- Hicks, William W.: See—
- Beckett, John C., and Hicks. 2,817,958.
- Hicks, William W., to Wesix Electric Heater Co. Electric baseboard heater. 2,799,763, 7-16-57, Cl. 219-34.
- Hickson's Timber Impregnation Co. (G. B.) Ltd.: See—
- Cook, Charles D. 2,816,057.
- Hickson, William F., to Continental Copper and Steel Industries, Inc. Life boat release gear. 2,811,729, 11-5-57, Cl. 9-44.
- Hickson, William F., to Continental Copper and Steel Industries, Inc. Plastic boats and methods of manufacturing same. 2,813,050, 11-12-57, Cl. 154-83.
- Hickson, William F., to Continental Copper & Steel Industries, Inc. Skate and skid fenders for life boats. 2,814,058, 11-26-57, Cl. 9-42.
- Hidalgo, John: See—
- Williams, Arthur R., and Hidalgo. 2,810,743.
- Hidde Nijland, Hendrik A., to N. V. "Coq". Electric switching devices for high tension. 2,777,920, 1-15-57, Cl. 200-163.
- Hidde Nijland, Hendrik A., to N. V. "Coq". Driving mechanisms for circuit breakers. 2,784,270, 3-5-57, Cl. 200-78.
- Hidde Nijland, Hendrik A., to N. V. "COQ". Electric switch. 2,810,893, 10-22-57, Cl. 339-9.
- Hiebert, John. Animal rubbing insecticide applicator. 2,777,421, 1-15-57, Cl. 119-157.
- Hield, Roger A., and C. L. Ramirez, to Butler Mfg. Co. Column and rafter assembly for rigid frame buildings. 2,815,831, 12-10-57, Cl. 189-1.
- Hier, Melvin W. Stone gathering machine. 2,816,614, 12-17-57, Cl. 171-63.
- Hierholzer, Frank J., Jr., and J. A. Storms, to Westinghouse Electric Corp. Discharge lamp. 2,791,679, 5-7-57, Cl. 240-11.4.
- Hiersch, Frederick A., to Continental Aviation and Engineering Corp. Internal combustion engines. 2,798,361, 7-9-57, Cl. 60-35.6.
- Hiesinger, Leopold, and W. Boek, to W. C. Heraeus G. m. b. H. High diffusion pump. 2,818,209, 12-31-57, Cl. 230-101.
- Hiestand, Armin: See—
- Albrecht, Otto, and Hiestand. 2,783,231.
- Hiestand, Armin, and O. Albrecht, to Ciba Ltd. Condensation product and textile material softened therewith. 2,785,092, 3-12-57, Cl. 117-139.5.
- Higashi, Louis M., to Monsanto Chemical Co. Phenol-formaldehyde resins stabilized with triaryl phosphites. 2,816,876, 12-17-57, Cl. 45-7.
- Higbee, Herbert H. Automatic inflating device for life preservers. 2,786,599, 3-26-57, Cl. 222-5.
- Higbie Mfg. Co.: See—
- Wood, Morris E. 2,777,645.
- Wood, Morris E. 2,777,648.
- Higbie, Nathan B., and W. H. Norton, to Kingston Products Corp. Door switch assembly. 2,801,309, 7-30-57, Cl. 200-61.82.
- Higby, Richard F., to Westinghouse Electric Corp. Triple channel time sharing switch. 2,777,067, 1-8-57, Cl. 250-36.
- Higgins, Edward J.: See—
- Keen, Alexis W., Hugger, Higgins, Kane, and Long. 2,786,237.
- Higgins, Francis J., to Continental Oil Co. Non-foaming wax. 2,796,355, 6-18-57, Cl. 106-270.
- Higgins, Frank O., to Higgins Industries. Method of and apparatus for stretching and stress relieving lumber. 2,815,779, 12-10-57, Cl. 144-309.
- Higgins, Frank O., to Higgins Industries, Inc. Method of stretching and stress relieving lumber. 2,815,780, 12-10-57, Cl. 144-309.
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- Higgins, Irwin R. Counter-current liquid-solid mass transfer method and apparatus. 2,815,322, 12-3-57, Cl. 210-33.
- Higgins, Martin G., to Novit Co. Laminated pressure-sensitive adhesive tapes. 2,805,183, 9-3-57, Cl. 154-53.5.
- Higgins, Richard M.: See—
- Brill, Edward F., and Higgins. 2,811,109.
- Higgins, Thomas D., Jr., to Monsanto Chemical Co. Purification of acrylonitrile. 2,792,415, 5-14-57, Cl. 260-465.9.
- Higgins, Walter F.: See—
- Oliver, James V., and Higgins. 2,794,410.
- Higgins, William A. Tire pressure indicator. 2,798,450, 7-9-57, Cl. 116-34.
- Higgins, William A., G. R. Norman, and W. G. Craig, to The Lubrizol Corp. Preparation of aromatic phosphinous chlorides. 2,779,787, 1-29-57, Cl. 260-543.
- High, Carl F. Auxiliary accelerator control for fuel injection engine. 2,812,752, 11-12-57, Cl. 123-139.
- High, Carl F., and R. K. Weldy, to American Bosch Arma Corp. Fuel injection pumps. 2,784,670, 3-12-57, Cl. 103-2.
- High, Le Roy B., and W. E. Hague, to Udylite Research Corp. Electroplating of cadmium. 2,803,593, 8-20-57, Cl. 204-50.
- High Standard Mfg. Corp., The: See—
- Colliander, Carl T. 2,817,917.
- Liedke, Carl F. 2,817,174.
- High Voltage Engineering Corp.: See—
- Connor, Richard J. 2,796,555.
- Gale, Alfred J. 2,810,077.
- Herb, Raymond G. 2,809,314.
- Herb, Raymond G., and Weinman. 2,816,243.
- Nygard, John C. 2,816,231.
- Trump, John G. 2,785,313.
- Highberg, Axel L., to the United States of America as represented by the Secretary of the Air Force. Removable burner cans. 2,801,520, 8-6-57, Cl. 60-39.69.
- Highberg, George A., to The Whiton Machine Co. Valve and cylinder construction for an air operated chuck. 2,809,612, 10-15-57, Cl. 121-38.
- Highley, Frank H., to The Goodyear Tire & Rubber Co. Automatic high lift take-off apparatus for aircraft. 2,793,825, 5-28-57, Cl. 244-42.
- Hightower, Lloyd E.: See—
- Semon, Howard W., and Hightower. 2,798,431.
- Highway Trailer Co.: See—
- Connors, George H. 2,796,159.
- Highwood, William. Pie plate rack. 2,815,129, 12-3-57, Cl. 211-41.
- Higley, David E.: See—
- Hendrickson, Severin B., and Higley. 2,815,794.
- Higley, Frank R. Chromatic effect producing spinning toy. 2,776,523, 1-8-57, Cl. 46-49.
- Higley, Richard B., and A. E. Siler, to North American Aviation, Inc. Reversing mechanism for a hydraulically-operated scanning antenna. 2,810,262, 10-22-57, Cl. 60-97.
- Hignett, Travis P., M. R. Siegel, R. S. Meline, and T. M. Kelso, to Tennessee Valley Authority. Production of fertilizer from high-alumina phosphate ores. 2,783,140, 2-26-57, Cl. 71-37.
- Hignett, Travis P., and N. Gilbert, to Tennessee Valley Authority. Hydrolysis of hemicellulose and alpacellulose to produce sugar. 2,801,939, 8-6-57, Cl. 127-37.
- Higonnet, René, and L. Moyroud, to Graphic Arts Research Foundation, Inc. Photo composing machine. 2,790,362, 4-30-57, Cl. 95-4.5.
- Higonnet, René, and L. Moyroud, to Graphic Arts Research Foundation, Inc. Type composing apparatus. 2,806,575, 9-17-57, Cl. 197-84.
- Higonnet, René A.: See—
- Grea, René A., Higonnet, and Moyroud. 2,783,651.
- Higonnet, René A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Photographic composing apparatus. 2,781,706, 2-19-57, Cl. 95-4.5.
- Higonnet, René A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Photocomposing apparatus. 2,787,199, 4-2-57, Cl. 95-4.5.
- Higonnet, René A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Modification of type configurations. 2,797,613, 7-2-57, Cl. 88-24.
- Higonnet, René A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Type composing apparatus. 2,797,787, 7-2-57, Cl. 197-19.
- Higonnet, René A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Variable escapement. 2,806,574, 9-17-57, Cl. 197-84.
- Hi-Jac Corp.: See—
- Davis, Donald M. 2,779,495.
- Hilber, Hanns: See—
- Kreidler, Alfred, and Hilber. 2,781,033.
- Hilber, Hanns, to A. Kreidler. Gear for single-track vehicles. 2,804,865, 9-3-57, Cl. 123-185.
- Hilber, Hanns, to A. Kreidler. Engine starter and toe brake actuator for motorcycles. 2,815,835, 12-10-57, Cl. 192-4.
- Hilbert, Richard G., D. G. Soussloff, and R. V. Tata, to Universal Winding Co. Textile spindle. 2,791,086, 5-7-57, Cl. 57-77.45.
- Hilblom, Samuel E., and P. Sammarco, to International Harvester Co. Recirculating conveyor. 2,818,163, 12-31-57, Cl. 198-73.

- Hilborn, Edwin H., to Eastman Kodak Co. Process of preparing translucent cellulosic sheeting. 2,790,727, 4-30-57, Cl. 117-10.
- Hildebrandt, Vernon H. Abrasively coated anti-skid cover for tire casings. 2,777,497, 1-15-57, Cl. 152-175.
- Hildebrandt, Vernon H. Tread compressing type tire bead seating device. 2,791,270, 5-7-57, Cl. 157-121.
- Hildebrandt, Vernon H., to Yates-American Machine Co. Saw grinding machine. 2,785,591, 3-19-57, Cl. 76-50.
- Hildebrandt, Vernon H. Power actuated wheel supporting and clamping apparatus. 2,808,860, 10-8-57, Cl. 144-288.
- Hilden, Dale G., 30% to K. L. Musgrave and J. W. Perry. Child's bed. 2,779,029, 1-29-57, Cl. 5-11.
- Hiddenbrand, Albert P. Fish stringers. 2,797,850, 7-2-57, Cl. 224-7.
- Hildreth, Marshall V. Threshold construction for doors. 2,788,551, 4-16-57, Cl. 20-64.
- Hileman, Dale L., to Collins Radio Co. Direct current voltage step-up device. 2,817,803, 12-24-57, Cl. 321-2.
- Hileman, James K. Coffee dispensing mechanism. 2,805,799, 9-10-57, Cl. 222-362.
- Hiler, Malvern J.: See—
Drummond, Folsom E., and Hiler. 2,789,935.
- Hiler, Malvern J., to The Commonwealth Engineering Co. of Ohio. Dextran solutions. 2,787,518, 4-2-57, Cl. 18-54.
- Hilger, Josef: See—
Huber, Eugen, Wahl, and Hilger. 2,787,614.
- Hilger, Raymond G. Ice making unit. 2,805,557, 9-10-57, Cl. 62-107.
- Hilgers Maschinen- und Apparate-Bauanstalt mit beschränkter Haftung: See—
Fuchs, Gerhard. 2,776,728.
- Hilgert, Adolph J.: See—
Dietz, Gerald E., and Hilgert. 2,787,739.
- Hilgert, Adolph J., to Baso Inc. Low reluctance magnet core and method of manufacturing the same. 2,790,937, 4-30-57, Cl. 317-158.
- Hilgoe, Vernon J., to Miehle-Goss-Dexter, Inc. Straight and collect delivery mechanism. 2,797,084, 6-25-57, Cl. 270-43.
- Hilker, Robert W.: See—
Dorrel, Harold I., and Hilker. 2,801,647.
- Hill, Alfred G., and R. S. Barker, to American Cyanamid Co. Rubber accelerators and method of making. 2,798,106, 7-2-57, Cl. 260-785.
- Hill, Amelia. Combined hassock and bar. 2,812,227, 11-5-57, Cl. 312-290.
- Hill, Ansell K.: See—
Hardesty, Ethridge E., and Hill. 2,814,718.
- Hill, Archie, and W. J. Burkholder, to Diamond Alkali Co. Process of making sodium bicarbonate from sodium hydroxide cell liquor. 2,792,283, 5-14-57, Cl. 23-64.
- Hill, Archie S., and D. M. Zabriske, to The Western Union Telegraph Co. Paper feed mechanism. 2,805,115, 9-3-57, Cl. 346-136.
- Hill, Benjamin, to Hill Laboratories Co. Massage apparatus. 2,781,040, 2-12-57, Cl. 128-33.
- Hill Bros. Co.: See—
Hill, Lawson T. 2,814,888.
- Hill, C. V., & Co., Inc.: See—
Reuter, Phillip J., and Voorhies. 2,810,267.
- Hill, Carl J. Improved feed mechanism for gizzard cleaning machine. 2,787,362, 4-2-57, Cl. 198-33.
- Hill, Charles J., and C. E. Poultry disinfecting perch. 2,790,415, 4-30-57, Cl. 119-25.
- Hill, Charles M., to Marchant Research, Inc. Word counter. 2,796,219, 6-18-57, Cl. 235-61.
- Hill, Charles R.: See—
Stetz, Robert J., Hill, and Rogers. 2,815,889.
- Hill, Charles S. Tobacco hoist. 2,809,758, 10-15-57, Cl. 214-16.
- Hill, Clarence E.: See—
Hill, Charles J. and C. E. 2,790,415.
- Hill, Claude: See—
Rolt, Anthony P. R., and Hill. 2,796,943.
- Hill, Claude, to Harry Ferguson Research Ltd. Four wheel drive for automotive vehicles. 2,796,941, 6-25-57, Cl. 180-44.
- Hill, Claude, to Harry Ferguson Research Ltd. Four wheel drive for automotive vehicles. 2,796,942, 6-25-57, Cl. 180-44.
- Hill, Claude, to Harry Ferguson Research Ltd. Vehicle wheel suspension. 2,816,616, 12-17-57, Cl. 180-73.
- Hill, Clifford W. Automatic injector hypodermic syringe. 2,804,074, 8-27-57, Cl. 128-218.
- Hill, Don R., deceased, by M. H. Hill, executrix, and E. C. Chasser. Fluid motor with piston actuated valve means. 2,804,055, 8-27-57, Cl. 121-164.
- Hill, Donald, and H. M. Whitney. Pointing and caulking compound. 2,776,906, 1-8-57, Cl. 106-257.
- Hill, Edward G., and D. T. Ayers, Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,808,704, 10-8-57, Cl. 60-54.6.
- Hill, Edward H.: See—
Caldwell, John R., and Hill. 2,805,215.
- Hill, Edwin M. Mesh structure for cribs. 2,796,958, 6-25-57, Cl. 189-3.
- Hill, Eldon J., to The Burdick Co. Method of making advertising signs. 2,779,269, 1-29-57, Cl. 101-129.
- Hill, Eldon J., to The Burdick Co. Method of making advertising signs. 2,779,270, 1-29-57, Cl. 101-129.
- Hill, Eugene F.: See—
De Pree, David O., and Hill. 2,799,705.
- Hill, Eugene F., and D. O. Depree, to Ethyl Corp. N-aryl-N'-(p-hydroxyphenyl)ureas as anti-oxidants for petroleum hydrocarbon fuels. 2,785,965, 3-19-57, Cl. 44-71.
- Hill, Ezra C., and H. J. Proxmire, to General Electric Co. Tapped coil. 2,787,769, 4-2-57, Cl. 336-192.
- Hill, Frank A.: See—
Fingerett, Joseph A., and Hill. 2,777,073.
- Hill, Frank A., to Librascope, Inc. Radiacs. 2,797,332, 6-25-57, Cl. 250-83.6.
- Hill, Frank A., to Librascope, Inc. Voltage control system. 2,811,686, 10-29-57, Cl. 321-2.
- Hill, Frederick B., Jr., to E. I. du Pont de Nemours and Co. Curing of polyurethanes with a di(isocyanatoaryl) urea. 2,818,404, 12-31-57, Cl. 260-75.
- Hill, Frederick P., and T. A. Byles, to Motorola, Inc. Signal seeking receiver with stop-hunting means responsive to both carrier strength and time-derivative thereof. 2,791,685, 5-7-57, Cl. 250-20.
- Hill, George B., and M. E. McClellan, to Deere Mfg. Co. Implement controlling device. 2,809,574, 10-15-57, Cl. 97-46.27.
- Hill, George B., T. Stott, and R. V. Morr, to Avco Mfg. Corp. Connector latch device. 2,815,282, 12-3-57, Cl. 287-89.
- Hill, Gilbert F.: See—
Wittkubns, Bruno A., and Hill. 2,783,691.
Wittkubns, Bruno A., and Hill. 2,783,694.
Wittkubns, Bruno A., and Hill. 2,814,497.
Wittkubns, Bruno A., and Hill. 2,817,517.
- Hill, Gordon: See—
Kilgard, Walter W., and Hill. 2,792,677.
- Hill, Gordon, to American Machine & Foundry Co. Mechanical drum drive for slicing machines. 2,795,254, 6-11-57, Cl. 146-88.
- Hill, Harry O., and R. S. Johnson, to American Bosch Arma Corp. Fuel pump. 2,784,708, 3-12-57, Cl. 123-139.
- Hill, Harvey J., to Roberts Mfg. Merchandise rack. 2,818,179, 12-31-57, Cl. 211-44.
- Hill, Henry H. Milking systems. 2,805,643, 9-10-57, Cl. 119-14.07.
- Hill, Herbert S., to Cheney Bigelow Wire Works. Apparatus for and method of dispensing liquid. 2,801,643, 8-6-57, Cl. 137-170.1.
- Hill, Howard, and H. L. Bennett, to American Can Co. Paper cup holder. 2,805,017, 9-3-57, Cl. 229-1.5.
- Hill, Howard M., to American Can Co. Container with sanitary end closure. 2,784,893, 3-12-57, Cl. 229-7.
- Hill, Howard M., to American Can Co. Container with sanitary end closure. 2,784,894, 3-12-57, Cl. 229-7.
- Hill, Hubert M., to Eastman Kodak Co. Alkyl α -alkylsulfonfyl-acrylates and polymers and polymers thereof. 2,808,395, 10-1-57, Cl. 260-79.3.
- Hill, Hubert M., to Eastman Kodak Co. Alpha-alkylsulfonfyl-acrylonitriles, and polymers thereof. 2,808,396, 10-1-57, Cl. 260-79.3.
- Hill, Hubert M., to Eastman Kodak Co. Fluoroisopropenyl alkyl sulfones, and polymers thereof. 2,811,513, 10-29-57, Cl. 260-79.3.
- Hill, J. E.: See—
Beck, Julius S. 2,807,440.
- Hill, Jack O.: See—
White, Walter L., and Hill. 2,817,278.
- Hill, Jacques A. F.: See—
Barnes, Frank A., Devine, Hill, Schindel, and Nicholson. 2,793,300.
- Hill, James M.: See—
Anderson, Byron, and Hill. 2,804,965.
- Hill, James M. Mobile curvable conveyors. 2,800,994, 7-30-57, Cl. 198-203.
- Hill, John, and A. P. Berger, to Celanese Corp. of America. Extrusion of plastic materials. 2,803,041, 8-20-57, Cl. 18-12.
- Hill, John P., to Goddard & Goddard Co. Apparatus and method for producing flat surfaces. 2,778,924, 1-22-57, Cl. 219-69.
- Hill, John P., to Goddard & Goddard Co. Method of forming serrations at the back of the blade of cutting elements. 2,797,299, 6-25-57, Cl. 219-69.
- Hill, Joseph A. Carton. 2,818,166, 12-31-57, Cl. 206-45.33.
- Hill, Joseph W., 50% to W. J. Mettler. Shoeshine kit. 2,794,204, 6-4-57, Cl. 15-258.
- Hill, Joseph W., 50% to W. J. Mettler. Shoe polishing kit. 2,808,606, 10-8-57, Cl. 15-258.
- Hill Laboratories Co.: See—
Hill, Benjamin. 2,781,040.
- Hill, Lawson T., to Hill Bros. Co. Insulating box toe for safety shoes. 2,814,888, 12-3-57, Cl. 36-77.
- Hill, Lester E., to Aladdin Industries, Inc. High-voltage transformer. 2,786,983, 3-26-57, Cl. 336-83.
- Hill, Lester E., and H. T. Lyman, to Aladdin Industries, Inc. Radio-frequency energy-transfer device. 2,780,784, 2-5-57, Cl. 333-24.
- Hill, Luther D. Glove for preventing thumb sucking. 2,783,759, 3-5-57, Cl. 128-133.
- Hill, Martha H.: See—
Hill, Don R., and Chasser. 2,804,055.
- Hill, Morse, to National Research Corp. Method of coating a metal substrate with molybdenum. 2,783,164, 2-26-57, Cl. 117-71.
- Hill, Morton: See—
Green, Martin, and Hill. 2,796,064.

- Hill, Norman C., deceased; R. C. Hill, executrix, to The C. F. Hill Co. Method of reclaiming rubber. 2,806,821, 9-17-57, Cl. 280-2.3.
- Hill, Olva E., to Norton Co. Multiple wheel grinding machine. Re. 24,378, 10-15-57, Cl. 51-165.
- Hill, Olva E., to Norton Co. Grinding machine-headstock. 2,783,595, 3-5-57, Cl. 51-237.
- Hill, Olva E., to Norton Co. Grinding machine-feeding mechanism. 2,805,526, 9-10-57, Cl. 51-165.
- Hill, Olva E., to Norton Co. Cam grinding machine. 2,813,378, 11-19-57, Cl. 51-101.
- Hill, Olva E., and C. J. Green, to Norton Co. Cam grinding machine. 2,786,311, 3-26-57, Cl. 51-101.
- Hill, Orville F.: See—
Brown, Harrison S., and Hill. 2,785,047.
Werner, Louis B., and Hill. 2,815,265.
- Hill, Orville J. Cultivator. 2,788,729, 4-16-57, Cl. 97-47.38.
- Hill, Richard N. Pump. 2,789,514, 4-23-57, Cl. 103-149.
- Hill, Robert A.: See—
Thomas, David F., and Hill. 2,781,000.
Thomas, David F., and Hill. 2,790,393.
Thomas, David F., and Hill. 2,795,236.
Thomas, David F., and Hill. 2,800,295.
- Hill, Robert A., J. Hertz, and R. H. Niebling, to Sidney Blumenthal & Co., Inc. Framing device for pile fabrics and method of using same. 2,811,248, 10-29-57, Cl. 206-51.
- Hill, Robert H.: See—
Van Order, Robert B., and Hill. 2,806,802.
- Hill, Robert H., to Perfect Circle Corp. Control means for pumping apparatus. 2,778,313, 1-22-57, Cl. 103-25.
- Hill, Robert H., to The Marison Co. Heat treating apparatus. 2,805,054, 9-3-57, Cl. 263-2.
- Hill, Robert H., to Standard Oil Co. Method for preparing carboxylic acids. 2,815,355, 12-3-57, Cl. 260-406.
- Hill, Roland S. Carrier for fly or like fishing casts. 2,794,290, 6-4-57, Cl. 43-57.5.
- Hill-Rom Co., Inc.: See—
Burst, Francis J. 2,806,515.
- Hill, Roscoe F.: See—
Dall, John P., and Hill. 2,780,026.
- Hill, Ruth C.: See—
Hill, Norman C. 2,806,821.
- Hill, Rutherford B., and H. W. Kilbourne, to Monsanto Chemical Co. Reinforced rubber articles. 2,782,139, 2-19-57, Cl. 154-52.
- Hill, Thomas. Reciprocable tool adaptor for rotary power devices. 2,816,583, 12-17-57, Cl. 143-68.
- Hill, Thomas C., to The Glenn L. Martin Co. Aircraft control force modifier. 2,817,483, 12-24-57, Cl. 244-82.
- Hill, Walter P. Bending device. 2,780,269, 2-5-57, Cl. 153-40.
- Hill, Wilbur G., to General Aniline & Film Corp. Electro-magnetically operated photographic shutter with flashlamp synchronizer. 2,782,698, 2-26-57, Cl. 95-11.5.
- Hill, William J.: See—
O'Malley, Joseph M., and Hill. 2,815,690.
- Hill, William J., to Morgan Construction Co. Article handling apparatus for cylindrical articles. 2,786,588, 3-26-57, Cl. 214-91.
- Hillard, George O., Jr., to Esso Research and Engineering Co. Production of activated coke from acid sludge. 2,790,782, 4-30-57, Cl. 252-421.
- Hillberg, Bror, to Superior Concrete Accessories, Inc. Channel shaped anchor retaining strip for embedment in concrete. 2,780,936, 2-12-57, Cl. 72-103.
- Hillberg, Bror, to Superior Concrete Accessories, Inc. Outer right angle corner forming unit for a concrete wall form. 2,791,818, 5-14-57, Cl. 25-131.
- Hillberg, Bror, to Superior Concrete Accessories, Inc. Inner right angle corner forming unit for a concrete wall form. 2,794,235, 6-4-57, Cl. 25-131.
- Hille, Alfred. Container for flowerpots. 2,802,304, 8-13-57, Cl. 47-34.
- Hille, Walter E., to F. M. Holmes. Expansible camping trailer. 2,798,760, 7-9-57, Cl. 296-23.
- Hille, Ervin A., to Star Radiator Co. Work holding stand. 2,815,566, 12-10-57, Cl. 29-288.
- Hillebrand, Albert F. Valve. 2,782,800, 2-26-57, Cl. 137-625.38.
- Hillegas, Julian M., to Continental Can Co., Inc. Multiple tube extrusion machine for forming cork rods. 2,799,045, 7-16-57, Cl. 18-5.
- Hillegass, Harold N., to Radio Corp. of America. Electron beam controlling apparatus. 2,816,244, 12-10-57, Cl. 313-77.
- Hiller, Alexander J. Sonar pulse frequency indicator, etc. 2,800,610, 7-23-57, Cl. 315-103.
- Hiller, Emil: See—
Pape, Hans-Martin, Schulze, and Hiller. 2,796,888.
- Hiller Helicopters: See—
Bennett, Edward L. 2,795,283.
Hiller, Stanley, Jr. 2,818,123.
Hiller, Stanley, Jr., and Sigler. 2,818,226.
- Hiller, Stanley, Jr., to Hiller Helicopters. Rotary wing aircraft. 2,818,123, 12-31-57, Cl. 170-160.25.
- Hiller, Stanley, Jr., and H. H. Sigler, to Hiller Helicopters. Rotary wing aircraft frame construction. 2,818,226, 12-31-57, Cl. 244-120.
- Hilliard, Joy. Rooter blade assembly. 2,797,506, 7-2-57, Cl. 37-145.
- Hillier, Edward W.: See—
Harza, Leroy F. 2,798,373.
- Hilligoss, Willard C., $\frac{1}{2}$ to W. F. Berner. Adapter unit for pneumatic rock drills. 2,790,423, 4-30-57, Cl. 121-10.
- Hilliker, Donald E., to General Electric Co. Freezer compartment for household refrigerator. 2,780,075, 2-5-57, Cl. 62-99.
- Hillis, Thomas. Removable valve packing. 2,809,059, 10-8-57, Cl. 286-33.
- Hillman, Benjamin. Color printing apparatus. 2,794,415, 6-4-57, Cl. 118-3.
- Hillman, Conway D.: See—
Keuffel, Carl W., Hillman, and Baker. 2,784,641.
- Hillman, Edward, Jr.: See—
Kurz, Harry F. 2,791,226.
- Hillman, Erwin: See—
Rusch, Kenneth A., and Hillman. 2,780,275.
- Hillman, Julius: See—
Stone, Alfred, Rosenberg, and Hillman. 2,783,471.
- Hillman, Swan. Carton for packaging and displaying articles. 2,790,542, 4-30-57, Cl. 206-45.2.
- Hillman, Swan. Automatic nut tapping machine having tool spindles and work holders movable in a circular path. 2,802,224, 8-13-57, Cl. 10-132.
- Hillman, Swan. Machine for operating on nut blanks. 2,802,526, 8-13-57, Cl. 164-12.
- Hills Bros. Coffee, Inc.: See—
Nutting, Lee. 2,802,739.
- Hills, Fielding B.: See—
Hoehn, John J., and Hills. 2,782,263.
- Hills, Leander H., to The Garlock Packing Co. Mineral wool depelletizing apparatus. 2,789,694, 4-23-57, Cl. 209-250.
- Hills-McCanna Co.: See—
Dalton, Robert F. 2,812,562.
Goodyer, Harold J. Re. 24,291.
- Hills, Robert C., to Freeport Sulphur Co. Production of sulfuric acid from dark sulfur. 2,809,095, 10-8-57, Cl. 23-167.
- Hills, Russell B. Air flow check device for liquid flow meters. 2,814,200, 11-26-57, Cl. 73-200.
- Hillsman, Overton L.: See—
Schur, Milton O., and Hillsman. 2,801,638.
- Hillson, Frank, to Hardware Designers, Inc. Drawer guide. 2,785,939, 3-19-57, Cl. 312-347.
- Hillyer, Harvey W., to The American Metal Co., Ltd. Sling for barrels and the like. 2,793,905, 5-28-57, Cl. 294-74.
- Hillyer, John C., to Phillips Petroleum Co. Substituted tetrahydrofurfural and substituted tetrahydrofurfuryl alcohol. 2,795,592, 6-11-57, Cl. 260-346.2.
- Hillyer, John C., and J. T. Edmonds, to Phillips Petroleum Co. Manufacture of resins from 2,3,4,5-bis(Δ^2 -butenylenes)-tetrahydrofurfural. 2,785,148, 3-12-57, Cl. 260-67.
- Hilmer Ltd.: See—
Hawes, John H. 2,801,559.
- Hilpman, Paul, to Mergenthaler Linotype Co. Typographical composing machine. 2,779,456, 1-29-57, Cl. 199-30.
- Hilsinger, Arthur R., to Sadler Bros., Inc. Advertising unit. 2,791,446, 5-7-57, Cl. 281-15.
- Hilt, Andrew, Jr.: See—
Hilt, Andrew, Sr. 2,817,347.
- Hilt, Andrew, Sr., $\frac{1}{2}$ to A. Hilt, Jr., and $\frac{1}{2}$ to J. Hilt. Walking aid. 2,817,347, 12-24-57, Cl. 135-45.
- Hilt, Julia: See—
Hilt, Andrew, Sr. 2,817,347.
- Hilt, Martin. Explosively actuated fastener driving tool. 2,775,762, 1-1-57, Cl. 1-44.5.
- Hiltmann, Rudolf, to Schenley Industries, Inc. Tertiary N,N-dialkyl benzyl amines. 2,783,277, 2-26-57, Cl. 260-570.9.
- Hilton, Edgar A., to Hewlett-Packard Co. Data controlled selective printing system. 2,796,830, 6-25-57, Cl. 101-93.
- Hilton, John L., to The Plessey Co. Ltd. Rotary pumps or compressors. 2,808,785, 10-8-57, Cl. 103-126.
- Hilton, Raymond F., and E. C. Martin, to The Morgan Crucible Co. Ltd. Refractories and material for the manufacture thereof. 2,788,284, 4-9-57, Cl. 106-57.
- Hilty, Donald C., to Union Carbide and Carbon Corp. Alloy addition agent. 2,776,203, 1-1-57, Cl. 75-27.
- Himel, Chester M.: See—
Berriman, Lester P., and Himel. 2,786,020.
- Himel, Chester M., to Richfield Oil Corp. Purification of toluic acids. 2,785,199, 3-12-57, Cl. 260-525.
- Himel, Chester M., to Phillips Petroleum Co. Alkyl thio-sulfenamides and process of producing them. 2,807,613, 9-24-57, Cl. 260-247.1.
- Himel, Chester M., and L. O. Edmonds, to Phillips Petroleum Co. Preparation of sulfenyl dithiocarbamates. 2,792,394, 5-14-57, Cl. 260-247.1.
- Himelick, Robert E., to The Upjohn Co. Antibiotic compositions comprising erythromycin and neomycin. 2,801,952, 8-6-57, Cl. 167-65.
- Himes, John M.: See—
Miller, Lester C., and Himes. 2,811,741.
- Himka, John, to General Motors Corp. Window regulator. 2,798,761, 7-9-57, Cl. 296-44.5.
- Himmelheber, Max, K. Steiner, and W. Kull, to Allwood Inc. Production of shavings from pieces of wood. 2,796,094, 6-18-57, Cl. 144-176.
- Himmler, Wilhelm, and G. Schiller, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Reaction of carbon monoxide with hydrogen to form alcohols. 2,787,628, 4-2-57, Cl. 260-449.

- Himoff, Jack, to Himoff Machine Co. Inc. Machine for and method of making cigarettes. 2,779,338, 1-29-57, Cl. 131-72.
- Himoff Machine Co. Inc.: *See*—
Himoff, Jack. 2,779,338.
- Hinchcliffe, Theodore H. Belt cleat supports. 2,809,743, 10-15-57, Cl. 198-199.
- Hinchliffe, William E., and W. F. Hower, to Halliburton Oil Well Cementing Co. Process for improving the oil-water ratio of oil and gas wells. 2,796,131, 6-18-57, Cl. 166-29.
- Hinchman, Alva K. Adjustable runway, skidboard and scaffold platform. 2,803,328, 8-20-57, Cl. 193-41.
- Hinckley, Alfred A., to Metal Hydrides Inc. Method for alkylating aromatic amines. 2,809,994, 10-15-57, Cl. 260-574.
- Hinckley, Richard B., to Arthur D. Little, Inc. Delivery tube for liquefied gases. 2,785,536, 3-19-57, Cl. 62-1.
- Hinckley, Robert H., and P. W. Borgeson, to Raytheon Mfg. Co. Gated cathode followers. 2,790,077, 4-23-57, Cl. 250-27.
- Hincz, Hipolit M.: *See*—
Wilson, Broadus, and Hincz. 2,778,206.
- Hindall, Lawrence D.: *See*—
Donan, John F., and Hindall. 2,781,169.
- Hindall, Lawrence D., deceased; P. Grimm, administrator, to Northrop Aircraft, Inc. Self synchronous delay line. 2,783,455, 2-26-57, Cl. 340-173.
- Hinde & Dauch Paper Co., The: *See*—
Shenigo, Michael G. 2,804,738.
- Hinde, William L.: *See*—
Fairweather, Stephen H., and Hinde. 2,800,595.
Fairweather, Stephen H., Hinde, and Seldner. 2,800,593.
Wellington, Joseph C., Jr., Hinde, and Fairweather. 2,800,594.
- Hinde, William L., F. H. Guth, and S. H. Fairweather, to Thompson Products, Inc. Displacement sensing system for power plant control. 2,790,090, 4-23-57, Cl. 290-4.
- Hinder, Max: *See*—
Stoll, Max, and Hinder. 2,802,880.
- Hinderer, Hermann, to Siemens & Halske Aktiengesellschaft. Unsymmetrical electrostatic deflection device for electron radiation tubes. 2,817,044, 12-17-57, Cl. 315-23.
- Hinderliter, Dale D. Board tightening tool. 2,817,491, 12-24-57, Cl. 254-17.
- Hindin, Herbert B.: *See*—
Howe, Harold S., and Hindin, and Klang. 2,786,507.
- Hindin, Saul G., to Houdry Process Corp. Catalytic dehydrogenation of hydrocarbons. 2,790,015, 4-23-57, Cl. 260-668.
- Hindle, Frank, to Turner Brothers Asbestos Co. Ltd. Multi-ply fabric and friction elements embodying the fabric. 2,799,916, 7-23-57, Cl. 28-80.
- Hindley, Frank, and J. W. Fisher, to British Celanese Ltd. Manufacture of aliphatic primary amines. 2,782,237, 2-19-57, Cl. 260-585.
- Hindmarch, Thomas. Friction clutch. 2,791,306, 5-7-57, Cl. 192-85.
- Hindmarch, Thomas. Torsional damper or coupling. 2,811,233, 10-29-57, Cl. 192-61.
- Hindmarch, Thomas. Power transmission couplings. 2,817,249, 12-24-57, Cl. 74-665.
- Hinds, George A., to George Hinds Ltd. Hop plucking apparatus. 2,801,635, 8-6-57, Cl. 130-30.
- Hinds, George, Ltd.: *See*—
Hinds, George A. 2,801,635.
- Hinds, Sherwood: *See*—
Rittenhouse, Howard E., and Hinds. 2,816,567.
- Hinds, William F. Corner for box or the like. 2,809,404, 10-15-57, Cl. 20-92.
- Hine, Charles W., to Sarong Inc. Corset. 2,810,128, 10-22-57, Cl. 2-27.
- Hinegardner, Wilbie S., and J. W. Sprauer, to E. I. du Pont de Nemours & Co. Purification of methylnaphthalenes with peracids. 2,779,807, 1-29-57, Cl. 260-674.
- Hineline, Harris D., to General Aniline & Film Corp. Photographic bleach bath. 2,810,648, 10-22-57, Cl. 96-60.
- Hines, Benjamin M. Key tag. 2,812,601, 11-12-57, Cl. 40-17.
- Hines, Claude M., to Westinghouse Air Brake Co. Electro-pneumatic brake apparatus. 2,789,017, 4-16-57, Cl. 303-26.
- Hines, Claude M., and E. P. Sexton, to Westinghouse Air Brake Co. Electric checking apparatus. 2,800,644, 7-23-57, Cl. 340-213.
- Hines Flask Co., The: *See*—
Hines, Russell J. 2,803,860.
Hines, Russell J. 2,813,317.
- Hines, Frank F., to Baldwin-Lima-Hamilton Corp. Load cell type dynamometer with overload protection means. 2,775,887, 1-1-57, Cl. 73-141.
- Hines, John E., Jr.: *See*—
Clark, Robert D., and Hines. 2,816,803.
- Hines, Lloyd Q., Sr., and E. H. Harris, to The Ferguson Mfg. Co., Inc. Apparatus for distributing fertilizer, lime and like materials. 2,784,881, 3-12-57, Cl. 222-202.
- Hines, Marion E., and P. J. Rice, to Bell Telephone Laboratories, Inc. Traveling wave tubes. 2,790,105, 4-23-57, Cl. 315-3.5.
- Hines, Philip E. Ignition unit. 2,784,244, 3-5-57, Cl. 123-148.
- Hines, Roger A., to E. I. du Pont de Nemours and Co. Separation of a dibasic acid from a mixture of mono and dibasic acids. 2,776,990, 1-8-57, Cl. 260-537.
- Hines, Roger A., to E. I. du Pont de Nemours and Co. Synthesis of adipic acid. 2,809,991, 10-15-57, Cl. 260-537.
- Hines, Russell J., to The Hines Flask Co. Method and apparatus of making molds for castings. 2,803,860, 8-27-57, Cl. 22-40.
- Hines, Russell J., to The Hines Flask Co. Method and apparatus for casting. 2,813,317, 11-19-57, Cl. 22-27.
- Hines, William G. Grounding device. 2,785,344, 3-12-57, Cl. 317-2.
- Hinkle, Eugene: *See*—
Brewer, William B., and Hinkle. 2,805,563.
- Hinman, Havilah E.: *See*—
Phillips, Hubert E., and Hinman. 2,797,870.
- Hinman, Maurice B., to General Electric Co. Expansion unit for liquid-filled submersible motors. 2,790,916, 4-30-57, Cl. 310-87.
- Hinojosa, Tomas. Fluid level responsive switch. 2,780,692, 2-5-57, Cl. 200-84.
- Hinrichs, Gerd, to Schunk & Ebe G. m. b. H. Trolley arm for electrically driven vehicles. 2,794,078, 5-28-57, Cl. 191-59.1.
- Hinsdale, Edwin M., Jr., to Radio Corp. of America. Ultra-high frequency tuner of constant bandwidth. 2,798,945, 7-9-57, Cl. 250-20.
- Hinsdale, James G., to Lear, Inc. Quadrature stripping network. 2,815,455, 12-3-57, Cl. 307-106.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,805,584, 9-10-57, Cl. 74-502.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control means and method of making same. 2,811,869, 11-5-57, Cl. 74-543.
- Hinsken, Josef, and G. Holzer, to Axel Lennard Wenner-Gren. Mutually streamlined supporting structure and monorail vehicle. 2,788,749, 4-16-57, Cl. 104-118.
- Hinson, Arthur L., and W. F. Smith, to Owens-Illinois Glass Co. Medicinal package. 2,788,002, 4-9-57, Cl. 128-272.
- Hintermayer, Fritz. Floats for the carburetors of internal combustion engines. 2,782,797, 2-26-57, Cl. 137-409.
- Hinton, Edward M. Absorbent pad. 2,800,906, 7-30-57, Cl. 128-286.
- Hinton, George D. Reversible drive mechanism. 2,795,965, 6-18-57, Cl. 74-355.
- Hinton, John E. Measuring tape holder. 2,775,822, 1-1-57, Cl. 33-190.
- Hinton, Louis E., to Gilson Mfg. Co. Ltd. Control mechanism for clothes washing machines. 2,811,034, 10-29-57, Cl. 68-133.
- Hinton, Norman F.: *See*—
Claridge, Frederick A., Hinton, and Whitcroft. 2,812,173.
- Whitcroft, Robert J., Hinton, and Claridge. 2,812,172.
- Hinton, Robert H.: *See*—
Ogles, Ethridge F., and J. C. 2,799,229.
- Hinton, W. H.: *See*—
Ogles, Ethridge F., and J. C. 2,799,229.
- Hintz, Harvey P., J. F. Hayden, G. W. Offensend, and R. W. Wetherald, to Eastman Kodak Co. Multiple line photo-composing. 2,794,364, 6-4-57, Cl. 88-24.
- Hintz, Harvey P., J. F. Hayden, and G. W. Offensend, to Eastman Kodak Co. Film threading device for photographic apparatus. 2,800,832, 7-30-57, Cl. 88-18.
- Hintz, Otto E., to International Harvester Co. Auxiliary engine drive for harvesters. 2,790,291, 4-30-57, Cl. 56-10.
- Hipps, Herbert E., and E. J. Kupjack. Inflatable tourniquet. 2,811,970, 11-5-57, Cl. 128-327.
- Hirano, Masao, and M. Tsunoda. Treatment of unreacted ammonia in the manufacture of urea. 2,807,574, 9-24-57, Cl. 202-51.
- Hird, Kenneth, to the United States of America as represented by the Secretary of the Air Force. Anti-rotate snap ring. 2,813,732, 11-19-57, Cl. 287-53.
- Hirdler, Fairbanks C., Jr., to Turco Products, Inc. Method for removing metal from the surface of a metal object. 2,801,909, 8-6-57, Cl. 41-43.
- Hire, Harry J., to Westinghouse Electric Corp. Clothes drying apparatus. 2,792,639, 5-21-57, Cl. 34-45.
- Hironimus, Walter C., to Wilcox-Gay Corp. Tone arm assembly. 2,778,646, 1-22-57, Cl. 274-23.
- Hironimus, Walter C., to Wilcox-Gay Corp. Tone arm with a cutting and play-back needle. 2,782,042, 2-19-57, Cl. 274-23.
- Hironimus, Walter C., to Wilcox-Gay Corp. Tape recorder and play back device. 2,793,039, 5-21-57, Cl. 274-4.
- Hirs, Gene. Filter apparatus. 2,795,288, 6-11-57, Cl. 183-12.
- Hirsbrunner, Hans-Rudolf: *See*—
Binder, Adolf, and Hirsbrunner. 2,817,575.
- Hirsch, Alfred, and I. Rosen, to Diamond Alkali Co. Improvements in the preparation of polychlorophenols in aqueous medium. 2,812,367, 11-5-57, Cl. 260-623.
- Hirsch, Benjamin L.: *See*—
Hirsch, Henry and B. L. 2,791,062.
- Hirsch, Benjamin L. and H. Toy sail boats. 2,817,186, 12-24-57, Cl. 46-93.
- Hirsch, Carl. Method of comparing colors in printing and color contrast lenses used in same. 2,792,744, 5-21-57, Cl. 88-14.

- Hirsch, Charles J., to Hazeltine Research, Inc. Repeater system. 2,795,656, 6-11-57, Cl. 179-171.
- Hirsch, Henry: *See*—
- Hirsch, Benjamin L. and H. 2,817,186.
- Hirsch, Henry and B. L., to Kellogg Co. Miniature toy boat. 2,777,248, 1-15-57, Cl. 46-95.
- Hirsch, Henry and B. L., to Kellogg Co. Toy diver. 2,791,062, 5-7-57, Cl. 46-92.
- Hirsch, Richard B., to The Federal Process Co. Anti-skinning agent for varnish-type coatings and joint sealing compounds. 2,805,953, 9-10-57, Cl. 106-241.
- Hirsch, Robert L., C. F. Miller, and A. Bellin, to Aerojet-General Corp. Rocket propellant charge and liner therefor. 2,780,996, 2-12-57, Cl. 102-97.
- Hirsch, Sidney: *See*—
- Utley, George D., and Hirsch. 2,808,927.
- Hirsch, Sylvan R., to Worthington Corporation. Non-pulsating check valve. 2,795,238, 6-11-57, Cl. 137-543.13.
- Hirsch, Sylvan R., to Worthington Corp. Refrigeration system. 2,813,404, 11-19-57, Cl. 62-115.
- Hirsch, Virginia J. Bird harness. 2,778,335, 1-22-57, Cl. 119-109.
- Hirschey, Malcolm: *See*—
- Alessi, Andrew J., Jr., and Hirschey. 2,818,016.
- Gottsoho, Ira S., Hirschey, and Alessi. 2,778,305.
- Hirschey, Malcolm, to Adolph Gottsoho, Inc. Printing apparatus and method. 2,788,740, 4-16-57, Cl. 101-350.
- Hirschkorn, Cyrus. Extension handle for reels. 2,793,542, 5-28-57, Cl. 74-564.
- Hirschler, Daniel A., Jr., to Ethyl Corp. Lubricant compositions. 2,777,820, 1-15-57, Cl. 252-59.
- Hirschmann, Jack B., Goggles. 2,804,623, 9-3-57, Cl. 2-14.
- Hirschmann, Ralph F., N. L. Wendler, and W. V. Ruyle, to Merck & Co., Inc. 3 β -oxy- Δ^4 -allopregnenedione-11,20 and process. 2,779,774, 1-29-57, Cl. 260-397.45.
- Hirschmann, Ralph F., N. L. Wendler, and R. Miller, to Merck & Co., Inc. Purification of vitamin K₁. 2,781,363, 2-12-57, Cl. 260-396.
- Hirschson, Richard. Machine for the automatic moulding and automatic delivery of ice cream. 2,778,321, 1-22-57, Cl. 107-1.
- Hirsh, Curt W.: *See*—
- Crawford, Duffer B., and Hirsch. 2,781,270.
- Hirsh, Donald H.: *See*—
- Hoaglin, Raymond L., and Hirsh. 2,778,856.
- Hirsh, S. A., Mfg. Co.: *See*—
- Ferdinand, Jerome. 2,813,359.
- Hirshstein, Joseph, to R. R. Newman. Grease and oil interceptor. 2,776,054, 1-1-57, Cl. 210-56.
- Hirst, Archie J.: *See*—
- Stubbings, John E., and Hirst. 2,801,552.
- Hirst, Archie J., to Metalastik Ltd. Resilient suspensions for vehicle axle boxes or casings. 2,782,026, 2-19-57, Cl. 267-3.
- Hirst, Archie J., to Metalastik Ltd. Torque transmission couplings. 2,791,893, 5-14-57, Cl. 64-11.
- Hirst, Archie J., to Metalastik Ltd. Resilient mounting for rail and like vehicles. 2,802,662, 8-13-57, Cl. 267-3.
- Hirst, Archie J., to Metalastik Ltd. Resilient mountings. 2,812,175, 11-5-57, Cl. 267-63.
- Hirst, Archie J., and R. N. Chambers; said Hirst assor. to Metalastik Ltd. Resilient suspension of engines. 2,794,610, 6-4-57, Cl. 248-10.
- Hirst, Arthur A., to The National Coal Board. Coal cleaning. 2,778,496, 1-22-57, Cl. 209-13.
- Hirst, Arthur A., to Coal Industry (Patents) Ltd. Washer devices for coal or other granular material. 2,789,568, 4-23-57, Cl. 134-56.
- Hirt, Gerald E.: *See*—
- Kroeger, William J., and Hirt. 2,800,081.
- Hirt, Gerald E., to Talco Engineering Co., Inc. Ejection seat thruster. 2,815,008, 12-3-57, Cl. 123-24.
- Hirt, Raymond. Picture frame hanger. 2,791,388, 5-7-57, Cl. 248-31.
- Hirstenstein, Robert E. Model railroad track construction. 2,811,315, 10-29-57, Cl. 238-10.
- Hirstenstein, Robert E. Toy train switch. 2,815,185, 12-3-57, Cl. 246-419.
- Hirstensteiner, Walter E.: *See*—
- Mason, Vayne V., Mayhew, Schroeder, and Hirstensteiner. 2,786,399.
- Hirtreiter, Walter J., D. V. Kelly, and A. L. Pulley, to the United States of America as represented by the Secretary of the Air Force. Pressure pick-up differential-type acceleration-free. 2,808,545, 10-1-57, Cl. 317-246.
- Hirtz, John F.: *See*—
- Jaye, Richard C., and Hirtz. 2,808,047.
- Hirvonen, Eric J., to Leland-Gifford Co. Brake or stop mechanism. 2,781,672, 2-19-57, Cl. 74-531.
- Hirvonen, Kenneth R. Holder for photoprints and the like. 2,816,376, 12-17-57, Cl. 40-16.
- Hiser, Wilber F.: *See*—
- Ilfrey, William T., and Hiser. 2,791,277.
- Hiserman, Russell L., Jr., to the United States of America as represented by the Secretary of the Navy. High velocity hot air dryer assembly. 2,803,890, 8-27-57, Cl. 34-160.
- Hi-Shear Rivet Tool Co.: *See*—
- Wing, George S. 2,785,593.
- Wing, George S., and Cessna. 2,792,039.
- Wing, George S., and Tauscher. 2,789,619.
- Hiskey, Clarence F., and D. T. Vier, to the United States of America as represented by the United States Atomic Energy Commission. Corrosion inhibitors for deuterium exchange process. 2,776,263, 1-1-57, Cl. 252-390.
- Hisle, James M., to Visumatic Timer Co. Starting mechanism. 2,787,738, 4-2-57, Cl. 317-130.
- Hisle, William H., to American Chrome Co. Automatic control for maintaining constant density in hydraulic classifier. 2,811,257, 10-29-57, Cl. 209-500.
- Hisiop, Arthur Q., and W. Q. Leysath, to International Telephone and Telegraph Corp. Stroboscopic device. 2,802,145, 8-6-57, Cl. 315-163.
- "Hispano Suiza (Suisse)," S. A.: *See*—
- Birkigt, Louis. 2,788,633.
- Hitch, Frederick J. Stamping device. 2,797,639, 7-2-57, Cl. 101-333.
- Hitchcock, Forest B., to General Railway Signal Co. Railway track circuit. 2,812,425, 11-5-57, Cl. 246-41.
- Hitchcock, Frank G.: *See*—
- Kofahl, David C., and Hitchcock. 2,803,856.
- Hitchcock, John H., and E. S. Murrah, to Morgan Construction Co. Shearing apparatus. 2,804,925, 9-3-57, Cl. 164-66.
- Hitchings, George H.: *See*—
- Falco, Elvira A., Elion, and Hitchings. 2,807,616.
- Hitchings, George H., and G. B. Elion, to Burroughs Wellcome & Co. (U. S. A.) Inc. Method of making 6-mercaptopurine. 2,800,473, 7-23-57, Cl. 260-252.
- Hitchings, George H., and G. B. Elion, to Burroughs Wellcome & Co. (U. S. A.) Inc. Novel 6-chloropurine compounds and method of preparing them. 2,815,346, 12-3-57, Cl. 260-254.
- Hittie, Herbert W., and W. H. Dearborn, Jr., to Radio Corp. of America. Taping machine. 2,781,932, 2-19-57, Cl. 216-9.
- Hitz, Luin K. Garment form and pressing apparatus. 2,788,162, 4-9-57, Cl. 223-57.
- Hivac Ltd.: *See*—
- Lodge, Dennis, Thompson, and Storey. 2,815,470.
- Hixon, Frank R. Two way, wall mounted fire hose nozzle. 2,807,479, 9-24-57, Cl. 285-64.
- Hixson, Roy N., and C. P. Croco, to Westinghouse Electric Corp. Control apparatus for starting two motors. 2,809,334, 10-8-57, Cl. 318-91.
- Hjellnes, Kristoffer. Practice grenade. 2,817,294, 12-24-57, Cl. 102-33.
- Hjermstad, Hans U.: *See*—
- Nelson, Martin L., Kopp, and Hjermstad. 2,776,570.
- Hjermstad, Hans U., to Sola Electric Co. Power supply apparatus. 2,804,588, 8-27-57, Cl. 321-16.
- Hjermstad, Hans U., and F. C. Elias, to Sola Electric Co. Voltage stabilizing and control apparatus. 2,801,349, 7-30-57, Cl. 307-112.
- Hjort, John, to Henry L. Hanson Co. Belt connection. 2,814,845, 12-3-57, Cl. 24-33.
- Hjulian, Julius A., to Crane Co. Tank filling valve. 2,780,239, 2-5-57, Cl. 137-416.
- Hjulian, Julius A., to Crane Co. Apparatus for forming a continuous rod of compressible material. 2,784,453, 3-12-57, Cl. 18-12.
- Hlavacek, Robert J., to Swift & Co. Defoaming composition and process. 2,809,168, 10-8-57, Cl. 252-321.
- Hlinsky, Emil J., to Goodman Mfg. Co. Boring type miner having adjustable upper and lower guides for cusp cutting means. 2,815,196, 12-3-57, Cl. 262-7.
- Hlinsky, Emil J., and J. Kerlovsky, to Goodman Mfg. Co. Crawler speed indicator. 2,808,118, 10-1-57, Cl. 180-9.1.
- Hlobil, Frantisek, to General Shoe Machinery Corp. Nailing machine. 2,790,971, 5-7-57, Cl. 1-32.
- Hnat, Stephen: *See*—
- Luhn, Hans P., and Hnat. 2,778,567.
- Hnilicka, Milo P., Jr., to National Research Corp. Electric induction furnace. 2,803,639, 8-20-57, Cl. 13-27.
- Hnilicka, Miloslav P., to Amoco Chemicals Corp. Recovery of krypton and xenon. 2,793,507, 5-28-57, Cl. 62-122.
- Hoad, William C. Erosion preventive device. 2,803,113, 8-20-57, Cl. 61-4.
- Hoag, Charles R., to Flexi-Mat Corp. Golf practice mat. 2,790,640, 4-30-57, Cl. 273-33.
- Hoag, John H., to United States Steel Corp. Apparatus for helically striping an elongated cylindrical article. 2,800,871, 7-30-57, Cl. 118-3.
- Hoag, Lehman E.: *See*—
- Kaercher, Ralph W., and Hoag. 2,797,023.
- Hoag, Roderick W. Single use flexible container device. 2,779,462, 1-29-57, Cl. 206-46.
- Hoag, Roderick W. Packet container. 2,784,896, 3-12-57, Cl. 229-23.
- Hoagg, Donald D., to General Motors Corp. Steering wheel. 2,814,211, 11-26-57, Cl. 74-552.
- Hoagland, Earl J., to Standard Safety Equipment Co. Die. 2,806,116, 9-10-57, Cl. 219-10.53.
- Hoagland, Kenneth, to Allen B. Du Mont Laboratories, Inc. Cathode ray tube. 2,803,768, 8-20-57, Cl. 313-70.
- Hoagland, Kenneth A. Restraining cradle for horses. 2,816,525, 12-17-57, Cl. 119-137.
- Hoagland, William F., and R. E. Doty. Pastry cutting machine. 2,802,431, 8-13-57, Cl. 107-21.
- Hoaglin, Raymond L., and D. H. Hirsh, to Union Carbide and Carbon Corp. Reaction of acetals and alkylene oxides. 2,778,856, 1-22-57, Cl. 260-615.

- Hoalst, Kay M.: *See*—
Koda, Nobuo J., and Hoalst. 2,790,228.
- Hoar, Roger S.: *See*—
Pennington, Neal A. 2,792,071.
Pennington, Neal A. 2,807,258.
- Hoar, Stedman B.: *See*—
Hoyt, Karl R. 2,786,386.
Hoyt, Karl R. 2,809,232.
- Hoare, Arthur. Edge filter with cleaning means. 2,814,389, 11-26-57, Cl. 210-357.
- Hoare, Michael F., to Esso Research and Engineering Co. Process for the extraction of mineral oil contaminants from synthetic lubricants. 2,785,194, 3-12-57, Cl. 260-485.
- Hoatson, James R.: *See*—
Rosenwald, Robert H., and Hoatson. 2,779,789.
- Hoatson, James R., and R. H. Rosenwald, to Universal Oil Products Co. Dealkylation of 2,5-tert-alkylphenols. 2,792,427, 5-14-57, Cl. 260-613.
- Hoban, Fairfield W. Coin director. 2,782,984, 2-26-57, Cl. 232-57.5.
- Hoban, John T., to General Motors Corp. Rebound bumper. 2,817,510, 12-24-57, Cl. 267-63.
- Hobar, Inc.: *See*—
Baril, Samuel J., and Stein. 2,782,482.
- Hobart Brothers Co., The: *See*—
Bryan, Henry B. 2,805,971.
Hobart, Edward A. 2,780,356.
Hobart, Edward A., Blankenbuehler, and Schober. 2,802,981.
- Hobart, Edward A., to The Hobart Brothers Co. Apparatus for separating minerals from sand. 2,780,356, 2-5-57, Cl. 209-443.
- Hobart, Edward A., J. H. Blankenbuehler, and W. R. Schober, to The Hobart Brothers Co. Transformer welder with electrically adjustable leakage. 2,802,981, 8-13-57, Cl. 323-56.
- Hobart Mfg. Co., The: *See*—
Biebel, Lawrence B. 2,803,448.
Fox, Gerald B., and Glezen. 2,804,213.
- Hobbs, Charles C., Jr.: *See*—
MacLean, Alexander F., and Hobbs. 2,780,627.
- Hobbs, Charles F. Radio frequency multiplexing. 2,802,208, 8-6-57, Cl. 343-176.
- Hobbs, Clement P. Vacuum tree leaf collection unit. 2,803,847, 8-27-57, Cl. 15-314.
- Hobbs, Clement P. Keyless can opener. 2,813,654, 11-19-57, Cl. 220-52.
- Hobbs, Gordon A. Ornamental collar stay. 2,795,795, 6-18-57, Cl. 2-132.
- Hobbs, Guy T. Corner bracket. 2,787,037, 4-2-57, Cl. 20-92.5.
- Hobbs, Howard H., to Food Machinery and Chemical Corp. Liquid valve. 2,806,671, 9-17-57, Cl. 251-72.
- Hobbs, Howard H., to Food Machinery and Chemical Corp. Self-positioning cage door. 2,813,508, 11-19-57, Cl. 119-17.
- Hobbs, James C. Pressure sealed joint. 2,783,912, 3-5-57, Cl. 220-46.
- Hobbs, James C. Gate valve. 2,797,063, 6-25-57, Cl. 251-327.
- Hobbs, John. Water heater and steam boiler system. 2,804,057, 8-27-57, Cl. 122-20.
- Hobbs, John F., and N. B. Muir, to Imperial Chemical Industries Ltd. Apparatus for the continuous casting of metals. 2,781,562, 2-19-57, Cl. 22-57.2.
- Hobbs, Kenneth C., to Corn Products Refining Co. Process for the production of starch ethers. 2,801,241, 7-30-57, Cl. 260-233.3.
- Hobbs, Linder C.: *See*—
Crooks, Horatio N., Hobbs, and Kaelin. 2,785,305.
- Hobbs, Linder C., to Radio Corp. of America. Comparator system for two variable length items. 2,785,856, 3-19-57, Cl. 235-61.
- Hobbs, Linder C., to the United States of America as represented by the Secretary of the Navy. Voltage modifying network. 2,807,750, 9-24-57, Cl. 315-24.
- Hobbs, Oscar K. Holder for writing pad. 2,776,149, 1-1-57, Cl. 281-15.
- Hobday, Harold W., to Gurries Mfg. Co. Finish leveler. 2,792,651, 5-21-57, Cl. 37-180.
- Höbenreich, Josef and O. Kamerhofer, to Oesterreichisch-Alpine Montangesellschaft. Steelmaking plant. 2,799,492, 7-16-57, Cl. 266-13.
- Hobrock, Raymond H., to Bundy Tubing Co. Method of making tube. 2,816,356, 12-17-57, Cl. 29-477.7.
- Hobson, Charles F., Jr.: *See*—
Page, Robert G., and Hobson. 2,802,922.
- Hobson, H. M., Ltd.: *See*—
Greenland, Leonard S. 2,804,084.
Greenland, Leonard S., Westbury, and Smith. 2,783,006.
Greenland, Leonard S., Westbury, and Smith. 2,788,185.
Smith, Charles P. 2,803,111.
- Hobson, Lawrence B., to Olin Mathieson Chemical Corp. Streptomycin plus dihydrostreptomycin compositions. 2,798,834, 7-9-57, Cl. 167-65.
- Hobson, Thomas K.: *See*—
Herman, William P., and Hobson. 2,814,789.
- Hoch, John R. Lawn mower attachment with rotary disc cutter. 2,775,856, 1-1-57, Cl. 56-25.4.
- Hochberg, Melvin, and M. J. MacMillan, to Nopco Chemical Co. Vitamin products. 2,777,797, 1-15-57, Cl. 167-81.
- Hochberg, Melvin, and M. J. MacMillan, to Nopco Chemical Co. Stable fat-soluble vitamin-containing composition. 2,777,798, 1-15-57, Cl. 167-81.
- Hochman, Julius C. Loom. 2,776,675, 1-8-57, Cl. 139-11.
- Hochman, Julius C. Duplicating ribbon attachment. 2,811,237, 10-29-57, Cl. 197-153.
- Hochmuth, Frank W., to Combustion Engineering, Inc. Method of operating a chemical recovery smelter furnace. 2,789,881, 4-23-57, Cl. 23-48.
- Hochner, Sydney V.: *See*—
Ziegler, Peter, and Hochner. 2,781,364.
- Hockensmith, John L. Adjustable headrest. 2,817,857, 12-31-57, Cl. 5-341.
- Hocker, O. G.: *See*—
Painter, Virgil E. 2,793,838.
- Hocker, Thomas: *See*—
Painter, Virgil E. 2,793,838.
- Hockert, Chester E., to General Motors Corp. Turbine wheel and bucket assembly. 2,807,436, 9-24-57, Cl. 253-77.
- Hockery, John C.: *See*—
Grant, Albert E. 2,806,280.
Landry, William J. 2,804,682.
McLean, Robert E. 2,814,103.
- Hockett, Carl G., to Fram Corp. Apparatus for pleating and heat-treating paper. 2,788,841, 4-16-57, Cl. 154-30.
- Hockett, Sebern W.: *See*—
Bonewitz, Paul W., Edwards, Fuets, and Hockett. 2,804,432.
- Hockley, Roscoe L. Gun rest. 2,814,887, 12-3-57, Cl. 36-1.
- Hodapp, Armand E., to Chicago Carton Co. Carrying carton. 2,783,916, 3-5-57, Cl. 220-113.
- Hoddevik, Jonas K. Retractable caster. 2,779,049, 1-29-57, Cl. 16-34.
- Hodel, Hans. Elastic spikes for securing railroad tracks. 2,780,416, 2-5-57, Cl. 238-349.
- Hodes-Lang, Corp.: *See*—
Lange, Richard, Jr. 2,814,575.
- Hodgdon, Frank B., and H. B. Vincent, to Owens-Illinois Glass Co. High frequency electrode. 2,811,576, 10-29-57, Cl. 174-167.
- Hodge, Arthur: *See*—
Downing, John, Hodge, and Drewitt. 2,781,243.
Downing, John, Hodge, and Drewitt. 2,785,044.
Wheatley, Edward W., Hodge, and Fisher. 2,806,010.
- Hodge, Bartow: *See*—
Lanneau, Keith P., and Hodge. 2,780,131.
- Hodge, Edward B., to Commercial Solvents Corp. 1,2-dihalo-genopropiono-hydroxamic acid and process for producing same. 2,803,649, 8-20-57, Cl. 260-500.
- Hodge, Edward B., and G. J. Lafferty, to Commercial Solvents Corp. Zinc bacitracin-containing troche. 2,803,584, 8-20-57, Cl. 167-65.
- Hodge, Howard M.: *See*—
Hanson, Charles T., and Hodge. 2,785,068.
- Hodge, James, and O. F. H. Borley, to Power Jets (Research & Development) Ltd. Gas turbine plant and control arrangements therefor. 2,811,302, 10-29-57, Cl. 230-116.
- Hodge, John E., and C. D. Evans, to United States of America as represented by the Secretary of Agriculture. Stabilization of oil-containing compositions with reductones. 2,806,794, 9-17-57, Cl. 99-163.
- Hodge, John M., and J. M. Wandrisco, to United States Steel Corp. Wrought railroad wheels made of alloy steels. 2,798,805, 7-9-57, Cl. 75-123.
- Hodge, Kenneth S. Soap measuring device. 2,793,789, 5-28-57, Cl. 222-47.
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- Hodges, Fridolin A., and J. W. Waber. Pressure sealing and excessive pressure relieving closure cap for containers. 2,790,570, 4-30-57, Cl. 215-56.
- Hodges, Hiram M., 50% to E. Beaty. Vendible commodity package. 2,777,769, 1-15-57, Cl. 99-172.
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- Hodges, Leonard S., to Massey-Harris-Ferguson (Sales) Ltd. Spraying system with drip preventing means. 2,800,365, 7-23-57, Cl. 299-50.
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Williams, Beverly E. 2,816,836.
- Hodges, Samuel G. Food service window. 2,802,246, 8-13-57, Cl. 20-52.
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- Hodges, William C., and A. L. Robb, to Hodges Research and Development Co. Bridging elements. 2,779,958, 2-5-57, Cl. 14-72.
- Hodgins, Theodore S.: *See*—
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- Hodgson, Glen R., to Borg-Warner Corp. Shaped explosive charge apparatus with adjustable charge spacing. 2,811,921, 11-5-57, Cl. 102-20.
- Hodgson, Grant B.: *See*—
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- Hodgson, Howard E., to Cutler-Hammer, Inc. Lifting magnets. 2,810,868, 10-22-57, Cl. 317-158.

- Hodgson, Robert F., to The New York Air Brake Co. Stabilizing means for high pressure hydraulic valves of the plunger type. 2,812,775, 11-12-57, Cl. 137-620.
- Hodgson, Sherman G. Diaper rinser. 2,808,594, 10-8-57, Cl. 4-1.
- Hodler, Fritz. Apparatus for the automatic expulsion of air from the die-cavity of hot and cold chamber die-casting machines. 2,785,448, 3-19-57, Cl. 22-68.
- Hodos, Frank. Apparatus for parking automobiles. 2,817,446, 12-24-57, Cl. 214-16.1.
- Hodos, Howard C.: See—
- Crisafulli, Angelo J. 2,805,793.
- Hodsdon, Floyd G., to International Harvester Co. Milk strainer for parlor milkers. 2,818,178, 12-31-57, Cl. 210-445.
- Hodson, Waldo G., W. E. Peterson, H. H. Kenkel, J. J. Hagopian, and S. R. Hennies, to Northrop Aircraft, Inc. Incremental remote radio control system. 2,816,720, 12-17-57, Cl. 244-14.
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- Dressel, Arthur, and Worthington. 2,813,713.
- Harless, Charles A. 2,811,919.
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- Hoebing, Ansel Z. Wind oriented cattle feeder. 2,789,532, 4-23-57, Cl. 119-51.
- Hoecker, Albert C., to General Electric Co. Steam iron. 2,794,275, 6-4-57, Cl. 38-77.
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- Hoedlinghaus, George E., R. G. Sanders, and H. Ulmer, to Technibilt Corp. Nesting market cart with child's seat. 2,813,725, 11-19-57, Cl. 280-33.99.
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- Van Dijk, Johannes H. J., Hoefkens, and Schepman. 2,789,318.
- Hoeflich, Edward L., to The Tappan Stove Co. Electric heating unit for cooking ranges. 2,813,188, 11-12-57, Cl. 219-37.
- Hoeflich, Victor T. Snapping motto or cracker. 2,787,862, 4-9-57, Cl. 46-1.
- Hoeganaes Sponge Iron Corp.: See—
- Sieurin, Sven E., and Olsson. 2,797,157.
- Hoeh, Earl A., to Crane Co. Valve closure member. 2,788,570, 4-16-57, Cl. 29-157.1.
- Hoehn, John J., and F. B. Hills, to Radio Corp. of America. Magnetic recording and reproducing apparatus. 2,782,263, 2-19-57, Cl. 179-100.2.
- Hoehn, Willard M.: See—
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- Hoehn, Willard M., to G. D. Searle & Co. 6-hydroxyacyl-1,4a-dimethyl-7-isopropyl-1,2,3,4,4a,9,10,10a-octahydrophenanthrene-1-carbonitriles and esters thereof. 2,781,394, 2-12-57, Cl. 260-464.
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- Hoekema, Roy P.: See—
- Phillips, Vernon B., Everett, and Hoekema. 2,808,791.
- Hoekje, Howard H., to Columbia-Southern Chemical Corp. Well drilling composition and method of manufacture thereof. 2,783,122, 2-26-57, Cl. 8-94.32.
- Hoekje, Howard H., to Columbia-Southern Chemical Corp. Method of making barium peroxide. 2,805,128, 9-3-57, Cl. 23-187.
- Hoeksema, Herman, and L. E. Rhuland, to The Upjohn Co. Process for producing erythromycin. 2,808,363, 10-1-57, Cl. 195-80.
- Hoeksema, Herman, and L. E. Rhuland, to The Upjohn Co. Employment of amide of propionic acid in production of erythromycin. 2,812,287, 11-5-57, Cl. 195-80.
- Hoekstra, Piet, to North American Philips Co., Inc. Rotary pump. 2,808,780, 10-8-57, Cl. 103-3.
- Hoelscher, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Mixtures of a hard styrene polymer and a copolymer of butadiene with fumaric acid di-n-butyl ester and shaped articles made from such mixtures. 2,789,961, 4-23-57, Cl. 260-45.5.
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- Hoelscher, William G., to The American Tool Works Co. Self-equalizing head clamping mechanism. 2,817,982, 12-31-57, Cl. 77-28.
- Hoeltje, Fred W., to General Motors Corp. Centrifugal breather. 2,779,435, 1-29-57, Cl. 183-77.
- Hoenecke, Walter J. Pneumatically operated diaphragm pump. 2,780,177, 2-5-57, Cl. 103-150.
- Hoener, Henry C.: See—
- Claus, Paul E., and Hoener. 2,801,507.
- Hoenicke, Heinrich. Arrangements for sealing windows, doors or the like. 2,804,658, 9-3-57, Cl. 20-40.
- Hoepfner, Martin F., to Burroughs Corp. Mechanical bi-stable devices. 2,802,365, 8-13-57, Cl. 74-100.
- Hoepfner, Conrad H., to Datamatic Corp. Machine control record. 2,779,540, 1-29-57, Cl. 235-61.12.
- Hoepfner, Conrad H., and C. H. Smith, Jr. Pulse width discriminator. 2,777,947, 1-15-57, Cl. 250-27.
- Hoerbigen & Co.: See—
- Kehler, Theodor K. 2,798,505.
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- Hoesch-Westfalenhutte Aktiengesellschaft: See—
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- Hof, Zygmunt N. Automatic adjustable telephone cutout switch. 2,792,450, 5-14-57, Cl. 179-2.
- Hofacer, Simon C. Oil can drain stands. 2,781,065, 2-12-57, Cl. 141-106.
- Hofer, Kurt, and H. Hemmi, to Saul & Co., as nominee of Fidelity Union Trust Co. Process for the boiling-off and bucking of cellulose fibers in aqueous alkaline solution containing R-(OC₂H₅)_n OCH₃ coom compounds. 2,802,715, 8-13-57, Cl. 8-139.
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- Hofer, Max, to Maschinenfabrik Augsburg-Nurnberg A. G. Overspeed cutoff for internal combustion engine. 2,783,753, 3-5-57, Cl. 123-198.
- Hofer, Otto. Slag-free casting method and a device for the application of this method. 2,810,169, 10-22-57, Cl. 22-79.
- Hofer, Peter, to Better Built Machinery Co. Machine for washing test tubes, bottles, receptacles, pipettes and like articles. 2,786,480, 3-26-57, Cl. 134-171.
- Hofer, Richard P.: See—
- Boden, Ernest G., and Hofer. 2,817,142.
- Hoff, Donald A., to The Warren-Teed Products Co. Dimethyl-lutethionine chloride hemostatic composition. 2,809,913, 10-15-57, Cl. 167-53.
- Hoff, Hubert, and G. Fischer, to Hoesch-Westfalenhutte Aktiengesellschaft. Method of manufacturing ribbed steel rods. 2,816,052, 12-10-57, Cl. 148-12.
- Hoff, Jean M. Method of and apparatus for recovering enriched gaseous mixtures. 2,792,903, 5-21-57, Cl. 183-2.
- Hoff, Jonathan. Bathtub chair. 2,806,226, 9-17-57, Cl. 4-185.
- Hoff, Melvern C., and K. C. Peterson, to Standard Oil Co. Separation of recovery of xylene isomers. 2,777,888, 1-15-57, Cl. 260-674.
- Hoff, Melvern C., and D. E. Burney, to Standard Oil Co. Recovery of ortho- and para-xylenes from C₈ aromatic mixtures. 2,795,634, 6-11-57, Cl. 260-674.
- Hoff, Ronald C.: See—
- Merwin, Robert F., and Hoff. 2,808,932.
- Hoffacker, Ira C., to Mount Vernon Mills, Inc. Drier felt. 2,797,713, 7-2-57, Cl. 139-411.
- Hofer, Arnold H., to General Electric Co. Electric motor control system. 2,811,685, 10-29-57, Cl. 318-355.
- Hoffer, Lawrence L. Hand needle device for threading twine through a bale or other bundle. 2,805,619, 9-10-57, Cl. 100-24.
- Hoffhines, James R., and C. C. Thomas, to Plasti-Print, Inc. Means for carrying and drying artificial flies. 2,781,606, 2-19-57, Cl. 43-57.5.
- Hoffman, Albert, Jr.: See—
- Barbour, Daniel H., and Hoffman. 2,804,339.
- Hoffman, Alfred E.: See—
- Bloch, Herman S., and Hoffman. 2,782,111.
- Hoffman, Arthur C.: See—
- Harza, Leroy F. 2,798,373.
- Hoffman, Carl H.: See—
- Holly, Frederick W., Wagner, Walton, and Hoffman. 2,809,978.
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- Hoffman, Donald B.: See—
- Weber, William C., and Hoffman. 2,795,134.
- Hoffman Electronics Corp.: See—
- Barker, John E. 2,818,480.
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- McCoy, Marcus A. 2,813,156.
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- Hoffman, Frank A., Jr.: *See*—
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- Hoffman, Frank J., Jr., to Sperry Rand Corp. Servomechanism control system. 2,789,261, 4-16-57, Cl. 318-39.
- Hoffman, George W.: *See*—
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- Hoffman, Harold. Key cutting apparatus. 2,812,816, 11-12-57, Cl. 164-50.
- Hoffman, Harold H.: *See*—
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- Hoffman, Harry and L. Toilet bowl screen. 2,785,561, 3-19-57, Cl. 68-235.
- Hoffman, Henry C., to General Motors Corp. Ring assembly machine. 2,792,625, 5-21-57, Cl. 29-453.
- Hoffman, Herbert O., and W. Wiles, to The Faultless Rubber Co. Syringe. 2,815,753, 12-10-57, Cl. 128-231.
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- Hoffman, Howard D.: *See*—
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- Hoffman, Ignace F. Apparatus for processing photographic film and the like. 2,804,003, 8-27-57, Cl. 95-90.5.
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- Hoffman, Louis: *See*—
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- Hoffman, Norman E., to AMP Inc. Electric wire connector. 2,794,964, 6-4-57, Cl. 339-276.
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- Hoffman, Richard E., and W. G. Rudy, to Radio Corp. of America. Method of processing a photosensitive mosaic electrode. 2,776,227, 1-1-57, Cl. 117-210.
- Hoffman, Richard T. Method of hydraulic dredging. 2,795,873, 6-18-57, Cl. 37-195.
- Hoffman, Roy D. Cartridge powered cow dehorner with pivoted cutter blade. 2,810,955, 10-29-57, Cl. 30-228.
- Hoffman, Roy D. Teat bistoury with improved cutter blade adjusting means. 2,816,552, 12-17-57, Cl. 128-305.
- Hoffman, Samuel. Clutch for mechanical musical instrument. 2,793,728, 5-28-57, Cl. 192-41.
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- Hoffmann, Carter H. Apparatus for heating and moistening air for food carts. 2,790,888, 4-30-57, Cl. 219-39.
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- Hoffmann, George R. Air flow control for jet propelled craft. 2,806,350, 9-17-57, Cl. 60-39.2.
- Hoffmann, Gunthard: *See*—
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- Hoffstedt, Nels P., to W. F. Stahl. Bobbin. 2,781,985, 2-19-57, Cl. 242-118.
- Hoffstetter, George O. Garbage disposal transport. 2,788,927, 4-16-57, Cl. 222-415.
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- Hofmeister, Carl R. Submerged article marker and retriever. 2,806,231, 9-17-57, Cl. 9-9.
- Hofmeister, Maurice H., to Bell & Gossett Co. Heat exchanger. 2,802,629, 8-13-57, Cl. 237-19.
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- Hofstetter, Emil: *See*—
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- Hogan, Raymond C., to Kaiser Aluminum & Chemical Corp. Reel lagging. 2,818,170, 12-31-57, Cl. 206-59.
- Hogan, Robert J., and L. E. Gardner, to Phillips Petroleum Co. Two-step process for the selective removal of acetylene from olefin and/or diolefin containing hydrocarbon streams. 2,814,653, 11-26-57, Cl. 260-677.
- Hogan, Thomas, Jr.: *See*—
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- Hogan, Walter H., to The Cleveland Pneumatic Tool Co. Hydraulic steering mechanism for aircraft landing gear. 2,779,556, 1-29-57, Cl. 244-50.
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- Bouwman, Haye, Hecq, and Hogendijk. 2,814,020.
- Hogensen, Emory N. Magnetic window washing apparatus. 2,805,438, 9-10-57, Cl. 15-220.
- Hogg, James N., and A. J. D'Addario. Switches for automotive vehicles. 2,794,089, 5-28-57, Cl. 200-85.
- Hogg, John A.: See—
- Campbell, J. Allan, Babcock, and Hogg. 2,818,408.
- Fonken, Gunther S., and Hogg. 2,776,967.
- Jackson, Robert W., and Hogg. 2,799,688.
- Korman, Jerome, and Hogg. 2,793,208.
- Lincoln, Frank H., Jr., and Hogg. 2,813,860.
- Magerlein, Barney J., and Hogg. 2,781,343.
- Nathan, Alan H., and Hogg. 2,784,190.
- Hogg, John A., P. F. Beal, III, A. H. Nathan, and F. H. Lincoln, Jr., to The Upjohn Co. Steroid production. 2,790,814, 4-30-57, Cl. 260-397.1.
- Hogg, John A., P. F. Beal, and F. H. Lincoln, Jr., to The Upjohn Co. Organic compounds and process. 2,813,111, 11-12-57, Cl. 260-397.45.
- Hogg, John G. E.: See—
- Korienek, Stephen J. 2,776,590.
- Hoggan, Lee W.: See—
- Orsatti, Ernest R. 2,798,147.
- Hoglan, Forest A., to International Minerals & Chemical Corp. Auto hydrolysis of barium filtrate. 2,799,704, 7-16-57, Cl. 260-527.
- Hoglan, Forest A., to International Minerals & Chemical Corp. Production of pyrrolidone carboxylic acid. 2,806,855, 9-17-57, Cl. 260-326.3.
- Hoglan, Forest A., and M. J. Blish, to International Minerals & Chemical Corp. Treatment of waste liquors from beet sugar molasses. 2,789,135, 4-16-57, Cl. 260-527.
- Höglund, Stig P. G.: See—
- Haglund, Didrik W., and Höglund. 2,777,672.
- Hogsett, John N., to Union Carbide and Carbon Corp. Complexes of 2-heptadecylimidazolines. 2,789,115, 4-16-57, Cl. 260-299.
- Hogue, Benton, and J. K. McAlpine. Shears. 2,816,359, 12-17-57, Cl. 30-239.
- Hogue, Walter S.: See—
- Berger, Carl, and Hogue. 2,792,386.
- Berger, Carl, and Hogue. 2,792,387.
- Höheisel, Louis. Power operated, end thrust finishing cutter. 2,805,695, 9-10-57, Cl. 144-219.
- Hobinz, Conrad: See—
- Fortress, Fred, Hohing, and Kip. 2,805,992.
- Hohl, John, to Owens-Illinois Glass Co. Ring gasket cutting machine. 2,785,750, 3-19-57, Cl. 164-61.
- Hohl, John, to Owens-Illinois Glass Co. Method and apparatus for loading elastic tubes on mandrels. 2,813,331, 11-19-57, Cl. 29-450.
- Hohl, John, to Owens-Illinois Glass Co. Tube cutting machine. 2,813,582, 11-19-57, Cl. 164-69.
- Hohl, John, and F. G. Pellett, to Owens-Illinois Glass Co. Closures for glass containers and method of application. 2,783,597, 3-5-57, Cl. 53-16.
- Hohman Plating & Mfg. Inc.: See—
- Hardoen, Robert H. 2,812,298.
- Hohman, William. Therapeutic apparatus. 2,793,372, 5-28-57, Cl. 4-178.
- Hohmann, Bernhard A., to the United States of America as represented by the Secretary of the Air Force. Valved pipe joint equipment for refuelling an aircraft in flight. 2,803,473, 8-20-57, Cl. 284-18.
- Hohmann, Bernhard A. Coupling apparatus for fighter aircraft. 2,809,792, 10-15-57, Cl. 244-3.
- Hohn, Hans, E. Fitzer, and H. Müller, to Siemens & Halske Gesellschaft m. b. H. Process for heat-treating metals in a space containing a non-oxidizing protective gas atmosphere. 2,810,667, 10-22-57, Cl. 148-13.1.
- Hohner, Matthias, Aktiengesellschaft: See—
- Bierl, Richard. 2,786,941.
- Hohnstein, Paul J. Gate for irrigation pipe. 2,777,462, 1-15-57, Cl. 137-315.
- Hohnstein, Paul J. Gate or valve for an irrigation pipe line. 2,784,558, 3-12-57, Cl. 61-28.
- Hohwart, Ernest F.: See—
- Hohwart, George and E. F. 2,777,701.
- Hohwart, George and E. F. 2,803,159.
- Hohwart, George and E. F. 2,817,532.
- Hohwart, George and E. F., to N. A. Woodworth Co. Expansion arbor. 2,777,701, 1-15-57, Cl. 279-2.
- Hohwart, George and E. F., to N. A. Woodworth Co. Arbor. 2,803,159, 8-20-57, Cl. 82-43.
- Hohwart, George and E. F., to N. A. Woodworth Co. Expansion arbor with inclined flats. 2,817,532, 12-24-57, Cl. 279-2.
- Hoisington, Richard L.: See—
- Hoffman, Paul R., and Hoisington. 2,816,759.
- Hoiss, Anton. Hydraulic log-peeler having a bark-slitting nozzle and a bank of bark-removing nozzles. 2,809,683, 10-15-57, Cl. 144-208.
- Hoistad, Oscar O. Automatic fence post planter. 2,776,110, 1-1-57, Cl. 254-29.
- Hoitt, Robert W., to Nashua Corp. Tape dispenser and cutter mechanism therefor. 2,810,437, 10-22-57, Cl. 164-49.
- Højberg, Laurencio B. Rotary pump. 2,782,725, 2-26-57, Cl. 103-137.
- Hoke, Harry H., Jr. Submarine escape apparatus. 2,801,605, 8-6-57, Cl. 114-16.7.
- Hoke, Harry H., Jr. Apparatus for stabilizing and maneuvering submarines. 2,806,441, 9-17-57, Cl. 114-16.
- Hoke, Howard L.: See—
- Risley, Roger E., and Hoke. 2,790,652.
- Hoke Inc.: See—
- Teeters, Wilbur O. 2,807,388.
- Hoke Oil & Fertilizer Co.: See—
- Upchurch, Lewis M. 2,780,476.
- Hokkanen, Lauri, to O. W. Siebert Co. Crossbar attachment for bicycles. 2,804,310, 8-27-57, Cl. 280-7.11.
- Holahan, Eugene V.: See—
- Bergman, Arthur C., and Holahan. 2,803,503.
- Holan, J. H., Corp.: See—
- Troche, Herman J. 2,790,586.
- Holbert, Don R., to Sinclair Oil & Gas Co. Apparatus for use in locating interface of liquids. 2,776,563, 1-8-57, Cl. 73-151.
- Holbro, Theodor, to Ciba Ltd. New anthraquinone vat dyes. 2,778,837, 1-22-57, Cl. 260-316.
- Holbro, Theodor, and W. Kern, to Ciba Ltd. Anthraquinone vat dyestuffs. 2,792,384, 5-14-57, Cl. 260-157.
- Holbro, Theodor, and W. Kern, to Ciba Ltd. Anthraquinone vat dyestuffs. 2,807,622, 9-24-57, Cl. 260-307.5.
- Holbrook, Darrel W.: See—
- Bateman, George H., Freeman, and Holbrook. Re. 24,320.
- Holbrook, John K.: See—
- Tate, Henry C. 2,814,313.
- Holbrook, Orrin C.: See—
- Sayre, Allyn T., Jr., and Holbrook. 2,796,936.
- Sayre, Allyn T., Jr., Hutchings, and Holbrook. 2,801,699.
- Holbrook, Orrin C., to The Pure Oil Co. Selective treatment of geological formations. 2,787,325, 4-2-57, Cl. 166-22.
- Holbrook, Orrin C., to The Pure Oil Co. Process for acidizing injection wells. 2,804,145, 8-27-57, Cl. 166-10.
- Holcomb, Stanley W.: See—
- Halus, Michael N., and Holcomb. 2,793,324.
- Holcomb, Walter F.: See—
- Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb. Re. 24,265.
- Holeroff & Co.: See—
- Martin, Clarence H. 2,780,454.
- Holdaway, James L., and S. C. Nelson, to American Viscose Corp. Method and apparatus for forming continuous strips of sheet material from tubing. 2,779,973, 2-5-57, Cl. 18-47.5.
- Holdaway, Vivian L., to Bell Telephone Laboratories, Inc. Method of preparing cathodes for discharge devices. 2,785,093, 3-12-57, Cl. 117-201.
- Holden, Abe N., J. E. Burke, M. B. Reynolds, and J. S. Lukesh, to General Electric Co. Reflection X-ray diffraction apparatus and method. 2,798,957, 7-9-57, Cl. 250-53.
- Holden, Donald L., to Universal Oil Products Co. Manufacture of purification catalysts. 2,813,837, 11-19-57, Cl. 252-465.
- Holden, Elmer H. Dual hitch disk plow. 2,800,848, 7-30-57, Cl. 97-47.62.
- Holden, William H. T., to Bell Telephone Laboratories, Inc. Cold cathode tube circuit. 2,797,368, 6-25-57, Cl. 315-168.
- Holder, Clinton H.: See—
- Felix, Jams R., Long, Holder, and Saxton. 2,791,537.
- Holder, Clinton H., R. L. Weeks, and W. T. Knox, Jr., to Esso Research and Engineering Co. Low sulfur, mineral base lubricating oils and methods for using same. 2,779,317, 1-29-57, Cl. 123-1.
- Holderness, Harold J., and F. O. Alm, to Ford Motor Co. Spring seat construction. 2,789,627, 4-23-57, Cl. 155-179.
- Holdgate, John C.: See—
- Major, Seeley L., and Lippiatt. 2,800,336.
- Holding Intercito S. A.: See—
- Rubli, Max. 2,796,166.
- Holdstock, Norman G., to General Electric Co. Method for preparing chlorophenylchlorosilanes. 2,803,638, 8-20-57, Cl. 260-448.2.
- Holdsworth, Ernest C.: See—
- Milner, David W., and Holdsworth. 2,807,641.
- Holes, Floyd A., to The Dobeckmun Co. Apparatus for treating webs. 2,800,725, 7-30-57, Cl. 34-152.

- Holiday, Everett C. Work holding fixture. 2,787,825, 4-9-57, Cl. 29-286.
- Holiday Line, Inc., The: See—
Rosenberg, David, and Miranda. 2,803,023.
- Holik, Ludmilla, and H. Nowotny, to International Standard Electric Corp. Electrolytic condensers. 2,806,982, 9-17-57, Cl. 317-230.
- Holin, William F., to General Motors Corp. Slack adjusting connection. 2,781,872, 2-19-57, Cl. 188-202.
- Holin, William F., to General Motors Corp. Railway vehicle anti-separation means. 2,817,302, 12-24-57, Cl. 105-200.
- Hollinger, Carl J., to American Cyanamid Co. Gas loaded safety disks. 2,788,794, 4-16-57, Cl. 137-71.
- Holkestad, Helge P.: See—
Seymour, George W., Wayman, and Holkestad. 2,789,902.
- Holl, James W. F. Two stage variable delivery vane-type pump. 2,790,391, 4-30-57, Cl. 103-5.
- Holl, James W. F. Governing means for throttle valves. 2,815,739, 12-10-57, Cl. 123-41.15.
- Holladay, Forrest E., to Holladay Tool Research. Surf float. 2,816,299, 12-17-57, Cl. 9-21.
- Holladay Tool Research: See—
Holladay, Forrest E. 2,816,299.
- Holland, Barbara V.: See—
Linwood, William H., and Holland. 2,784,895.
- Holland, David O., to Beecham Research Laboratories Ltd. Preparation of N-acetyltryptophan esters. 2,785,178, 3-12-57, Cl. 260-319.
- Holland, Donald O., to Raytheon Mfg. Co. High-temperature getters for electronic tubes. 2,792,517, 5-14-57, Cl. 313-174.
- Holland, Edward J., R. G. Norton, and H. Weaver. Pelletizing apparatus. 2,803,038, 8-20-57, Cl. 18-1.
- Holland, Ernest W.: See—
Fletcher, Wendell S., and Holland. 2,798,151.
- Holland, Florence E. Food container and dispenser. 2,804,009, 8-27-57, Cl. 99-234.
- Holland Hitch Co.: See—
Geerds, Henry A. 2,776,148.
- Holland Industries, Inc.: See—
Vacanti, Frank F., Jr. 2,780,215.
- Holland, Jack W., by Ludlow Papers, Inc. Machine for laminating and reinforcing webs. Re. 24,395, 11-19-57, Cl. 154-17.
- Holland, Kenneth M., to California Reinforced Plastics Co., now by change of name to Hexcel Products Inc. Extensible zigzag pack and method of making same. 2,803,578, 8-20-57, Cl. 154-122.
- Holland, Robert B.: See—
Thompson, John W., Wilson, and Holland. 2,808,782.
- Holland, Urban C. Means for dispensing the contents of collapsible tubes. 2,780,390, 2-5-57, Cl. 222-103.
- Hollander, Harry B.: See—
Urlaub, George S. 2,778,543.
- Hollander, William L.: See—
Mayo, Payton C., and Hollander. 2,816,971.
- Hollandia Kattenburg N. V.: See—
Van Amstel, Josephus J. N. 2,797,416.
- Hollansworth, McFerrell, to McKinney Mfg. Co. Truck body door holder. 2,797,119, 6-25-57, Cl. 292-263.
- Hollansworth, McFerrell, to McKinney Mfg. Co. Motor vehicle door hinges. 2,799,042, 7-16-57, Cl. 16-142.
- Holloway, Raymond L., Jr., and B. S. Kirk, Jr., to The Ridge Tool Co. Handle. 2,815,527, 12-10-57, Cl. 16-116.
- Hollenbeck, Donald W. Sandwich cooker. 2,805,618, 9-10-57, Cl. 99-383.
- Hollenberg, Arthur V., to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,801,359, 7-30-57, Cl. 315-2.5.
- Holley Carburetor Co.: See—
Manning, William O., Jr. 2,807,449.
- Udale, Stanley M. 2,777,678.
- Udale, Stanley M. 2,787,224.
- Holley, Donald A. Automatic temperature control fluid mixing valve. 2,780,412, 2-5-57, Cl. 236-12.
- Holliday, Clyde T., to the United States of America as represented by the Secretary of the Navy. Short duration, high intensity spark gap arrangement. 2,795,738, 6-11-57, Cl. 315-188.
- Holliday, Jim B.: See—
Stokes, Richard C., III, and Holliday. 2,799,117.
- Holliday, Jim B. Clip for tobacco harvester. 2,794,537, 6-4-57, Cl. 198-179.
- Holliday, William C., Jr. Cane crutch. 2,817,348, 12-24-57, Cl. 135-47.5.
- Hollien, Richard R., and E. L. Staiger, to Millers Falls Co. Hand portable electric power unit. 2,808,085, 10-1-57, Cl. 144-35.
- Hollingshead, R. M., Corp.: See—
Lederer, Harold G. 2,786,797.
- Hollingsworth, Clinton A., to Smith-Douglass Co., Inc. Defluorination of phosphate rock. 2,778,722, 1-22-57, Cl. 71-44.
- Hollingsworth, Clinton A., to Smith-Douglass Co., Inc. Concentration of phosphatic material. 2,815,859, 12-10-57, Cl. 209-167.
- Hollingsworth, John D. Preformed end wire for card and like rolls. 2,816,325, 12-17-57, Cl. 19-112.
- Hollingsworth, Teddy E., R. C. Matter, and O. H. Smith, Jr., to General Motors Corp. Nitriding of chromium steel. 2,788,003, 3-19-57, Cl. 148-16.6.
- Hollingsworth, Vernon O. Fishing rod support. 2,803,911, 8-27-57, Cl. 43-15.
- Hollins, Jesse R. Lighting and signalling system for automotive vehicles. 2,787,779, 4-2-57, Cl. 340-81.
- Hollins, Jesse R. Thermo-electrically controlled latch. 2,789,426, 4-23-57, Cl. 70-267.
- Hollins, Jesse R. Turn signalling arrangement. 2,790,156, 4-23-57, Cl. 340-81.
- Hollins, Jesse R. Marker signal lamp. 2,794,968, 6-4-57, Cl. 340-100.
- Hollins, Jesse R. Electrical connection. 2,797,337, 6-25-57, Cl. 307-10.
- Hollins, Jesse R. Safety signalling device. 2,797,404, 6-25-57, Cl. 340-264.
- Hollins, Jesse R. Signal lamp for automotive vehicles. 2,806,937, 9-17-57, Cl. 240-8.22.
- Hollins, Jesse R. Combined automotive direction and flare signal switch involving interlocked operators. 2,812,396, 11-5-57, Cl. 200-61.35.
- Hollins, Jesse R. Vehicle lamp mounting. 2,814,667, 11-26-57, Cl. 174-138.
- Hollins, Jesse R. Vehicle lamp mounting. 2,814,668, 11-26-57, Cl. 174-138.
- Hollinshead, William H., to Control Mfg. Co. Switches. 2,792,467, 5-14-57, Cl. 200-84.
- Hollis, Charles E.: See—
Bessant, Kenneth H. C., Goodchild, Hollis, Hutchinson, and Kemp. 2,784,177.
- Hollis, Clinton R., to International Paper Co. Bag valving and sleeving machine. 2,809,569, 10-15-57, Cl. 93-8.
- Hollis, Gus O. Awning. 2,779,982, 2-5-57, Cl. 20-57.5.
- Hollis, James N. Sharpening means for jackknives and other knives. 2,791,831, 5-14-57, Cl. 30-138.
- Hollis, Robert F., to Alton Box Board Co. Box machines. 2,811,086, 10-29-57, Cl. 93-36.
- Hollister, Harry W. Stop beads in suspended ceilings. 2,802,359, 8-13-57, Cl. 72-118.
- Hollman, Peter I., to Geo. D. Roper Corp. Automatic lighting and control means. 2,779,400, 1-29-57, Cl. 158-133.
- Hollman, Peter I., and R. C. McLaughlin, to Geo. D. Roper Corp. Oven and broiler arrangement for gas stoves or ranges. 2,791,212, 5-7-57, Cl. 126-39.
- Hollmann, Hans E., to the United States of America as represented by the Secretary of the Navy. Electric piezoid amplifiers. 2,810,023, 10-15-57, Cl. 179-171.
- Hollmann, Hans E. Resistive reactor. 2,817,057, 12-17-57, Cl. 323-60.
- Hollmann, Hans E. Transistor oscillator circuits. 2,817,761, 12-24-57, Cl. 250-36.
- Hollmig, Felix H. Vehicle ignition circuit breaker. 2,813,941, 11-19-57, Cl. 200-61.52.
- Hollopetre, John H.: See—
Flaws, John, Jr., Dilts, and Hollopetre. 2,802,308.
- Holloway, Dennis E. Combination walking stick and wheeled carrier. 2,812,950, 11-12-57, Cl. 280-42.
- Holloway, Don C.: See—
Ensign, Robert H., and Holloway. 2,801,687.
- Holloway, Don C., to Hough Mfg. Corp. Trackway and side gate for folding doors and the like. 2,798,246, 7-9-57, Cl. 16-95.
- Holloway, Harold R.: See—
Statenman, Murray J., and Holloway. 2,817,060.
- Holloway, James P., to Armstrong Cork Co. Calendar roll. 2,780,443, 2-5-57, Cl. 257-95.
- Holloway, John H., to Murphy Diesel Co. Vibration dampener. 2,779,210, 1-29-57, Cl. 74-574.
- Holloway, Raymond A.: See—
Dahm, Thomas M., and Holloway. 2,811,691.
- Holloway, Robert A. Humidifier for electric heaters. 2,778,916, 1-22-57, Cl. 219-38.
- Holloway, Robert L., to American Machine & Foundry Co. Bowling alley scoring and timing projector device. 2,811,892, 11-5-57, Cl. 88-24.
- Holloway, Robert L., L. Strauss, and A. E. Levendoski, to American Machine & Foundry Co. Ball return mechanism. 2,776,138, 1-1-57, Cl. 273-49.
- Holloway, Robert L., T. J. Bohm, J. Zuercher, and L. Strauss, to American Machine & Foundry Co. Bowling pin spotting and respotting mechanism. 2,781,195, 2-12-57, Cl. 273-43.
- Hollowell, John R., and A. W. Morris, to Ford Motor Co. Motor vehicle wheelhouse construction. 2,807,496, 9-24-57, Cl. 296-1.
- Hollowell, Robert M., to Insley Mfg. Corp. Steering mechanism for carriers. 2,818,275, 12-31-57, Cl. 280-443.
- Hollstrom, Gunnar E., to Norton Co. Diamond cut-off wheel. 2,800,753, 7-30-57, Cl. 51-206.
- Hollwitz, Ludwig A. Split chase lock-up bar. 2,779,273, 1-29-57, Cl. 101-391.
- Holly, Frederick W., A. F. Wagner, E. Walton, and C. H. Hoffman, to Merck & Co., Inc. Intermediates useful in the synthesis of α -lipoic acid. 2,809,978, 10-15-57, Cl. 260-399.
- Holly, Frederick W., and E. Walton, to Merck & Co., Inc. Lipol and process of preparing the same. 2,811,531, 10-29-57, Cl. 260-327.
- Holly, Harry H., to Hollymatic Corp. Patty molding devices. 2,787,803, 4-9-57, Cl. 17-32.
- Holly, Harry H., to Hollymatic Corp. Sheet feeding means for molding device. 2,803,458, 8-20-57, Cl. 271-10.
- Holly Mfg. Co.: See—
Kennedy, Waldron N., and Block. 2,790,376.

- Holly, Norman A., and J. T. Ford, to General Motors Corp. Ash tray assembly. 2,798,632, 7-9-57, Cl. 220-18.
- Hollyday, James H.: *See—*
Tarbox, John P., and Hollyday. 2,807,487.
- Hollyday, William C., Jr.: *See—*
Black, James F., and Hollyday. 2,803,598.
- Tutwiler, Thomas S., Hollyday, Black, and Ertelt. 2,803,599.
- Hollyday, William C., Jr., and M. H. Mahan, to Esso Research and Engineering Co. Modified copolymers and preparation and uses thereof. 2,786,032, 3-19-57, Cl. 252-59.
- Hollymatic Corp.: *See—*
Holly, Harry H. 2,787,808.
- Holly, Harry H. 2,803,458.
- Hollywood, John M., to the United States of America as represented by the Secretary of the Air Force. Phase detecting system. 2,788,489, 4-9-57, Cl. 324-83.
- Hollywood-Maxwell Co.: *See—*
Schaumer, Theo B. 2,776,433.
- Holm, Erik G.: *See—*
Hasth, Yngve G. 2,785,734.
- Holm, Le Roy W.: *See—*
Crosby, Gifford W., Holm, Morrison, and Sandner. 2,795,535.
- Holm, Melvin M., to California Research Corp. Xylene isomerization with hydrogenation. 2,784,241, 3-5-57, Cl. 260-668.
- Holm, Ralph L.: *See—*
Martin, Donald W., and Holm. 2,797,883.
- Holm, Roy T., and C. W. Smith, to Shell Development Co. Process for the production of poly(hydroxyaryl) alkane compounds and new products thereof. 2,779,800, 1-29-57, Cl. 260-619.
- Holm, Russell D. Apparel rack. 2,811,293, 10-29-57, Cl. 223-11.
- Holman, Alexander H., 35% to B. D. Wood. Tumbling toys. 2,779,127, 1-29-57, Cl. 46-1.
- Holman, Arthur J. Film feeding mechanism for optical rectifying projectors and cameras and for sound heads. 2,807,978, 10-1-57, Cl. 88-16.8.
- Holman Brothers Ltd.: *See—*
Downing, Robert E., and James. 2,789,404.
- Downing, Robert E., and James. 2,803,098.
- Holman, Clarence J., to Alco Refrigeration Sales & Service, Inc. Housing for air conditioning units. 2,779,572, 1-29-57, Cl. 257-9.
- Holman, Daniel V.: *See—*
Holman, Harry V. 2,815,778.
- Holman, George W., and J. H. Sanders, to The Procter & Gamble Co. Method of making stable pourable oleaginous suspensions. 2,815,285, 12-3-57, Cl. 99-118.
- Holman, Harry V., deceased, D. V. Holman, executor, to Adjustable Clamp Co. Straight beam adjustable jaw clamp. 2,815,778, 12-10-57, Cl. 144-303.
- Holman, Herbert E., to Electric & Musical Industries Ltd. Mechanism for intermittently driving cinematograph films. 2,788,703, 4-16-57, Cl. 88-18.
- Holman, Howard E.: *See—*
Anderson, Walter J., and Holman. 2,811,887.
- Holman, Keith M., F. B. Cooper, and F. E. Bergman, to Aluminum Supply Co. Method for producing non-ferrous continuous weld tubing. 2,796,508, 6-18-57, Cl. 219-61.
- Holmbeck, John D., to The James Knights Co. Crystal assembly. 2,808,523, 10-1-57, Cl. 310-8.2.
- Holmberg & Co.: *See—*
Wurdell, Günther. 2,801,294.
- Holmberg, Erland W., and L. P. E. Westlin. Apparatus for measuring and dispensing liquids. 2,786,603, 3-26-57, Cl. 22-64.
- Holmberg, Glen D.: *See—*
Clark, Edmund G., and Holmberg. 2,814,480.
- Clark, Edmund G., and Holmberg. 2,814,501.
- Clark, Edmund G., and Holmberg. 2,814,502.
- Holmberg, Hartvig E. Printing machine. 2,814,247, 11-26-57, Cl. 101-132.5.
- Holmberg, Lawrence O.: *See—*
Poupitch, Ougljesa J. Re. 24,333.
- Holmberg, Victor A. Bait fish lure for receiving a small fish as bait. 2,791,059, 5-7-57, Cl. 43-44.2.
- Holmen, Kristian. Apparatus for the counting of sheets of paper, especially bank notes. 2,810,575, 10-22-57, Cl. 271-27.
- Holmes, Alan W.: *See—*
Galliver, George B., and Holmes. 2,813,027.
- Holmes, Bradford B., to Bendix Aviation Corp. Emergency oxygen supply system. 2,813,690, 11-19-57, Cl. 244-122.
- Holmes, Bradford B., to Bendix Aviation Corp. Respiratory apparatus. 2,814,290, 11-26-57, Cl. 128-142.
- Holmes, Bradford B., to Bendix Aviation Corp. Respiratory apparatus. 2,814,291, 11-26-57, Cl. 128-142.
- Holmes, Burton F., and H. H. Heindel, to Schultz Die Casting Co. Die casting controlling mechanism. 2,811,758, 11-5-57, Cl. 22-70.
- Holmes, David L. Hurdle. 2,805,062, 9-3-57, Cl. 272-59.
- Holmes, Edward C.: *See—*
Boerner, Lewis W., Holmes, and Murray. 2,799,352.
- Holmes, Elbridge R., to Crompton & Knowles Loom Works. Letoff for narrow ware loom. 2,809,670, 10-15-57, Cl. 139-110.
- Holmes Electric Protective Co.: *See—*
Chase, Leland H., and Spenard. 2,783,462.
- Loudon, Clifford L., and Riker. 2,779,935.
- Loudon, Clifford L., and Riker. 2,779,936.
- Holmes, Ennis L. Prop for lids of vehicle trunk compartments. 2,811,273, 10-29-57, Cl. 217-60.
- Holmes, Ernest, Co.: *See—*
Cline, Earl E., and Freeman. 2,796,183.
- Holmes, Forrest M.: *See—*
Hille, Walter E. 2,798,760.
- Holmes, Frederick J. Airspeed indicator. 2,778,003, 1-15-57, Cl. 340-27.
- Holmes, Gifford I., and R. B. Matthews, to Milwaukee Gas Specialty Co. Electromagnetic control device. 2,785,873, 3-19-57, Cl. 251-137.
- Holmes, Harleigh R. Adapter plate for steerable wheel. 2,781,211, 2-12-57, Cl. 287-20.
- Holmes, Houston E. Fish stringer and carrier. 2,796,209, 6-18-57, Cl. 224-7.
- Holmes, John A.: *See—*
Prescott, Charles H., Jr., and Holmes. 2,785,972.
- Holmes, John R.: *See—*
Arnold, Charles F., and Holmes. 2,800,068.
- De Beaubien, William J., Kaiser, and Holmes. 2,810,270.
- Holmes, John R., to General Motors Corp. Heater construction. 2,793,836, 5-28-57, Cl. 257-241.
- Holmes, John R., L. A. Zwicker, and R. R. Mandy, to General Motors Corp. Air conditioning systems. 2,787,888, 4-9-57, Cl. 62-3.
- Holmes, John R., J. W. Godfrey, and R. F. Caughill, to General Motors Corp. Heat exchanger. 2,796,239, 6-18-57, Cl. 257-245.
- Holmes, John R., H. A. Reynolds, and A. Schwarz, to General Motors Corp. Thermostatically operable valve structures. 2,815,916, 12-10-57, Cl. 236-34.
- Holmes, Oscar J. Intermittent motion picture film feed apparatus. 2,797,612, 7-2-57, Cl. 88-18.
- Holmes, Otis M.: *See—*
Butler, Ernest L., and Holmes. 2,778,038.
- Holmes, Raymond S., and L. T. Work, to Olin Mathieson Chemical Corp. Metallurgical process. 2,805,624, 9-10-57, Cl. 102-92.5.
- Holmes, Robert G., to General Electric Co. Snap action switch. 2,816,195, 12-10-57, Cl. 200-138.
- Holmes, Roger W.: *See—*
Lautenberger, Elmer W., and Holmes. 2,790,935.
- Holmes, Roland E., and R. C. Bales. Oscillating blade edger. 2,775,857, 1-1-57, Cl. 56-26.5.
- Holmes, William K., to Bendix Aviation Corp. Generator protecting device. 2,784,353, 3-5-57, Cl. 317-13.
- Holmquist, Carl G., to American Encaustic Tiling Co., Inc. Tile soaking rack. 2,800,998, 7-30-57, Cl. 206-46.
- Holmquist, Hjalmar. Adjustable tube legs. 2,783,583, 3-5-57, Cl. 45-139.
- Holmquist, John L., to The National Supply Co. Method of avoiding lapped-over seams in tubes formed in cross-roll piercing mills. 2,780,119, 2-5-57, Cl. 80-62.
- Holmstrom, Hartwin H. Washing machine for milking equipment. 2,791,227, 5-7-57, Cl. 134-169.
- Holopainen, Vaino J., to Wain-Roy Corp. Stabilizing apparatus. 2,781,927, 2-19-57, Cl. 214-138.
- Holopainen, Vaino J., to Wain-Roy Corp. Reversible seat. 2,784,768, 3-12-57, Cl. 155-99.
- Holophane Co., Inc.: *See—*
Franck, Kurt. Re. 24,372.
- Franck, Kurt. 2,802,097.
- Franck, Kurt. 2,818,500.
- Franck, Kurt, and McPhail. 2,814,723.
- Holoway, Clayton F.: *See—*
Tolkmith, Henry, Britton, and Holoway. 2,802,823.
- Tolkmith, Henry, Britton, and Holoway. 2,802,824.
- Holroyd, Eric, and D. L. Jenkins, to Dunlop Tire and Rubber Corp. Apparatus for the automatic forming of a shaped loop of wire from wire stock. 2,775,986, 1-1-57, Cl. 140-88.
- Holroyd, Lowell S. Adjustable display rack. 2,784,847, 3-12-57, Cl. 211-55.
- Holsclaw, Charles H. Tie-down for boats on wheeled trailers. 2,787,476, 4-2-57, Cl. 280-179.
- Holsing, Paul M.: *See—*
Murphy, Donald W., and Holsing. 2,797,871.
- Holsing, Viola K.: *See—*
Murphy, Donald W., and Holsing. 2,797,871.
- Holskey, Otto: *See—*
Kuepfer, Matthew C., Horiak, and Holskey. 2,787,985.
- Holsman, Henry T. Packaging process and apparatus. 2,816,837, 12-17-57, Cl. 99-171.
- Holst, Paul F. G., to Hoffman Electronics Corp. Portable loud speaker type radio receiver with battery-saving earphone circuit. 2,797,315, 6-25-57, Cl. 250-20.
- Holstebro, Kaye B., to Emhart Mfg. Co. Machines for sealing shipping cartons or the like. 2,805,533, 9-10-57, Cl. 53-387.
- Holstebro, Kaye B., and L. H. Lippincott, to Emhart Mfg. Co. Machines for packing articles in cases. 2,815,623, 12-10-57, Cl. 53-58.
- Holstein, John H. Banding machine. 2,814,173, 11-26-57, Cl. 53-292.
- Holstrom, Allan, to General Dynamics Corp. Power supply changeover arrangement. 2,778,976, 1-22-57, Cl. 315-96.

- Holt, Charlie W. Stop motion for jacquard looms. 2,812,781, 11-12-57, Cl. 139-338.
- Holt, Dennis J.: *See*—
Cate, Barend T. B., and Holt. 2,817,377.
- Holt, Edward. Band saw. 2,815,775, 12-10-57, Cl. 143-24.
- Holt, Everett W. Self-centering vise for cylindrical or tapered work pieces. 2,788,686, 4-16-57, Cl. 81-19.
- Holt, Frederick W., Jr., to The Brown-Bridge Mills Co., Inc. Method of making thermoplastic tape. 2,778,744, 1-22-57, Cl. 117-66.
- Holt, George A., to Ricardo & Co., Engineers (1927) Ltd. Detachable cylinder head constructions for liquid-cooled internal combustion engines. 2,788,776, 4-16-57, Cl. 123-41.82.
- Holt, George A., to Ricardo & Co., Engineers (1927) Ltd. Internal combustion engines of the compression ignition liquid fuel injection type. 2,795,215, 6-11-57, Cl. 123-32.
- Holt, George A., to Ricardo & Co., Engineers (1927) Ltd. Pistons for internal combustion engines. 2,815,011, 12-3-57, Cl. 123-41.38.
- Holt, Grover J., and L. J. Erck, to The Cleveland-Cliffs Iron Co. Iron ore pelletizing process and product. 2,799,572, 7-16-57, Cl. 75-5.
- Holt, Harold S., to E. I. du Pont de Nemours and Co. Intermediates for the production of polymers. 2,815,369, 12-3-57, Cl. 260-486.
- Holt, Harry, Jr.: *See*—
Dowse, Joseph, and Holt. 2,811,745.
- Holt, John E., to The Danielson Mfg. Co. Manufacture of speedometer gear units. 2,789,311, 4-23-57, Cl. 18-2.
- Holt, John E., to The Danielson Mfg. Co. Speedometer cable end housing and gear assembly. 2,801,530, 8-6-57, Cl. 64-3.
- Holt, John E., to The Danielson Mfg. Co. Composite worm-helical gear construction. 2,812,668, 11-12-57, Cl. 74-458.
- Holt, Marjorie L.: *See*—
Sewell, Edward R. 2,809,488.
Sewell, Edward R. 2,809,705.
- Holt, Ralph D., deceased; The Harter Bank & Trust Co., executor. Toy vehicle and launching device therefor. 2,803,922, 8-27-57, Cl. 46-202.
- Holt, Ralph D., deceased; The Harter Bank & Trust Co., executor. Launching device for toy vehicle. 2,804,619, 8-27-57, Cl. 46-81.
- Holt, William, $\frac{1}{2}$ to A. F. Stainer. Tubeless tire rim assembly. 2,803,285, 8-20-57, Cl. 152-410.
- Holt, William, $\frac{1}{2}$ to A. J. Stanier. Two-cycle engine. 2,814,281, 11-26-57, Cl. 123-71.
- Holt, William E. Drive unit for floor treating machines. 2,817,977, 12-31-57, Cl. 74-421.
- Holt, William H.: *See*—
Guest, Arthur J., and Holt. 2,790,157.
- Holt, William M.: *See*—
Clark, Calvin A. 2,793,791.
- Holtkamp, Norman C., and J. J. Oppenheim. Protective foot guard. 2,804,700, 9-3-57, Cl. 36-72.
- Holton, Charles D., to General Motors Corp. Power transmitting connection. 2,787,915, 4-9-57, Cl. 74-424.
- Holton, Francis C. Safety mattress. 2,815,516, 12-10-57, Cl. 3-345.
- Holtzschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Polymeric isocyanates and their production. 2,810,711, 10-22-57, Cl. 260-77.5.
- Holtzford, Ernest L., to Badham Insulation Co. Fire resisting insulating material and building construction embodying the same. 2,785,099, 3-12-57, Cl. 154-44.
- Holtz, Albert G. Caster unit. 2,784,442, 3-12-57, Cl. 16-32.
- Holtz, Frederick C., to Sangamo Electric Co. Hermetically sealed watt-hour meters. 2,790,951, 4-30-57, Cl. 324-156.
- Holtz, Frederick C., to Sangamo Electric Co. Temperature correcting register for gas meters. 2,791,118, 5-7-57, Cl. 73-233.
- Holtzapfel, Clyde N., to A M P Inc. Method of forming an electrical connection. 2,802,257, 8-13-57, Cl. 29-155.55.
- Holtzman, Harris, and E. Simon, to Ansbacher-Siegle Corp. Chlorinated copper phthalocyanine. 2,793,214, 5-21-57, Cl. 260-314.5.
- Holub, Edward M., L. F. Keel, and H. R. Sullivan, to Union Carbide Corp. Powder lance. 2,803,571, 8-20-57, Cl. 148-9.
- Holycross, Clayton O., and S. H. S. Raub, to Union Carbide and Carbon Corp. Joint and method of uniting carbon bodies. 2,795,440, 6-11-57, Cl. 285-284.
- Holysz, Roman P.: *See*—
Pederson, Raymond L., Holysz, and Ott. 2,782,192.
- Holz, William G. Attachment clip for lumber conveyor chains. 2,792,928, 5-21-57, Cl. 198-189.
- Holz, William G. Conveyor belt attachment. 2,809,742, 10-15-57, Cl. 198-199.
- Holzbock, Werner G.: *See*—
Evans, Francis C., Muehter, and Holzbock. 2,807,318.
- Holzbock, Werner G., to Askania Regulator Co. Electro-hydraulic relay. 2,814,183, 11-26-57, Cl. 60-52.
- Holzer, Georg: *See*—
Hinsken, Josef, and Holzer. 2,788,749.
- Holzkamp, Erhard: *See*—
Ziegler, Karl, Wilke, and Holzkamp. 2,781,410.
- Holzknicht, Felix. Air washer and humidifier. 2,788,084, 4-9-57, Cl. 183-25.
- Holzmann, Ernest G.: *See*—
Bremer, Andrew, Holzmann, and Hoyt. 2,788,264.
- Holzwarth, Hans T., to The M. W. Kellogg Co. Centrifugal impellers. 2,780,176, 2-5-57, Cl. 103-115.
- Holzwarth, Hans T., to The M. W. Kellogg Co. Nozzle plate. 2,780,436, 2-5-57, Cl. 253-78.
- Holzwarth, Hans, to Schilling Estate Co. Explosion turbine plant assembly. 2,803,946, 8-27-57, Cl. 60-39.38.
- Holzwarth, Hans, and A. H. Schilling, to Schilling Estate Co. Multi-stage explosion turbine plant for generating driving gases. 2,791,884, 5-14-57, Cl. 60-39.16.
- Holzwarth, Henry A., and J. D. Wark, to Dixie Cup Co. Cup holder. 2,785,551, 3-19-57, Cl. 65-61.
- Holzwarth, Herbert, to Siemens & Halske Aktiengesellschaft. Phase modulation of impulses. 2,806,996, 9-17-57, Cl. 332-9.
- Holzwarth, Herbert, and W. Arens, to Siemens & Halske Aktiengesellschaft. Polarity-true impulse scanning of oscillations. 2,811,693, 10-29-57, Cl. 332-9.
- Homan, Edward C. M., to Cordo Chemical Corp. Method of producing a solidified cured resin. 2,783,214, 2-26-57, Cl. 260-28.
- Homan, Jan D. H., to Organon, Inc. Insulin extraction. 2,779,706, 1-29-57, Cl. 167-75.
- Homan, Jan D. H., and J. Lens, to Organon, Inc. Zinc-glycine-insulin composition and production thereof. 2,787,575, 4-2-57, Cl. 167-75.
- Homan, Jan D. H., and J. P. J. Neutelings, to Organon Inc. Adrenocorticotrophic hormone composition. 2,807,569, 9-24-57, Cl. 167-74.
- Homan, Merle E.: *See*—
Horwitz, Henry L., and Homan. 2,787,659.
- Homan, Paul J., to Koppers Co., Inc. Quenching liquid sump system. 2,791,552, 5-7-57, Cl. 202-229.
- Homan, Paul J., to Koppers Co., Inc. Door machine. 2,797,820, 7-2-57, Cl. 212-4.
- Homan, Paul J. Outboard motor mounting. 2,798,369, 7-9-57, Cl. 70-58.
- Homan, Paul J., to Koppers Co., Inc. Coke oven door closure apparatus. 2,800,435, 7-23-57, Cl. 202-248.
- Hombach, Carl J. Oval rim pipe hub. 2,791,450, 5-7-57, Cl. 285-156.
- Home and Building Parts Co., Inc.: *See*—
Medal, Leon E., and Forbes. 2,783,507.
- Homer, Horace H.: *See*—
Butler, Keith H., and Homer. 2,807,587.
- Homer, Howard J.: *See*—
Nack, Herman R., Homer, and Whitacre. 2,812,272.
- Homer, Howard J., and J. R. Whitacre, to The Commonwealth Engineering Co. of Ohio. Method for the production of composite metallic material. 2,813,803, 11-19-57, Cl. 117-71.
- Homery, Alex L., and M. A. Simon, to Youngstown Industries, Inc. Apparatus for processing tenuous material. 2,776,710, 1-8-57, Cl. 164-60.
- Homeyer, August H., and G. B. De La Mater, to Mallinckrodt Chemical Works. Method for producing dihydroisocodeine. 2,813,096, 11-12-57, Cl. 260-285.
- Homeyer, Henry N., Jr., to The Connecticut Hard Rubber Co. Polytrifluorochloroethylene-coated aluminum. 2,811,471, 10-29-57, Cl. 148-6.2.
- Hommel, William B., to American Can Co. Magnetic stacking mechanism. 2,795,340, 6-11-57, Cl. 214-6.
- Homrig, Horace J., and G. D. Simonds. Clutch locking device. 2,785,783, 3-19-57, Cl. 192-114.
- Homuth, Charles G. Semi-automatic dispensing valve. 2,776,849, 1-8-57, Cl. 284-17.
- Hon, Dan K., Jr., and P. P. Bridwell. Can opener. 2,814,102, 11-26-57, Cl. 30-6.1.
- Honerkamp, Friedrich: *See*—
Kurth, Franz J., Honerkamp, Phillips, Waeldner, and Wood. 2,813,474.
- Honey, Eric M. O., and C. R. Hardy, to The Chloride Electrical Storage Co. Ltd. Process for production of diaphragms for use in ion exchange processes. 2,810,932, 10-29-57, Cl. 18-47.5.
- Honey, Lloyd M., and R. C. Reynolds, to Honey Seat Belt Corp. Seat belt buckles. 2,807,066, 9-24-57, Cl. 24-75.
- Honey Seat Belt Corp.: *See*—
Honey, Lloyd M., and Reynolds. 2,807,066.
- Honeycomb Structures Co., Inc.: *See*—
Tuttle, Orvil S. 2,788,051.
- Honeycutt, Earl M., to Sun Oil Co. Refining heavy mineral oil fractions with an anhydrous mixture of sodium hydroxide and potassium hydroxide. 2,795,532, 6-11-57, Cl. 196-36.
- Honeywell, Charles E.: *See*—
De Cola, Rinaldo E., and Honeywell. 2,778,932.
- Honhart, Jack C. Holder for a welder's brush. 2,786,221, 3-26-57, Cl. 15-146.
- Honig, Pieter, and J. K. Ling. Method of evaporating concentrate solutions to obtain a constant density. 2,800,955, 7-30-57, Cl. 159-47.
- Honig, Robert. Liquid dispensing comb. 2,817,343, 12-24-57, Cl. 132-147.
- Honing, Wilhelm, and J. Poelma, to North American Philips Co., Inc. Electric incandescent lamp comprising a reflector. 2,799,791, 7-16-57, Cl. 313-114.
- Honjo, Matsusuke. Internal combustion engine of circular cylinder type. 2,804,059, 8-27-57, Cl. 123-11.
- Honkanen, Arvid, to American Can Co. Apparatus for applying tape to containers. 2,795,263, 6-11-57, Cl. 154-42.3.

Honma, Masao : *See*—

Iwase, Keizo and Honma. 2,794,731.

Honn, Francis J., and W. M. Sims, to The M. W. Kellogg Co. Copolymers of a perfluorochloroethylene and a hydrocarbon diene and method for their manufacture. 2,783,217, 2-26-57, Cl. 260—82.1.

Honnef, Peter, Laying out and duplicating device. 2,816,465, 12-17-57, Cl. 77—62.

Honolulu Oil Corp. : *See*—

Toti, Andrew J. 2,805,443.

Honore, Etienne A. H., E. L. G. Torcheux, and R. D. C. Roy, deceased, G. G. J. Cordie-Roy, executor or administrator of said Roy. Electric analog computer and similar circuits. 2,785,853, 3-19-57, Cl. 235—61.

Honstead, John F., to the United States of America as represented by the United States Atomic Energy Commission. Proportional waste line sampler. 2,800,797, 7-30-57, Cl. 73—42.1.

Honza, Raymond L. Adjustable nailing forms. 2,811,186, 10-29-57, Cl. 144—288.

Hoobler, Ernest S., to Mercury International Research Co. Brake and throttle control device for automotive vehicle. 2,787,352, 4-2-57, Cl. 192—3.

Hood, Charles N., II, to General Electric Co. Band-pass filter circuit. 2,781,422, 2-12-57, Cl. 179—171.

Hood, Charles R., to The Procter & Gamble Co. Apparatus for turning cartons or the like. 2,814,376, 11-26-57, Cl. 198—33.

Hood, Edwin E., to Bendix Aviation Corp. Two speed coaster brake for velocipedes. 2,803,976, 8-27-57, Cl. 74—750.

Hood-Gardner Hotel Supply Corp. : *See*—

Hunt, William G. 2,784,909.

Hood, George C., and R. E. Smith, to Shell Development Co. Evaporating hydrogen peroxide. 2,818,372, 12-31-57, Cl. 202—57.

Hood, H. F., & Sons, Inc. : *See*—

Lundstedt, Erik. 2,791,903.

Hood, Harrison P., and S. D. Stookey, to Corning Glass Works. Method of making a glass article of high mechanical strength and article made thereby. 2,779,136, 1-29-57, Cl. 49—79.

Hood, Herman A. Conductivity testing system. 2,816,264, 12-10-57, Cl. 324—62.

Hood, Ralph S. : *See*—

Beardsell, Wallace A., Davis, and Hood. 2,775,792.

Davis, Walter M., Hood, and Jung. 2,805,640.

Hood, Ralph S., to Monsanto Chemical Co. Apparatus and method for producing melamine. 2,776,284, 1-1-57, Cl. 260—249.7.

Hood, Ralph S., to Monsanto Chemical Co. Production of refractory metals. 2,782,118, 2-19-57, Cl. 75—84.5.

Hoee, Charles R. Collapsible megaphone signalling device. 2,790,504, 4-30-57, Cl. 181—27.

Hoee, Charles R. Collapsible megaphone. 2,810,446, 10-22-57, Cl. 181—27.

Hoee, Hunter E., to Royal McBee Corp. Method of making a punch and die mechanism. 2,791,133, 5-7-57, Cl. 76—107.

Hoee, Hunter E., to Royal McBee Corp. Duplicating punch. 2,791,275, 5-7-57, Cl. 164—114.

Hoogendonk, Johan W. : *See*—

Hallie, Gerardus, and Hoogendonk. 2,793,398.

Hoogerheide, Johannes C., to Pabst Brewing Co. Production of vitamin B₁₂ by *Agrobacterium radiobacter*. 2,798,840, 7-9-57, Cl. 195—96.

Hook, Albert A., 1/2 to R. K. Campbell. Grain storage bin ventilator. 2,797,632, 7-2-57, Cl. 98—55.

Hook, Albert S. : *See*—

Williams, Charles R., and Hook. 2,817,021.

Hook, Carl H. : *See*—

Wasser, Forrest F., and Hook. 2,789,833.

Hook, Christopher. Hydrofoil craft. 2,795,202, 6-11-57, Cl. 114—66.5.

Hook, Edwin O. : *See*—

Loughran, Gerard A., and Hook. 2,794,821.

Loughran, Gerard A., and Hook. 2,805,217.

Loughran, Gerard A., and Hook. 2,809,188.

Sullivan, Frank A. V., Hook, and Davis. 2,816,881.

Wystrach, Vernon P., Hook, and Christopher. 2,794,780.

Hook, Edwin O., L. C. Beegle, and V. P. Wystrach, to American Cyanamid Co. Esters of dithiocarbamic acids and a method for their preparation. 2,786,866, 3-26-57, Cl. 260—455.

Hook, Edwin O., and A. R. Davis, to American Cyanamid Co. Plasticizing rubber with a metal salt of an acylated amino-thiophenol. 2,787,605, 4-2-57, Cl. 260—30.4.

Hook, Edwin O., and A. R. Davis, to American Cyanamid Co. Metal salts of acylated amino-thiophenols as catalytic plasticizers for rubber. 2,787,621, 4-2-57, Cl. 260—347.2.

Hook, Eugene P. : *See*—

Gallo, Nick D. 2,786,612.

Hooker, Charles L., Jr. Electro-magnetic pump. 2,796,026, 6-18-57, Cl. 103—53.

Hooker, Donald E. : *See*—

Nicolaus, Frank G., and Hooker. 2,805,368.

Hooker, Donald E., to R. T. Moloney. Rotary switch with spiral overtravel. 2,777,907, 1-15-57, Cl. 200—11.

Hooker Electrochemical Co. : *See*—

Baranauckas, Charles F. 2,801,269.

Baranauckas, Charles F. 2,810,712.

Gochenour, Carl I., Ashton, and Baranauckas. 2,793,201.

Newcomer, Jack S., Robitschek, and Bean. 2,812,347.

Hooker Electrochemical Co. : *See*—Continued

Pernert, John C. 2,811,420.

Pernert, John C. 2,816,820.

Robitschek, Paul, and Bean. 2,779,700.

Robitschek, Paul, and Bean. 2,779,701.

Robitschek, Paul, and Bean. 2,783,215.

Robitschek, Paul, Bean, and Newcomer. 2,779,769.

Robitschek, Paul, and Schweiker. 2,813,086.

Shepard, Alvin F. 2,790,010.

Shepard, Alvin F., Cardone, and Jacobson. 2,797,204.

Shepard, Alvin F., Cardone, and Jacobson. 2,813,843.

Storin, Gordon K., Lawlor, and Casciani. 2,814,602.

Hooker, Leland W. : *See*—

Yeadon, Donald J., Hooker, and Garland. 2,802,497.

Hooker, Stanley G., to The Bristol Aeroplane Co. Ltd. Improved cooling and lubricating arrangement for bearings of a gas turbine engine. 2,791,090, 5-7-57, Cl. 60—39.08.

Hooks, Robert M., to Southwestern Petroleum Co., Inc. Method of preserving and fireproofing a structural member and resultant article. 2,804,398, 8-27-57, Cl. 117—72.

Hooper, Charles K., to Westinghouse Electric Corp. Moving target radar compensator. 2,795,782, 6-11-57, Cl. 343—7.7.

Hooper, Frank C. : *See*—

Dolbey, Norman L., and Hooper. 2,788,053.

Hooper, George M. Stop hinge. 2,803,850, 8-27-57, Cl. 16—142.

Hooper, Kimball & Williams, Inc. : *See*—

Cary, Alexander C. 2,786,335.

Guild, Everett N. 2,791,103.

Hooper, Peter : *See*—

Doyle, William T., and Hooper. 2,790,550.

Hoopes, Owen D., to the United States of America as represented by the Secretary of the Army. Firing pin retracting mechanism. 2,800,057, 7-23-57, Cl. 89—28.

Hoopes, Raymond F., Sr. : *See*—

Bishop, Ray H., and Hoopes. 2,801,766.

Hoose, Francis D., to Monticello Mfg. Corp. Multi-panel display rack latch. 2,803,477, 8-20-57, Cl. 292—87.

Hoot, Frank J. Antibacklash reel. 2,783,953, 3-5-57, Cl. 242—84.5.

Hooten, Jack P. Boat trailer. 2,818,188, 12-31-57, Cl. 214—506.

Hookins, Seymour : *See*—

Wallace, Valtion. 2,780,700.

Hoover Ball & Bearing Co. : *See*—

Graff, George. 2,793,056.

Kinker, Clarence C. 2,786,308.

Hoover, Co., The : *See*—

Beach, Justice H. 2,786,288.

Beach, Justice H. 2,803,072.

Beaumont, Joseph V. 2,784,500.

Brace, George A. 2,776,446.

Brace, George A. 2,776,726.

Brace, George A. 2,780,828.

Brace, George A. 2,784,439.

Brace, George A. 2,786,286.

Brace, George A. 2,789,661.

Brace, George A. 2,789,798.

Brace, George A. 2,804,164.

Camprubi, Bartholomew. 2,807,867.

Coons, Curtis C. 2,807,824.

Coons, Curtis C., and Montgomery. 2,780,826.

Daiger, George P., Gerber, and Seck. 2,781,103.

Duff, Jack E. 2,783,819.

Duff, Jack E. 2,793,672.

Dunn, Harold G. 2,797,568.

Dunn, Harold G. 2,800,010.

Gardner, Roland H. 2,807,825.

Gerber, Dale C. 2,780,827.

Goode, Archibald W. G. 2,811,848.

Grinyer, Edward G., and Sibbald. 2,814,191.

Humphrey, Warren A. 2,815,090.

Hurd, Claud C. 2,814,065.

Kaufman, George E. 2,784,441.

Kaufman, George E. 2,789,799.

Kaufman, George E. 2,793,839.

Kaufman, George E. 2,804,290.

Lesh, Harvey B., Jr. 2,814,066.

Martin, Frank A. 2,797,730.

Montgomery, John C. 2,814,064.

Plint, Dennis J. W. 2,814,711.

Ripple, Melvin H. 2,814,063.

Sebok, Albert L. 2,814,136.

Seck, Werner G. 2,789,308.

Seck, Werner G. 2,793,449.

Seck, Werner G. 2,804,167.

Seck, Werner G., and Humphrey. 2,811,793.

Segezman, Louis E. 2,784,800.

Sibbald, Frederick R. 2,786,905.

Sibbald, Frederick R. 2,793,519.

Sibbald, Frederick R. 2,800,011.

Snyder, Eugene L. 2,800,310.

Swann, Edward R. 2,786,287.

Hoover, Franklin J. : *See*—

Seifter, Joseph, Monaco, and Hoover. 2,799,619.

Hoover, George R. : *See*—

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Hoover, Helen D., to International Harvester Co. Heat treated agricultural implement disks having non-directional fracture characteristics. 2,814,580, 11-26-57, Cl. 148—31.

Hoover, Hilton J. Marsh boat. 2,812,737, 11-12-57, Cl. 115—1.

- Hoover, Keith S.: *See*—
Marron, Thomas U., and Hoover. 2,780,991.
- Hoover, Merle M.: *See*—
Ryno, Earle R., and McKillop. 2,785,795.
- Hoover, Michael C., and C. H. Vander Meer, to Mandrel Industries, Inc. Timing circuit. 2,796,538, 6-18-57, Cl. 307—132.
- Hoover Transmission Co., Inc.: *See*—
Hoover, Walter S., and Somers. 2,802,367.
- Hoover, Vaino A. Mechanical actuator. 2,778,239, 1-22-57, Cl. 74—424.8.
- Hoover, Vaino A. Mechanical actuator. 2,809,736, 10-15-57, Cl. 192—143.
- Hoover, Walter S., and B. A. Somers, to Hoover Transmission Co., Inc. Pulley. 2,802,367, 8-13-57, Cl. 74—230.17.
- Hope, James. Swing-jack space-guard. 2,789,854, 4-23-57, Cl. 293—69.
- Hope, Lawrence F., to General Motors Corp. Automatic balancing machine. 2,783,649, 3-5-57, Cl. 73—464.
- Hope, Lawrence, and R. I. Hanford, to Ilg Electric Ventilating Co. Ventilating device. 2,793,580, 5-28-57, Cl. 98—116.
- Hope, Stanley C., to Gilbert & Barker Mfg. Co. Air-operated can-emptying means. 2,776,782, 1-8-57, Cl. 222—82.
- Hope, William K. Water temperature control valve. 2,803,408, 8-20-57, Cl. 236—12.
- Hopf, Dietrich: *See*—
Te Gude, Helmut F. A., and Hopf. 2,784,316.
- Hopf, Dietrich, to North American Philips Co., Inc. Tuning indication circuit-arrangement for use in receivers for frequency-modulated oscillations. 2,812,439, 11-5-57, Cl. 250—40.
- Hopfeld, Henry. Ladder. 2,776,080, 1-1-57, Cl. 228—55.
- Hopff, Heinrich, to J. R. Geigy A.-G. Process for the production of organic sulphur compounds. 2,817,685, 12-24-57, Cl. 260—609.
- Hopgood, Robert B., to The Eyelet Specialty Co. Cosmetic container or the like. 2,797,802, 7-2-57, Cl. 206—56.
- Hopgood, Robert B., to The Eyelet Specialty Co. Cosmetic container. 2,797,803, 7-2-57, Cl. 206—56.
- Hopkins, Albert F., Jr. Switch position indicators. 2,778,903, 1-22-57, Cl. 200—167.
- Hopkins, Arthur C. Gun barrel cleaning device. 2,805,434, 9-10-57, Cl. 15—104.16.
- Hopkins, Cecil W., to Landis Machine Co. Work supporting, gripping and centering device. 2,816,301, 12-17-57, Cl. 10—107.
- Hopkins, Edward L.: *See*—
Schremp, Frederic W., Hutchinson, and Hopkins. 2,804,148.
- Hopkins, Edward W., to the United States of America as represented by the Secretary of the Army. Firearm magazine with negator coil springs. 2,777,235, 1-15-57, Cl. 42—50.
- Hopkins, Ervin W.: *See*—
Zilmont, Leonard J., Coleman, and Hopkins. 2,788,278.
- Hopkins, Frank L., to Bemis Bro. Bag Co. Vibrator motor construction. 2,790,097, 4-23-57, Cl. 310—29.
- Hopkins, Frank L., and R. H. Ayres, to Bemis Bro. Bag Co. Bag feeding and filling machine. 2,781,620, 2-19-57, Cl. 53—52.
- Hopkins, Frank L., and J. D. Helm, to Bemis Bro. Bag Co. Machine for weighing and dispensing bulk material and having means for impregnating said material with liquid. 2,808,858, 10-8-57, Cl. 141—67.
- Hopkins, George W., and W. E. Shackelford, to Friden Calculating Machine Co., Inc. Dividend divisor aligning mechanism. 2,809,786, 10-15-57, Cl. 235—63.
- Hopkins, Harold H., to W. Watson & Sons Ltd. Variable magnification optical systems. 2,782,684, 2-26-57, Cl. 88—57.
- Hopkins, Howard L., to The National Screw & Mfg. Co. Power operated tool for use with blind fasteners. 2,776,681, 1-8-57, Cl. 144—32.
- Hopkins, Howe H., to S. B. Eckert. Wabblers type internal combustion engine. 2,812,664, 11-12-57, Cl. 74—60.
- Hopkins, John R., and F. E. McNulty. Preformed product for protecting and coating field joints of pipes. 2,794,483, 6-4-57, Cl. 154—41.
- Hopkins, John W. Jr.: *See*—
Cameron, Robert C., and Hopkins. 2,800,104.
- Hopkins, Lionel P., to International Telephone and Telegraph Corp. Latch. 2,784,994, 3-12-57, Cl. 292—247.
- Hopkins Mfg. Corp.: *See*—
Irwin, Lee K. 2,797,494.
- Hopkins, Marion D.: *See*—
Moore, Arthur J., Hopkins, and Johnson. 2,807,936.
- Hopkins, Robert A., to Balcram, Inc. Folding back rest for collapsible chairs. 2,794,491, 6-4-57, Cl. 155—142.
- Hopkins, Robert E., to American Optical Co. Image-forming optical lens telephoto systems. 2,803,997, 8-27-57, Cl. 88—57.
- Hopkins, Royce. Filter. 2,782,868, 2-26-57, Cl. 183—61.
- Hopkins, Sidney R.: *See*—
Molins, Desmond W., Pocock, and Hopkins. 2,779,243.
- Hopkinson, Joseph, Jr. Protracting level. 2,814,128, 11-26-57, Cl. 33—213.
- Hopp, Philip, to The Hopp Press Inc. Display device. 2,785,487, 3-19-57, Cl. 40—16.
- Hopp, Philip, to The Hopp Press Inc. Display assembly. 2,812,600, 11-12-57, Cl. 40—10.
- Hopp Press Inc., The: *See*—
Hopp, Philip. 2,785,487.
Hopp, Philip. 2,812,600.
- Hopp, Robert E.: *See*—
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- Hoppe, Alfred, to Edeleanu Gesellschaft m. b. H. Process for the recovery of solvents from products containing them. 2,816,859, 12-17-57, Cl. 202—72.
- Hoppe, Boris. Adjustable table construction. 2,799,544, 7-16-57, Cl. 311—39.
- Hoppe, Gustav E., to Bell Telephone Laboratories, Inc. Cross bar translator switch. 2,794,073, 5-28-57, Cl. 179—18.
- Hoppe, Peter: *See*—
Müller, Erwin, and Hoppe. 2,788,332.
- Hoppe, Peter, H. Pfeffer, and E. Müller, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of rubber and plastic materials of cellular structure. 2,780,606, 2-5-57, Cl. 260—2.5.
- Hoppe, Walter, to El-Re-Ma S. A. per lo sfruttamento di brevetti. Electromagnetic device. 2,794,158, 5-28-57, Cl. 317—189.
- Hopper, Andrew L., to Bell Telephone Laboratories, Inc. Microwave device. 2,784,377, 3-5-57, Cl. 332—23.
- Hopper, Andrew L., to Bell Telephone Laboratories, Inc. Wave guide frequency converter. 2,806,138, 9-10-57, Cl. 250—20.
- Hopper, E. R.: *See*—
Connet, Bennet H., Sr. 2,814,490.
- Hopper, Lionel C. Baseboard vacuum cleaner system. 2,810,028, 10-15-57, Cl. 200—61.6.
- Hopper, Malcolm M., and A. E. Lepley, to Thompson Products, Inc. Conical pendulum speed control. 2,779,582, 1-29-57, Cl. 264—9.
- Hopper, Philip S., to United Aircraft Corp. Inlet screen fairing. 2,812,036, 11-5-57, Cl. 183—62.
- Hopper, Robert J., to Del Mar Engineering Laboratories, Inc. Aircraft tow target installation. 2,813,719, 11-19-57, Cl. 273—105.3.
- Hopper, Wilbert C. Game table. 2,818,256, 12-31-57, Cl. 273—37.
- Hopper, William H. Mixing chamber for shower heads. 2,811,422, 10-29-57, Cl. 23—267.
- Hopps, Sidney J.: *See*—
Wickersham, Roy G., and Hopps. 2,785,267.
- Hopton, Alan, to The Forgevise Machinery Co. Ltd. Wrapping machines. 2,813,387, 11-19-57, Cl. 53—229.
- Horbinski, Richard D. Thermocouple assembly. 2,779,810, 1-29-57, Cl. 136—4.
- Hörchner, Johannes M.: *See*—
Van Der Waarden, Mathijs, and Hörchner. 2,794,829.
- Hörchner, Richard S., to United Shoe Machinery Corp. Shoe racks. 2,790,555, 4-30-57, Cl. 211—34.
- Hord, Paul E. Window unit for use with air conditioners. 2,781,717, 2-19-57, Cl. 98—94.
- Hord, Paul E. Window mounted room air conditioner. 2,814,244, 11-26-57, Cl. 98—94.
- Hordern, Mason & Edwards Ltd.: *See*—
Caster, John E., and Deykin. 2,790,332.
- Hordle, Dennis: *See*—
Clifford, Wilfred J., and Hordle. 2,818,121.
- Horelick, Samuel, to McGraw Electric Co. Electrical transformer windings. 2,817,065, 12-17-57, Cl. 336—58.
- Horgen, Helge, to Societe d'Etudes et de Participations. Eau, Gaz, Electricite, Energie, S. A. Auto-generators of hot gases under pressure, and in particular in free piston auto-generators. 2,783,750, 3-5-57, Cl. 123—46.
- Horiak, Erwin A. V.: *See*—
Kuepfer, Matthew C., Horiak, and Holskey. 2,787,985.
- Horický, Miloš: *See*—
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- Horiuchi, Harold S.: *See*—
Miklofsky, Haaren A., and Horiuchi. 2,776,640.
- Horizons Inc.: *See*—
Chill, Ralph, and Litu. 2,818,041.
Chill, Ralph, Liu, and Yee. 2,817,895.
Cunningham, George L. 2,784,061.
Cunningham, George L., and Levitin. 2,785,098.
Cunningham, George L., and Yee. 2,817,893.
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Steinberg, Morris A. 2,817,894.
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- Horizons Titanium Corp.: *See*—
Freedman, Meyer L. 2,798,844.
Kolk, Anthony J., Jr., and Sibert. 2,813,005.
McKenna, Quentin H. 2,793,097.
Raynes, Bertram C. 2,782,156.
Raynes, Bertram C. 2,786,809.
Raynes, Bertram C., Sibert, and Burwell. 2,813,069.
Raynes, Bertram C., and Thellmann. 2,783,196.
Steinberg, Morris A., and Topinka. 2,813,068.
Steinberg, Morris A., and Wainer. 2,792,310.
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- Horlacher, Albert F., to C. P. Clare & Co. Relay. 2,790,939, 4-30-57, Cl. 317—197.
- Horlacher, Heinrich. Foot arch support. 2,791,844, 5-14-57, Cl. 36—71.
- Horlacher, Herman, to The Cincinnati Milling Machine Co. Contouring machine. 2,800,839, 7-30-57, Cl. 90—13.5.
- Hörlein, Ulrich, to Schenley Industries, Inc. Derivatives of 2-N-methyl-1,2,3,4-tetrahydrogamma-carbolines. 2,786,059, 3-19-57, Cl. 260—296.

- Horling, Anthony J., Jr. Spoke nipple for bicycle wheel. 2,778,690, 1-22-57, Cl. 301—58.
- Horman, Harold: *See*—
Rondthaler, Edward, and Horman. 2,800,062.
- Horman, John H., to Allied Control Co., Inc. Electromagnetic switch. 2,777,922, 1-15-57, Cl. 200—87.
- Horman, John H., to Allied Control Company, Inc. Sensitive relay. 2,797,371, 6-25-57, Cl. 317—176.
- Hormann, Frank H.: *See*—
Williams, Selden T., and Hormann. 2,780,243.
- Hormats, Saul: *See*—
Myers, Rolland D., and Hormats. 2,816,372.
- Hormel, Geo. A., & Co.: *See*—
Lindstrom, Oscar H. 2,791,800.
- Horn, Bessie: *See*—
Parrish, Albert D. 2,780,144.
- Horn, Carl A., and W. S. Morrow. Apparatus for applying adhesive in spots to sheets of paper. 2,806,443, 9-17-57, Cl. 118—3.
- Horn, Fordyce H., to General Electric Co. Crystals with small apertures. 2,806,961, 9-17-57, Cl. 250—105.
- Horn, Harry J., to Motor Wheel Corp. Vehicle wheel cover plate. 2,785,777, 3-19-57, Cl. 188—264.
- Horn, Harry J., to Motor Wheel Corp. Spring clip for vehicle wheel. 2,800,368, 7-23-57, Cl. 301—108.
- Horn, Harry J., to Motor Wheel Corp. Vehicle wheel cover. 2,818,304, 12-31-57, Cl. 301—108.
- Horn, Harry O.: *See*—
Jones, Fred H., and Horn. 2,793,264.
- Horn, Joseph G.: *See*—
Eckman, Donald P., and Horn. 2,795,239.
- Horn, Meri E., B. G. Tremblay, and F. E. Florschutz, to Westinghouse Electric Corp. Circuit breaker. 2,813,170, 11-12-57, Cl. 200—108.
- Horn, Ovid T. Weighing machines. 2,803,422, 8-20-57, Cl. 249—2.
- Horn, Thurman W.: *See*—
Reynolds, Walker, Jr., and Horn. 2,792,836.
- Hornback, Daniel B., to Phillips Petroleum Co. Breathing tank odor filter and warning device. 2,794,183, 5-28-57, Cl. 340—267.
- Hornbeck, John A.: *See*—
Haynes, James R., and Hornbeck. 2,805,347.
- Hornbeck, Robert F.: *See*—
Lekberg, Robert D., and Hornbeck. 2,809,213.
- Hornberger, Carl S., and W. R. Lewis, to Central Scientific Co. Moisture meter. 2,816,437, 12-17-57, Cl. 73—76.
- Hornberger, Carl S., Jr., to E. I. du Pont de Nemours and Co. Alkyl esters of substituted thiocyanooctanoic acids. 2,801,261, 7-30-57, Cl. 260—454.
- Hornbostel, Lloyd, to Beloit Iron Works. Torque meter. 2,783,645, 3-5-57, Cl. 73—136.
- Hornbostel, Lloyd, to Beloit Iron Works. Inlet for paper-making machine. 2,784,651, 3-12-57, Cl. 92—44.
- Hornbostel, Lloyd, to Beloit Iron Works. Paper machine dryer assembly. 2,784,652, 3-12-57, Cl. 92—49.
- Hornbostel, Lloyd, to Beloit Iron Works. Film strength tester. 2,808,563, 10-1-57, Cl. 324—65.
- Hornbostel, Lloyd, to Beloit Iron Works. Yankee drier. 2,817,908, 12-31-57, Cl. 34—110.
- Hornbostel, Lloyd, and A. A. Neese, to Beloit Iron Works. Paper forming machine. 2,779,254, 11-29-57, Cl. 92—43.
- Horne, Charles F., to Hercules Powder Co. Static resistant electric initiator. 2,802,422, 8-13-57, Cl. 102—28.
- Horne, Charles F., and E. L. Ramer, to Hercules Powder Co. Static resistant electric initiator. 2,802,421, 8-13-57, Cl. 102—28.
- Horne, Emory H., ½ to J. P. Walson. Bonding appliance. 2,818,534, 12-31-57, Cl. 317—2.
- Horne, Frederick F., and T. J. Edwards; said Edwards assor. to said Horne. Disposal of septic tank effluent and the like. 2,795,542, 6-11-57, Cl. 210—17.
- Horne, Morgan J.: *See*—
De Ronck, Andrew A. 2,801,019.
- Horne, William A.: *See*—
Gilbert, William I., and Horne. 2,816,905.
Gilbert, William I., and Horne. 2,816,906.
- Horne, William A., and C. W. Montgomery, to Gulf Research & Development Co. Process for hydrogen treatment of hydrocarbons. 2,801,208, 7-30-57, Cl. 196—53.
- Horneland, Kristian. Guide for portable power saws. 2,802,493, 8-13-57, Cl. 143—6.
- Horner, Alan C., to Canadian Westinghouse Co., Ltd. Ward Leonard control for drying-crop shear. 2,785,358, 3-12-57, Cl. 318—142.
- Horner, Collins: *See*—
Bodamer, George W., and Horner. 2,810,686.
- Horner, Fred S., Jr.: *See*—
Fath, Douglas W., and Horner. 2,783,424.
- Horner, Harlow E. Joist brace. 2,803,045, 8-20-57, Cl. 20—9.
- Horner, Kenneth K., to Birtman Electric Co. Connector for a motor brush holder. 2,794,139, 5-28-57, Cl. 310—239.
- Hornfecker, Anthony J., to Bailey Meter Co. Measuring system. 2,794,971, 6-4-57, Cl. 340—187.
- Hornsby, Sterling L. Holder and dispenser for a collapsible tube. 2,801,770, 8-6-57, Cl. 222—103.
- Hornstein, Irwin, and W. N. Sullivan; Dedicated to the Public. Insecticidal film-forming composition and method of making same. 2,809,147, 10-8-57, Cl. 167—42.
- Hornstein, Joseph J., to Dr. Ritholz & Sons Co. Contact lens. 2,809,556, 10-15-57, Cl. 88—54.5.
- Horowitz, Herbert I.: *See*—
Robbins, Joseph J., Grable, Horowitz, and Schuh. 2,786,430.
- Horowitz, Isaac M., to Polytechnic Institute of Brooklyn. Magnetic amplifiers. 2,817,717, 12-24-57, Cl. 179—171.
- Horowitz, Isadore. Truss type hanger for playground apparatus. 2,800,949, 7-30-57, Cl. 153—58.
- Horowitz, Isadore. Top fitting castings. 2,818,289, 12-31-57, Cl. 287—54.
- Horowitz, Leopold A., to Radio Corp. of America. Tunable high frequency oscillator circuit. 2,798,158, 7-2-57, Cl. 250—36.
- Horowitz, Leopold A., to Radio Corp. of America. Coupling circuits for high frequency signals. 2,809,356, 10-8-57, Cl. 333—26.
- Horrom, Bruce W., and L. R. Swett, to Abbott Laboratories. Basic salicylamides. 2,810,718, 10-22-57, Cl. 260—247.2.
- Horsdal, Paul. Boat structure. 2,815,730, 12-10-57, Cl. 114—140.
- Horsley, Caperton B., and G. C. Seavey, to Sonic Research Corp. High intensity vibratory screening device. 2,800,228, 7-23-57, Cl. 209—269.
- Horsley, David S., to Universal Pictures Co., Inc. Indicator to facilitate identification of right and left stereoscopic film strips. 2,790,348, 4-30-57, Cl. 88—16.6.
- Horsley, Lee H., to The Dow Chemical Co. Separation of alkoxyacetones and alkoxy-2-propanols from mixtures thereof. 2,805,983, 9-10-57, Cl. 202—42.
- Horsley, Lee H., and H. O. Seeburger, to The Dow Chemical Co. Polyoxalkylene derivatives of phenothiazine. 2,815,343, 12-8-57, Cl. 260—243.
- Horst, Raymond W.: *See*—
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- Horst, William R.: *See*—
Parker, James C., and Horst. 2,807,416.
- Horstman, Clifford C., to Westinghouse Electric Corp. Oriented-punching cores for dynamo-electric machines. 2,792,511, 5-14-57, Cl. 310—216.
- Horstmann, Kenneth J.: *See*—
Horstmann, Ronald B., and K. J. 2,793,692.
- Horstmann, Ronald B., and K. J. Timer valve. 2,793,692, 5-28-57, Cl. 161—7.
- Hort, Eugene V., to Nopco Chemical Co. Process for the production of 4-hydroxycoumarin. 2,781,361, 2-12-57, Cl. 260—343.2.
- Hörter, Rudolf: *See*—
Debus, Karl, and Hörter. 2,816,650.
- Horth, Walter, to Herbert Simpson Corp. Apparatus for aerating granular material. 2,781,563, 2-19-57, Cl. 22—89.
- Horth, Walter, to Herbert Simpson Corp. Method and apparatus for treating granular material. 2,813,318, 11-19-57, Cl. 22—89.
- Hortnagl, Hans, to Robert Friess K. G., Malmshiem b. Apparatus for comminuting meat and vegetables. 2,801,665, 8-6-57, Cl. 146—192.
- Horton, Donelson B., and D. Johnston, to John Blue Co., Inc. Variable-capacity metering pump. 2,811,108, 10-29-57, Cl. 103—38.
- Horton, Earl A., to The Yale & Towne Mfg. Co. Push pull device for industrial trucks. 2,787,393, 4-2-57, Cl. 214—514.
- Horton, Earl L., to S. & E. Machine Products, Inc. Centerless grinding machine. 2,791,870, 5-14-57, Cl. 51—103.
- Horton, Erwin C.: *See*—
Oishei, John R., and Horton. 2,800,675.
- Horton, Erwin C., to Trico Products Corp. Windshield cleaner. 2,793,534, 5-28-57, Cl. 74—96.
- Horton, John W.: *See*—
Anderson, Arthur G., and Horton. 2,799,844.
Heyer, Benjamin F., and Horton. 2,782,357.
- Horton Mfg. Co., Inc.: *See*—
Schilling, Hugh K. 2,784,606.
Schilling, Hugh K. 2,806,558.
- Horton, Mervin H.: *See*—
Sauter, Norman A., and Horton. 2,813,035.
- Horton, Paul B., to General Electric Co. Ceramic electrical insulator having a semiconducting glaze coating. 2,797,175, 6-25-57, Cl. 117—221.
- Horton, Paul M., and A. G. Keller, to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College. Mill for effecting separation of pith and fiber from stalky vegetable materials. 2,812,552, 11-12-57, Cl. 19—90.
- Horton, Perry A. Hoe weeder. 2,790,368, 4-30-57, Cl. 97—63.
- Horton, William F., S. J. Reisman, R. O. Decker, and R. A. Ramey, to Westinghouse Electric Corp. Magnetic amplifier for control purposes. 2,792,547, 5-14-57, Cl. 323—89.
- Horton, William G. Display and like devices. 2,814,894, 12-3-57, Cl. 40—63.
- Horton, William H., and C. B. Estes, to Eastman Kodak Co. Stereoscopic hand viewer. 2,787,191, 4-2-57, Cl. 88—29.
- Hortvet, Richard M., to A. O. Smith Corp. Apparatus for stress relieving welded pipe points. 2,789,195, 4-16-57, Cl. 219—10.57.
- Horvath, Joseph W.: *See*—
Stricklett, Lloyd P., and Horvath. 2,801,562.
- Horvay, Julius B.: *See*—
Solley, Douglas A., Jr., and Horvay. 2,795,691.

- Horvay, Julius B., to General Electric Co. Magnetic latch. 2,812,965, 11-12-57, Cl. 292-251.5.
- Horvilleur, Gabriel, to Palazzo, Horvilleur & Co. Ltd. Sesame seed decorticator. 2,815,783, 12-10-57, Cl. 146-221.8.
- Horwitt, Nathan G. Adjustable picture frame. 2,810,226, 10-22-57, Cl. 40-155.
- Horwitz, Henry L., and M. E. Homan, to International Telephone and Telegraph Corp. Combination telephone and dictation system. 2,787,659, 4-2-57, Cl. 179-6.
- Horwitz, Henry L., and G. L. Hasser, to International Telephone and Telegraph Corp. Automatic telephone systems. 2,797,262, 6-25-57, Cl. 179-27.
- Horwitz, Lester, to General Aniline & Film Corp. Synthesis of pinakryptol yellow. 2,794,802, 6-4-57, Cl. 260-240.
- Hosack, Luther J. Portable cabinet for tooth cleaning equipment. 2,790,693, 4-30-57, Cl. 312-295.
- Hose Accessories Co.: *See*—
- Albrecht, David E., and Grubich. 2,779,412.
- Hose, Alexander V., to Colt's Patent Fire Arms Mfg. Co., Inc. Machine for making box blanks. 2,789,483, 4-23-57, Cl. 93-58.
- Hosea, Everett E., to Giddings & Lewis Machine Tool Co. Presetselect automatic change speed gear shift. 2,788,675, 4-16-57, Cl. 74-472.
- Hosea, Everett E., and A. T. Godschalk, to Giddings & Lewis Machine Tool Co. Positioning means for machine tools. 2,816,454, 12-17-57, Cl. 74-472.
- Hoseason, Harry J. Wire feeder floor duct. 2,812,654, 11-12-57, Cl. 72-16.
- Hosford, William F.: *See*—
- Hess, Theophil A., and Hosford. 2,787,305.
- Odlum, William H., and Hosford. 2,796,091.
- Hosford, William F., and C. C. Wieser, to Duro Metal Products Co. Jig saw blower. 2,794,459, 6-4-57, Cl. 143-157.
- Hoshowsky, Stanley A., to Radio Corp. of America. Method for improving the dry adhesion of a phosphor screen. 2,795,514, 6-11-57, Cl. 117-33.5.
- Hosking, Oakley W., to Monroe Bag Valve Corp. Tire-curing bag and method of making the same. 2,779,061, 1-29-57, Cl. 18-45.
- Hosking, Oakley W. Life raft valve. 2,789,577, 4-23-57, Cl. 137-223.
- Hoskins, Della, and H. Arthur. Camera with an illuminating attachment. 2,803,180, 8-20-57, Cl. 95-34.
- Hoskins, Russell E. Power tool. 2,813,432, 11-19-57, Cl. 74-16.
- Hosler, John F.: *See*—
- Scalera, Mario, and Hosler. 2,784,223.
- Hosmer, A. J., Corp.: *See*—
- Brown, Noel J., and Daugherty. 2,812,961.
- Hosmer, Ellsworth A., J. S. Hawley, and A. E. Jurs, Jr., to Shand and Jurs Co. Telemetering system and apparatus. 2,814,798, 11-26-57, Cl. 340-359.
- Hosmer, Windsor A. Bark-removing apparatus having bark-impacting hammers. 2,800,934, 7-30-57, Cl. 144-208.
- Hosmer, Windsor A. Slab-debarking rotor having cushions to limit return swing of hammers to bark-impacting position. 2,800,935, 7-30-57, Cl. 144-208.
- Hospelhorn, Cecil W., to the United States of America as represented by the Secretary of the Army. Apparatus for presetting parachute release assemblies. 2,788,660, 4-16-57, Cl. 73-141.
- Hospodar, Paul S. Educational toy. 2,809,443, 10-15-57, Cl. 35-9.
- Hostetler, Charles P.: *See*—
- Curtis, James B., and Hostetler. 2,812,137.
- Hostetler, Francis R. Burial casket. 2,804,675, 9-3-57, Cl. 27-2.
- Hotchner, Fred. Display devices. 2,810,973, 10-29-57, Cl. 40-33.
- Hotelevision Co.: *See*—
- Goldenberg, Julius L. 2,792,148.
- Hotelling, Eric B.: *See*—
- Neuwirth, Martin B., and Hotelling. 2,810,765.
- Hotstream Heater Co., The: *See*—
- Morrow, Clarence H. 2,789,555.
- Hotten, Bruce W., to California Research Corp. Preparation of monoester terephthalamates. 2,798,087, 7-2-57, Cl. 260-471.
- Hotten, Bruce W., to California Research Corp. Use of lime in the preparation of monoesters of N-alkyl terephthalamic acids. 2,808,427, 10-1-57, Cl. 260-471.
- Hotten, Bruce W., to California Research Corp. Preparation of monoesters of terephthalic acid. 2,808,428, 10-1-57, Cl. 260-475.
- Hottenroth, Frederick W., Jr., to Standard-Thomson Corp. Method of making a bellows assembly. 2,779,095, 1-29-57, Cl. 29-454.
- Hottenroth, Frederick W., Jr., to Standard-Thomson Corp. Pressure regulator. 2,796,076, 6-18-57, Cl. 137-116.3.
- Hottenroth, Frederick W., Jr., to Standard-Thomson Corp. Steam traps. 2,813,681, 11-19-57, Cl. 236-56.
- Hottle, Dwight E. Golfing accessory for positioning golf tee. 2,801,852, 8-6-57, Cl. 273-33.
- Houck, William E.: *See*—
- Bramlett, William P., Jr., and Houck. 2,802,041.
- Houdaille-Hershey Corp.: *See*—
- Rickert, Willy M. 2,797,035.
- Houdaille Industries, Inc.: *See*—
- Beyer, Frederick A. 2,800,203.
- Beyer, Frederick A., and Fuente. 2,797,776.
- Boehm, Eric G., and Lautz. 2,781,869.
- Boehm, Eric G., and Lautz. 2,815,829.
- Brundage, Alan D. 2,803,146.
- Brundage, Alan D. 2,809,688.
- Brundage, Alan D. 2,811,348.
- Brundage, Alan D., McCormick, and Schatzman. 2,776,791.
- Crzenkowski, Alfred E., and Rademaker. 2,777,520.
- Dall, Edward D. 2,801,780.
- Gardes, Alfred W. 2,779,837.
- Gardes, Alfred W. 2,806,101.
- Henrich, Richard E. 2,797,211.
- Jaster, Paul J. 2,797,116.
- Johnstone, Theodore H. 2,806,727.
- Kuhn, William A., Jr. 2,790,520.
- Moore, Arthur J., Hopkins, and Johnson. 2,807,936.
- O'Connor, Bernard E. 2,777,543.
- O'Connor, Bernard E. 2,777,544.
- O'Connor, Bernard E. 2,811,227.
- O'Connor, Bernard E., and Henrich. 2,808,904.
- Potter, Elbert L., Jr. 2,793,889.
- Powell, Burnet J., and Cox. 2,814,958.
- Sandberg, Ray A. 2,783,532.
- Sebok, Joseph B. Re. 24,341.
- Sebok, Joseph B. 2,788,086.
- Sebok, Joseph B. 2,789,840.
- Sebok, Joseph B. and F. 2,781,032.
- Schatzman, George W. 2,811,373.
- Wubbe, Leo J. 2,799,325.
- Wubbe, Leo J. 2,799,495.
- Houdek, Joseph F., Jr., to International Telephone and Telegraph Corp. Telephone with a push-button impulse sender. 2,791,638, 5-7-57, Cl. 179-90.
- Houdek, Joseph F., Jr., to International Telephone and Telegraph Corp. Selective gong damper for a dual-gong ringer. 2,808,019, 10-1-57, Cl. 116-149.
- Houdry, Eugene J., to Oxy-Catalyst, Inc. Catalytic apparatus for exhaust gas treatment. 2,776,875, 1-8-57, Cl. 23-288.
- Houdry, Eugene J., to Oxy-Catalyst, Inc. Catalytic exhaust gas converter. 2,811,425, 10-29-57, Cl. 23-288.
- Houdry Process Corp.: *See*—
- Ardern, David B. 2,809,871.
- Ardern, David B., and Schall. 2,783,898.
- Boedeker, Edward R. 2,795,629.
- Bond, George R., Jr. 2,776,820.
- Bond, George R., Jr. 2,800,395.
- Bondor, Frank S., and Lebeis. 2,776,936.
- Cornelius, Edward B., Milliken, and Mills. 2,809,170.
- Heinemann, Heinz. 2,785,139.
- Heinemann, Heinz, and Mills. 2,798,105.
- Hindin, Saul G. 2,790,015.
- Hoge, Albert W. 2,781,300.
- Kirkbride, Chalmers G. 2,794,709.
- Lebeis, Edward H., Jr. 2,786,722.
- Lebeis, Edward H., Jr. 2,813,836.
- Milliken, Thomas H., Jr. 2,785,138.
- Milliken, Thomas H., Jr. 2,806,004.
- Milliken, Thomas H., Jr. 2,813,786.
- Milliken, Thomas H., Jr. 2,817,578.
- Myers, George D. 2,786,800.
- Newman, Julian. 2,778,716.
- Shabaker, Hubert A. 2,786,818.
- Shabaker, Hubert A. 2,816,010.
- Shirk, Robert M. 2,813,757.
- Voltz, Sterling E., and Weller. 2,810,698.
- Voltz, Sterling E., and Weller. 2,810,699.
- Weinrich, William W. 2,800,432.
- Weller, Sol W. 2,776,934.
- Houge, Otto T. Leveling instrument. 2,789,365, 4-23-57, Cl. 33-209.
- Hough, Frank G., to The Frank G. Hough Co. Power loaders. 2,782,946, 2-26-57, Cl. 214-140.
- Hough, Frank G. Co., The: *See*—
- Beyerstedt, Ralph L. 2,783,903.
- Beyerstedt, Ralph L. 2,790,256.
- Beyerstedt, Ralph L., and Cunningham. 2,806,617.
- Hough, Frank G. 2,782,946.
- Hough, George D., Jr., to North Star Varnish Co. Wood graining device. 2,815,601, 12-10-57, Cl. 41-5.5.
- Hough, Lewis M., to Wix Corp. Oil filters. 2,785,805, 3-19-57, Cl. 210-169.
- Hough Mfg. Corp.: *See*—
- Ensign, Robert H., and Holloway. 2,801,687.
- Holloway, Don C. 2,798,246.
- Johnson, Werner E. 2,782,845.
- Wassung, Seymour D., and Ensign. 2,808,222.
- Hough, William W., and G. W. Schaeffer, to Olin Chemical Co., Inc. Monoisopropylaminoborane polymers. 2,809,171, 10-8-57, Cl. 260-2.
- Houghton, Albert B.: *See*—
- Drott, Edward A. 2,813,595.
- Houghton, Daniel E., to the United States of America as represented by the Secretary of the Army. Cam closure. 2,779,616, 1-29-57, Cl. 292-241.
- Houghton, Daniel E., to the United States of America as represented by the Secretary of the Army. Trippable latch (for dispensing valve). 2,787,295, 4-2-57, Cl. 141-209.
- Houghton, Daniel E., to New York Wire Cloth Co. Woven fabric construction. 2,818,088, 12-31-57, Cl. 139-425.

- Houghton, Francis D., to American Viscose Corp. Method of making textile webs. 2,810,645, 10-22-57, Cl. 92-3.
- Houghton, John, and H. A. Edney, to General Motors Corp. Rotatable refrigerator, with multiple compartments. 2,784,569, 3-12-57, Cl. 62-117.3.
- Houghton, Lyle S., to Alco Valve Co. Valve with non-chattering solenoid pilot valve control. 2,783,019, 2-26-57, Cl. 251-30.
- Houghton, Lyle S., to Alco Valve Co. Snap-action valve. 2,798,689, 7-9-57, Cl. 251-75.
- Houghton, William D., to Radio Corp. of America. Color balancing apparatus. 2,790,847, 4-30-57, Cl. 178-5.4.
- Houghton, William D., to Radio Corp. of America. Synchronizing system. 2,794,858, 6-4-57, Cl. 179-15.
- Houk, Charles D., and W. E. Thompson, Jr., to The Heminway & Bartlett Mfg. Co. Harness cord. 2,795,242, 6-11-57, Cl. 139-85.
- Houldcroft, Peter T., to National Research Development Corp. Welding aluminum alloys. 2,807,541, 9-24-57, Cl. 75-143.
- Houle, Leon E. Disposal unit. 2,779,948, 2-5-57, Cl. 4-10.
- Houlsby, George W., Jr.: See—
Carlson, Martin. 2,789,814.
- Housam, Ernest C.: See—
Northcott, Roy P., and Housam. 2,793,984.
- Housdorfer, Carl R. Buffing stick feeder. 2,782,575, 2-26-57, Cl. 51-263.
- House, Bryan E., to Rockwell Spring and Axle Co. Brake assembly. 2,781,868, 2-19-57, Cl. 188-78.
- House, Clarence B. Magnetic controller. 2,795,753, 6-11-57, Cl. 323-89.
- House, Clifford N. Anti-friction bearing. 2,792,264, 5-14-57, Cl. 308-236.
- House, Frank R., to Anderson Nichols & Co. Tape-stepping device for high-speed magnetic recording. 2,814,676, 11-26-57, Cl. 179-100.2.
- House, Harvey W., to National Clay Pipe Manufacturers Inc. Pipe joint and inflatable gasket therefor. 2,815,966, 12-10-57, Cl. 285-97.
- House, Robert E., to Raytheon Mfg. Co. Frequency-modulated communication systems. 2,817,820, 12-24-57, Cl. 332-5.
- House, William R. Apparatus for discharging powdered bulk materials. 2,808,968, 10-8-57, Cl. 222-271.
- Householder, Paul L. Automatic wheel balancer. 2,801,883, 8-6-57, Cl. 301-5.
- Householder, Robert E. Tool holder. 2,807,920, 10-1-57, Cl. 51-220.
- Housel, George H., Sr. Combination fishing rod holder and automatic fish hooking device. 2,783,575, 3-5-57, Cl. 43-16.
- House of Worsted-Tex, Inc., The: See—
Mutolese, Michael. 2,800,260.
- Houser, Burdette C. Dry wall angle sander. 2,817,931, 12-31-57, Cl. 51-187.
- Houska, Lawrence R., E. Cole, and H. J. Perl, to Brown & Bigelow. Electric device for rolling sheet calendars. 2,788,180, 4-9-57, Cl. 242-55.
- Housman, Richard J., to Cardwell Westinghouse Co. Shock absorbing device. 2,810,485, 10-22-57, Cl. 213-221.
- Housset, Jean R., and M. C. V. Jean, to Societe Chimique de la Grande Paroisse Azote et Produits Chimiques. Method for converting into methane the hydrocarbons contained in gasiform mixtures intended more particularly for the synthetic production of ammonia. 2,806,003, 9-10-57, Cl. 252-376.
- Houston, David R.: See—
Taylor, John W., Jr., and Houston. 2,805,412.
- Houston Engineers, Inc.: See—
Harrison, Harry W. 2,802,703.
Webb, Derrel D. 2,807,325.
- Houston-Fearless Corp., The: See—
Dalton, Bruce H., and Lewis. 2,796,226.
- Houston, John W. Drilling head. 2,797,065, 6-25-57, Cl. 255-20.
- Houston Oil Field Material Co., Inc.: See—
Bender, John C. 2,790,140.
Bender, John C. 2,814,019.
Campise, Nash O., and Scamman. 2,810,690.
Medders, Weldon L., and Foreman. 2,801,078.
Roper, Winston R. 2,779,570.
- Houston Well Screen Co.: See—
Hess, Jack. 2,811,882.
- Houtman, Jacobus M.: See—
Combée, Bart, and Houtman. 2,797,350.
- Houtman, Thomas, to The Dow Chemical Co. Preparation of o,o'-thiodiphenol. 2,802,877, 8-13-57, Cl. 260-609.
- Houtman, Thomas, Jr., T. E. Zurawie, and J. S. Spriggs, to The Dow Chemical Co. Method of drying butylene oxides. 2,779,721, 1-29-57, Cl. 202-42.
- Hovde, Arne J., to General Motors Corp. Internal combustion engine. 2,818,055, 12-31-57, Cl. 123-193.
- Hövel, Josef: See—
Flatz, Emil R., Hövel, and Roggendorff. 2,816,529.
- Hovel, Margareta E.: See—
Flatz, Emil R., Hovel, and Roggendorff. 2,816,529.
- Hoven, Alfred C., and W. S. Lindberg, to American Seating Co. Underseat bookrack. 2,783,829, 3-5-57, Cl. 155-188.
- Hoven, Alfred C., and W. E. Nordmark, to American Seating Co. Church pew. 2,786,513, 3-26-57, Cl. 155-78.
- Hoven, Alfred C., and W. E. Nordmark, to American Seating Co. Chair construction. 2,800,171, 7-23-57, Cl. 155-191.
- Hoven, Alfred C., W. E. Nordmark, and D. N. Humphries, to American Seating Co. Folding vertically adjustable table. 2,805,906, 9-10-57, Cl. 311-95.
- Hovey, Otis W., to United States Steel Corp. Sheet-metal gutter board. 2,784,687, 3-12-57, Cl. 108-28.
- Hovind, Albert H. Spring suspension. 2,802,663, 8-13-57, Cl. 267-28.
- Hovland, Howard N., to Marathon Corp. Carton. 2,789,746, 4-25-57, Cl. 229-16.
- Howald, Jeremiah M., and C. D. Marshall, to Shell Development Co. Production of 1,2,3,4,7,7-hexachlorobicyclo [2.2.1]-2,5-heptadiene. 2,813,915, 11-19-57, Cl. 260-648.
- Howard, Arthur C., to Rotary Hoes Ltd. Tractor with power take-off and implement coupling means. 2,792,900, 6-21-57, Cl. 180-53.
- Howard, Arthur C., to Rotary Hoes Ltd. Earth-working rotor for an earth-working machine. 2,811,912, 11-5-57, Cl. 97-215.
- Howard, Charles F., to The Standard Register Co. Strip feeding means in autographic registers. 2,795,417, 6-11-57, Cl. 271-2.3.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. 4-onium-2,3,5-trichalcogenpyrrolidylides and their preparation. 2,786,060, 3-19-57, Cl. 260-296.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Mercaptois and acetals of 5-oxo-1,3-dithiane. 2,790,810, 4-30-57, Cl. 260-327.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. 5-oxo-1,3-dithianes. 2,790,811, 4-30-57, Cl. 260-327.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Esters of 5-keto-1,3-dioxacyclohexanes and their preparation. 2,798,078, 7-2-57, Cl. 260-340.7.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Alpha-halo-alpha-imino-substituted pyrrolines and piperidines and their acid salts and method for their preparation. 2,810,726, 10-22-57, Cl. 260-296.
- Howard, Elra F. Dispensing device. 2,799,881, 7-23-57, Cl. 15-137.
- Howard, Everett W., and H. P. Wickham, to M. W. Kellogg Co. Fluid system. 2,788,311, 4-9-57, Cl. 196-52.
- Howard, Frank A. Pneumatic tire. 2,811,189, 10-29-57, Cl. 152-342.
- Howard, Frank F., Jr.: See—
Howard, Frank F., Sr. and F. F. Howard, Jr. 2,785,869.
- Howard, Frank F., Sr. and F. F. Howard, Jr. Fish leader container. 2,785,869, 3-19-57, Cl. 242-96.
- Howard, Fred A. Hoist. 2,815,927, 12-10-57, Cl. 254-168.
- Howard, George C.: See—
Clark, Roscoe C., Jr., and Howard. 2,779,417.
Clark, Roscoe C., Jr., and Howard. 2,782,857.
- Howard, George C., to Stanolind Oil and Gas Co. Plugging formations with hot solutions. 2,779,415, 1-29-57, Cl. 166-30.
- Howard, George C., and P. P. Scott, Jr., to Pan American Petroleum Corp. Recovery of lost circulation in a drilling well. 2,801,077, 7-30-57, Cl. 255-1.8.
- Howard, George E., deceased: The Valley National Bank of Phoenix, administrator. Speed indicator for motor vehicles. 2,798,911, 7-9-57, Cl. 200-56.
- Howard, George H. Vacuum bottle rack. 2,815,047, 12-3-57, Cl. 141-275.
- Howard, Harry. Load distributing insert for pneumatic tires. 2,781,074, 2-12-57, Cl. 152-204.
- Howard Industries, Inc.: See—
Ernst, W. Arthur. 2,800,374.
- Howard, John C.: See—
Howard, John J. 2,805,146.
- Howard, John J., to John C. Howard. Ore reduction in cans. 2,805,146, 9-3-57, Cl. 75-38.
- Howard, John P. Wall paper remover. 2,781,755, 2-19-57, Cl. 126-271.1.
- Howard, Joseph A.: See—
McClain, Richard L. 2,800,334.
- Howard, Joseph O. Counting and display annunciator. 2,777,229, 1-15-57, Cl. 40-53.
- Howard, Kenneth C. Electrolytic method for forming cavities in shale for storage of fluids. 2,806,818, 9-17-57, Cl. 204-180.
- Howard, Lauren A. Water skiing apparatus. 2,776,443, 1-8-57, Cl. 9-18.
- Howard, Leonard J. Dental matrix holders and clamp. 2,805,477, 9-10-57, Cl. 32-63.
- Howard, Louis A., to International Business Machines Corp. Card analyzer. 2,807,414, 9-24-57, Cl. 235-61.11.
- Howard, Rhey H. Rock picking machine. 2,795,910, 6-18-57, Cl. 55-17.
- Howard, Robert M., to Gulf Research & Development Co. Automatic tank switcher. 2,792,012, 5-14-57, Cl. 137-122.
- Howard, Sherman B. Combined seesaw and roundabout. 2,810,577, 10-22-57, Cl. 272-30.
- Howard-Smith, Anthony: See—
Daffurn, Roland M., and Howard-Smith. 2,785,915.
- Howard, Stanley R., to Pneumatic Scale Corp., Ltd. Container handling machines. 2,776,047, 1-1-57, Cl. 198-232.
- Howard, Walter B., to Monsanto Chemical Co. Acetylene solution. 2,800,978, 7-30-57, Cl. 183-115.

- Howard, Wellington R., and W. Margulis, to the United States of America as represented by the Secretary of the Army. Elastic action cannon bore scavenger. 2,779,241, 1-29-57, Cl. 89-1.
- Howard, Wellington R., and H. P. Matson, to the United States of America as represented by the Secretary of the Army. Bore evacuator for gun barrels. 2,807,986, 10-1-57, Cl. 89-1.
- Howards of Ilford Ltd.: *See*—
Peppiatt, Edward G., and Wicker. 2,790,835.
- Howarth, Edward T. Comfort mat. 2,804,911, 9-3-57, Cl. 155-182.
- Howden, James, & Co., Ltd.: *See*—
Easton, John A. 2,799,355.
- Howden, James W.: *See*—
Chavannes, Marc A., and Howden. 2,808,098.
- Howden, James W., to Permex Corp. Quilted material. 2,816,054, 12-10-57, Cl. 154-54.
- Howdle, Frederic E., to Cutler-Hammer, Inc. Apparatus for handling sheet-like articles. 2,787,363, 4-2-57, Cl. 198-33.
- Howdle, Frederic E., to Cutler-Hammer, Inc. Switching mechanism for conveyors. 2,795,312, 6-11-57, Cl. 198-31.
- Howe, Charles A., to Merck & Co., Inc. Process for producing riboflavin. 2,807,611, 9-24-57, Cl. 260-211.3.
- Howe, Elra F. Securing means for a vise. 2,778,258, 1-22-57, Cl. 81-41.
- Howe Folding Furniture Corp.: *See*—
Howe, Harold. 2,780,506.
Howe, Harold. 2,785,033.
- Howe, Harold, to Howe Folding Furniture, Inc. Folding sectional table with latch mechanism. 2,780,506, 2-5-57, Cl. 311-89.
- Howe, Harold, to Howe Folding Furniture Corp. Sectional top folding table. 2,785,033, 3-12-57, Cl. 311-89.
- Howe, Harold S., H. B. Hindin, and R. S. Klang, to United States Rubber Co. Pneumatic tire. 2,786,507, 3-26-57, Cl. 152-355.
- Howe, Jack E., and C. J. Stefan. Reciprocating barn cleaner conveyor. 2,790,537, 4-30-57, Cl. 198-79.
- Howe, James T., and F. Herze, Jr., to the United States of America as represented by the United States Atomic Energy Commission. Tolerance inspection gage. 2,792,634, 5-21-57, Cl. 33-168.
- Howe Scale Co., The: *See*—
Bates, Clyde N. 2,776,133.
Hajos, Eugene. 2,809,781.
- Howe, Thomas G., to Gestetner Ltd. Stencil duplicating machines. 2,778,299, 1-22-57, Cl. 101-118.
- Howe, Wilfred C.: *See*—
Bergstrom, Carl P., and Howe. 2,799,297.
- Howe, Wilfred H., to The Foxboro Co. Gas analyzer. 2,782,102, 2-19-57, Cl. 23-255.
- Howe, Wilfred H., and L. G. S. Wood, to The Foxboro Co. Hydrogen ion concentration measuring apparatus. 2,778,990, 1-22-57, Cl. 324-30.
- Howell, Alleyne C., Jr.: *See*—
Stiner, Stewart, Stephenson, and Howell. 2,787,402.
- Howell, Clarence, to Armstrong Cork Co. Transfer device. 2,818,157, 12-31-57, Cl. 198-31.
- Howell, Edward T., to E. I. du Pont de Nemours and Co. Production of phthalocyanine colors in pigmentary state. 2,816,115, 12-10-57, Cl. 260-314.5.
- Howell, Forrest W., to Thompson Products, Inc. Valve seat insert. 2,800,122, 7-23-57, Cl. 123-188.
- Howell, Frank L., to International Harvester Co. Vehicle body ventilating and defrosting means. 2,789,007, 4-16-57, Cl. 296-28.
- Howell, Frank L., to International Harvester Co. Combined hinge and latch device. 2,817,870, 12-31-57, Cl. 16-147.
- Howell, George B., to Empire Steel Products Corp. Projection reader. 2,782,680, 2-26-57, Cl. 88-24.
- Howell, Hugh A., and E. B. Offutt, to The Indiana Steel Products Co. Driving, braking and reeling means for an elongated strip. 2,778,580, 1-22-57, Cl. 242-55.
- Howell, Hugh A., and H. W. Bauman, to Ampro Corp. Magnetic transducer head. 2,801,293, 7-30-57, Cl. 179-100.2.
- Howell, John D., and C. R. Nelson, to Willcox & Gibbs Sewing Machine Co. Looper with removable thread wire. 2,778,329, 1-22-57, Cl. 112-199.
- Howell, John F., to General Electric Co. Ray detecting system and method of stabilizing same. 2,783,387, 2-26-57, Cl. 250-83.3.
- Howell, Joseph C. Arch support for the human foot. 2,779,110, 1-29-57, Cl. 36-71.
- Howell, Lawrence O. Heater having a fire control damper. 2,803,240, 8-20-57, Cl. 126-93.
- Howell, Mark E. Feed mixing apparatus. 2,799,483, 7-16-57, Cl. 259-10.
- Howell, Martin R. Pocket engaging holder and case. 2,795,023, 6-11-57, Cl. 24-3.
- Howell, Miles O.: *See*—
Boone, Harris D., Howell, and Barry. 2,787,333.
- Howell, Robert C., to Phillips Petroleum Co. Quench for furnace type reactors. 2,781,251, 1-2-57, Cl. 23-277.
- Howell, Sabert N., and W. Derganc, to the United States of America as represented by the Secretary of the Navy. Self-balancing servo circuit. 2,814,005, 11-19-57, Cl. 318-28.
- Howell, William, to Mallory-Sharon Titanium Corp. Consumable titanium electrode. 2,792,621, 5-21-57, Cl. 29-184.
- Howell, William D., to the United States of America as represented by the United States Atomic Energy Commission. Automatic counting apparatus. 2,803,405, 8-20-57, Cl. 235-92.
- Howells, John R.: *See*—
Watts, Bernard N., and Howells. 2,794,926.
- Hower, Wayne F.: *See*—
Hinchliffe, William E., and Hower. 2,796,131.
Roberts, Hayden, and Hower. 2,800,963.
- Hower, Wayne F., to Halliburton Oil Well Cementing Co. Process for increasing permeability of underground formation. 2,803,306, 8-20-57, Cl. 166-29.
- Hower, Wayne F., and J. A. Knox, to Halliburton Oil Well Cementing Co. Method of controlling loose sand. 2,815,815, 12-10-57, Cl. 166-20.
- Howery, Richard W., A. M. Sheeder, and S. C. Stribling, Jr., to Radio Corp. of America. Automatic frequency control system which stops hunting when in tune. 2,798,946, 7-9-57, Cl. 250-20.
- Hoves, Donald A.: *See*—
Porter, Frederick W. B., Hoves, and Morris. 2,800,429.
- Hoves, Edgar T., to United Geophysical Corp. Seismic prospecting apparatus. 2,788,510, 4-9-57, Cl. 340-17.
- Hoves, Edgar T., to United Geophysical Corp. Cable. 2,788,513, 4-9-57, Cl. 340-17.
- Hoves, John T., to Redmond Co., Inc. Electric motor stator. 2,810,845, 10-22-57, Cl. 310-172.
- Howey, Edwin M.: *See*—
Howey, Walter C. 2,793,253.
- Howey, Walter C., deceased; W. S. Brooks, J. P. Murphy, and E. M. Howey, executors. Telegraphone recording and reproducing system. 2,793,523, 5-21-57, Cl. 179-100.2.
- Howie, Kenneth, to Wildman Mfg. Co. Yarn traversing mechanism for knitting machines. 2,780,083, 2-5-57, Cl. 66-126.
- Howie, Kenneth. Full fashioned knitting machine. 2,795,122, 6-11-57, Cl. 66-109.
- Howie, Robert K., to The Grigolet Co. Removable securing means for dial indicator knobs. 2,815,230, 12-3-57, Cl. 287-53.
- Howk, Benjamin W.: *See*—
Arnold, Herrick R., and Howk. 2,788,258.
Fawcett, Frank S., and Howk. 2,793,241.
- Howland, Louis H., to United States Rubber Co. Wax-coated synthetic rubber crumb coagula for incorporation in asphalt. 2,779,745, 1-29-57, Cl. 260-28.5.
- Howland, Louis H., to United States Rubber Co. Synthetic rubber and rosin. 2,784,165, 3-5-57, Cl. 260-27.
- Howland, Roland J. Roofer's helper. 2,813,344, 11-19-57, Cl. 33-70.
- Howland, Walter L., to Lockheed Aircraft Corp. Pressure measuring systems. 2,814,198, 11-26-57, Cl. 73-147.
- Howie, Edward S. Illuminated center post for phonograph turntables. 2,788,437, 4-9-57, Cl. 240-212.
- Howlett, Edward J., to Isaac Braithwaite & Sons Engineers Ltd. Timing devices for laundry folding machines. 2,786,671, 3-26-57, Cl. 270-68.
- Howlett, Edward J., T. J. Purvis, and B. A. Clark, to Isaac Braithwaite & Son Engineers Ltd. Apparatus for heating and removing dirt from washing machine liquid. 2,803,124, 8-20-57, Cl. 68-18.
- Howlett, Frank H.: *See*—
Howlett, George H. 2,807,962.
- Howlett, George H., to F. H. Howlett. Vehicle drive mechanism. 2,807,962, 10-1-57, Cl. 74-15.88.
- Howlett, John, and H. R. Archer, to The Distillers Co. Ltd. Concentration of aqueous methacrolein solution. 2,800,434, 7-23-57, Cl. 202-40.
- Howlett, John W., and S. B. Dew, to Fairchild Engine and Airplane Corp. Turbine stator blade. 2,807,435, 9-24-57, Cl. 253-77.
- Howry-Berg Steel & Iron Works, Inc.: *See*—
Liston, Earl C. 2,813,618.
- Howry, Douglass H. Method of producing short pulse echo signals. 2,778,002, 1-15-57, Cl. 340-3.
- Howsmen, John A.: *See*—
Thumm, Byron A., Lytton, and Howsmen. 2,792,280.
- Howze, James B., to Insley Mfg. Corp. Parking brake. 2,809,723, 10-15-57, Cl. 188-106.
- Hoy, Thomas H. Brush retractors. 2,780,949, 2-12-57, Cl. 81-3.
- Hoye, Emmett J. Grinding wheels. 2,806,331, 9-17-57, Cl. 51-168.
- Hoye, Peder B. High voltage power switch. 2,806,097, 9-10-57, Cl. 200-48.
- Hoyer, James I. Economy air conditioning system. 2,804,816, 9-3-57, Cl. 98-33.
- Hoyer, Llewellyn E., to American Brake Shoe Co. Journal box dust guards. 2,793,885, 5-28-57, Cl. 286-6.
- Hoyer, Llewellyn E., to American Brake Shoe Co. Journal box dust guards. 2,798,746, 7-9-57, Cl. 286-6.
- Hoyer, Norman S., to Gibson Electric Co. Process for improving homogeneity of silver or copper refractory contact materials. 2,813,808, 11-19-57, Cl. 117-227.
- Höyer, Oluf G. Machine for producing solid moulded bodies, especially ice-cream bricks. 2,791,890, 5-14-57, Cl. 62-114.
- Hoyer, Wilmer A.: *See*—
Prokoff, Charles L., Wrightsman, Hoyer, and Taggart. 2,808,248.

- Hoyer, Wilmer A., and M. S. Haggart, Jr., to Esso Research and Engineering Co. Sulfur mining using heating by electrolysis. 2,801,090, 7-30-57, Cl. 262-3.
- Hoyet, Eugene, and E. J. Hazen, to Pittsburgh Plate Glass Co. Apparatus for grinding glass. 2,776,527, 1-8-57, Cl. 51-209.
- Hoyle, James E. Control device for model airplanes. 2,808,682, 10-8-57, Cl. 46-77.
- Hoyt, Clyde W.: *See*—
Thomas, Lucius P., and Hoyt. 2,791,627.
- Hoyt, Donald A.: *See*—
Kaplan, Arthur Y., Hoyt, Smith, Tafel, Tavani, Christian, and Weiss. 2,796,815.
- Hoyt, Donald A. Auxiliary trajectory recording means for cameras. 2,791,165, 5-7-57, Cl. 95-36.
- Hoyt, Donald A., to United States of America as represented by the Secretary of the Navy. Trajectory recording camera. 2,791,166, 5-7-57, Cl. 95-36.
- Hoyt, Fred W., and D. L. Kendall, to Eastman Kodak Co. Gelatin coating solution for film support. 2,776,219, 1-1-57, Cl. 106-128.
- Hoyt, Harold R., to Great Lakes Pipe Line Co. Apparatus for automatic flow control in conduits. 2,795,235, 6-11-57, Cl. 137-99.
- Hoyt, Harold R., to Great Lake Pipe Line Co. Intermittently operable rotary clutch unit. 2,815,107, 12-3-57, Cl. 192-22.
- Hoyt, Herbert L., and E. B. Byam, to The Waterbury Farrell Foundry & Machine Co. Transfer mechanism for progressive headers and the like. 2,791,786, 5-14-57, Cl. 10-12.
- Hoyt, John M., to The M. W. Kellogg Co. Polymerization of trifluorobromoethylene. 2,793,202, 5-21-57, Cl. 260-92.1.
- Hoyt, Karl R., 25% to S. B. Hoar. Multi-frame films and method of production. 2,786,386, 3-26-57, Cl. 88-24.
- Hoyt, Karl R., 25% to S. B. Hoar. Television camera color attachment. 2,809,232, 10-8-57, Cl. 178-5.4.
- Hoyt, Paul R.: *See*—
Bremer, Andrew, Holzmann, and Hoyt. 2,788,264.
- Hoyt, Robert G.: *See*—
Banes, Fred W., Nelson, and Hoyt. 2,798,865.
- Hronek, Robert L., and H. Cook, to the United States of America as represented by the Secretary of the Navy. Pulse interval divider. 2,797,323, 6-25-57, Cl. 250-27.
- Hrubesch, Adolf: *See*—
Friedrich, Herbert, and Hrubesch. 2,805,248.
- Hrubik, William: *See*—
Agle, Carlton G., and Hrubik. 2,802,506.
- Hruby, John O., Jr., to Rain Jet Corp. Flow restrictor. 2,810,607, 10-22-57, Cl. 299-60.
- Hruska, Howard E., to Bendix Aviation Corp. Valve. 2,781,781, 2-19-57, Cl. 137-621.
- Hrycan, Zenon. Device for shaking down the mercury in a clinical thermometer. 2,787,161, 4-2-57, Cl. 73-373.
- Hrynyszak, Waldemar, to C. A. Parsons & Co. Ltd. Combined combustion chamber, heat exchanger and flame trap for combustion turbine plants. 2,795,109, 6-11-57, Cl. 60-39.51.
- Hrynyszak, Waldemar, to C. A. Parsons & Co. Ltd. Regenerative heat exchangers. 2,803,438, 8-20-57, Cl. 257-6.
- Hsu, Chieh S.: *See*—
Toeppen, Thurston H., and Hsu. 2,792,779.
- Huang, Hsing T., and C. V. Smythe, to Rohm & Haas Co. Production of L-glutamic acid. 2,798,839, 7-9-57, Cl. 195-47.
- Huard, George R., Jr., to Motorola, Inc. Transistor unit. 2,779,901, 1-29-57, Cl. 317-235.
- Huard, George R., Jr., to Motorola, Inc. Transistor unit. 2,795,745, 6-11-57, Cl. 317-235.
- Huau, Marguerite. Material in glass fibre and new industrial product resulting therefrom. 2,810,405, 10-22-57, Cl. 139-383.
- Hub Electric Co.: *See*—
Fuchs, Theodore. 2,778,957.
- Hub Plating Works, Inc.: *See*—
Hudd, Samuel L. 2,793,800.
- Hubacker, Earl F.: *See*—
King, Ralph E., and Hubacker. 2,776,547.
- Hubálek, Jan: *See*—
Hubálek, Karel and J., Pinkas, Zák, Zert, and Kuttan. 2,804,004.
- Hubálek, Karel and J., and J. Pinkas, K. Zák, V. Zert, and K. Kuttan, to Vyzkumny ustav Zemelskych Strojů. Device for controlled thinning of plants. 2,804,004, 8-27-57, Cl. 97-19.
- Hubbard, Addison W.: *See*—
Nelson, Joseph F., Banes, and Hubbard. 2,801,270.
- Hubbard, Arthur B., and A. M. Fleming, to Chrysler Corp. Hydraulic tappet. 2,791,193, 5-14-57, Cl. 123-90.
- Hubbard, Arthur L., to Deere Mfg. Co. Cotton picker spindle assembly. 2,785,524, 3-19-57, Cl. 56-50.
- Hubbard, Arthur L., to Deere Mfg. Co. Cotton picking auger. 2,796,716, 6-25-57, Cl. 56-50.
- Hubbard, Arthur R., to United Shoe Machinery Corp. Lasting machines. 2,778,039, 1-22-57, Cl. 12-12.
- Hubbard, Arthur R., and A. S. Dorosz, to United Shoe Machinery Corp. Lasts. 2,806,233, 9-17-57, Cl. 12-133.
- Hubbard, Bruce W., to Ideal Roller and Mfg. Co. Dampener for offset lithographic printing. 2,787,213, 4-2-57, Cl. 101-147.
- Hubbard, Harold C. Oscillator. 2,801,339, 7-30-57, Cl. 250-36.
- Hubbard, Harry V., M. J. Couchot, and R. Hawley. Litter trap for railroad rock slide signal. 2,813,197, 11-12-57, Cl. 246-121.
- Hubbard, James R., to General Electric Co. Centrifugal motor protection clutch. 2,780,335, 2-5-57, Cl. 192-105.
- Hubbard, Merle R., to Collins Radio Co. Tuner. 2,810,833, 10-22-57, Cl. 250-40.
- Hubbard Spool Co.: *See*—
Tucker, George G. 2,810,531.
- Hubbard, Walter E., to Western Electric Co., Inc. Socket wrench having nut-retaining means. 2,798,394, 7-9-57, Cl. 81-125.
- Hubbard, William R. Collapsible desk table for automobiles. 2,792,267, 5-14-57, Cl. 311-21.
- Hubbell, Harvey, to Harvey Hubbell, Inc. Means of mounting contacts in electrical receptacles. 2,780,790, 2-5-57, Cl. 339-164.
- Hubbell, Harvey, Inc.: *See*—
Healy, Joseph F. 2,786,912.
- Hubbell, Harvey. 2,780,790.
- Webster, Benjamin C. 2,815,495.
- Webster, Benjamin C., and Hubbell. 2,810,116.
- Hubbell, Herald L. Cabinet and elevating apparatus. 2,790,689, 4-30-57, Cl. 312-21.
- Hubel, Emil. Lighter. 2,800,784, 7-30-57, Cl. 67-7.1.
- Hubel, Ernst, to The Babcock & Wilcox Co. Fuel burning apparatus. 2,793,626, 5-28-57, Cl. 122-235.
- Huber, Albert L., to Link-Belt Co. Skip hoist. 2,776,059, 1-1-57, Cl. 214-16.
- Huber, Dudley A. Apparatus for continuous chemical cleaning and conditioning of paper mill wet felts. 2,792,258, 5-14-57, Cl. 299-84.
- Huber, Eugen, O. Wahl, and J. Hilger, to Farbenfabriken Bayer Aktiengesellschaft. Yellow substantive azo dyestuffs and process of making the same. 2,787,614, 4-2-57, Cl. 260-178.
- Huber, Harry: *See*—
Epsztajn, Bernard, and Huber. 2,791,717.
- Warnecke, Robert, Kleen, Huber, and Dohler. 2,794,146.
- Huber, Harry, to Compagnie Generale de Telegraphie Sans Fil. Emissive cathodes. 2,786,957, 3-26-57, Cl. 313-346.
- Huber, Harry, to Compagnie Generale de Telegraphie Sans Fil. Space-charge wave tubes. 2,794,936, 6-4-57, Cl. 315-3.6.
- Huber, Harry, to Compagnie Generale de Telegraphie Sans Fil. Space-charge wave detector tubes. 2,804,569, 8-27-57, Cl. 315-3.5.
- Huber, J. M., Corp.: *See*—
Cuthbertson, Charles R., and Bertorelli. 2,806,771.
- Voet, Andries. 2,785,079.
- Williams, Ira. 2,793,134.
- Huber, John R., to Eastern Rotorcraft Corp. Load binder device. 2,777,668, 1-15-57, Cl. 254-72.
- Huber, John R., to Eastern Rotorcraft Corp. Cargo tie down device having quick release engageable mechanism. 2,784,938, 3-12-57, Cl. 254-67.
- Huber, Karl: *See*—
Baasner, Wilhelm, and Huber. 2,794,365.
- Huber, Louis J., to General Mills, Inc. Cereal. 2,788,277, 4-9-57, Cl. 99-83.
- Huber Mfg. Co., The: *See*—
Gifford, Clayton E. 2,798,315.
- Huber, Matthew W., to The New York Air Brake Co. Rotary engine. 2,785,639, 3-19-57, Cl. 103-173.
- Huber, Max: *See*—
Fresard, Marcel, and Huber. 2,775,884.
- Fresard, Marcel, and Huber. 2,797,570.
- Huber, Richard D.: *See*—
Bruce, William F., Diamond, and Huber. 2,813,874.
- Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie, S. A. Adjusting devices for free piston machines. 2,779,156, 1-29-57, Cl. 60-13.
- Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie, S. A. Starters for free piston engines, more particularly for free piston prime movers. 2,795,927, 6-18-57, Cl. 60-14.
- Huber, Theodore A., to Esso Research and Engineering Co. Method and apparatus for working over wells. 2,796,130, 6-18-57, Cl. 166-21.
- Huber, Theodore A., to Esso Research and Engineering Co. Method for completing and working over wells. 2,818,119, 12-31-57, Cl. 166-21.
- Huber, Wilson F., and N. B. Tucker, to The Procter & Gamble Co. Method for preparing fatty esters of non-reducing oligosaccharides in the presence of sulfoxides. 2,812,324, 11-5-57, Cl. 260-234.
- Huber, Wolfgang: *See*—
Brasch, Arno, Huber, and Waly. 2,796,545.
- Brasch, Arno, Huber, and Waly. 2,806,797.
- Brasch, Arno, Huber, and Waly. 2,807,549.
- Brasch, Arno, Huber, and Waly. 2,807,551.
- Hubmeier, Max, to Aktiengesellschaft der Maschinenfabrik von Theodore Bell & Cie. Apparatus for corrugating paper or cardboard. 2,793,676, 5-28-57, Cl. 154-30.
- Huck, Alfred J., to Knapp-Monarch Co. Temperature control. 2,784,289, 3-5-57, Cl. 219-20.
- Huck, Alfred J., to Knapp-Monarch Co. Temperature compensated control mechanism for electric blanket. 2,794,896, 6-4-57, Cl. 219-20.
- Huck, Alfred J., to Knapp-Monarch Co. Toaster control using a negative temperature coefficient resistor. 2,806,421, 9-17-57, Cl. 99-329.

- Huck Co.: *See*—
 Huck, William F. 2,779,591.
 Huck, William F. 2,787,463.
 Huck, William F. 2,801,847.
- Huck Mfg. Co.: *See*—
 Brilmyer, Harold G. 2,804,798.
 Griffith, Raymond C., and Van Hecke. 2,789,539.
- Huck, William F., to Huck Co. Device for automatically maintaining side registry in traveling webs. 2,779,591, 1-29-57, Cl. 271-2-6.
- Huck, William F., to Huck Co. Web tension control mechanism. 2,787,463, 4-2-57, Cl. 271-2-3.
- Huck, William F. Magnetically operated valves. 2,792,194, 5-14-57, Cl. 251-65.
- Huck, William F., to Huck Co. Web feeding for drying or like purposes. 2,801,847, 8-6-57, Cl. 271-2-3.
- Huck, William F. Machine for severing and trimming paper products and the like. 2,804,189, 8-27-57, Cl. 198-21.
- Huck, William F. Expandable pulleys. 2,812,666, 11-12-57, Cl. 74-230.17.
- Huck, William V.: *See*—
 Frederick, Russell E., Fritts, and Huck. 2,811,569.
- Huckshold, Elmer J., to Central Mine Equipment Co. Cone bit head. 2,787,502, 4-2-57, Cl. 308-8.2.
- Hudak, Albert A. Stenographic note positioning device. 2,803,217, 8-20-57, Cl. 120-32.
- Hudak, John, to The Paul Bunyan Bait Co. Apparatus for reinforcing and coating rods. 2,816,595, 12-17-57, Cl. 154-1.7.
- Hudd, Samuel L., to Hub Plating Works, Inc. Step stool. 2,793,800, 5-28-57, Cl. 228-17.
- Huddle, Edwin F., to International Harvester Co. Double pitman positioner for mowers. 2,806,340, 9-17-57, Cl. 56-283.
- Hudgins, John E., to Allis-Chalmers Mfg. Co. Adjustable grain bin unloading auger assembly for threshing machines. 2,783,907, 3-5-57, Cl. 214-522.
- Hudman, Wesley. Opener for strip-type can. 2,806,627, 9-17-57, Cl. 220-52.
- Hudson, Archie C. Can opening device. 2,778,103, 1-22-57, Cl. 30-16.
- Hudson, Arthur F. Pyramidal tool and holder. 2,808,637, 10-8-57, Cl. 29-96.
- Hudson Bay Mining and Smelting Co. Ltd.: *See*—
 Morrison, Benjamin. 2,784,370.
- Hudson, Donald C., and J. W. Kumpula, to the United States of America as represented by the Secretary of the Army. Apparatus for producing radiographs of selected structures within a subject. 2,798,958, 7-9-57, Cl. 250-61.5.
- Hudson, Duncan G. Jalousies. 2,804,921, 9-3-57, Cl. 160-104.
- Hudson, Ela: *See*—
 Hudson, Opal F. and E. 2,776,497.
- Hudson Electrochemical Co.: *See*—
 Truehaft, Milton A., and Swanson. 2,782,160.
- Hudson Engineering Corp.: *See*—
 Turner, Nelson C. 2,815,089.
- Hudson Foam Plastics Corp.: *See*—
 Shuffman, Oscar. 2,816,741.
- Hudson, Forrest H.: *See*—
 Bobo, Walton E., and Hudson. 2,803,276.
- Hudson, Frederick W., to The Haloid Co. Xerographic powder-image transfer squeegee. 2,807,232, 9-24-57, Cl. 118-500.
- Hudson, Gilbert to M. A. Lapin. Dispensing cap. 2,816,550, 12-17-57, Cl. 128-272.
- Hudson, H. D., Mfg. Co.: *See*—
 Hudson, Robert C., Oys, and Pinke. 2,792,170.
 Landgraf, Jacob T. 2,789,534.
 Landgraf, Jacob T. 2,808,028.
- Hudson, Holland R., and C. F. Pabst, to The Lodge & Shipley Co. Pre-selector dial devices. 2,805,552, 9-10-57, Cl. 60-97.
- Hudson, James A., and S. H. Royer, to Union Carbide Corp. Welding torch wire feed. 2,808,498, 10-1-57, Cl. 219-130.
- Hudson, Kenneth C., to Minneapolis-Honeywell Regulator Co. Fluid flow measuring apparatus. 2,776,565, 1-8-57, Cl. 73-204.
- Hudson, Opal F. Chair with drier. 2,776,496, 1-8-57, Cl. 34-90.
- Hudson, Opal F. and E. Hair drier. 2,776,497, 1-8-57, Cl. 34-90.
- Hudson, Paul S.: *See*—
 Potts, Mack F., Hudson, and Young. 2,776,975.
- Hudson Pulp & Paper Corp.: *See*—
 Hatch, Raymond S., and Roberson. 2,791,512.
- Hudson, Randolph W. Glove compartment door service tray for vehicles. 2,789,861, 4-23-57, Cl. 296-37.
- Hudson, Robert B., to Monsanto Chemical Co. Method of continuously producing a phosphorus sulfide. 2,794,705, 6-4-57, Cl. 23-206.
- Hudson, Robert C., J. E. Oys, and A. H. Pinke, to H. D. Hudson Mfg. Co. Compressor. 2,792,170, 5-14-57, Cl. 230-190.
- Hudson, Robert L.: *See*—
 Gordon, David A., and Hudson. 2,794,052.
- Hudson, Russell O., to W. E. Cole II. Detachable typewriter lamp. 2,800,573, 7-23-57, Cl. 240-2.
- Hudson, Thomas B., to Curry Air Shear Corp. Shear control mechanism. 2,780,285, 2-5-57, Cl. 164-41.
- Hudson, Thomas B., to Phillips Petroleum Co. Underground storage system. 2,803,114, 8-20-57, Cl. 61.5.
- Hudson Trust Co.: *See*—
 Schmidt, Alfred. 2,804,488.
- Hudson, William L. Removable bank mechanism for periodic coin collector. 2,783,937, 3-5-57, Cl. 232-15.
- Hudspeth, Thomas: *See*—
 Clapp, Roger W., and Hudspeth. 2,817,084.
- Huebler, Jack, and D. Beggs, to Surface Combustion Corp. Metallurgical gas generator. 2,786,741, 3-26-57, Cl. 23-281.
- Huebler, Jack, and D. Beggs, to Surface Combustion Corp. Induration process for powdered iron oxide containing material. 2,793,109, 5-21-57, Cl. 75-3.
- Huebner, Charles F.: *See*—
 MacPhillamy, Harold B., St. André, and Huebner. 2,788,347.
 MacPhillamy, Harold, and Huebner. 2,786,844.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. Tetrahydroreserpine acid and esters thereof. 2,786,843, 3-26-57, Cl. 260-287.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. Tetrahydrodeserpine acid compounds. 2,809,198, 10-8-57, Cl. 260-286.
- Huebner, Charles F., and R. A. Lucas, to Ciba Pharmaceutical Products, Inc. Esters of the yohimbe alkaloids. 2,802,006, 8-6-57, Cl. 260-286.
- Huebner Co., The: *See*—
 Huebner, William C. 2,788,705.
- Huebner, George J., Jr., S. B. Williams, and D. M. Borden, to Chrysler Corp. Arrangement of component elements of a gas turbine power plant. 2,795,928, 6-18-57, Cl. 60-39.16.
- Huebner, William C., to The Huebner Co. Microfilm step and repeat camera. 2,788,705, 4-16-57, Cl. 88-24.
- Huebner, William C. Adjusting lens means for cameras. 2,788,709, 4-16-57, Cl. 88-57.
- Huebsch, Joseph O., to The American Laundry Machinery Co. Lint remover means for driers. 2,795,055, 6-11-57, Cl. 34-82.
- Huebsman, Paul J., to Whitehead & Kales Co. Payload raising device for vehicles for hauling automobiles. 2,778,672, 1-22-57, Cl. 296-1.
- Huecking, Walter, and J. Gredigk, to W. Huecking. Machine for reeling continuous lengths of material. 2,783,000, 2-26-57, Cl. 242-56.
- Hueffle, Karl. Wagon box to elevator power transfer unit. 2,778,511, 1-22-57, Cl. 214-46.
- Huelskamp, Richard F., and F. M. Krantz, to the United States of America as represented by the Secretary of the Navy. Radar ranging unit. 2,788,424, 4-9-57, Cl. 201-55.
- Huemer, Hans, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. Process for the production of reaction products of cyanuric chloride with ammonia in the gas phase. 2,779,763, 1-29-57, Cl. 260-249.7.
- Hueni, Albrecht: *See*—
 Druey, Jean, Hueni, Ringier, and Staehelin. 2,798,869.
- Huerta, Salvador M. Automatic type vehicle operated gate. 2,804,704, 9-3-57, Cl. 39-22.
- Huerth, Theodore. Straw spreader for straw rack. 2,808,835, 10-8-57, Cl. 180-27.
- Hueston, Robert B.: *See*—
 McCutchen, John E., and Hueston. 2,806,468.
- Huet, André, to Combustion Engineering, Inc. Method of thickening tube wall. 2,780,000, 2-5-57, Cl. 29-534.
- Huet, André. Heat exchangers. 2,780,446, 2-5-57, Cl. 257-245.
- Huet, André. Finned tube heat exchanger. 2,804,087, 8-27-57, Cl. 257-262.22.
- Huet, André, to Combustion Engineering, Inc. Separate yieldable pressure means on slide of pivoted type of pipe bender. 2,812,004, 11-5-57, Cl. 153-40.
- Huet, Andre. Plate heat exchanger with removable envelopes. 2,816,740, 12-17-57, Cl. 247-245.
- Huether, George F., and G. G. Strubel. Fixed focus variable magnification optical system and focusing device. 2,796,001, 6-18-57, Cl. 88-57.
- Huey, William G., to General Aniline & Film Corp. Method for preparation of 7-dialkylamino-4-methyl coumarin salts and compositions containing same. 2,791,563, 5-7-57, Cl. 252-301.2.
- Huff Corp.: *See*—
 Patrick, Malcom W. 2,810,514.
- Huff, George F., to Callery Chemical Co. Production of amino-diboranes. 2,782,236, 2-19-57, Cl. 260-583.
- Huff, John. Device for securing and circumferentially positioning furniture legs on an associated furniture part. 2,809,876, 10-15-57, Cl. 311-114.
- Huff, Lyman C., to Universal Oil Products Co. Vessel outlet. 2,808,319, 10-1-57, Cl. 23-284.
- Huff, Raymond E. Device for unlocking and rotating a rotatable member. 2,789,443, 4-23-57, Cl. 74-532.
- Huffaker, Melvin S.: *See*—
 Hapman, Henry W. 2,812,849.
 Hapman, Henry W. 2,812,924.
 Hapman, Henry W. 2,817,430.
- Huffaker, Nordell N. Hinge and support for making a carpenter's saw horse. 2,818,309, 12-31-57, Cl. 304-5.
- Hufferd, George H. Constant delivery variable pressure pump. 2,775,946, 1-1-57, Cl. 103-120.
- Huffman, Bette K.: *See*—
 Steele, Lavarone E. 2,801,666.

- Huffman, Charles E., to Allen B. Du Mont Laboratories, Inc. Control signals for sequential color television. 2,784,341, 3-5-57, Cl. 315-21.
- Huffman, Clarence W.: *See*—
Allen, Seward E., and Huffman. 2,799,568.
- Huffman, Clifton J.: *See*—
Braeuninger, Karl F., and Huffman. 2,787,692.
- Huffman Co., The: *See*—
Sutton, William R. 2,777,271.
- Huffman, David A., to the United States of America as represented by the Secretary of the Air Force. Infra-red television camera. 2,816,954, 12-17-57, Cl. 178-7.2.
- Huffman, Herman M.: *See*—
Huffman, Leland B. 2,813,280.
- Huffman, Leland B., to H. M. Huffman. Machine tool for drilling and tapping holes. 2,813,280, 11-19-57, Cl. 10-128.
- Huffman, Levi D., to The Colson Corp. Power operated material handling trucks. 2,789,648, 4-23-57, Cl. 180-66.
- Huffman Mfg. Co., The: *See*—
Locke, Loyal V. 2,801,027.
- McNeill, Francis R., and Silbereis. 2,793,484.
- Huffman, Max N., to Nepera Chemical Co., Inc. Steroid 3, 16a-diols and process. 2,779,773, 1-29-57, Cl. 260-397.5.
- Huffman, Robert D.: *See*—
Steele, Laverne E. 2,801,666.
- Huffman, Robert L., to General Telephone Laboratories, Inc. Hydraulically controlled dial. 2,810,789, 10-22-57, Cl. 179-90.
- Huffman, Russell I., to Knapp-Monarch Co. Steam iron. 2,783,561, 3-5-57, Cl. 38-77.
- Huffman, Samuel A.: *See*—
Montgomery, William G., and Huffman. 2,790,383.
- Hufnagel, Andrew, to Westinghouse Air Brake Co. Railway traffic control apparatus. 2,811,634, 10-29-57, Cl. 246-34.
- Hug, Hans A. Automatic cut off mechanism for gas burner. 2,797,699, 7-2-57, Cl. 137-65.
- Huge, Henry M., to Lorain Products Corp. Regulated rectifier. 2,810,876, 10-22-57, Cl. 321-19.
- Huge, Robert W., to Ernest P. Miller, Sr. Drive system for mixers and the like. 2,801,833, 8-6-57, Cl. 259-177.
- Hugenholtz, Eduard H., and M. R. Mantz, to North American Philips Co., Inc. Tunable transceiver. 2,790,072, 4-23-57, Cl. 250-13.
- Hugg, Ralph W., 1/2 to C. A. Grosgebauer. Faucet. 2,796,079, 6-18-57, Cl. 137-614.17.
- Hugger, Richard H.: *See*—
Keen, Alexis W., Hugger, Higgins, Kane, and Long. 2,786,237.
- Huggett, John P.: *See*—
Shen, Tzu E., and Huggett. 2,793,609.
- Shen, Tzu E., and Huggett. 2,814,091.
- Huggins, Homer D., and C. S. Simpelaar, to Modine Mfg. Co. Toroidal type heat exchanger. 2,792,200, 5-14-57, Cl. 257-246.
- Hughel, Alvin M., and J. C. Buchanan. Hammer and trigger mechanism for two barreled pistol. 2,804,709, 9-3-57, Cl. 42-42.
- Hughes Aircraft Co.: *See*—
Adcock, Mack D., and Kurtz. 2,818,549.
- Amundsen, Earl K. 2,792,175.
- Anderson, Arnold M. 2,806,279.
- Baldwin, Ewart M. 2,788,381.
- Baldwin, Ewart M. 2,817,480.
- Baltrukonis, John H., Messenger, and Wheeler. 2,782,631.
- Bates, George W. 2,809,606.
- Beaumont, James O. 2,793,360.
- Berger, Netardus N., and Plamondon. 2,794,180.
- Birdsall, Charles K. 2,811,641.
- Birdsall, Charles K. 2,817,035.
- Bleakney, William M. 2,816,723.
- Block, Arnold H. 2,800,073.
- Brewer, George R. 2,811,667.
- Brewer, George R. 2,817,033.
- Brewer, George R., Johnson, and Birdsall. 2,811,663.
- Brooks, Herbert B. 2,792,497.
- Brooks, Herbert B. 2,795,708.
- Carlisle, Kenneth R. 2,806,695.
- Carman, Justice N., Jr., and Maiden. 2,818,536.
- Cherin, Alvin A. 2,807,002.
- Clapp, Roger W., and Hudspeth. 2,817,084.
- Clements, Richard P. 2,810,025.
- Cooper, Theodore W. 2,794,942.
- Cooper, Theodore W. 2,808,543.
- Craig, Leonard J. 2,784,324.
- Curtis, Charles W. 2,790,073.
- Curtis, Daniel L. 2,812,451.
- Dallons, John A. 2,808,534.
- Dallons, John A. 2,817,039.
- Deenean, John J., and Flynn. 2,810,125.
- Durham, Leland G. 2,812,494.
- Ehrlich, Morris J., and Sterns. 2,808,586.
- Enenstein, Norman H. 2,806,140.
- Every, Donald W. 2,810,039.
- Fine, Edwin. 2,808,561.
- Forrest, Cameron B., and Green. 2,816,226.
- Goodykooztz, James R., Jr. 2,812,143.
- Green, Sidney S., and Forrest. 2,797,401.
- Griest, Raymond H. 2,788,457.
- Gudmundsen, Richard A. 2,815,304.
- Haef, Andrew V., and Birdsall. 2,793,315.
- Haef, Andrew V. 2,795,727.
- Haef, Andrew V. 2,802,966.
- Haef, Andrew V. 2,806,177.
- Haef, Andrew V. 2,806,974.
- Hageman, Donald H. A. 2,816,237.
- Hamilton, Douglas J. 2,814,736.
- Hansen, Siegfried. 2,787,416.
- Hansen, Siegfried. 2,788,466.
- Hansen, Siegfried. 2,806,175.
- Hansen, Siegfried. 2,813,481.
- Hansen, Siegfried, Koda, H. M. and S. T. Smith. 2,793,185.
- Hartley, Richard A. 2,776,618.
- Herman, Elvin E., and Smith. 2,790,929.
- Hester, Robert G. 2,812,438.
- Iversen, Arthur H. 2,806,171.
- Iversen, Arthur H. 2,811,193.
- Jacobs, Jerome E., and St. John. 2,814,725.
- Johnson, Horace R. 2,806,975.
- Johnson, Horace R., and Watkins. 2,809,321.
- Johnson, Ralph M. W. 2,817,015.
- Johnson, Robert R. 2,799,450.
- Kaiser, Harold R., Lane, and Shockency. 2,784,396.
- Koda, Nobuo J., and Hoalst. 2,790,228.
- Kumagai, Tom T. 2,808,650.
- Kurtz, Louis A. 2,817,063.
- Lyon, Royal E. 2,812,435.
- MacKnight, Merritt L. 2,806,947.
- MacKnight, Merritt L., and Beaumont. 2,787,418.
- Madden, Joseph V. 2,810,674.
- Maserjian, Joseph. 2,789,068.
- Meier, Edwin H. 2,806,209.
- Miller, Burton F., and Hartley. 2,814,030.
- Moles, Leslie. 2,788,432.
- Moles, Leslie. 2,802,759.
- Moles, Leslie. 2,812,411.
- Nelson, Eldred C. 2,803,401.
- Nelson, Eldred C. 2,816,223.
- Norton, James P. 2,777,037.
- Powell, Donald W. 2,799,837.
- Roach, Jack F. 2,802,177.
- Scarborough, Alfred D. 2,813,677.
- Sensiper, Samuel. 2,798,183.
- Sensiper, Samuel. 2,806,972.
- Sensiper, Samuel. 2,815,466.
- Shank, Robert J. 2,807,015.
- Sinclair, John G., Jr. 2,814,745.
- Smith, Henry M. 2,776,908.
- Smith, Henry M. 2,788,467.
- Stump, Harvey. 2,802,159.
- Thomson, Louis C., Jr. 2,815,608.
- Tyson, Owen A. 2,813,250.
- Van Lear, George A., and Glasson. 2,816,451.
- Waters, Warren P. 2,817,609.
- Welliver, Clarence L. 2,812,472.
- Wheeler, Bryce A. 2,793,028.
- Wohlman, Fred. 2,784,285.
- Wohlman, Fred. 2,784,286.
- Wohlman, Fred, Jr. 2,788,431.
- Wohlman, Fred, Jr. 2,792,489.
- Wong, Kam L. 2,814,774.
- Woodruff, Thomas E. 2,793,335.
- Yucht, George, and Stanton. 2,815,445.
- Zukin, Arthur S. 2,815,168.
- Hughes, Arrington J. Self-locking cargo carrier hook. 2,814,521, 11-26-57, Cl. 294-74.
- Hughes, Avery E. and V. M. Bed coverings. 2,787,794, 4-9-57, Cl. 5-335.
- Hughes By-Product Coke Oven Corp.: *See*—
Hughes, Charles H. 2,795,539.
- Hughes, Charles H. 2,812,291.
- Hughes, Charles H., to Hughes By-Product Coke Oven Corp. Coke quench car. 2,795,539, 6-11-57, Cl. 202-83.
- Hughes, Charles H., to Hughes By-Products Coke Oven Corp. Broad oven for treating acid hydrocarbon sludges. 2,812,291, 11-5-57, Cl. 202-101.
- Hughes, Clyde A. Gate latch. 2,789,849, 4-23-57, Cl. 292-57.
- Hughes, David A., to Western Electric Co., Inc. Soldering apparatus for cable sheathing. 2,801,316, 7-30-57, Cl. 219-9.5.
- Hughes, David C.: *See*—
Reiner, Stuart, and Hughes. 2,808,826.
- Hughes, Elmer R. Window platform. 2,806,746, 9-17-57, Cl. 304-24.
- Hughes, Everett C.: *See*—
Veatch, Franklin, and Hughes. 2,797,138.
- Hughes, Everett C., to The Standard Oil Co. Motor fuel additive and fuel containing same. 2,800,400, 7-23-57, Cl. 44-56.
- Hughes, Everett C., and H. A. Strecker, to The Standard Oil Co. Process for the production of oxygen. 2,783,134, 2-26-57, Cl. 23-221.
- Hughes, Everett C., H. A. Strecker, and A. L. Jones, to The Standard Oil Co. Oxidative reforming of naphtha. 2,783,185, 2-26-57, Cl. 196-50.
- Hughes, Everett C., and H. M. Stine, to The Standard Oil Co. Cutting oil composition. 2,790,772, 4-30-57, Cl. 252-45.

- Hughes, Everett C., H. M. Stine, S. M. Darling, and C.-W. Liao, to The Standard Oil Co. Cutting oil composition. 2,790,774, 4-30-57, Cl. 252-45.
- Hughes, Everett C., and H. M. Stine, to The Standard Oil Co. Cutting oil composition. 2,790,775, 4-30-57, Cl. 252-45.
- Hughes, Everett C., and S. M. Darling, to The Standard Oil Co. Gasoline antioxidants. 2,797,152, 6-25-57, Cl. 44-69.
- Hughes, Everett C., and F. Veatch, to The Standard Oil Co. Alkylating process utilizing ultrasonics. 2,800,444, 7-23-57, Cl. 204-154.
- Hughes, Everett C., and H. A. Strecker, to The Standard Oil Co. Oxidation of hydrocarbons and oxygen carrier therefor. 2,813,114, 11-12-57, Cl. 260-451.
- Hughes, Frank J.: *See*—
Gehrke, Forrest E., Hughes, and Ritz. 2,793,277.
- Hughes, Frederick G.: *See*—
Cross, Reginald J., and Hughes. 2,804,985.
- Hughes, George C., to Reynolds Gas Regulator Co. Gas pressure regulator. 2,813,542, 11-19-57, Cl. 137-505.46.
- Hughes, George E. Tire deflation alarm. 2,794,411, 6-4-57, Cl. 116-34.
- Hughes, George W. Declivity level. 2,786,279, 3-26-57, Cl. 33-221.
- Hughes, Harold K.: *See*—
Kip, Charles E., and Hughes. 2,805,490.
- Hughes, Harry, to Toronto Carpet Mfg. Co. Ltd. Apparatus and method for weaving Axminster fabrics. 2,804,096, 8-27-57, Cl. 139-7.
- Hughes, Harry T. Paint feeder and guard. 2,817,869, 12-31-57, Cl. 15-248.
- Hughes, John O. P., A. Frankel and J. A. L. Latoszynski, to The English Electric Co. Ltd. Flexible resilient sleeve type joint with internal tie means. 2,807,480, 9-24-57, Cl. 285-114.
- Hughes, John W., to Shell Development Co. Hydraulic pipe loading apparatus for vehicles. 2,781,924, 2-19-57, Cl. 214-77.
- Hughes, Lee A.: *See*—
Cone, Clarence N., and Hughes. 2,792,616.
- Hughes, Richard H.: *See*—
Benway, Robert E., and Hughes. 2,782,333.
- Hangen, Nevin R., and Hughes. 2,793,312.
- Hughes, Robert W., to Jay Mfg. Co. Compressor unloading mechanism. 2,787,411, 4-2-57, Cl. 230-27.
- Hughes, Robert W. Hammer with detachable striking tips. 2,808,861, 10-8-57, Cl. 145-36.
- Hughes, Robert W., and N. Weintraub, to International Telephone and Telegraph Corp. Power line fault locator. 2,794,071, 5-28-57, Cl. 179-15.
- Hughes, Thomas A. Wall ball game. 2,812,946, 11-12-57, Cl. 273-88.
- Hughes, Thomas E. Double propeller wind driven spark producer. 2,795,894, 6-18-57, Cl. 46-48.
- Hughes Tool Co.: *See*—
Cunningham, Robert A., Morlan, and Payne. 2,802,643.
- Reifschneider, Winston H. 2,807,444.
- Stuelpnagel, Thomas R., and Verbeke. 2,796,491.
- Hughes, Virginia M.: *See*—
Hughes, Avery E., and V. M. 2,787,794.
- Hughes, William B., to Cities Service Research and Development Co. Removal of calcium sulfate scale. 2,787,326, 4-2-57, Cl. 166-38.
- Hughes, William B., to Cities Service Research and Development Co. Method of inhibiting corrosion of metals. 2,795,997, 5-28-57, Cl. 252-8.55.
- Hughes, William B., and G. O. Grady, to Cities Service Research and Development Co. Acidizing wells. 2,784,788, 3-12-57, Cl. 166-42.
- Hughey, Carter J.: *See*—
Tyler, Arthur W., Hughey, and Thomas. 2,795,328.
- Huguet, James H.: *See*—
O'Connell, Harry E., and Huguet. 2,818,448.
- Huhn, Robert, and G. Gamroth. Free carriage roundabout. 2,806,697, 9-17-57, Cl. 272-35.
- Huhndorff, Roland F.: *See*—
Richmond, Robert C., Marsch, Huhndorff, McKinley, and Massin. 2,818,137.
- Huhs, Richard: *See*—
Brenneisen, Erich, Huhs, and Siebert. 2,816,886.
- Huisman, Hendrikus O.: *See*—
Meltzer, Jacques, and Huisman. 2,812,281.
- Huisman, Hendrikus O., to North American Philips Co., Inc. Method of producing 2,4,5, trichlorophenoxyalkanecarbonic acids or esters thereof. 2,796,427, 6-18-57, Cl. 260-473.
- Hukill, Richard T.: *See*—
Turse, Emanuel P., and Hukill. 2,806,292.
- Hulbert, Reed O., to The Smushproof Co. Caster mounting for creepers and the like. 2,782,045, 2-19-57, Cl. 280-32.6.
- Huley, Peter. Garden hand rake. 2,787,882, 4-9-57, Cl. 56-400.05.
- Hulling, Frederick S., to International Business Machines Corp. Record punching machine. 2,793,695, 5-28-57, Cl. 164-115.
- Hull, Albert G. Etching apparatus assembly. 2,783,567, 3-5-57, Cl. 41-9.
- Hull, Ann F.: *See*—
Hull, Richard O., and Winters. 2,801,963.
- Winters, John B. 2,791,554.
- Hull, David C.: *See*—
Hagemeyer, Hugh J., Jr., and Hull. 2,790,832.
- Hull, Donald E. Baseball game. 2,788,213, 4-9-57, Cl. 273-93.
- Hull, Edwin H., to General Electric Co. High speed rotor. 2,799,445, 7-16-57, Cl. 230-134.
- Hull, Edwin H., and A. F. Winslow, deceased (by E. L. Winslow, administratrix). Preliminary coating for combustion chamber wall. 2,811,467, 10-29-57, Cl. 117-62.
- Hull, Francis R. Retractable carriage mounting. 2,814,498, 11-26-57, Cl. 280-43.
- Hull, Harold S., to Dacre Chucks Ltd. Collets and chuck jaw assemblies. 2,780,469, 2-5-57, Cl. 279-48.
- Hull, Henry E., and P. G. Perry, to Drilling Research, Inc. Electrical transmission lines. 2,795,397, 6-11-57, Cl. 255-28.
- Hull, John R., to Remington Arms Co., Inc. Cartridge transfer tool. 2,803,985, 8-27-57, Cl. 86-47.
- Hull, Joseph A.: *See*—
Gassaway, Benjamin F. 2,802,608.
- Hull, Joseph F., to the United States of America as represented by the Secretary of the Army. Broadband backward wave amplifier. 2,817,040, 12-17-57, Cl. 315-3.5.
- Hull, Maurice E., to Armour and Co. Ion exchange purification of whey in the preparation of lactose. 2,778,750, 1-22-57, Cl. 127-31.
- Hull, Richard O., and J. B. Winters, to A. F. Hull and A. Medert. Apparatus for the determination of plating characteristics of plating baths. 2,801,963, 8-6-57, Cl. 204-195.
- Hull, Robert E.: *See*—
Slamar, Frank, and Hull. 2,792,504.
- Hull, Robert L.: *See*—
Edgerton, William H., and Hull. 2,797,242.
- Hull, Roger S.: *See*—
Moser, Rudolph J., and Hull. 2,798,665.
- Spurlino, Pascal, Hull, and Frost. 2,805,821.
- Hull, Wayland E., to the United States of America as represented by the Secretary of the Air Force. Animal respiratory mask. 2,811,966, 11-5-57, Cl. 128-141.
- Hull, William F., to Western Precipitation Corp. Electric rapper for precipitators. 2,777,535, 1-15-57, Cl. 183-7.
- Hullar, Herbert E.: *See*—
Engel, J. Anthony, Flannery, and Hullar. 2,797,497.
- Hullweck, Arthur. Purse. 2,789,040, 4-9-57, Cl. 150-28.
- Hulot, Georges, and A. Birman, to Société d'Etudes Chimiques pour l'Industrie et l'Agriculture. Process for the production of alkali metal bicarbonates. 2,782,093, 2-19-57, Cl. 23-64.
- Hulse, Robert E., to National Distillers and Chemical Corp. Process for generating sodium monoxide. 2,809,096, 10-8-57, Cl. 23-184.
- Hulse, Robert E., J. S. Atwood, W. C. Muller, and F. D. Miller, to National Petro-Chemicals Corp. Purification of ethanol. 2,801,211, 7-30-57, Cl. 202-39.5.
- Hulsebosch, Albert J., and D. W. Kaufmann, to International Salt Co. Method for infiltration of trace material. 2,792,345, 5-14-57, Cl. 210-62.
- Hult, Gustav W., to The Mills Co. Construction unit. 2,776,029, 1-1-57, Cl. 189-34.
- Hultberg, Rolf B. J., and T. E. D. Bilde, to Aktiebolaget Elektrolux. Suction cleaner structure. 2,794,513, 6-4-57, Cl. 183-37.
- Hultgren, Arnold P., to American Molded Products Co. Shell for deflection yoke. 2,787,743, 4-2-57, Cl. 317-200.
- Hultgren, Gunnar V., to Farrel-Birmingham Co., Inc. Roll-grinding mechanisms. 2,814,914, 12-3-57, Cl. 51-95.
- Hultgren, William H., and J. R. Joyce, to Purolator Products, Inc. Combination valving arrangement for oil filter systems. 2,801,006, 7-30-57, Cl. 210-183.
- Hultin, Clifford T. Power transmission. 2,777,337, 1-15-57, Cl. 74-754.
- Hultkrans, Paul B., to Milprint, Inc. Art of vacuum sealing flexible packages. 2,790,284, 4-30-57, Cl. 53-9.
- Hultkrans, Paul B., and D. P. Smith, to Milprint, Inc. Art of packaging. 2,790,594, 4-30-57, Cl. 229-87.
- Hultman, Stanley J., to Columbia-Southern Chemical Corp. Gas and liquid contacting apparatus. 2,776,122, 1-1-57, Cl. 261-79.
- Hultquist, Martin E., to American Cyanamid Co. Method of preparing 2-hydroxypyrazines. 2,805,223, 9-3-57, Cl. 260-250.
- Hulvey, Marvin O. Adjustable scaling hammer. 2,814,093, 11-26-57, Cl. 29-81.
- Humason, Granville A., 1/2 to T. C. Bobbitt. Combination gas lift and well pump. 2,814,992, 12-3-57, Cl. 103-5.
- Humble, John A., and G. W. Hoffman. Linearity spring testers. 2,784,588, 3-12-57, Cl. 73-161.
- Humble Oil & Refining Co.: *See*—
Parks, Mercer H. 2,808,247.
- Prokop, Charles L., Wrightsman, Hoyer, and Taggart. 2,808,248.
- Humblot, Robert: *See*—
Catry, Jean, and Humblot. 2,808,071.
- Hume, Ernest J., to Humes Ltd. Electric arc welding. 2,786,933, 3-26-57, Cl. 219-60.
- Hume, Ernest J., to Humes Ltd. Feeding of discrete or finely divided materials from a relatively low pressure container. 2,800,258, 7-23-57, Cl. 222-481.
- Hume, Ernest J., to Humes Ltd. Flux feeding systems for electric welding. 2,806,743, 9-17-57, Cl. 302-17.

- Hume, G. W., Co.: *See*—
 Birchall, Thomas D. 2,817,438.
 Hume, Gertrude B. Handbag. 2,797,719, 7-2-57, Cl. 150-37.
 Hume, Horace D.: *See*—
 Scheidenhelm, Earl L. 2,807,127.
 Hume, Horace D. Tine mountings for harvester reel. 2,795,921, 6-18-57, Cl. 56-226.
 Hume, Horace D. Floating cutter bar for harvesters. 2,795,922, 6-18-57, Cl. 56-257.
 Hume, James D.: *See*—
 Weckel, Kenneth G., and Hume. 2,783,803.
 Hume, Warren B. Drill pipe collar refacing tool. 2,802,319, 8-13-57, Cl. 51-241.
 Humes Ltd.: *See*—
 Hume, Ernest J. 2,786,933.
 Hume, Ernest J. 2,800,258.
 Hume, Ernest J. 2,806,743.
 Humidy Booster Co.: *See*—
 Chelini, Angelo L. 2,804,870.
 Humiston, Charles G.: *See*—
 Moyle, Clarence L., and Humiston. 2,780,546.
 Hummel, Arthur P. Face shield for welders. 2,777,129, 1-15-57, Cl. 2-8.
 Hummel, Floyd A., to The Carborundum Co. Thermal shock resistant ceramic body. 2,785,080, 3-12-57, Cl. 106-65.
 Hummel, Georg: *See*—
 Finck, Emil, and Hummel. 2,795,505.
 Hummel, John G., to Crouse-Hinds Co. Terminal clamp. 2,789,276, 4-16-57, Cl. 339-272.
 Hummel, Otto, to Zellstoff-fabrik Waldhof. Process of producing ergosterol and cerebrin. 2,794,035, 5-28-57, Cl. 260-397.25.
 Hummel, Richard, to L. Schuler A. G. Control or safety means for power presses. 2,812,843, 11-12-57, Cl. 192-150.
 Hummer, Eslie B. Laminated partition. 2,797,573, 7-2-57, Cl. 72-16.
 Hummers, William S., Jr., to National Lead Co. Preparation of graphic acid. 2,798,878, 7-9-57, Cl. 260-348.
 Hummert, Robert H., to Standard-Thomson Corp. Closure actuating mechanism. 2,785,918, 3-19-57, Cl. 292-265.
 Humpeler, Fina. Combined mat, carrying bag and garment. 2,783,473, 3-5-57, Cl. 2-69.
 Humphlett, Wilbert J., to Eastman Kodak Co. Continuous liquid phase process for effecting condensation of an aldehyde and a carboxylic compound containing an active methylene group. 2,780,632, 2-5-57, Cl. 260-307.
 Humphlett, Wilbert J., to Eastman Kodak Co. Condensing esters and amines to form amides. 2,784,225, 3-5-57, Cl. 260-559.
 Humphlett, Wilbert J., to Eastman Kodak Co. Continuous process for making acid chlorides. 2,808,420, 10-1-57, Cl. 260-408.
 Humphner, Ferdinand W., to Mid-States Gummed Paper Co. Filament tape machine and method. 2,786,510, 3-26-57, Cl. 154-17.
 Humphner, Ferdinand W., to Mid-States Gummed Paper Co. Tape-feeding mechanism. 2,786,672, 3-26-57, Cl. 271-23.
 Humphrey, Albert V. Gauge for dowels. 2,804,788, 9-3-57, Cl. 77-62.
 Humphrey, Earl L.: *See*—
 Mitchell, Edward, and Humphrey. 2,807,589.
 Humphrey, Earl L., and W. B. Morse, to Gulf Research & Development Co. Stabilization of formaldehyde-hydrogen sulfide reaction products. 2,778,801, 1-22-57, Cl. 252-8.55.
 Humphrey, Edward A., to the United States of America as represented by the Secretary of the Army. Retractable firing anvil. 2,804,808, 9-3-57, Cl. 89-135.
 Humphrey, Edward A., to the United States of America as represented by the Secretary of the Army. Cammed firing pin. 2,805,604, 9-10-57, Cl. 89-135.
 Humphrey, Inc.: *See*—
 Humphrey, Paul E., and Kampe. 2,816,421.
 Humphrey, Irl W. Metal scaffolding. 2,805,901, 9-10-57, Cl. 304-2.
 Humphrey, James G. Cleaning unit package. 2,782,912, 2-26-57, Cl. 206-47.
 Humphrey, Paul E. Flexible coupling for rotary shaft. 2,812,647, 11-12-57, Cl. 64-10.
 Humphrey, Paul E., and R. S. Kampe, to Humphrey, Inc. Variable speed transmission. 2,816,421, 12-17-57, Cl. 74-198.
 Humphrey, Warren A.: *See*—
 Seck, Werner G., and Humphrey. 2,811,793.
 Humphrey, Warren A., to The Hoover Co. Filter mounting means. 2,815,090, 12-3-57, Cl. 183-37.
 Humphreys, David D., to Ethyl Corp. Dehydrochlorination of benzene hexachloride. 2,777,882, 1-15-57, Cl. 260-650.
 Humphreys, Ferdinand F. Spring tester. 2,812,659, 11-12-57, Cl. 73-181.
 Humphreys, Ivor E.: *See*—
 Dannenberg, Kurt, and Humphreys. 2,800,554.
 Humphreys, John W., to Johnson Products, Inc. Hydraulic tappet. 2,784,706, 3-12-57, Cl. 123-90.
 Humphreys, Marion W. Vane-type rotary pumps and motors. 2,782,724, 2-26-57, Cl. 103-120.
 Humphreville, Thomas N.: *See*—
 Scott, Charles L., and Humphreville. 2,797,367.
 Humphries, Douglas N.: *See*—
 Hoven, Alfred C., Nordmark, and Humphries. 2,805,906.
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 Humphriss, Eric L. E. Device for use during the preparation of mix batch recipes or formulae for comestibles. 2,805,991, 10-8-57, Cl. 235-87.
 Hund, Frank C., 35% to W. H. Stevenson and 15% to J. E. Montgomery. Weeding tool. 2,806,733, 9-17-57, Cl. 294-50.9.
 Hund, Ray W. Parking stanchion. 2,798,451, 7-9-57, Cl. 116-63.
 Hundhausen, Robert J., 1/2 to D. W. Butner. Method of defining excavation limits. 2,782,750, 2-26-57, Cl. 116-114.
 Hunger, Alfred: *See*—
 Hoffmann, Karl, Schmid, and Hunger. 2,785,159.
 Hunicke, William F. Fishing lure. 2,814,149, 11-26-57, Cl. 43-42.41.
 Hunn, Wilbur B., to Thor Power Tool Co. Rock drill. 2,778,605, 1-22-57, Cl. 255-43.
 Hunsdorf, William P., to Cleveland Electric Equipment Co., Inc. Armature winding method. 2,779,886, 1-29-57, Cl. 310-265.
 Hunsicker, Gladys B. Fluid proof sheet for hospital beds. 2,803,836, 8-27-57, Cl. 5-334.
 Hunstiger, Francis, and W. F. Massmann, to Ampatco Laboratories Corp. Clutch. 2,793,515, 5-28-57, Cl. 64-30.
 Hunt, C. Howard, Pen Co.: *See*—
 Lehr, Donald H. 2,796,047.
 Hunt, Douglas N., Sr.: *See*—
 Hunt, William H. and D. N. 2,809,480.
 Hunt, Edwin K.: *See*—
 Belbes, George J., Hunt, and Kilpatrick. 2,800,574.
 Hunt, Elmer R. Moving dolly for tables and the like. 2,816,771, 12-17-57, Cl. 280-47.13.
 Hunt, Frederick V.: *See*—
 Bouyoucos, John V., and Hunt. 2,792,804.
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 Arbon, Robert S., Elson, and Hunt. 2,786,892.
 Hunt, Harry C., to American Safety Table Co., Inc. Cuff shaping machine. 2,804,244, 8-27-57, Cl. 223-2.
 Hunt Heater Corp.: *See*—
 Vaughn, Charles O. 2,796,019.
 Hunt, James A., to G. Miller. Fowl cleaning tool. 2,787,020, 4-2-57, Cl. 17-11.
 Hunt, John M., and M. H. Hayes, to Link Aviation, Inc. Electronic ground voltage neutralizing system. 2,788,148, 3-19-57, Cl. 307-95.
 Hunt, John O. Let-offs. 2,786,491, 3-26-57, Cl. 139-110.
 Hunt, John S.: *See*—
 Long, Alan G., and Hunt. 2,818,414.
 Hunt, John W., and W. A., said W. A. Hunt to said J. W. Hunt. Cutlery device. 2,811,775, 11-5-57, Cl. 30-142.
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 Hunt, Letcher B., Jr., to General Motors Corp. Closure for fuel tanks. 2,793,785, 5-28-57, Cl. 220-30.5.
 Hunt, Madison, to E. I. du Pont de Nemours and Co. Method of controlling plant fungi with sodium monomethyl dithiocarbamate. 2,792,327, 5-14-57, Cl. 167-22.
 Hunt, Madison, and E. R. Merner, to E. I. du Pont de Nemours and Co. Manufacture of beta-methylmercaptopropionaldehyde. 2,776,996, 1-8-57, Cl. 260-601.
 Hunt, Marie H. Fish stringer holder. 2,800,263, 7-23-57, Cl. 224-7.
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 Hunt Process Co.: *See*—
 Hunter, James R. 2,815,983.
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 Buhrmaster, Fred R., and Hunt. 2,808,190.
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 Hunt, John W., and W. A. 2,811,775.
 Hunt, John W., and W. A. 2,811,776.
 Hunt, William G. Machine for applying spots of glue to sheets of paper. 2,782,756, 2-26-57, Cl. 118-211.
 Hunt, William G., to Hood-Gardner Hotel Supply Corp. Portable cafeteria body with dish compartments. 2,784,999, 3-12-57, Cl. 296-22.
 Hunt, William H., and D. N. Hunt, Sr. Grinding fixture. 2,809,480, 10-15-57, Cl. 51-225.
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 Blaskowski, Henry J., Hunter, and Cruise. 2,818,049.
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 Curtis, Wesley E., and Hunter. 2,806,073.
 Hunter, Charley W., to The Vendo Co. Fluid metering device. 2,801,031, 7-30-57, Cl. 222-361.
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 Carlsen, Earl W., and Hunter. 2,797,540.
 Hunter, Daniel O., to Radio Corp. of America. Modulation system for color phase alternation. 2,793,348, 5-21-57, Cl. 332-40.
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 Thomas, David C., and Hunter. 2,816,159.

- Hunter Douglas Aluminum Corp.: *See*—
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- Hunter, Edward A., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Preparation of a silica-alumina catalyst. 2,787,600, 4-2-57, Cl. 252-455.
- Hunter, Edward A., and H. T. Baker, to Esso Research and Engineering Co. Improved oxo hydrogenation process. 2,804,482, 8-27-57, Cl. 260-638.
- Hunter, Edward A., and A. B. Small, to Esso Research and Engineering Co. Process for preparing dispersions of hydrocarbon resins and products obtained thereby. 2,809,948, 10-15-57, Cl. 260-28.5.
- Hunter Engineering Co.: *See*—
Hunter, Joseph L. 2,790,216.
- Hunter Farrow Equipment, Inc.: *See*—
Simmons, Curtis R., and Farrow. 2,776,643.
- Hunter, Fred L.: *See*—
De Santis, Vincent J., and Hunter. 2,788,460.
- Hunter, George D.: *See*—
Johnson, Theodore W., and Hunter. 2,777,377.
- Hunter, George D., to Deere Mfg. Co. Spring cushioned clamp. 2,777,378, 1-15-57, Cl. 97-47.84.
- Hunter, George D., to Deere Mfg. Co. Tractor mounted implement. 2,804,034, 8-27-57, Cl. 111-7.
- Hunter, George E.: *See*—
Keir, Alexander J., and Hunter. 2,804,186.
- Hunter, Harry C., to Brown & Williamson Tobacco Corp. Tobacco leaf deveining machine. 2,789,564, 4-23-57, Cl. 131-145.
- Hunter, Herbert T., and B. W. Wilson, to Doughnut Corp. of America. Glazing apparatus. 2,783,867, 3-5-57, Cl. 198-102.
- Hunter, Howard L.: *See*—
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- Hunter, James, Machine Co.: *See*—
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- Hunter, James E., Jr.: *See*—
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- Hunter, James R., to Hunt Process Co. Highway stripe painting device. 2,815,983, 12-10-57, Cl. 299-28.5.
- Hunter, Joseph L., to Hunter Engineering Co. Method and apparatus for the continuous casting of metal. 2,790,216, 4-30-57, Cl. 22-57.5.
- Hunter, Kenneth E., to Newmont Mining Corp. Method of geophysical exploration. 2,777,111, 1-8-57, Cl. 324-1.
- Hunter, Lawrence D., to Bendix Aviation Corp. Luminous indicator. 2,787,785, 4-2-57, Cl. 340-378.
- Hunter, Lloyd P., to International Business Machines Corp. Method of forming monocrystals. 2,816,050, 12-10-57, Cl. 148-1.6.
- Hunter, Lloyd P., R. F. Rutz, and G. L. Tucker, to International Business Machines Corp. Switching transistor. 2,810,870, 10-22-57, Cl. 317-234.
- Hunter, Loy R., and L. P. Meade, to Phillips Petroleum Co. Temperature measuring system for underground storage cavern. 2,817,235, 12-24-57, Cl. 73-342.
- Hunter, Melmoth W., to United States Steel Corp. Displaceable billet support for rotary peeler. 2,777,587, 1-15-57, Cl. 214-1.
- Hunter, Melmoth W. Magnetic pump. 2,788,747, 4-16-57, Cl. 103-118.
- Hunter Packing Co.: *See*—
Kiers, Lucas. 2,779,679.
- Hunter, William A., to Chrysler Corp. Hydraulic power steering unit with valve reaction elements of unequal area. 2,808,120, 10-1-57, Cl. 180-79.2.
- Hunter, William A., and F. Singleton, to T. M. M. (Research) Ltd. Blending of textile fibrous materials. 2,816,327, 12-17-57, Cl. 19-14.6.
- Hunter, William H., to B. K. Sweeney Mfg. Co., Inc. Pumping unit for recirculating type pump. 2,791,970, 5-14-57, Cl. 103-179.
- Hunter, William K., to Universal Oil Products Co. Method of producing a platinum catalyst on refractory oxide support. 2,781,323, 2-12-57, Cl. 252-442.
- Hunter, William T., to Sterling Drug Inc. 1,2-dicarbamyl-1,2,3,6-tetrahydropyridazines and their preparation. 2,813,867, 11-19-57, Cl. 260-250.
- Huntington, Charles M. Hydraulic torque converter. 2,815,648, 12-10-57, Cl. 60-54.
- Huntley, Frederick H., to Motor Wheel Corp. Oil burner ignition system. 2,775,966, 1-1-57, Cl. 126-93.
- Huntley, Frederick H., to Motor Wheel Corp. Automatic electric ignition for oil burners. 2,788,847, 4-16-57, Cl. 158-28.
- Huntley, Keith G.: *See*—
Bruce, John, Huntley, and White. 2,785,304.
- Huntley, Keith G., to Electric & Musical Industries Ltd. Electrical code systems. 2,817,704, 12-24-57, Cl. 178-43.5.
- Huntley, Martin, and R. C. Bale dropper attachment for hay balers. 2,799,129, 7-16-57, Cl. 56-473.5.
- Huntley, Richard C.: *See*—
Huntley, Martin, and R. C. 2,799,129.
- Huntress, Howard B., to American Brake Shoe Co. Powdered metal friction elements. 2,783,529, 3-5-57, Cl. 29-182.5.
- Hunting, William C. Continuous flow, universal dispenser and ice cream filler. 2,789,588, 4-23-57, Cl. 141-78.
- Huntzinger, Charles L., to Hewitt-Robins Inc. Reclaiming apparatus. 2,797,823, 7-2-57, Cl. 214-10.
- Hunziker, Hedwig A.: *See*—
Wallimann, Hedwig A. 2,796,837.
- Hupert, Julius J., to A. R. F. Products, Inc. Symmetrical bridge for reducing hum in vacuum tubes. 2,799,805, 7-16-57, Cl. 315-105.
- Hupert, Julius J., and J. S. Naber, to A. R. F. Products, Inc. Spectrum generator. 2,805,336, 9-3-57, Cl. 250-36.
- Hupfield, Brian J. D. Plastic moulding machines. 2,804,649, 9-3-57, Cl. 18-30.
- Hupp, Arthur C.: *See*—
Carlson, Harold G., and Hupp. 2,800,621.
- Hupp, Charles J., to L. A. Young Spring & Wire Corp. Spring cushion structures adapter for embodiment in seat and back cushions of various types. 2,815,066, 12-3-57, Cl. 155-179.
- Hupp Corp.: *See*—
Brown, Richard J. 2,779,398.
Eklom, John O., and Ravich. 2,791,724.
Janes, Richard B., and Sanders. 2,806,936.
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Ovshinsky, Stanford R. 2,807,964.
Raymond, David L., and Brown. 2,804,918.
Rossmann, Peter F. 2,783,627.
Sinniger, Dwight V. 2,808,508.
- Hupp, Edward E., and W. E. Schock, to Bendix Aviation Corp. Governor. 2,806,917, 9-17-57, Cl. 200-80.
- Huppert, Karl H. Centrifugal casting apparatus. 2,778,075, 1-22-57, Cl. 22-65.1.
- Huppert, Karl H. Furnace. 2,791,415, 5-7-57, Cl. 263-15.
- Huras, Edward D.: *See*—
Halberg, Max, Clavir, Cinclunatus, Gerth, and Huras. 2,787,008.
- Hurbin, Meinrad: *See*—
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- Hurcomb, Forbes A.: *See*—
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- Hurd, Charles D., to Columbia Southern Chemical Corp. Reaction product of halomethyl ethers with dienes. 2,805,259, 9-3-57, Cl. 260-614.
- Hurd, Claud C., to The Hoover Co. Suction cleaners. 2,814,065, 11-26-57, Cl. 15-330.
- Hurd, Dallas T., and E. M. Boldebeck, to General Electric Co. Insulated electrical conductors. 2,802,897, 8-13-57, Cl. 174-110.
- Hurd, Reginald: *See*—
Hampton, Horace A., and Hurd. 2,799,663.
- Hurd, Richard C.: *See*—
Fisher, Earl K., Robin, and Hurd. 2,813,397.
- Hurd, Yorick G., and R. D. Whitmore, to Twentieth Century Fox Film Corp. Methods and apparatus for forming articulated sheet material. 2,800,097, 7-23-57, Cl. 112-122.
- Hurford, Winslow L., to General Electric Co. Electrical system. 2,784,246, 3-5-57, Cl. 178-5.8.
- Hurford, Winslow L., to General Electric Co. Indicator for television images. 2,784,247, 3-5-57, Cl. 178-5.8.
- Hurford, Winslow L., and E. R. Stanley, to General Electric Co. Alignment of television camera tubes. 2,806,978, 9-17-57, Cl. 315-10.
- Hurlbut, Charles E., to Bendix Aviation Corp. Voltage reduction circuit. 2,805,383, 9-3-57, Cl. 323-44.
- Hurlbut, Harvey Z., to Stauffer Chemical Co. Process for the production of sulfur dioxide from petroleum acid sludge. 2,789,035, 4-16-57, Cl. 23-177.
- Hurlbut Paper Co.: *See*—
Arledter, Hanns F. 2,816,851.
- Hurley, Charles W., to the United States of America as represented by the Secretary of the Army. Mechanically expandible closure plug. 2,782,958, 2-26-57, Cl. 220-24.5.
- Hurley, Charles W., to the United States of America as represented by the Secretary of the Army. Closure. 2,793,063, 5-21-57, Cl. 292-259.
- Hurley, George F.: *See*—
Day, Thomas G., and Hurley. 2,778,844.
- Hurley, Henry C. Sprinkler with variably controlled pattern. 2,805,098, 9-3-57, Cl. 299-18.
- Hurley, Malcolm F.: *See*—
McDermott, John P., and Hurley. 2,799,650.
- Hurley, Wilson P. Mechanism for converting linear to rotary motion. 2,779,201, 1-29-57, Cl. 74-129.
- Hurlin, William H. Collapsible crib for children. 2,790,183, 4-30-57, Cl. 5-99.
- Huron Specialty Co.: *See*—
McClellan, Frank. 2,780,693.
- Hurricutter, Inc.: *See*—
Nieland, Paul J. 2,805,697.
- Hursh, Charles M., to Westinghouse Air Brake Co. Railway traffic controlling apparatus. 2,785,295, 3-12-57, Cl. 246-22.
- Hursh, Robert W., to Lukens Steel Co. Filter valve. 2,797,707, 7-2-57, Cl. 137-633.
- Hursh, Samuel R., and J. B. McWilliams. Railway track ballast tamping apparatus. 2,789,516, 4-23-57, Cl. 104-12.
- Hurst, Edward, to Rexall Drug Co. Abrasive article and method of making. 2,780,533, 2-5-57, Cl. 51-297.
- Hurst, Edward, to Rexall Drug Co. Abrasive article. 2,804,733, 9-3-57, Cl. 51-206.
- Hurst, Leonard: *See*—
Wobermin, Theodore H. 2,793,487.
- Hurst, Max: *See*—
Helmschrott, Hans, Hurst, and Weber. 2,798,469.
- Hurst, Mowatt M. Automobile drying device and method. 2,803,892, 8-27-57, Cl. 34-229.

- Hurst, Reginald H., to Kalamazoo Vegetable Parchment Co. Moisture proof heat sealable wrapping material. 2,778,760, 1-22-57, Cl. 154-50.
- Hurst, Thomas M., to Celanese Corp. of America. Textile apparatus. 2,780,048, 2-5-57, Cl. 57-119.
- Hurt, Norman A., to Lever Brothers Co. Soap-making and bleaching process. 2,802,848, 8-13-57, Cl. 260-418.
- Hurt, Norman A., to Lever Brothers Co. Hypochlorite-chlorite bleaching of soapstock. 2,810,735, 10-22-57, Cl. 260-419.
- Hurt, Victor H., to United States Rubber Co. Method of molding a plastic blank upon a hollow form. 2,777,165, 1-15-57, Cl. 18-56.
- Hurt, Victor H., to United States Rubber Co. Fluid tight receptacle. 2,798,522, 7-9-57, Cl. 150-2.1.
- Hurvitz, Hyman. Two dimensional electroluminescent display. 2,796,584, 6-18-57, Cl. 324-77.
- Hurwitz, Dan N. Computer. 2,814,115, 11-26-57, Cl. 33-1.
- Hurwitz, Henry, Jr., H. Brooks, C. Mannal, J. H. Payne, and E. A. Luebke, to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor fuel element. 2,799,642, 7-16-57, Cl. 204-193.2.
- Hurwitz, Melvin D.: See—
Shippee, Fred B., and Hurwitz. 2,807,865.
- Hurwitz, Melvin D., B. B. Kine, and N. A. Matlin, to Rohm & Haas Co. Protein-containing textiles and stabilization thereof. 2,780,608, 2-5-57, Cl. 260-29.6.
- Husley, Thomas C., III, and N. G. Kling, to Conitech, Ltd. Artificial respiration apparatus. 2,779,329, 1-29-57, Cl. 128-30.
- Husman, Paul A.: See—
Kuczun, Chester G., and Husman. 2,781,423.
- Husqvarna Vapenfabriks Aktiebolag: See—
Carlson, Carl G., and Schulz. 2,796,633.
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- Huss, Enno: See—
Gerbel, Karl, and Huss. 2,808,384.
- Huss, Glenn L.: See—
Robinson, Frederick A., and Huss. 2,815,308.
- Huss, Richard, A. Siebert, and J. Weissert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyazo-dyestuffs. 2,777,838, 1-15-57, Cl. 260-168.
- Hussa, Leopold R. Power take-off device. 2,814,372, 11-26-57, Cl. 192-48.
- Hussey, Russell B., to American Bosch Arma Corp. Regulator. 2,777,915, 1-15-57, Cl. 200-103.
- Hussey, William D.: See—
Lee, Pete E., and Hussey. 2,791,442.
- Husted, Donald R., and A. H. Ahlbrecht, to Minnesota Mining & Mfg. Co. N,N-bis (1,1-dihydroperfluoroalkyl) acylamides and polymers thereof. 2,782,184, 2-19-57, Cl. 260-89.7.
- Husted, Donald R., and A. H. Ahlbrecht, to Minnesota Mining & Mfg. Co. Bis(1,1-dihydroperfluoroalkyl)amines and salts thereof. 2,795,615, 6-11-57, Cl. 260-583.
- Huston, Carl N. Suppository injector. 2,778,361, 1-22-57, Cl. 128-271.
- Huston, Elmo F.: See—
Lewis, Warren J., and Huston. 2,783,673.
- Huston, Robert F., to The Dow Chemical Co. Method of decolorizing epichlorohydrin. 2,799,639, 7-16-57, Cl. 204-158.
- Huston, William D., to American Machine and Metals, Inc. Damped pressure gage. 2,796,765, 6-25-57, Cl. 73-414.
- Husung, Ernest, and F. Lintzen, to American Enka Corp. Yarn take up device for use with belt supported yarns. 2,792,931, 5-21-57, Cl. 203-240.
- Hutchcroft, Clyde R., W. R. Seipt, and R. A. Schneider, to Keesbey & Mattison Co. Equipment for charging fibre-containing slurry into molds. 2,816,321, 12-17-57, Cl. 18-30.
- Hutchings, J. K., and J. A. McNeece. Structure for mounting dirigible wheels. 2,785,907, 3-19-57, Cl. 280-96.3.
- Hutcheon, Charles F.: See—
Cook, Leon A., and Hutcheon. 2,806,718.
- Hutchings, Edward G., to The Babcock & Wilcox Co. Vapor generators with superheat temperature control. 2,794,427, 6-4-57, Cl. 122-477.
- Hutchings, Kenneth J., to E. Shipton & Co. Ltd. Jack connector with resilient wall. 2,815,494, 12-3-57, Cl. 339-61.
- Hutchings, Le Roi E.: See—
Annabe, Weldon G., Hutchings, and Walsh. 2,787,531.
Crosby, Gifford W., and Hutchings. 2,800,503.
Hennig, Harvey, Alford, and Hutchings. 2,802,026.
Marisic, Milton M., and Hutchings. 2,780,527.
Sayre, Allyn T., Jr., Hutchings, and Holbrook. 2,801,699.
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- Hutchings, Le Roi E., to The Pure Oil Co. Desulfurization and dearomatization of hydrocarbon mixtures by solvent extraction. 2,792,332, 5-14-57, Cl. 196-14.17.
- Hutchings, Le Roi E., to The Pure Oil Co. Production of cyanogen. 2,793,991, 5-28-57, Cl. 204-101.
- Hutchings, Le Roi E., to The Pure Oil Co. Method of separating normal olefins and paraffins. 2,813,139, 11-12-57, Cl. 260-677.
- Hutchings, Le Roi E., to The Pure Oil Co. Purification of petroleum coke. 2,814,588, 11-26-57, Cl. 202-31.
- Hutchings, Le Roi E., and M. M. Marisic, to The Pure Oil Co. Separation of oil from spent copper oxide slurries. 2,776,246, 1-1-57, Cl. 196-30.
- Hutchings, Le Roi E., and E. D. Blum, to The Pure Oil Co. Process for the production of acetylenes. 2,790,759, 4-30-57, Cl. 204-171.
- Hutchings, Le Roi E., and G. W. Crosby, to The Pure Oil Co. Sulfonation of petroleum oils. 2,815,370, 12-3-57, Cl. 260-504.
- Hutchins, Allan S., to Crompton & Knowles Loom Works. Quill check for narrow ware loom. 2,781,790, 2-19-57, Cl. 139-136.
- Hutchins, Alma A. Metal deforming percussion tool. 2,783,814, 3-5-57, Cl. 153-48.
- Hutchins, Charles C., and B. C. Seaman, to Hutchins Electric Co., Inc. Electric motor. 2,779,907, 1-29-57, Cl. 318-220.
- Hutchins, Charles C., and B. C. Seaman, to Hutchins Electric Co., Inc. Electric motor. 2,818,540, 12-31-57, Cl. 318-220.
- Hutchins, Colin and G. B.; said C. Hutchins assor. to said G. B. Hutchins. Automatically collapsible inside form. 2,799,911, 7-23-57, Cl. 25-180.
- Hutchins Electric Co., Inc.: See—
Hutchins, Charles C., and Seaman. 2,779,907.
Hutchins, Charles C., and Seaman. 2,818,540.
- Hutchins, Everett C., to General Motors Corp. Method of frictionally welding a tube to a metal object. 2,795,039, 6-11-57, Cl. 29-470.3.
- Hutchins, Everett C., to General Motors Corp. Refrigerating apparatus. 2,816,211, 12-10-57, Cl. 219-106.
- Hutchins, Glen B.: See—
Hutchins, Colin and G. B. 2,799,911.
- Hutchins, Joseph W., to Phillips Petroleum Co. Temperature compensator. 2,789,230, 4-16-57, Cl. 250-43.5.
- Hutchins, Joseph W., to Phillips Petroleum Co. Electrical temperature indicating device. 2,799,758, 7-16-57, Cl. 201-63.
- Hutchins, Joseph W., to Phillips Petroleum Co. Gas analysis. 2,813,010, 11-12-57, Cl. 23-232.
- Hutchins, Joseph W., to Phillips Petroleum Co. Catalyst regeneration analysis and control. 2,817,691, 12-24-57, Cl. 260-683.3.
- Hutchins, Ralph P., to The French Oil Mill Machinery Co. Desolventizer. 2,806,297, 9-17-57, Cl. 34-173.
- Hutchins, Ralph P., and G. C. Zwayer, to The French Oil Mill Machinery Co. Continuous solvent extraction method and apparatus. 2,806,770, 9-17-57, Cl. 23-310.
- Hutchinson, Arthur J. L. Vapor-liquid contacting apparatus. 2,804,935, 9-3-57, Cl. 183-26.
- Hutchinson, Arthur J. L. Process for dehydrating gas. 2,804,940, 9-3-57, Cl. 183-115.
- Hutchinson, Arthur J. L. Vapor-liquid contacting method. 2,804,941, 9-3-57, Cl. 183-121.
- Hutchinson Brothers Leather Co.: See—
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- Hutchinson, David W. Gas turbine with clutch control. 2,804,748, 9-3-57, Cl. 60-39.27.
- Hutchinson, Edward R.: See—
Schremp, Frederic W., Hutchinson, and Hopkins. 2,804,148.
- Hutchinson, Harrel E., 1/2 to H. C. Rowell. Slab thrower. 2,787,365, 4-2-57, Cl. 198-128.
- Hutchinson, Henry M.: See—
Bessant, Kenneth H. C., Goodchild, Hollis, Hutchinson, and Kemp. 2,784,177.
- Hutchinson, Henry M., and K. Stevens, to The Distillers Co. Ltd. Zinc sulfide suspension stabilisers in styrene polymerization. 2,797,209, 6-25-57, Cl. 260-93.5.
- Hutchinson, Henry M., and K. Stevens, to The Distillers Co. Ltd. Suspension stabilizer of magnesium hydroxide and excess alkali. 2,801,992, 8-6-57, Cl. 260-93.5.
- Hutchinson, James O., and J. W. Taylor, Jr., to the United States of America as represented by the Secretary of the Navy. Accurate range indicator. 2,817,833, 12-24-57, Cl. 343-13.
- Hutchinson, Oliver C. K.: See—
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- Hutchinson, Roland V.: See—
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- Hutchinson, Roland V., to General Motors Corp. Idler mechanism. 2,789,438, 4-23-57, Cl. 242-1.
- Hutchinson, Samuel V. Roll handling attachment for industrial lift trucks. 2,803,363, 8-20-57, Cl. 214-621.
- Hutchinson, Thomas K. and O. C. K. Shell mold making machines. 2,804,661, 9-3-57, Cl. 22-9.
- Hutchinson, William B., to Phillips Petroleum Co. Printing ink. 2,778,806, 1-22-57, Cl. 260-19.
- Hutchinson, William P., to Republic Steel Corp. Self releasing chain hook. 2,813,744, 11-19-57, Cl. 294-75.
- Hutchison, Donald F., to Wright & McGill Co. Reel clamps for fishing rods. 2,777,240, 1-15-57, Cl. 43-22.
- Hutchison, James F., to Consolidated Venetian Blind Co. Awning. 2,806,260, 9-17-57, Cl. 20-57.5.
- Hutchison, John S., and W. A. Freeman, Jr., to Esso Research and Engineering Co. Device for cleaning well perforations. 2,816,612, 12-17-57, Cl. 166-177.
- Hutchison, Lloyd D.: See—
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- Hutchison, Miller R. Jr., to Eastman Kodak Co. Photographic film clip blank, film clip, and method of making same. 2,810,177, 10-22-57, Cl. 24-259.
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- Hutgens, Karel M. to Chemische Fabriek L. van der Grinten N. V. Apparatus for irradiating materials with measured quantities of light. 2,810,836, 10-22-57, Cl. 250-52.
- Huth, Ludwig. Small article holding clip. 2,789,782, 4-23-57, Cl. 248-216.
- Huthsing, Charles K., Jr. Cage and cartridge assembly for invertible fire extinguisher. 2,804,153, 8-27-57, Cl. 169-31.
- Hutson, Alton W. Picture frames. 2,776,508, 1-8-57, Cl. 40-155.
- Hutson, Alton W. Kite. 2,804,276, 8-27-57, Cl. 244-153.
- Hutson, Clifford L. Quick acting C-clamp. 2,812,789, 11-12-57, Cl. 144-305.
- Hutson, Lester E., M. V. Imboden, and H. W. Stannard, to F. B. Odum. Nut retainer which is distortable to permit assembly of nut therewith. 2,815,789, 12-10-57, Cl. 151-41.7.
- Hutt, Philip, to General Electric Co. Detent means for push button switch. 2,793,257, 5-21-57, Cl. 200-5.
- Hutt, Philip, to General Electric Co. Snap action push button switch. 2,802,915, 8-13-57, Cl. 200-67.
- Hutt, Philip, to General Electric Co. Snap acting drum switch. 2,810,029, 10-15-57, Cl. 200-63.
- Hutt, Philip, to General Electric Co. Mounting means for electric switch. 2,810,049, 10-15-57, Cl. 200-168.
- Hutt, Philip, to General Electric Co. Rotary switch with quick-connect terminals. 2,813,158, 11-12-57, Cl. 200-6.
- Hutt, Philip, to General Electric Co. Door jamb switch. 2,814,697, 11-26-57, Cl. 200-159.
- Huttenwer, Oberhausen Aktiengesellschaft: See—Graef, Rudolf F. 2,804,385.
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- Hutto, Marsden C., Jr. Adjustable cutter tool. 2,811,056, 10-29-57, Cl. 77-58.
- Hutton, Walter C. Pipe sealing device. 2,793,783, 5-28-57, Cl. 220-24.5.
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- Huxhold, Leonard J. Measuring shortening extractors. 2,802,266, 8-13-57, Cl. 31-11.
- Huxtable, Robert W., to Millers Falls Co. Woodcutting bit assembly. 2,794,468, 6-4-57, Cl. 145-116.
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- Huyett, Daniel D., to Atlas Powder Co. Multiple unit insertion machine for blasting initiator wires. 2,797,608, 7-2-57, Cl. 86-1.
- Huyser, Francis C., to American Machine and Metals, Inc. Portable hardness tester. 2,790,321, 4-30-57, Cl. 73-83.
- Hvale, James L., to Ekco Products Co. Mop with folding squeeze head. 2,779,959, 2-5-57, Cl. 15-119.
- Hwa, Jesse C. H., to Rohm & Haas Co. Preparation of cation-exchange resins from vinyl thiocyanate. 2,818,395, 12-31-57, Cl. 260-2.2.
- Hyams, Herbert B., and H. E. Kerr, to Atlas Mfg. Co. Self-leveling support structure for ironing tables. 2,812,599, 11-12-57, Cl. 38-121.
- Hyatt, Clarence J. Syringe. 2,811,968, 11-5-57, Cl. 128-225.
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- Hyde, James F., and G. J. Kookootsedes, to Dow Corning Corp. Method of preparing siloxane fluids. 2,779,776, 1-29-57, Cl. 260-448.2.
- Hyde, John W.: See—Thornes, Leslie S., Turner, and Hyde. 2,781,322.
- Hyde, Laurin E. Mold for making imitation article. 2,779,058, 1-29-57, Cl. 18-27.
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- Hyde, Merritt A., to Westinghouse Electric Corp. Over-pressure protection of pipe lines. 2,813,231, 11-12-57, Cl. 317-139.
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- Hyde, Robert W., Jr.: See—Scott, Pete J. 2,787,387.
- Hyde, William E.: See—Shryack, Homer D. 2,790,380.
- Hydra-Power Corp.: See—Mancusi, Joseph J., Jr. 2,778,339.
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- Hydraulic Unit Specialties Co.: See—Tennis, Francis H. 2,783,744.
- Hydraulik A/S: See—Dalhaug, Sevryn. 2,816,565.
- Hydril Co.: See—Knox, Granville S. 2,804,884.
- Hydro-Blast Corp.: See—Will, Phillip C., and Luce. 2,783,511.
- Hydrocarbon Research, Inc.: See—Buschow, Herman F., and Van Orden. 2,787,481.
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- Hykes, Paul G., and W. B. Pope, to The Budd Co. Wheel hub, disk, and brake drum assembly. 2,812,216, 11-5-57, Cl. 301-105.
- Hylas, Albert E.: See—Tyminski, Walter V., and Hylas. 2,786,142.
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- Hylas, Albert E., and W. V. Tyminski, to Allen B. Du Mont Laboratories, Inc. Multiple band-pass amplifier. 2,790,035, 4-23-57, Cl. 179-171.
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- Hyman, S. E., Co., The: See—Pickard, Clession H. 2,804,912.
- Pickard, Clession H. 2,804,913.
- Hyman, Sidney. Handbag construction. 2,796,105, 6-18-57, Cl. 150-28.
- Hynes, Fred B. W. Bumper seat. 2,781,081, 2-12-57, Cl. 155-78.
- Hynes, Lee P., to Turbine Equipment Co. Fluid electric heater. 2,790,889, 4-30-57, Cl. 219-39.
- Hynson, Frederic R., to Miller Engineering Corp. Turning device. 2,780,340, 2-5-57, Cl. 198-33.
- Hyre, Robert W., to Concrete Forms Corp. Aligning device. 2,814,459, 11-26-57, Cl. 254-100.
- Hyre, Robert W. Form clamps. 2,816,342, 12-17-57, Cl. 24-269.
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- Hysler, John F., to Vickers Inc. Load division system for power transmission. 2,782,322, 2-19-57, Cl. 307-57.
- Hyslop, Andrew, Jr. Vibrating screen. 2,804,967, 9-3-57, Cl. 198-220.
- Hyson, Archibald M., and R. C. Schreyer, to E. I. du Pont de Nemours and Co. Azo nitriles containing beta-hydroxyalkyl substituents. 2,778,818, 1-22-57, Cl. 260-192.
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- Hytt, Pontus L., to Aktiebolaget Separator. Plate for plate heat exchangers. 2,814,469, 11-26-57, Cl. 257-245.
- Hyzer, William G., to The Parker Pen Co. Photo-flash attachment for cameras. 2,811,907, 11-5-57, Cl. 95-11.5.
- I. C. O. S. Impresa Costruzioni Opere Specializzate: See—Veder, Christian. 2,791,886.
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- Iannelli, Frank M. Carbonating apparatus. 2,782,016, 2-19-57, Cl. 261-70.
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Ianuzzi, Anthony P., 73½% to M. Myerberg, 20% to A. Gray, Jr., 2% to L. C. Blendermann, 2% to Monide, Inc., and 1¼% to S. F. and 1¼% to B. Alexander. Camera mounts. 2,782,700, 2-26-57, Cl. 95-18.
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- Indiana Steel Products Co., The : See—
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- Indianapolis Bond and Share Corp. : See—
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- Ingham, Charles W. Carton. 2,801,782, 8-6-57, Cl.
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- Ingham, Robert M., Jr., to Deering Milliken Research Corp.
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- Ingham, Robert M., Jr., to Deering Milliken Research Corp.
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- Ingram, Dudley H. Apparatus for pressure cooking canned
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- Ingram, Dudley H. Bird house. 2,808,027, 10-1-57, Cl.
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- Ingle, George W., and W. B. Tuemmler, to Monsanto Chemical
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- Ingle, Ray M. Electric spreading, shining, polishing and
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- Inglis, Dewitt W. Roller line guide and tip for fishing rods.
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- Ingraham, Robert C., to Sylvania Electric Products, Inc.
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- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake
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- Ingwersen, Richard C., to Mechanical Products, Inc. Electric
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- Ingwersen, Richard C., to Mechanical Products, Inc. Electric
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- Inhoffen, Hans H., to Hoffmann-La Roche Inc. 1-hydroxy-3-
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- Inhoffen, Hans H., O. Isler, and P. Zeller, to Hoffmann-La
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- Inhoffen, Hans H., and F. Bohlmann, to Hoffmann-La Roche
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- Inhoffen, Hans H., O. Isler, M. Montavon, R. Ruegg, and P.
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- Inman, William A. Apparatus for drying bulk grain. 2,780,876, 2-12-57, Cl. 34-90.
- Inman, William H., to Bloomer Bros. Co. Cellular filler for cartons. 2,782,951, 2-26-57, Cl. 217-23.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,804,256, 8-27-57, Cl. 229-51.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,815,897, 12-10-57, Cl. 229-39.
- Inman, William M. Mine escape tunnel. 2,817,505, 12-24-57, Cl. 262-34.
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- Innes, William B., to American Cyanamid Co. Method for surface area and pore volume measurement by desorption. 2,788,657, 4-16-57, Cl. 73-38.
- Innocenti, Scipione. Automatic cigarette-feeding devices for cigarette-packaging machines. 2,799,413, 7-16-57, Cl. 214-302.
- Inoshita, Kagenobu. Processes for producing hollow filaments of regenerated cellulose. 2,780,512, 2-5-57, Cl. 18-54.
- Inoue, Asao, to Nippon Kogaku K. K. Optical projection condensing lens system of variable magnification of the cross section of the light ray bundle. 2,787,935, 4-9-57, Cl. 88-24.
- Inoue, Yoshikame, K. Takeuchi, K. Fukuda, and H. Miyawaki. Electrolytic production of titanium dichloride. 2,798,039, 7-2-57, Cl. 204-94.
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Johnson, Reynold B. 2,785,627.
Johnson, Reynold B. 2,792,891.
Johnson, Reynold B. 2,796,127.
Johnson, Reynold B. 2,801,343.
Johnson, Reynold B. 2,802,414.
Johnson, Reynold B. 2,810,900.
Johnson, Reynold B., and Goodman. 2,792,892.
Karan, Clarence. 2,803,519.
Kelly, Martin J. 2,784,389.
Klippel, Warren H. 2,792,223.
Klotz, Herman J. 2,789,819.
Knox, Lewis A. 2,782,989.
Koehler, Robert B. 2,796,558.
Koehler, Robert B., and Richards. 2,782,336.
Kropp, Willis A. 2,810,623.
Lampe, Altman W. 2,807,773.
Lamy, Richard C. 2,814,792.
Leathers, Ward, and Panissidi. 2,799,994.
Lentz, John J. 2,796,521.
Lowrie, Richard W. 2,803,177.
Luhn, Hans P. 2,782,348.
Luhn, Hans P. 2,794,081.
Luhn, Hans P. 2,799,451.
Luhn, Hans P. 2,806,986.
Luhn, Hans P., and Inat. 2,778,567.
Manning, Clarence R. 2,814,438.
Martin, Harold F. 2,802,078.
Mason, Richard K. 2,790,076.
Mestre, Auguste F. 2,800,643.
Mills, Donald R. 2,814,443.
Mimlitch, Robert H. 2,807,345.
Mork, Ralph G. 2,810,860.
Nordyke, Horace W., Jr. 2,789,026.
Oldenboom, Derk J. 2,807,190.
Oldenboom, Derk J. 2,813,715.
Palmer, Leon E. 2,788,881.
Panissidi, Hugo A. 2,800,885.
Paulsen, Robert C. 2,807,717.
Paulsen, Robert C. 2,810,520.

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Perkins, Glen E., and Butler. 2,796,932.
 Potter, James A. 2,798,199.
 Rabenda, Edward J. 2,807,413.
 Rabenda, Edward J. 2,807,419.
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 Reynolds, Francis W., and Kress. 2,797,179.
 Rhodes, Kenneth E. 2,789,762.
 Roshon, David D., Jr. 2,807,703.
 Roth, Robert I. 2,807,415.
 Roth, Robert I. 2,813,479.
 Rutter, Donald E. 2,792,174.
 Salecker, Anton. 2,795,840.
 Schieber, Leonard, Jr. 2,812,485.
 Sesny, Stephen A., and Peters. 2,779,929.
 Smith, Charles B. 2,798,554.
 Steinberg, Richard K. 2,785,859.
 Stern-Montagny, Francis. 2,812,136.
 Taylor, Richard. 2,801,806.
 Taylor, Richard. 2,813,987.
 Tibbling, Stig B. 2,812,048.
 Toeppen, Thurston H. 2,796,966.
 Toeppen, Thurston H., and Hsu. 2,792,779.
 Von Neumann, John. 2,815,488.
 Weidenhammer, James A. 2,807,005.
 Weidenhammer, James A., and Buslik. 2,792,217.
 Wheelock, Lewis T. 2,788,663.
 Whitenack, Ray M. 2,803,758.
 Whitney, Gordon E. Re. 24,358.
 Williams, Frederic C., and Kilburn. 2,777,971.
 Williams, Frederic C., and Kilburn. 2,810,092.
 Wood, Marion L. Re. 24,303.
 Wood, Marion L. 2,789,766.
 Wroblewski, Edward J. 2,793,035.
 Young, Donald B. 2,782,397.
 Young, Richard J. 2,800,213.
 Zimmerman, Hale G. 2,796,829.

International Cigar Machinery Co.: *See*—
 Halstead, John F. 2,808,058.
 Landman, Paul. 2,815,868.
 Neumair, Joseph A. 2,785,682.
 Wheeler, Henry H. 2,775,969.
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International Clay Machinery of Delaware, Inc.: *See*—
 McElroy, Roy H. 2,785,455.

International Electronic Research Corp.: *See*—
 Woods, Leroy R. 2,807,659.

International Electronics Co., The: *See*—
 Bobb, Lloyd J. 2,780,678.
 Bobb, Lloyd J. 2,786,896.
 Roberts, Bruce. 2,783,048.
 Roberts, Bruce. 2,812,948.

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 Grela, Milton W., and Clifford. 2,783,938.

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 Jakosky, John J. 2,782,865.

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 Arend, Christopher H. 2,783,060.
 Arend, Christopher H. 2,795,101.
 Ashley, Walter M., Jr. 2,818,311.
 Beardsley, Gale R. 2,806,460.
 Bechman, William O., Land, Baker, and Henning. 2,780,319.
 Bechman, William O., and Palkovic. 2,800,803.
 Becker, Abram I. 2,788,629.
 Becker, Abram I. 2,795,314.
 Bilster, Halsey R. 2,806,268.
 Bliss, William E. 2,806,568.
 Booty, Philip C., Jr. 2,818,190.
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 Bornzin, James H. 2,790,336.
 Bornzin, James H., Currier, Francis, and Tufts. 2,787,949.
 Bornzin, James H., Currier, and Reibell. 2,800,996.
 Bourgeois, Francis H., and Richardson. 2,801,117.
 Bowes, Emer B. 2,809,224.
 Brogan, Emmett V. 2,780,706.
 Carlson, Ernest C. 2,796,720.
 Christie, Reginald A. 2,806,707.
 Christofferson, Donald F. 2,795,180.
 Collins, William F. 2,790,295.
 Collins, William F. 2,817,943.
 Collins, William F., and Dryan. 2,790,538.
 Collins, William F., Schmied, and Sandahl. 2,806,485.
 Collins, William F., and Johnston. 2,817,942.
 Cooke, Edward P. 2,800,692.
 Court, Leslie W. 2,795,411.
 Covitt, Jack G., and Putnam. 2,780,372.
 Covitt, Jack G., and Putnam. 2,814,084.
 Czohara, Chester A. 2,797,305.
 Fisher, Walter J., and Sheerin. 2,806,616.
 Forsyth, Clark H. 2,780,478.
 Gammie, John E. 2,806,572.
 Gehrke, Kenneth W. 2,806,382.
 Georgen, Wendell L. 2,797,289.
 Georgen, Wendell L., Bilter, and Yrigoyen. 2,782,470.
 Hall, John R. 2,803,696.
 Hanford, William D., and Scarnato. 2,796,722.
 Hein, Harold W. 2,818,025.

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 Hoover, Helen D. 2,814,580.
 Howell, Frank L. 2,789,007.
 Howell, Frank L. 2,817,870.
 Hintz, Otto E. 2,790,291.
 Huddle, Edwin F. 2,806,340.
 James, Howell N. 2,806,385.
 Johnson, Arnold E. W. 2,800,764.
 Johnson, Gustave A. 2,796,819.
 Judkins, George H. 2,790,232.
 Kirchner, Kenneth G. 2,788,730.
 Komuchar, Victor J., and Cerny. 2,783,901.
 Komuchar, Victor J., and Cerny. 2,790,565.
 Kriegbaum, George M., Bornzin, and Bardwell. 2,796,825.
 Lehning, J. Philip. 2,814,059.
 Leirer, Gordon H. 2,806,622.
 Malcolm, Robert H. 2,800,212.
 Miller, Robert H. 2,795,177.
 Mott, Carl W. 2,788,679.
 Orelind, John R. 2,776,613.
 Orelind, John R., and Jennings. 2,779,260.
 Owen, Leonard V. 2,783,061.
 Paton, Allan F. 2,788,809.
 Pool, Stuart D., and Downing. 2,814,209.
 Pool, Stuart D., and Whitney. 2,797,103.
 Raney, Russell R., Collins, and Schmied. 2,801,863.
 Raney, Russell R., Collins, and Schmied. 2,801,864.
 Rosenthal, William C., Ferguson, and Boyle. 2,806,389.
 Rosenthal, William C., Ferguson, and Boyle. 2,806,565.
 Rowbotham, William R. 2,808,695.
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 Schmied, William F. 2,800,758.
 Selzer, John. 2,806,736.
 Shallenberg, Robert L. 2,792,259.
 Shallenberg, Robert L. 2,818,053.
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 Shifrer, Martin G. 2,788,894.
 Smith, David T. 2,809,276.
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 Steiner, Philip F. 2,788,775.
 Tieman, Rahe J. 2,782,518.
 Trainer, Horace G., Jr. 2,818,052.
 Voigt, August C. 2,814,082.
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 Wells, Robert M. 2,814,168.
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 Dorsey, William J. 2,806,221.
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 Sebrell, Lorin B. 2,810,129.
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 Dancy, William B. 2,809,093.
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 Dancy, William B., and Stanley. 2,804,370.
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 Fike, Harold L. 2,796,434.
 Gloss, Gunter H. 2,776,191.
 Gloss, Gunter H. 2,780,523.
 Gloss, Gunter H., and Gross. 2,780,522.
 Gloss, Gunter H., and Gross. 2,780,524.
 Goldberg, Jacob Z. 2,808,212.
 Gross, John H. 2,816,818.
 Hoglan, Forest A. 2,799,704.
 Hoglan, Forest A. 2,806,855.
 Hoglan, Forest A., and Blish. 2,789,135.
 Jones, William E. 2,807,625.
 Joyce, Rose M., and Vassel. 2,798,092.
 Lawver, James E. 2,805,768.
 Lawver, James E. 2,805,769.
 Lawver, James E. 2,805,770.
 Lawver, James E. 2,805,771.
 Le Baron, Ira M. 2,783,886.
 Le Baron, Ira M. 2,795,484.
 McGarry, Phillip E. 2,811,254.
 Monterman, William A. 2,798,000.
 Norman, Oscar L., and Joyce. 2,790,000.
 Purvis, Joseph L. 2,788,368.
 Purvis, Joseph L. 2,790,001.
 Purvis, Joseph L., and Fike. 2,796,433.
 Sietsema, Jacob W. 2,795,603.
 Skelly, William G. 2,807,626.
 Uhland, Homer. 2,783,969.
 Uhland, Homer E. 2,812,858.
 Vassel, Bruno. 2,795,605.
 Vassel, Bruno. 2,800,502.
 Vassel, Bruno. 2,802,864.
 Vassel, Bruno. 2,806,859.
 Williams, Beverly E., and Buchanan. 2,805,163.

- International Nickel Co., Inc., The: *See*—
 Atkinson, Ralph H. 2,792,341.
 Betteridge, Walter, and Lewis. 2,815,283.
 Edelman, Leonard E., and Gales. 2,813,076.
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 Franklin, Arthur W. 2,793,108.
 Grandpierre, Maurice C. M. 2,781,260.
 Hegmege, Paul E., Jr. 2,780,544.
 Hersch, Paul. 2,805,191.
 Klingbeil, Herbert. 2,776,206.
 Klingbeil, Herbert. 2,809,886.
 Le Grand, Pierre E., Pease, and Kihlgren. 2,798,824.
 Morton, Byron B., and Rice. 2,791,096.
 Mudge, William A. 2,816,200.
 Rhodes, Edwin C., and Rhys. 2,815,282.
 Schelleng, Robert D., and Eash. 2,809,888.
 Skinner, Edmund N. 2,813,788.
 Tschop, Harry E., Carter, and Goodrich. 2,806,783.
 Wallis, Albert E. 2,776,200.
 Wallis, Albert E., and West. 2,816,819.
 West, De Witt H., Llewelyn, and Floyd. 2,812,276.
- International Paper Box Machine Co., The: *See*—
 Goss, Harold J. 2,794,572.
 La Bombard, Leon E. 2,813,464.
- International Paper Co.: *See*—
 Hollis, Clinton R. 2,809,569.
 Mottet, Arthur L. 2,796,093.
 Mottet, Arthur L. 2,811,183.
 Nurre, Thomas C. 2,807,360.
 Sider, Nicholas M. 2,797,800.
 Smith, Lee M. 2,807,401.
 Williamson, Oscar H. 2,794,761.
- International Pneumatic Corp.: *See*—
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- International Rectifier Corp.: *See*—
 Cataldo, Joseph T., and Kadelburg. 2,780,667.
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 Stolle, Anthony D., and Ellis. 2,801,305.
- International Research Corp.: *See*—
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- International Research and Development Corp.: *See*—
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 Ebling, William F., Jr. 2,797,290.
 Gentner, Konrad. 2,810,664.
 Morrissey, William J. 2,813,967.
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- International Salt Co.: *See*—
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- International Salt Co., Inc.: *See*—
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 Pearce, Calvin D. 2,810,170.
 Pearce, Calvin D. 2,811,759.
- International Standard Electric Corp.: *See*—
 Adelaar, Hans H. 2,812,134.
 Albert, Eric. 2,817,817.
 Amann, Max, Gruger, and Scholpp. 2,800,101.
 Beck, Arnold H. W. 2,810,853.
 Beck, Arnold H. W., and Brisbane. 2,797,356.
 Beck, Arnold H. W., and Cutting. 2,817,030.
 Berthold, Wolfgang. 2,802,139.
 Bretschneider, Hans. 2,784,851.
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 Brewster, Arthur E. 2,780,670.
 Brewster, Arthur E. 2,802,052.
 Burr, Harvey. 2,810,011.
 Cattermole, Kenneth W. 2,807,719.
 Clavier, Andre G., and Thomas. 2,782,382.
 Cresson, George M. 2,780,794.
 Earp, Charles W. 2,783,305.
 Earp, Charles W. 2,784,255.
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 Earp, Charles W. 2,786,100.
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 Ganitta, Eugen. 2,799,725.
 Gaugain, Emile P. 2,787,664.
 Gloess, Paul F. M. 2,807,016.
 Gohorel, Fernand P. 2,810,018.
 Hargreaves, Thomas F., Stanley, Prior, and Chittleburgh. 2,806,903.
 Hauer, Werner. 2,815,183.
 Heinecke, Erich. 2,785,235.
 Helmert, Robert. 2,787,740.
 Holik, Ludmilla, and Nowotny. 2,806,982.
 Jackson, Thomas M. 2,780,747.
 Jackson, Thomas M., and Odell. 2,810,861.
 Jackson, Thomas M., and Sell. 2,814,762.
 Jacobsen, Bent B., and Thomas. 2,785,398.
 Keilig, Wolfgang. 2,809,741.
 Kenmoku, Masamichi. 2,807,742.
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 Klein, Werner, and Friz. 2,812,469.
 Kruihof, Jakob, Nys, and Donceel. 2,787,668.
 Lens, Georges X. 2,807,376.
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- International Standard Electric Corp.: *See*—Continued
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 Malsch, Friedrich. 2,802,128.
 Mauge, Marcel R., and Escande. 2,787,667.
 McWhirter, Eric M. S. 2,806,335.
 McWhirter, Eric M. S., and Ost. 2,785,388.
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 Mittag, Fritz H., and Ringhandt. 2,815,182.
 Montchausse, Andre J., and Dautry. 2,799,754.
 Nordsieck, Arnold T. 2,787,734.
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 Pouliart, Willy H. P., and Vandevenne. 2,807,004.
 Prior, Hector T., and Chittleburgh. 2,802,051.
 Reinhard, Wolfgang. 2,797,316.
 Richards, Edward A., and Ellison. 2,817,047.
 Richert, Eberhard. 2,784,922.
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 Schmidt, Fritz. 2,806,085.
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 Sindzinski, Willy. 2,806,582.
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 Steinbuch, Karl. 2,806,154.
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 Terry, Victor J., Kelly, Miller, and Kelly. 2,785,371.
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 Thomas, David L. 2,812,388.
 Townner, Stanley H., and Hatch. 2,802,156.
 Walker, Thomas H. 2,806,153.
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 Forrester, William A. 2,778,266.
 Forrester, William A. 2,794,534.
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- International Steel Co.: *See*—
 Cheshire, Frank E. 2,783,718.
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- International Telemeter Corp.: *See*—
 Brown, George J. 2,808,871.
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- International Telephone and Telegraph Corp.: *See*—
 Adams, Robert T., Horvath, and Parzen. 2,797,387.
 Altman, Frederick J. 2,776,425.
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 Arditi, Maurice, Deschamps, and Elefant. 2,794,174.
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 Bosh, James E. 2,781,666.
 Bradburd, Ervin M. 2,779,933.
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 Bryant, John H. 2,794,145.
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 Bryant, John H., Cole, and McEwan. 2,798,981.
 Bryant, John H., and Marchese. 2,788,465.
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 Clark, Gilbert R. 2,815,504.
 Davis, Dean W. 2,808,526.
 Davis, Richard C., and Moore. 2,802,099.
 Day, Cyril L. 2,802,126.
 De Faymoreau, Etienne. 2,810,874.
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 De Rosa, Louis A. 2,800,654.
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 Di Toro, Michael J., Graham, and Schreiner. 2,810,787.
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 Earle, Edwin L. 2,811,681.
 Engelmann, Herbert F. 2,810,891.
 Estes, Charles L. 2,776,366.
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 Foley, Jerrold S. 2,796,539.
 Geiger, Richard H. 2,788,464.
 Goldstein, Ladislav. 2,776,409.
 Goldstein, Ladislav, Lampert, and Heney. 2,817,045.
 Grief, Donald D., and Engelmann. 2,800,634.
 Griffiths, Thomas W. 2,784,532.
 Gulnick, Adrien N. 2,810,797.
 Harris, Samuel J., and Henderson. 2,818,467.
 Hasney, Earle J. 2,801,531.
 Hislop, Arthur Q., and Leysath. 2,802,145.
 Hopkins, Lionel P. 2,784,994.
 Horwitz, Henry L., and Hasser. 2,797,262.
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 Houdek, Joseph F., Jr. 2,791,638.
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 Karow, Kenneth A. 2,818,469.
 Keel, Donald K., and Mayhew. 2,784,175.
 Knuepfer, Walter J. 2,776,180.
 Kostriza, John A. 2,790,143.
 Kostriza, John A., and Terranova. 2,797,390.
 Labin, Emilie, and Greig. 2,802,179.
 Lair, Julien J. B., and Selvaggi. 2,776,424.
 Lesti, Arnold. 2,807,715.
 Levine, Arnold M. 2,786,886.
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 Lighty, Paul E. 2,815,475.
 Marchese, Theodore J. 2,800,605.
 Marino, Anthony J., Jr. 2,776,131.
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 Menhennett, Gerald H. 2,785,298.
 Miles, Raymond C. 2,818,561.
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 Thomas, Harry E., and Stein. 2,797,341.
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International Trublast Stemming Corp. (Proprietary) Ltd.: See—
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International X-ray, Inc.: See—
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Internationella Siporex AB: See—
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Interstate Container Corp.: See—
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Interstate Mfg. Corp.: See—
 Espari, Alphonse A., and Paffumi. 2,781,573.
 Espari, Alphonse A., and Paffumi. 2,791,823.

Interstate Precision Products Corp.: See—
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Inter-Urban Express Corp.: See—
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Intrusion-Prepakt, Inc.: See—
 Turzillo, Lee, and McKinzie. 2,779,575.
 Wertz, Louis S., and Turzillo. 2,782,605.

Inventa A. G. fuer Forschung und Patentverwertung: See—
 Buck, Alfred, and Cramer. 2,808,125.
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Inventa A.-G., fuer Forschung und Patentverwertung Luzern: See—
 Gabler, Rudolf. 2,778,058.
 Gabler, Rudolf. 2,786,732.
 Glesen, Johann. 2,790,009.

Inventio Aktiengesellschaft: See—
 Spiess, Gustav. 2,804,586.
 Spiess, Gustav. 2,804,943.

Invention Development Corp.: See—
 Rasmussen, Peter D. 2,780,090.

Inventions & Patents Proprietary Ltd.: See—
 Potter, Richard P., and Melville. 2,788,689.

Investigacao E Exploracao Industrial (S. A. R. L.): See—
 Van Dijk, Pieter. 2,806,501.

Inwood, Texas V.: See—
 Stiles, Vernon E., and Inwood. 2,793,170.

Ioannilli, Joseph R.: See—
 Ashworth, Fred, and Ioannilli. 2,780,189.

Ionaire, Inc.: See—
 Martin, Thomas L., Jr. 2,785,312.

Ionia Mfg. Co.: See—
 Ross, John R. 2,784,134.

Ionics, Inc.: See—
 Clarke, John T. 2,800,445.
 Clarke, John T., and Hamerschlag. 2,780,604.
 Gilliland, Edwin R. 2,776,258.
 Kasper, Andrew A., and Katz. 2,778,714.
 McRae, Wayne A., and Rosenberg. 2,777,811.
 Potter, William, and Parsi. 2,785,955.

Ions Exchange & Chemical Corp.: See—
 Brown, Kenneth N. 2,810,682.
 Mendelsohn, Meyer. 2,785,106.

Iorio, Canido. Resilient restoring means for accordion keys. 2,816,470, 12-17-57, Cl. 84-376.

Iota Trust: See—

Luckhardt, Johannes. 2,796,917.
 Luckhardt, Johannes. 2,796,918.

Iowa Mfg. Co. of Cedar Rapids, Iowa: See—
 Plumb, Robert F. 2,805,874.
 Pollitz, Harold C. 2,803,411.

Iowa State College Research Foundation, Inc.: See—
 Bridger, Grover L., and Boylan. 2,782,113.
 Bridger, Grover L., and Specht. 2,799,377.
 Van Bavel, Cornelius H. M. 2,793,960.
 Walker, Richard E., Bridger, and Arnold. 2,799,597.

Ipatieff, Vladimir N.: See—
 Pines, Herman, and Ipatieff. 2,804,489.

Ippolito, Carmelo, to Dual-Lite Co., Inc. Emergency stand-by electric service apparatus. 2,804,554, 8-27-57, Cl. 307-64.

Ipsen, Harold N. Baffle type heat treating furnace. 2,788,205, 4-9-57, Cl. 263-46.

Ipsen, Harold N. Heat treating furnace. 2,800,317, 7-23-57, Cl. 263-2.

Ipsen, Harold N. Method of and apparatus for heat treating metal parts. 2,815,305, 12-3-57, Cl. 148-16.

Ipsen, Peter G., and K. C. Cotton, to General Electric Co. Shut-off valve. 2,809,010, 8-10-57, Cl. 251-86.

Iraids, Arvids. Spring actuated miter clamp. 2,815,777, 12-10-57, Cl. 144-293.

Irby, William, to General Electric Co. Method of making copper oxide rectifier cells. 2,793,968, 5-28-57, Cl. 148-6.3.

Iredell, Charles V., and H. C. Milbank, to Westinghouse Electric Corp. Method of introducing zirconia into tungsten powder preliminary to forming electrodes. 2,798,808, 7-9-57, Cl. 75-176.

Ireland, Alec A.: See—
 Cran, William B. G., Ireland, Pritchard, and Spreckley. 2,811,350.

Ireland, James R., and S. Lester, to Thomas & Skinner, Inc. Magnet alloy. 2,797,161, 6-25-57, Cl. 75-124.

Ireland, Lionel H., to Saunders-Roe Ltd. Winch. 2,802,638, 8-13-57, Cl. 254-184.

Ireland, Murray: See—
 Gomersall, John R., and Ireland. 2,800,807.

Ireland, Murray, to McGraw-Edison Co. Thermal timer construction for toaster. 2,799,217, 7-16-57, Cl. 99-329.

Ireland, Robert G.: See—
 Olson, Malvern L., Ireland, and Cowden. 2,804,380.

Irish, Donald B.: See—
 Bartels, Charles R., Kleiman, Irish, and Korzun. 2,786,831.

Irmann, Roland, to Aluminum-Industrie-Aktien-Gesellschaft. Method for the production of light metal articles. 2,796,660, 6-25-57, Cl. 29-182.

Irmiler, Horst, to Siemens-Schuckertwerke Aktiengesellschaft. Method of producing junction-type semi-conductor devices, and apparatus therefor. 2,798,013, 7-2-57, Cl. 148-1.5.

Irmischer, Hans O., to National Tea Packing Co., Inc. Infusion package manufacture. 2,780,042, 2-5-57, Cl. 53-57.

Iron Fireman Mfg. Co.: See—
 Carlson, Bert G., and Judson. 2,780,104.
 Johnson, Peter D. 2,784,322.
 Payne, Clifford M. 2,788,415.

Runniger, Frederick L., Webb, and Wright. 2,804,916.

Sprando, Anthony E. 2,781,463.

Sprando, Anthony E. 2,810,084.

Storti, Peter, and Webb. 2,781,087.

Swenson, Paul F. 2,794,446.

Thierman, Irwin B. 2,804,945.

Wright, Ralph J. 2,810,104.

Ironrite, Inc.: See—
 Sperlich, Herman A. 2,777,223.
 Sperlich, Herman A. 2,809,847.

Irrigation Equipment Co., Inc.: See—
 Jacoby, Harry D. 2,810,591.

Iruegas, Miguel U. Mechanical pastry forming apparatus. 2,797,651, 7-2-57, Cl. 107-12.

Irvin Auger Bit Co., The: See—
 Robinson, Clarence J. 2,782,824.

Irvin, Henry D.: See—
 Breazeale, Francis B., and Irvin. 2,787,221.

Irvin, Joseph R. Endless tread with detachable lug. 2,797,967, 7-2-57, Cl. 305-10.

Irvine, Houston N., to J. I. Case Co. Combine header and reel adjusting mechanism. 2,811,821, 11-5-57, Cl. 56-208.

Irvine, James E.: See—
 Durant, Leonard G., Irvine, Pennington, and Surino. 2,803,540.
 Durant, Leonard G., Irvine, Pennington, and Surino. 2,809,111.

Irvine, Kenneth C. Motor vehicle trunk ventilator. 2,810,333, 10-22-57, Cl. 98-2.

Irvine, Robert L., to Koppers Co., Inc. Removal of acetylene components from gas. 2,787,335, 4-2-57, Cl. 183-120.

Irvine, Robert L., to Gulf Oil Corp. Process and apparatus for controlling steam distillation of petroleum. 2,798,031, 7-2-57, Cl. 196-85.

Irvine, Robert L., to Gulf Oil Corp. Method and apparatus for control of reflux cooling in fractional distillation. 2,815,317, 12-3-57, Cl. 202-40.

Irvine, William C. Tobacco harvesting machine. 2,813,390, 11-19-57, Cl. 56-27.5.

Irwin, Arthur G., to Paperbox Corp. Can carton. 2,806,630, 9-17-57, Cl. 220-115.

- Irwin, Bernard F.: *See*—
Westphal, Armin W., Laurie, and Irwin. 2,815,184.
- Irwin, Charles F.: *See*—
Barish, Thomas, Irwin, Line, and Wright. 2,780,298.
- Irwin, Gordon C.: *See*—
Breed, Rolland N., Groth, Irwin, Kille, and Riggs. 2,780,410.
- Irwin, Herbert G. Archery bow. 2,816,537, 12-17-57, Cl. 124-24.
- Irwin, Joseph T.: *See*—
Chester, Allan E., Jeremias, and Irwin. 2,796,361.
Chester, Allan E., Jeremias, and Irwin. 2,796,369.
- Irwin, Lee K., to Hopkins Mfg. Corp. Apparatus for testing the adjustment of automobile headlamps. 2,797,494, 7-2-57, Cl. 33-180.
- Irwin, Neel S. Furniture having tubular legs. 2,811,402, 10-29-57, Cl. 311-111.
- Irwin, Neisler and Co.: *See*—
Cavallito, Chester J. 2,789,977.
Cavallito, Chester J., and Gray. 2,783,237.
Cavallito, Chester J., and Gray. 2,806,850.
Cavallito, Chester J., and Gray. 2,814,624.
Cavallito, Chester J., and Gray. 2,817,664.
- Irwin, Raymond A., to Kaysun, Inc. Wheel mounting. 2,778,159, 1-22-57, Cl. 46-221.
- Irwin, William. Fuel feeding control system. 2,794,599, 6-4-57, Cl. 236-26.
- Isaacs, Gerald W., dedicated to the free use of the people in the territory of the United States. Drier. 2,794,269, 6-4-57, Cl. 34-202.
- Isaacs, Samuel H.: *See*—
Schechter, Irving J., and Isaacs. 2,791,325.
- Isaacson, Anson, to Jay V. Zimmerman Co. Self-steering toy vehicle. 2,775,848, 1-1-57, Cl. 46-244.
- Isaacson, Anson. Indicating musical instrument and tune card therefor. 2,792,739, 5-21-57, Cl. 84-485.
- Isaacson, Anson I. Educational piano. 2,811,072, 10-29-57, Cl. 84-477.
- Isaacson, Harry. Combined handbags and cases. 2,786,506, 3-26-57, Cl. 150-35.
- Isakoff, Sheldon E., to E. I. du Pont de Nemours and Co. Fluid flow pulsation damping. 2,795,374, 6-11-57, Cl. 230-236.
- Isakson, Stig. Game board. 2,799,502, 7-16-57, Cl. 273-105.
- Isbell, Aubrey D. Fishing reel. 2,776,096, 1-1-57, Cl. 242-84.1.
- Isbell, Donald K.: *See*—
Schjolin, Hans O., and Isbell. 2,788,091.
- Isbell, Horace S., to the United States of America as represented by the Secretary of Commerce. Apparatus for introducing alkali metal into closed systems. 2,791,492, 5-7-57, Cl. 23-259.
- Isbell, Horace S., and R. Schaffer, to the United States of America as represented by the Secretary of Commerce. Lithium malbinate and process for making same. 2,779,760, 1-29-57, Cl. 260-210.
- Isbell, Horace S., and R. Schaffer, to the United States of America as represented by the Secretary of Commerce. Process of preparing maltobiono-lactone. 2,796,416, 6-18-57, Cl. 260-210.
- Isbenjian, Hrant, to R. S. Aries. Oxidation of methylpyridines. 2,818,378, 12-31-57, Cl. 204-158.
- Isborn, Carl L., to The National Cash Register Co. Shift register. 2,778,955, 1-22-57, Cl. 307-88.
- Isbouts, Petrus, to N. V. Brabantse Kunstweverij "De Huifkar." Sateen fabric cloths. 2,808,078, 10-1-57, Cl. 139-407.
- Isch, Franklin E. Unloading chute. 2,814,375, 11-26-57, Cl. 193-4.
- Ische, George H. Grinding guide and carrier. 2,782,570, 2-26-57, Cl. 51-122.
- Iscoe, Irving. Telephone pad attachment. 2,791,865, 5-14-57, Cl. 45-0.5.
- Ise, John, Jr., and G. P. Millburn, to the United States of America as represented by the United States Atomic Energy Commission. Gas recovery system. 2,784,799, 3-12-57, Cl. 183-4.7.
- Iselin, Ernest, and W. Wehrli, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Copper-containing disazo dyestuffs. 2,813,854, 11-19-57, Cl. 260-148.
- Isenhour, Paul S., 1/2 to M. G. Widenhouse. Knitted tights and method of manufacture. 2,790,315, 4-30-57, Cl. 66-177.
- Iserman, Lavern R., to United Equipment Accessories, Inc. Remote control system for truck mounted cranes. 2,796,997, 6-25-57, Cl. 212-38.
- Iserson, Hyman, to Pennsalt Chemicals Corp. Method of inducing plant response effects. 2,801,160, 7-30-57, Cl. 71-2.7.
- Ish, Louise V. Stocking top. 2,782,618, 2-26-57, Cl. 66-172.
- Ishikawa, Hisashi: *See*—
Abe, Yasuo, Harukawa, Ishikawa, Miki, Sumi, and Toga. 2,778,838.
- Ishikawa, Kazuo. Low power constant torque motor. 2,779,882, 1-29-57, Cl. 310-40.
- Ishizuka, Hiroshi. Process for chlorinating titanium-bearing materials. 2,805,919, 9-10-57, Cl. 23-87.
- Ishoy, Albert D., to Lambert Brake Corp. Clutch and brake combination for power transmission systems of farm tractors and the like. 2,786,560, 3-26-57, Cl. 192-18.
- Ising, George E., and T. K. Allen. Process for making a closed one-piece reinforced plastic tank. 2,815,534, 12-10-57, Cl. 18-58.
- Iskander, Edward G. Valvular apparatus for use in surgery. 2,791,217, 5-7-57, Cl. 128-203.
- Iskenderian, Haig P., to International Telephone and Telegraph Corp. Electron discharge devices. 2,776,374, 1-1-57, Cl. 250-36.
- Isle, W. E., Co., The: *See*—
Smith, Theodore W., Heger, and McConnell. 2,818,063.
- Isler, Hans O.: *See*—
Druey, Jean, and Isler. 2,792,418.
- Isler, Otto: *See*—
Gutmann, Hugo, and Isler. 2,783,232.
Inhoffen, Hans H., Isler, Montavon, Ruegg, and Zeller. 2,815,388.
Inhoffen, Hans H., Isler, and Zeller. 2,809,216.
- Isler, Otto, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of a polyene aldehyde. 2,779,792, 1-29-57, Cl. 260-601.
- Isler, Otto, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of a polyene aldehyde. 2,779,793, 1-29-57, Cl. 260-601.
- Isler, Otto, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of a polyene aldehyde. 2,780,651, 2-5-57, Cl. 260-598.
- Isler, Otto, and P. Zeller, to Hoffmann-La Roche Inc. Methyl-(2-chloroethyl)-propargyl-carbinol. 2,783,280, 2-26-57, Cl. 260-633.
- Isler, Otto, and P. Zeller, to Hoffmann-La Roche Inc. Ethyl-chloromethyl-propargyl-carbinol. 2,783,281, 2-26-57, Cl. 260-633.
- Isler, Otto, and P. Zeller, to Hoffmann-La Roche Inc. Dichloromethyl-propargyl-carbinol. 2,783,282, 2-26-57, Cl. 260-633.
- Isler, Otto, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of 2,6-dimethyl-8-(2,6,6-trimethyl-1-cyclohexenyl)-2,4,6-octatriene-1-al. 2,789,127, 4-16-57, Cl. 260-468.
- Isler, Otto, and R. Ruegg, to Hoffmann-La Roche Inc. Preparation of α,β -unsaturated aldehydes. 2,798,095, 7-2-57, Cl. 260-598.
- Isler, Otto, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of a polyene dialdehyde. 2,799,709, 7-16-57, Cl. 260-601.
- Isler, Otto, H. Lindlar, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Preparation of 3,4,3',4'-bis-dehydro- β -carotene. 2,806,885, 9-17-57, Cl. 260-617.
- Isler, Otto, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. Polyenealdehydes and process for preparing such compounds. 2,812,354, 11-5-57, Cl. 260-588.
- Isler, William. Recessed lighting fixtures. 2,802,096, 8-6-57, Cl. 240-78.
- Isler, William. Apparatus for applying metal coatings to valves. 2,808,804, 10-8-57, Cl. 118-47.
- Isley, Walter F., to Continental Aviation & Engineering Corp. Control for internal combustion engines. 2,809,622, 10-15-57, Cl. 123-140.
- Isom, Warren R., to Radio Corp. of America. Reeling system. 2,781,982, 2-19-57, Cl. 242-55.
- Isom, Warren R., to Radio Corp. of America. 16 mm. sound projector film propeller apparatus. 2,783,995, 3-5-57, Cl. 271-2.3.
- Isomet Corp.: *See*—
Ruderman, Irving W. 2,799,780.
- Ison, George G. Selective quail feeder. 2,804,843, 9-3-57, Cl. 119-52.
- Israel, John O.: *See*—
Felch, Edwin P., Israel, and Kummer. 2,808,509.
- Isreeli, Jack, to Technicon International Ltd. Holder for microscope slides. 2,817,313, 12-24-57, Cl. 118-503.
- Isserlis, Morris D. Material feed bin. 2,786,609, 3-26-57, Cl. 222-227.
- Issler, Jörg: *See*—
Zeininger, Gustav, and Issler. 2,787,786.
- Isvén, John O. Arrangement for storing objects in separate storing spaces juxtaposed in pairs. 2,802,582, 8-13-57, Cl. 214-16.
- Ithaca Gun Co., Inc.: *See*—
Pagett, Harry L. 2,797,515.
- Ito, Hiroshi, to Canon Camera Co., Inc. Four component high aperture wide angle objective lens. 2,779,239, 1-29-57, Cl. 83-57.
- Ito, Kazuo: *See*—
Kazato, Kenji, and Ito. 2,802,110.
- Itoda, Tamotsu. Packing devices for stacked nested frangible articles. 2,776,772, 1-8-57, Cl. 217-26.5.
- Itri, Angelo M. Method of making fly front for a garment. 2,810,911, 10-29-57, Cl. 2-96.
- Ivanhoe, Morris. Latch device. 2,803,476, 8-20-57, Cl. 292-80.
- Ivanoff, Peter D. Amusement and therapeutic device. 2,788,211, 4-9-57, Cl. 272-73.
- Ivens, William R. C., and D. O. Davies, to Rolls-Royce Ltd. Ignition systems for additional combustion equipment of gas turbine engines. 2,808,699, 10-8-57, Cl. 60-35.6.

- Ivers-Lee Co.: See—
 David, Edward J. 2,803,931.
 Lefebvre, Frank J. 2,793,743.
 Swartz, George A., and Salfisberg. 2,788,882.
 Volckening, Lloyd I. 2,780,353.
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 Volckening, Lloyd I., and Lefebvre. 2,801,002.
 Volckening, Lloyd I., O'Meara, and Lefebvre. 2,783,877.
- Iversen, Arthur H., to Hughes Aircraft Co. Helix support for traveling-wave tube. 2,806,171, 9-10-57, Cl. 315-3.5.
- Iversen, Arthur H., to Hughes Aircraft Co. Helix winding machine with pitch guide means. 2,811,193, 10-29-57, Cl. 153-67.
- Iversen, Arthur H., to Sylvania Electric Products, Inc. Process of coating ceramic with pyrophoric molybdenum. 2,814,571, 11-26-57, Cl. 117-22.
- Iversen, Gunnar B., G. G. U. W. Swensen, and G. Johansen, to Norsk Hydro-Elektrisk Kvaelfstofaktieselskab. Filter cell. 2,781,132, 2-12-57, Cl. 210-154.
- Iversen, Knut M.: See—
 Blandhoel, Bjarne E., and Iversen. 2,789,491.
- Iversen, Lorenz, to Mesta Machine Co. Rolling mill. 2,784,620, 3-12-57, Cl. 80-38.
- Iverson, Arden L., to Para-Lux Products Co. Device for applying garment hanger covers. 2,782,580, 2-26-57, Cl. 53-219.
- Iverson, Arden L., to Para-Lux Products Co. Shirt collar support. 2,784,886, 3-12-57, Cl. 223-83.
- Ives, Clifford E.: See—
 Mages, Irving H., and Ives. 2,785,474.
- Ives, Milo W.: See—
 Ives, Milo W. 2,808,742.
- Ives, Milo W., 50% to M. W. Ives, 49% to I. G. Kennedy, and 1% to A. W. Teale. Drill bit dressing tool. 2,808,742, 10-8-57, Cl. 76-5.
- Ives, Norton C. Apparatus for determining the storage quality of grain. 2,777,324, 1-15-57, Cl. 73-73.
- Iveson, Thomas L. Saw filing fixture. 2,801,554, 8-6-57, Cl. 76-31.
- Ivins, Herbert L.: See—
 Henning, Robert W., Ivins, Kope, and Pfaff. 2,806,218.
- Ivins, Owen D., J. D. Head, and E. C. Britton, to The Dow Chemical Co. Process for preparation of poly(perchloromethyl)benzenes. 2,810,688, 10-22-57, Cl. 204-163.
- Ivy, Jessie T. Detachable side mount. 2,782,508, 2-26-57, Cl. 33-50.
- Ivy, Jessie T. Telescope mountings. 2,782,509, 2-26-57, Cl. 33-50.
- Ivy, Jessie T. Detachable telescope mount. 2,782,511, 2-26-57, Cl. 33-50.
- Ivy, Jessie T. Automatic reloading mechanism for bolt action rifle. 2,807,113, 9-24-57, Cl. 42-16.
- Iwai, Kyoichi: See—
 Katsumaru, Kunizo, Hayashi, and Iwai. 2,777,988.
- Iwantschew, Georg, and W. Rauch, to Siemens-Schuckertwerke, Aktiengesellschaft. Electric fuse elements for retarded or rapid response. 2,815,414, 12-3-57, Cl. 200-135.
- Iwase, Keizo, and M. Honma, to The Research Institute for Iron, Steel and Other Metals of The Tohoku University. Method of reducing refining of cast irons and steels. 2,794,731, 6-4-57, Cl. 75-57.
- Iwema, Bernard, to American Telephone and Telegraph Co. Coin collector. 2,804,502, 8-27-57, Cl. 179-6.5.
- Iza, Raul, Jr.: See—
 Freseno, Eduardo F., and Iza. 2,788,427.
- Izenour, George C., to Century Lighting, Inc. Lighting control circuits. 2,798,984, 7-9-57, Cl. 315-179.
- Izenour, George C., to Century Lighting, Inc. Patching systems. 2,810,864, 10-22-57, Cl. 317-11.
- Izumi, Kichinojo. Apparatus for regulating the stabilization of motorcycle with side car. 2,793,051, 5-21-57, Cl. 280-203.
- J. C. L. Mfg. Corp., The: See—
 Jones, Von E., and Ludy. 2,782,943.
- JFD Mfg. Co., Inc.: See—
 Benson, Arne, Kellerman, and Kawaller. 2,815,501.
 Carpenter, Douglas H. 2,804,618.
 Finkel, Edward. 2,810,909.
- J & F Mfg. Co.: See—
 Goodwin, John B. 2,814,216.
- Jablansky, Louis. Multiple unit projectile. 2,804,823, 9-3-57, Cl. 102-49.
- Jablon, Theodore M. Slide mountings. 2,815,599, 12-10-57, Cl. 40-152.
- Jablon, Theodore M. Slide mountings. 2,816,381, 12-17-57, Cl. 40-152.
- Jabsco Pump Co.: See—
 Doble, Warren. 2,789,511.
 Doble, Warren, and Doerr. 2,782,723.
- Jack, Arthur C., to Bernuth Lembeke Co. Inc. Resilient railway spike. 2,818,218, 12-31-57, Cl. 238-366.
- Jack & Heintz, Inc.: See—
 Cohen, Leo. 2,784,935.
 Lee, Lyman S., and Ray. 2,797,783.
- Jack, William A., 3rd: See—
 Parkinson, John S., and Jack. 2,800,308.
- Jackes-Evans Mfg. Co.: See—
 Jackes, Stanley F., and Miller. 2,791,448.
- Jackes, Stanley F., and J. N. Miller, to Jackes-Evans Mfg. Co. Fixture for stove pipe and the like. 2,791,448, 5-7-57, Cl. 235-39.
- Jacket, Howard S.: See—
 Glantz, Lester M., and Jacket. 2,799,848.
- Jackle, Erwin K. Toy gliders. 2,784,524, 3-12-57, Cl. 46-81.
- Jacklin, Harold M. Opposed piston two cycle engine. 2,805,654, 9-10-57, Cl. 123-51.
- Jackman, Frederick H.: See—
 Gavin, Linus A., and Jackman. 2,783,092.
- Jacks, Basil, to American Bosch Airma Corp. Quadrature reduction circuit. 2,786,183, 3-19-57, Cl. 333-17.
- Jackson, Alex F.: See—
 O'Neil, Edgar A., and Jackson. 2,783,957.
- Jackson, Alex S. Poultry splitting machine. 2,811,742, 11-5-57, Cl. 17-11.
- Jackson, Alexis E.: See—
 Makaroff, Vadim S., and Jackson. 2,800,274.
- Jackson, Arthur W. Machine training device. 2,780,012, 2-5-57, Cl. 35-13.
- Jackson, Arthur W., to The Babcock & Wilcox Co. Separately fired superheaters. 2,806,454, 9-17-57, Cl. 122-485.
- Jackson, Bernard O. Electric controlled trolley. 2,804,712, 9-3-57, Cl. 43-26.1.
- Jackson, Carey B., R. M. Bovard, and J. R. Taylor, to Callery Chemical Co. Production of diborane. 2,796,328, 6-18-57, Cl. 23-204.
- Jackson, Carey B., and R. M. Bovard, to Callery Chemical Co. Production of diborane. 2,796,329, 6-18-57, Cl. 23-204.
- Jackson, Corwill, to Jackson Vibrators, Inc. Tie tamping or ballasting machine. 2,795,198, 6-11-57, Cl. 104-12.
- Jackson, Donald M., to Chiksan Co. Apparatus for handling fluid. 2,781,055, 2-12-57, Cl. 137-580.
- Jackson, Donald M., to Chiksan Co. Sealing ring for swivel. 2,789,847, 4-23-57, Cl. 288-1.
- Jackson, Donald M., to Chiksan Co. Swivel joint seal with pressure actuated seal. 2,813,729, 11-19-57, Cl. 285-95.
- Jackson, Donald M., to Chiksan Co. Dynamic seal. 2,815,973, 12-10-57, Cl. 288-5.
- Jackson, Donald R.: See—
 Shepherd, Herbert J. 2,784,268.
- Jackson, Edmond D.: See—
 Thornhill, Jay W., and Jackson. 2,780,757.
- Jackson, Edwin T., to Jackstite, Inc. Adjustable door casing. Re. 24,285, 8-12-57, Cl. 20-11.
- Jackson, Ernest E.: See—
 Wright, George W., Clymer, and Jackson. 2,812,111.
- Jackson, George J., to Walworth Co. Mechanism for removing excess material from shell molds. 2,806,265, 9-17-57, Cl. 22-95.7.
- Jackson, George W., to General Motors Corp. Load controlled valve assembly for vehicle air spring. 2,787,475, 4-2-57, Cl. 280-124.
- Jackson, George W., to General Motors Corp. Hydro-pneumatic suspension unit. 2,802,664, 8-13-57, Cl. 267-64.
- Jackson, George W., to General Motors Corp. Roll control system for a motor vehicle. 2,802,674, 8-13-57, Cl. 280-112.
- Jackson, George W., to General Motors Corp. Vehicle refrigerating apparatus. 2,807,146, 9-24-57, Cl. 62-4.
- Jackson, George W. Portable bar or buffet. 2,808,305, 10-1-57, Cl. 312-140.2.
- Jackson, George W., to General Motors Corp. Vehicle suspension having fluid pressure height control. 2,809,051, 10-8-57, Cl. 280-124.
- Jackson, Glen. Thermo switch. 2,783,329, 2-26-57, Cl. 200-115.5.
- Jackson, Glen C. Automobile heating system. 2,801,802, 8-6-57, Cl. 237-8.
- Jackson, Harley T. Collapsible crib. 2,780,817, 2-12-57, Cl. 5-99.
- Jackson, Harold L., to E. I. du Pont de Nemours and Co. Polymeric blends of a water-insoluble, water-dispersible, non-electrolyte film-forming polymer and a water-soluble, anionic polyelectrolyte epoxy polymer and preparation of Nemours & Co. Polymers. 2,794,015, 5-28-57, Cl. 260-45.5.
- Jackson, Harold L., and W. K. Wilkinson, to E. I. du Pont de Nemours & Co. Polymers. 2,794,015, 5-28-57, Cl. 260-79.3.
- Jackson, Harry E., to The Consolidated Mining and Smelting Co. of Canada Ltd. Process for the production of melamine from melamine sulphate. 2,816,891, 12-17-57, Cl. 260-249.7.
- Jackson, Henry C. Fishing sinker. 2,813,367, 11-19-57, Cl. 43-44.96.
- Jackson, Howard C., Jr., to Armour and Co. Processing of Cheddar cheese. 2,813,028, 11-12-57, Cl. 99-115.
- Jackson Hydraulic Machine Co. Inc.: See—
 Jackson, Paul S. 2,808,736.
- Jackson, James A., to Westinghouse Electric Corp. Rectifier assembly. 2,788,474, 4-9-57, Cl. 317-234.
- Jackson, James A., and W. L. Jackson. Balloon. 2,792,669, 5-21-57, Cl. 46-90.
- Jackson, James O., to Pittsburgh-Des Moines Steel Co. Temperature conditioning portions of a metal shape. 2,809,265, 10-8-57, Cl. 219-19.
- Jackson, John, to American Machine & Foundry Co. Article lifting device. 2,798,757, 7-9-57, Cl. 294-64.
- Jackson, John G., to Well Completions, Inc. Apparatus for and method of earth bore drilling. 2,776,816, 1-8-57, Cl. 255-1.8.

- Jackson, John H., to The C. O. Jelliff Mfg. Corp. Heat treatment of resistor alloys. 2,782,137, 2-19-57, Cl. 148—21.9.
- Jackson, John H., to American Machine & Foundry Co. Thread positioning means for button sewing machines. 2,802,436, 8-13-57, Cl. 112—110.
- Jackson, John H., and J. F. Kavanaugh, to The C. O. Jelliff Mfg. Corp. Resistor alloy. 2,817,586, 12-24-57, Cl. 75—171.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Process for improving lightfastness of lead chromate. 2,808,339, 10-1-57, Cl. 106—298.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Modified iron oxide pigments. 2,818,348, 12-31-57, Cl. 106—304.
- Jackson, Leonard D.: *See—*
Frieder, Leonard P., and Jackson. 2,813,669.
- Jackson, Leonard D., to the United States of America as represented by the Secretary of the Navy. Pyrotechnic composition. 2,796,339, 6-18-57, Cl. 52—23.
- Jackson, Leonard D. Adapter for a bomb. 2,800,080, 7-23-57, Cl. 102—70.
- Jackson Lumber Harvester Co., Inc.: *See—*
Hallock, Hiram Y. 2,810,411.
- Jackson, Marion H.: *See—*
Vacanti, Charles J., and Jackson. 2,782,317.
- Jackson, Melvin F., to J. I. Case Co. Multiple fluid pump and motor drive system for tractors. 2,791,284, 5-7-57, Cl. 180—6.48.
- Jackson, Nolan D., to Wichita Precision Tool Co., Inc. Steam-air garment finisher. 2,805,009, 9-3-57, Cl. 223—67.
- Jackson, Paul S., to Jackson Hydraulic Machine Co., Inc. Counterbalancing means for punch press. 2,808,736, 10-8-57, Cl. 74—604.
- Jackson, Ralph B., and D. H. Kelly, to Allied Chemical & Dye Corp. Production of anhydrous fluoritanates. 2,816,816, 12-17-57, Cl. 23—51.
- Jackson, Robert A. F. Electric heaters. 2,817,740, 12-24-57, Cl. 219—19.
- Jackson, Robert B. Baby playpen. 2,809,382, 10-15-57, Cl. 5—99.
- Jackson, Robert C., to Beaver Tool and Engineering Corp. Eccentric boring head. 2,780,467, 2-5-57, Cl. 279—6.
- Jackson, Robert D.: *See—*
Buc, Saul R., Randall, Smith, and Jackson. 2,783,244.
- Jackson, Robert F.: *See—*
Fenning, Frederick W., and Jackson. 2,807,580.
- Jackson, Robert J., to Bigelow-Sanford Carpet Co., Inc. Methods of weaving carpets and rugs. 2,777,468, 1-15-57, Cl. 139—39.
- Jackson, Robert L., Jr., to American Air Filter Co., Inc. Condensed filamentous mat and method and apparatus for making same. 2,798,331, 7-9-57, Cl. 154—1.7.
- Jackson, Robert W., and J. A. Hogg, to The Upjohn Co. Steroids. 2,799,688, 7-16-57, Cl. 260—397.1.
- Jackson, Rupert F. Shoe fastening attachment. 2,787,038, 4-2-57, Cl. 24—69.
- Jackson, Samuel R., and M. C. Margolin, to Raytheon Mfg. Co. Crater eliminators. 2,817,750, 12-24-57, Cl. 219—131.
- Jackson, Squire R.: *See—*
Clarke, John S., and Jackson. 2,780,061.
- Jackson, Squire R., to J. Lucas (Industries) Ltd. Air-jacketted combustion chambers for jet propulsion engines, gas turbines and the like. 2,807,139, 9-24-57, Cl. 60—39.65.
- Jackson, Squire R., to J. Lucas (Industries) Ltd. Liquid fuel combustion chambers for jet-propulsion engines, gas turbines, or other purposes. 2,807,316, 9-24-57, Cl. 158—4.
- Jackson, Stacy L., to W. R. Grace & Co. Safety guard. 2,775,905, 1-1-57, Cl. 74—609.
- Jackson, Stuart P., and C. E. Bacon, to General Electric Co. Rectifier unit. 2,815,472, 12-3-57, Cl. 317—234.
- Jackson, Thomas M., to International Standard Electric Corp. Electric discharge devices. 2,780,747, 2-5-57, Cl. 313—188.
- Jackson, Thomas M., and A. D. Odell, to International Standard Electric Corp. Electrical circuits using multi-gap cold cathode gas filled tubes. 2,810,861, 10-22-57, Cl. 315—84.6.
- Jackson, Thomas M., and E. A. F. Sell, to International Standard Electric Corp. Stepping circuit arrangement using trigger devices. 2,814,762, 11-26-57, Cl. 315—84.5.
- Jackson, Thomas W., to the United States of America as represented by the Secretary of the Navy. Turbine blade cooling structure. 2,780,435, 2-5-57, Cl. 253—39.15.
- Jackson, Truman A. Implement attaching means for tractors. 2,782,704, 2-26-57, Cl. 97—47.14.
- Jackson Vibrators, Inc.: *See—*
Jackson, Corwill. 2,795,198.
- Jackson, Walter L.: *See—*
Jackson, James A. and W. L. 2,792,669.
- Jackson, Walter R.: *See—*
Cyran, Eugene V., and Jackson. 2,804,849.
- Jackson, Warren, Jr., and W. E. Baker, to The Standard Oil Co. Wide range flow meter. 2,805,574, 9-10-57, Cl. 73—228.
- Jackson, Wilbur F.: *See—*
Arden, Thomas T., and Jackson. 2,806,652.
- Jackson, William K., $\frac{1}{2}$ to F. Spritz. Clearance indicating apparatus. 2,783,450, 2-26-57, Cl. 340—61.
- Jackson, William R. Multiple unit V-belt sheave. 2,779,202, 1-29-57, Cl. 74—230.3.
- Jackson, Winston J.: *See—*
Caldwell, John R., and Jackson. 2,790,825.
- Jackstite, Inc.: *See—*
Jackson, Edwin T. Re. 24,285.
- Jacob, Bradshaw. Beach lounge. 2,810,430, 10-22-57, Cl. 155—153.
- Jacob, Carlyle W. Printing methods and apparatus. 2,792,780, 5-21-57, Cl. 101—119.
- Jacob, Carlyle W. Method and apparatus for xerographic reproduction. 2,808,328, 10-1-57, Cl. 96—1.
- Jacob, Julius C., Sr. Self-service machine for dogs. 2,791,201, 5-7-57, Cl. 119—55.
- Jacob, Raymond: *See—*
Rabeux, Jean, and Jacob. 2,813,547.
- Jacob, Raymond, and B. Masson, to Societe d'Applications Generales d'Electricite & de Mecanique. Loom. 2,811,986, 11-5-57, Cl. 139—13.
- Jacob, Robert M., and J. G. Robert, to Societe des Usines Chimiques Rhone-Poulenc. Derivatives of phenanthiazine. 2,785,160, 3-12-57, Cl. 260—243.
- Jacob, Robert M., and L. Liakhoff, to Societe des Usines Chimiques Rhone-Poulenc. Isonicotinylhydrazide derivative. 2,792,401, 5-14-57, Cl. 260—295.
- Jacob, Robert M., J. G. Roberts, and L. Liakhoff, to Societe des Usines Chimiques Rhone-Poulenc. Improvements in or relating to bis-quinoline derivatives. 2,816,893, 12-17-57, Cl. 260—286.
- Jacobaeus, Anton C., and A. Berge, to Telefonaktiebolaget L M Ericsson. Selecting means with gas discharge valve. 2,777,015, 1-8-57, Cl. 179—22.
- Jacobi, Anthony P., to Industrial Lithographic Co., Inc. Combination label and hosiery protector and package. 2,816,653, 12-17-57, Cl. 206—46.
- Jacobi, Edward N., to Briggs & Stratton Corp. Electric switch. 2,778,891, 1-22-57, Cl. 200—11.
- Jacobi, Edward N., to Briggs & Stratton Corp. Switch terminal head having insulative terminal separators. 2,778,904, 1-22-57, Cl. 200—168.
- Jacobi, Edward N., to Briggs & Stratton Corp. Side bar lock with lever tumblers. 2,808,717, 10-8-57, Cl. 70—366.
- Jacobi, Hans-Rudolf, and H. Beck, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Endless screw conveyors. 2,788,196, 4-9-57, Cl. 259—6.
- Jacobi, Oskar, and O. Muller, to Gutehoffnungshutte Oberhausen Aktiengesellschaft. Roof supporting means or cap and a method of positioning the same. 2,780,067, 2-5-57, Cl. 61—45.
- Jacobi, William J., and B. Cork, to the United States of America as represented by the Secretary of the Navy. Radio system for relaying information signals. 2,803,006, 8-13-57, Cl. 343—6.
- Jacobs, Albert J.: *See—*
Jacobs, Emile J. and A. J. 2,815,809.
- Jacobs, Carlton L. Electrical beacon equipment. 2,797,342, 6-25-57, Cl. 307—132.
- Jacobs, David I. H.: *See—*
Hadley, David J., Hall, and Jacobs. 2,810,763.
Hall, Reginald H., and Jacobs. 2,800,513.
- Jacobs, David I. H., to Hercules Powder Co. Catalyst reactivation in process for production of resorcinols. 2,784,238, 3-5-57, Cl. 260—621.
- Jacobs, David I. H., to Hercules Powder Co. Recovery of phenols. 2,785,205, 3-12-57, Cl. 260—621.
- Jacobs, David I. H., to The Distillers Co. Ltd. Froth flotation process. 2,803,345, 8-20-57, Cl. 209—166.
- Jacobs, David I. H., and B. H. M. Thompson, to Hercules Powder Co. Production of phenols and alkanooates thereof. 2,801,262, 7-30-57, Cl. 260—479.
- Jacobs, Donald H. Devices for igniting explosive charges inside closed structures. 2,800,079, 7-23-57, Cl. 102—65.4.
- Jacobs, Donald H. Magnetic storage device and storage units. 2,809,783, 10-15-57, Cl. 235—61.
- Jacobs, Edward: *See—*
Biondoliello, Anthony S., and Jacobs. 2,804,245.
- Jacobs, Emile J. and A. J. to A. J. Jacobs. Swimming pool cover. 2,815,809, 12-10-57, Cl. 160—368.
- Jacobs, F. L. Co.: *See—*
Liszak, Eugene J. 2,795,844.
Miles, Charles C. 2,806,690.
- Jacobs, Gilbert C., to Everbrite Electric Signs, Inc. Illuminated display sign for windows. 2,782,540, 2-26-57, Cl. 40—132.
- Jacobs, Harold: *See—*
Dobischek, Dietrich, Freely, and Jacobs. 2,802,127.
- Jacobs, Harold, J. R. Leibowitz, and A. P. Ramsa, to the United States of America as represented by the Secretary of the Army. Formation of junctions in semi-conductors. 2,803,569, 8-20-57, Cl. 143—1.5.
- Jacobs, Heinz, to Industrie-Compagnie. Metallic heat exchanger for high temperature gases. 2,806,677, 9-17-57, Cl. 257—246.
- Jacobs, Henry S., and M. W. Tietze, to Harnischfeger Corp. Electrical-induction torque transmitter. 2,776,386, 1-1-57, Cl. 310—93.
- Jacobs, James H., M. C. Carosella, and J. B. Culbertson, to Union Carbide Corp. Electrolytic manganese. 2,805,195, 9-3-57, Cl. 204—105.
- Jacobs, James W.: *See—*
Kesling, Keith K., and Jacobs. 2,808,497.
- Jacobs, James W., to General Motors Corp. Vehicle refrigerating apparatus. 2,779,163, 1-29-57, Cl. 62—4.

- Jacobs, James W., to General Motors Corp. Vehicle refrigerating apparatus. 2,780,077, 2-5-57, Cl. 62—117.1.
- Jacobs, James W., to General Motors Corp. Automobile cooling. 2,781,642, 2-19-57, Cl. 62—4.
- Jacobs, James W., to General Motors Corp. Vehicle refrigerating apparatus. 2,806,358, 9-17-57, Cl. 62—117.1.
- Jacobs, James W., to General Motors Corp. Vehicle refrigerating apparatus. 2,807,147, 9-24-57, Cl. 62—4.
- Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 2,807,148, 9-24-57, Cl. 62—4.
- Jacobs, James W., to General Motors Corp. Variable speed transmission. 2,807,172, 9-24-57, Cl. 74—336.5.
- Jacobs, James W., to General Motors Corp. Engine fan control. 2,807,246, 9-24-57, Cl. 123—41.12.
- Jacobs, James W., to General Motors Corp. Clutch for refrigerating apparatus. 2,807,344, 9-24-57, Cl. 192—70.
- Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 2,812,642, 11-12-57, Cl. 62—4.
- Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 2,817,123, 12-24-57, Cl. 20—4.
- Jacobs, James W., and R. E. Gould, to General Motors Corp. Refrigerating apparatus. 2,779,168, 1-29-57, Cl. 62—116.
- Jacobs, Jerome E., and E. St. John, to Hughes Aircraft Co. Time discriminator. 2,814,725, 11-26-57, Cl. 250—27.
- Jacobs, John B. Implement for applying an umbilical cord seal and identifying newly born babies. 2,813,269, 11-19-57, Cl. 1—200.
- Jacobs, John E., and H. Berger, to General Electric Co. Penetrating ray transducer. 2,809,323, 10-8-57, Cl. 315—10.
- Jacobs, John W. Adjustable multi-blade dado cutter. 2,788,812, 4-16-57, Cl. 144—237.
- Jacobs, Joseph J., to Allis-Chalmers Mfg. Co. Dynamic seal for a centrifugal pump. 2,781,209, 2-12-57, Cl. 286—9.
- Jacobs Mfg. Co., The: See—
- Stoner, Arthur M., and Haviland. 2,816,768.
- Jacobs, Nina M. Garment storage compartment for refrigerators. 2,782,607, 2-26-57, Cl. 62—102.
- Jacobs, Paul G. Golf cart. 2,806,711, 9-17-57, Cl. 280—47.19.
- Jacobs, Philip C., Jr.: See—
- Swain, Kenneth W., Kozacka, and Jacobs. 2,800,556.
- Jacobs, Philip C., Jr., to The Chase-Shawmut Co. Fuse with minimized P.E. losses. 2,794,097, 5-28-57, Cl. 200—120.
- Jacobs, Philip C., Jr., to The Chase-Shawmut Co. Fuses with casing of synthetic-resin-glass-cloth-laminates. 2,794,098, 5-28-57, Cl. 200—131.
- Jacobs, Philip C., Jr., to The Chase-Shawmut Co. High voltage fuses. 2,808,487, 10-1-57, Cl. 200—120.
- Jacobs, Robert B., to Standard Oil Co. Continuous light ends recorder. 2,811,851, 11-5-57, Cl. 73—53.
- Jacobs, Robert B., and C. E. Williams, to Standard Oil Co. Continuous volatility determination. 2,782,628, 2-26-57, Cl. 73—53.
- Jacobs, Robert B., and E. C. Greanias, to Standard Oil Co. Beta ray hydrogen density indicator. 2,817,764, 12-24-57, Cl. 250—43.5.
- Jacobs, Theodore L. Nut-cracker. 2,799,310, 7-16-57, Cl. 146—14.
- Jacobs, William, and J. S. Darling. Container with rotary closure. 2,805,801, 9-10-57, Cl. 222—545.
- Jacobsen, Bent B., and D. L. Thomas, to International Standard Electric Corp. Radio antennae. 2,785,398, 3-12-57, Cl. 343—781.
- Jacobsen, Erik S. A., to Merck & Co., Inc. Tranquilizing composition comprising alkyl aminoethylesters of benzoic acid and salts thereof. 2,784,141, 3-5-57, Cl. 167—65.
- Jacobsen, Hans: See—
- Petersen, Karl, and Jacobsen. 2,803,583.
- Jacobsen, Henry J. Combination minnow trap and bucket. 2,787,081, 4-2-57, Cl. 43—56.
- Jacobsen, Jac., A/S: See—
- Jacobsen, Jacob. 2,787,434.
- Jacobsen, Jacob, to Jac. Jacobsen A/S. Equiposed lamp structure. 2,787,434, 4-2-57, Cl. 248—280.
- Jacobsen, Lance R., to Hoffman Electronics Corp. Carrier frequency rejection amplifiers or the like. 2,796,471, 6-18-57, Cl. 179—171.
- Jacobsen Mfg. Co.: See—
- Longenecker, Ernst A., and Hanson. 2,796,143.
- Strasel, Raymond K. 2,787,107.
- Jacobsen, Paul W., to H. G. Weber and Co., Inc. Feeding and takeoff mechanism. 2,787,467, 4-2-57, Cl. 271—4.
- Jacobsen, Robert P., to G. D. Searle & Co. 6-bromo-1,2,3,4,4a,9,10,10a-octahydro-7-isopropyl-4a-methylphenanthrene ketones. 2,781,400, 2-12-57, Cl. 260—586.
- Jacobsen, Robert P., to G. D. Searle & Co. 1,2,3,4,4a,9,10,10a-octahydro-7-isopropyl-4a-methyl-1,9-dioxophenanthrenes. 2,781,401, 2-12-57, Cl. 260—586.
- Jacobson, Abner: See—
- Spencer, Arthur M., and Jacobson. 2,794,738.
- Jacobson, Abraham W., and F. L. Maltby, to The Bristol Co. Precise measurement means for electrical networks. 2,810,106, 10-15-57, Cl. 323—66.
- Jacobson, Albert S.: See—
- Shepard, Alvin F., Cardone, and Jacobson. 2,797,204.
- Shepard, Alvin F., Cardone, and Jacobson. 2,813,843.
- Jacobson, Donald A., to Granco, Inc. Gas fueled radiant heater. Re. 24,405, 12-17-57, Cl. 158—113.
- Jacobson, Edwin B., to Jervis Corp. Latch mechanism. 2,802,684, 8-13-57, Cl. 292—332.
- Jacobson, Eugene W.: See—
- Eckler, Norman H., Jacobson, and Wedner. 2,779,485.
- Jacobson, Eugene W., and B. M. Wedner, to Gulf Research & Development Co. Traction link for marsh buggy wheels. 2,791,257, 5-7-57, Cl. 152—244.
- Jacobson, Eugene W., and B. M. Wedner, to Gulf Research & Development Co. Drive chain adjuster for amphibious vehicles. 2,800,972, 7-30-57, Cl. 180—72.
- Jacobson, Franz. Rotary joint with means to compensate for wear of the seal. 2,793,058, 5-21-57, Cl. 285—15.
- Jacobson, Harry S. Shirt construction. 2,798,225, 7-9-57, Cl. 2—115.
- Jacobson, Harvey B.: See—
- Brandon, Clarence W. 2,796,129.
- Jacobson, Henning W., to E. I. du Pont de Nemours and Co. Process of preparing waterproof films, fabrics, filaments and yarns of regenerated cellulose containing within a waterproof addition polymer and products produced therefrom. 2,784,052, 3-5-57, Cl. 8—130.
- Jacobson, Herbert P.: See—
- Brandt, William C., Couillard, Jacobson, Martin, and Perkins. 2,808,564.
- Jacobson, John W.: See—
- Binford, Robert S., and Jacobson. 2,781,049.
- Jacobson, John W., to General Electric Co. Control system for gas turbine powerplant including temperature scheduling control. 2,815,644, 12-10-57, Cl. 60—35.6.
- Jacobson, John W., to General Electric Co. Liquid flow delivery system. 2,815,714, 12-10-57, Cl. 103—42.
- Jacobson, John W., and R. S. Binford, to General Electric Co. Liquid flow control apparatus. 2,796,879, 6-25-57, Cl. 137—87.
- Jacobson, Max, and F. R. Greenbaum. Soluble cortisone and hydrocortisone compositions. 2,779,707, 1-29-57, Cl. 187—77.
- Jacobson, Moses G., F. J. De Luca, and A. C. McInnes, to Mine Safety Appliances Co. Gas detection. 2,795,756, 6-11-57, Cl. 324—30.
- Jacobson, Paul W.: See—
- Weber, Herbert H., and Jacobson. 2,815,210.
- Jacobson, Samuel, and S. Shapiro. Means to support a channel-shaped head rail of a Venetian blind. 2,787,322, 4-2-57, Cl. 160—181.
- Jacobus', A. G., Sons, Inc.: See—
- Schueler, Henry A. 2,794,199.
- Schueler, Henry A. 2,794,202.
- Jacobus, Louis, to Ullman Products Corp. Device for inspecting rifle barrels or the like. 2,793,561, 5-28-57, Cl. 88—14.
- Jacobus, Louis, to Ullman Products Corp. Hair dryer hood. 2,810,967, 10-29-57, Cl. 34—87.
- Jacobus, Robin A., and F. N. Youngblood. Staple driving tools. 2,786,450, 3-26-57, Cl. 121—21.
- Jacoby-Bender, Inc.: See—
- Rodriguez, Emil. 2,807,855.
- Jacoby, David M., to Evergard Fire Alarm Co. Inc. Fire alarm. 2,778,330, 1-22-57, Cl. 116—106.
- Jacoby, George W. Fluid transfer apparatus. 2,816,545, 12-17-57, Cl. 128—214.
- Jacoby, Harry D., to Irrigation Equipment Co., Inc. Irrigation-type pipe coupling with pivoted latch interlock. 2,810,591, 10-22-57, Cl. 285—6.
- Jacoby, Meyer. Toupee construction. 2,789,567, 4-23-57, Cl. 132—53.
- Jacolev, Leon, and L. P. Gaucher, to The Texas Co. Conversion of hydrocarbonaceous material into synthesis gas. Re. 24,328, 6-11-57, Cl. 48—196.
- Jacomaro, Frank. Paper roll dispenser. 2,794,604, 6-4-57, Cl. 242—55.3.
- Jacomini, Gabriel J.: See—
- Magalik, Alexander E., and Jacomini. 2,782,671.
- Magalik, Alexander E., and Jacomini. 2,787,928.
- Jacquard, Wildman Co.: See—
- Wiesinger, Frederick C. 2,814,937.
- Jacquart, Herman, to Jones & Laughlin Steel Corp. Slab marking apparatus. 2,813,014, 12-31-57, Cl. 101—4.
- Jacquart, Lionel B. Front wheel suspension for two-wheeled vehicle. 2,792,236, 5-14-57, Cl. 280—276.
- Jacques, Gerard. Combined stopper and tea leaf container. 2,788,733, 4-16-57, Cl. 99—323.
- Jacquet, Camille, to Société à responsabilité limitée: "Etablissements Giroud Freres, les Successeurs de Hugues Giroud & Cie." Machines for the manufacture of pile articles. 2,792,051, 5-14-57, Cl. 154—1.1.
- Jacuzzi Bros., Inc.: See—
- Armstrong, John E. 2,798,435.
- Jados, Walter T., to Westinghouse Air Brake Co. Locomotive brake apparatus. 2,789,020, 4-16-57, Cl. 303—70.
- Jaackle, Albert E. Grain strip and side sill reinforcement. 2,813,497, 11-19-57, Cl. 105—424.
- Jaeger, Alphons O., and S. F. Williams, to American Cyanamid Co. Method and apparatus for oxidizing volatilizable organic materials. 2,783,249, 2-26-57, Cl. 260—346.4.
- Jaeger, Gustav, to W. Ferd Klingenberg Sohne. Gear testing apparatus. 2,802,277, 8-13-57, Cl. 33—179.5.
- Jaeger, Leon W. Roof structure. 2,799,232, 7-16-57, Cl. 108—13.
- Jaeger Machine Co.: See—
- Lamberton, Ralph E. 2,789,755.
- Jaeger, William A. Adjustable scaffold. 2,806,747, 9-17-57, Cl. 304—29.

- Jachne, Chester P. Painting device. 2,798,240, 7-9-57, Cl. 15-131.05.
- Jaeschke, Harold R., to Waldorf Paper Products Co. Handled cartons. 2,797,856, 7-2-57, Cl. 229-52.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Rotary machine and method for the manufacture of shell molds. 2,786,246, 3-26-57, Cl. 22-9.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Motor-drive coupling unit. 2,817,029, 12-17-57, Cl. 310-96.
- Jaffe, Bernard M.: *See*—
- Keiser, Morris, Daniels, and Jaffe. 2,800,831.
- Jaffe, David L., to Polaroid Electronics Corp. High frequency attenuator. 2,787,706, 4-2-57, Cl. 250-20.
- Jaffe, David L., to the United States of America as represented by the Secretary of the Army. Voltage regulator with remote control. 2,808,560, 10-1-57, Cl. 323-22.
- Jaffe, David L., to Polaroid Electronics Corp. Vehicle guiding system. 2,818,553, 12-31-57, Cl. 340-52.
- Jaffe, David L., and R. M. Spiegel, to the United States of America as represented by the Secretary of the Army. Oscillator. 2,801,341, 7-30-57, Cl. 250-36.
- Jaffe, David L., and L. A. Ross, to Polaroid Electronics Corp. Light-actuated switching device. 2,818,529, 12-31-57, Cl. 315-83.
- Jaffe, Isadore, to Traveler Products, Inc. Wall supported shoe stretcher and support. 2,798,236, 7-9-57, Cl. 12-53.7.
- Jaffe, Joseph L., to The PerfecLite Co. Lighting fixture. 2,783,368, 2-26-57, Cl. 240-128.
- Jaffe, Joseph L., to The PerfecLite Co. Lighting fixture. 2,805,328, 9-3-57, Cl. 240-128.
- Jaffe, Mary S., to General Electric Co. Electric resistance device provided with zinc oxide electroconductive coating. 2,791,521, 5-7-57, Cl. 117-211.
- Jaffe, Sanford: *See*—
- Miller, Fred P., and Jaffe. 2,812,760.
- Jaffee, Robert I., H. R. Ogden, and D. J. Maykuth, to Rem-Cru Titanium, Inc. Ti-Sn-Al alloys with alpha, beta, and compound formers. 2,779,677, 1-29-57, Cl. 75-175.5.
- Jaffee, Robert I., H. R. Ogden, and R. A. Happe, to Rem-Cru Titanium, Inc. Titanium base alloys containing antimony. 2,796,347, 6-18-57, Cl. 75-175.5.
- Jaffee, Robert I., H. R. Ogden, and D. J. Maykuth, to Rem-Cru Titanium, Inc. Titanium base alloys. 2,797,996, 7-2-57, Cl. 75-175.5.
- Jaffee, Robert I., H. R. Ogden, and D. J. Maykuth, to Rem-Cru Titanium, Inc. Titanium alloy. 2,798,806, 7-9-57, Cl. 75-175.5.
- Jaffee, Robert I., and H. R. Ogden, to Rem-Cru Titanium, Inc. Titanium-aluminum-silver alloys. 2,810,642, 10-22-57, Cl. 75-175.5.
- Jagenberg-Werke Akt.-Ges.: *See*—
- Kuchler, Karl, and Behrendt. 2,814,240.
- Kusel, Ernst. 2,792,889.
- Kusel, Ernst. 2,801,810.
- Meyer-Jagenberg, Gunther, Drese, and Zerlin. 2,785,610.
- Meyer-Jagenberg, Gunther, and Zerlin. 2,801,040.
- Schneider, Max, and Kusel. 2,801,694.
- Stahr, Rudolf. 2,814,269.
- Weber, Rudi. 2,778,422.
- Zerlin, Hans, and Michaelis. 2,799,211.
- Jagiel, Zigmund J. Sectional scaffolding construction. 2,778,693, 1-22-57, Cl. 304-2.
- Jagiel, Zigmund J. Brace attaching means for scaffold frames. 2,811,395, 10-29-57, Cl. 304-40.
- Jagiel, Zigmund J. Brace rod securing means for scaffold frames or the like. 2,814,535, 11-26-57, Cl. 304-40.
- Jahn, Charles B., and V. B. Scott, said Scott assignor to said Jahn. Fluid separation process. 2,781,864, 2-19-57, Cl. 183-121.
- Jahn, Earl W., and A. C. Quist, to Production Pattern & Foundry Co. Apparatus for producing shell molds. 2,813,316, 11-19-57, Cl. 22-20.
- Jahn, Leroy B. Anti-siphoning valve. 2,802,481, 8-13-57, Cl. 137-218.
- Jahn, Paul: *See*—
- Jungmans, Helmut, and Jahn. 2,793,608.
- Jahn, Walter: *See*—
- Eismann, Helmut, Jahn, and Lange. 2,780,138.
- Jahn, William K., to Illinois Tool Works. Blind sheet metal drive fastener having laterally deformable prong means. 2,779,229, 1-29-57, Cl. 85-11.
- Jahnel, Edwin J., and E. Dumonte. Control mechanism for engine with pump take-off equipment. 2,800,858, 7-30-57, Cl. 103-16.
- Jahnig, Charles E.: *See*—
- Barr, Frank T., Brown, and Jahnig. 2,789,082.
- Brown, James W., and Jahnig. 2,793,987.
- Jahnig, Charles E., to Esso Research and Engineering Co. Fluid coking process with quenching of hydrocarbon vapors. 2,791,549, 5-7-57, Cl. 196-55.
- Jahnig, Charles E., W. A. Wurth, and H. Z. Martin, to Esso Research and Engineering Co. Heat treating fluid coke compactions. 2,776,935, 1-8-57, Cl. 202-14.
- Jahnig, Charles E., A. F. Kaulakis, and R. W. Winkler, to Esso Research and Engineering Co. Treating hydrocarbon oils. 2,789,696, 4-23-57, Cl. 210-80.
- Jahnke, Louis P., to General Electric Co. Cobalt base alloy. 2,816,024, 12-10-57, Cl. 75-171.
- Jahresuhren-Fabrik G. m. b. H., Aug. Schatz & Sohne: *See*—
- Heim, Alfred. 2,798,358.
- Jahrstorfer, Franz: *See*—
- Wüstemann, Gustav. 2,798,309.
- Jakaitis, Eugene A., to The Atlantic Refining Co. Wax coating composition. 2,808,382, 10-1-57, Cl. 260-28.5.
- Jakeway, Gerald V., to Keeler Brass Co. Latch actuating door handle assembly. 2,787,489, 4-2-57, Cl. 292-336.3.
- Jakeway, Gerald V., to Keeler Brass Co. Push button for door handles and the like. 2,789,853, 4-23-57, Cl. 292-336.3.
- Jakeway, Gerald V., to Keeler Brass Co. Push button door handle adapted for use on doors of automobiles, refrigerators and the like. 2,807,492, 9-24-57, Cl. 292-336.3.
- Jakeway, Gerald V., to Keeler Brass Co. Push button door handle. 2,812,205, 11-5-57, Cl. 292-336.3.
- Jakielski, Chester E., to Bell Telephone Laboratories, Inc. Cross coupling for astable circuits. 2,810,831, 10-22-57, Cl. 250-36.
- Jakimiuk, Wsiewolod J.: *See*—
- Hereil, Georges J. B. V., and Jakimiuk. 2,779,558.
- Jakimiuk, Wsiewolod J., and G. J. B. V. Hereil, to Societe Nationale de Constructions Aeronautiques du Sud-Est. Aircraft launching carriage. 2,779,557, 1-29-57, Cl. 244-63.
- Jakobsen, Gert B. Toy building elements. 2,810,233, 10-22-57, Cl. 46-28.
- Jakobsen, Jakob L.: *See*—
- Terry, David E., and Jakobsen. 2,784,232.
- Jakosky, John J., 40% to International Geophysics, Inc., and 60% to Signal Oil and Gas Co. Apparatus for seismically exploring geological formations under water. 2,780,301, 2-5-57, Cl. 181-5.
- Jakosky, John J., 40% to International Geophysics, Inc., and 60% to Signal Oil and Gas Co. Method of geophysical exploration. 2,782,865, 2-26-57, Cl. 181-5.
- Jaksch, Matthias F. Cigarette and filter therefor. 2,808,057, 10-1-57, Cl. 131-10.
- Jakubiak, George. Feeler thread gauge. 2,817,153, 12-24-57, Cl. 33-199.
- Jakubowski, Richard S., to Jarke Mfg. Co. Modular stacking unit. 2,801,752, 8-6-57, Cl. 211-49.
- Jakus, Lyle A.: *See*—
- Gamble, Gordon L., and Jakus. 2,782,341.
- Jalbert, Adrien L., 50% to E. J. Jalbert. Adhesive applying apparatus. 2,800,873, 7-30-57, Cl. 118-227.
- Jalbert, Emile J.: *See*—
- Jalbert, Adrien L. 2,800,873.
- Jalbert, Joseph. Drag link ball joint. 2,813,735, 11-19-57, Cl. 287-90.
- Jalkanen, Matti J., to Rauma-Repoli Oy. Screen unit for treating solid matter of a suspension. 2,802,572, 8-13-57, Cl. 210-82.
- Jaloseal, Inc.: *See*—
- Petroneello, Peter D., and France. 2,805,453.
- James, Bill Y. Package bow guard. 2,780,403, 2-5-57, Cl. 229-87.
- James, Bill Y. Decorative center for package bows. 2,806,313, 9-17-57, Cl. 41-10.
- James, Charles C. Sewing machine head-lifting mechanism. 2,790,690, 4-30-57, Cl. 312-30.
- James, David M. Manufacture of built-up wood panel. 2,793,673, 5-28-57, Cl. 154-1.
- James, Eric B.: *See*—
- Downing, Robert E., and James. 2,789,404.
- Downing, Robert E., and James. 2,803,098.
- James, Ernest A., to Chrysler Corp. Seat structures and upholstery units therefor. 2,797,735, 7-2-57, Cl. 155-53.
- James, Frank. Safety apparatus. 2,797,853, 7-2-57, Cl. 227-43.
- James, Henry C., Jr. Clocks. 2,806,910, 9-17-57, Cl. 200-38.
- James, Howell N., to International Harvester Co. Rod holding device. 2,806,385, 9-17-57, Cl. 74-531.
- James, John A., to The British Thomson-Houston Co. Ltd. Magnetic materials. 2,792,340, 5-14-57, Cl. 204-12.
- James, Kenneth E., to United Concrete Pipe Corp. Double wrapped prestressed concrete pipe. 2,808,851, 10-8-57, Cl. 138-66.
- James, Kenneth E., and A. Dahlstrum, to United Concrete Pipe Corp. Machine for welding reinforcements for concrete pipes and the like. 2,809,270, 10-8-57, Cl. 219-56.
- James Mfg. Co.: *See*—
- Hazen, Gretzolon L. 2,795,313.
- James, Raymond W.: *See*—
- Smith, Walter J., and James. 2,797,163.
- James, Richard D., G. E. Oppel, and D. L. Dennis, to Northrop Aircraft, Inc. Calibration apparatus for threaded parts. 2,806,293, 9-17-57, Cl. 33-199.
- James, Richard D., and F. L. Prendergast, to Northrop Aircraft, Inc. Reversible incremental mechanism. 2,810,302, 10-22-57, Cl. 74-565.
- James, Sampson G.: *See*—
- Williams, Donald., and James. 2,795,250.
- James, Thomas R.: *See*—
- Harpole, Murray J., and James. 2,816,256.
- James, William. Venetian blind slat attachment. 2,804,922, 9-3-57, Cl. 160-173.
- James, William J., to Sonelco. Foldable table and wall support therefor. 2,811,400, 10-29-57, Cl. 311-16.5.
- Jamieson, John and W. F. Explosive powered hammering apparatus. 2,778,098, 1-22-57, Cl. 29-254.

- Jamieson, John R., to Minneapolis-Honeywell Regulator Co. Diaphragm valve controller. 2,788,190, 4-9-57, Cl. 251-11.
- Jamieson, John W.: See—
Dingman, Thomas C., and Jamieson. 2,815,239.
- Jamieson, William F.: See—
Jamieson, John and W. F. 2,778,098.
- Jamison, Martha B., and V. W. Pine. Receptacle. 2,817,569, 12-24-57, Cl. 312-293.
- Jamison, Thomas E., Jr., 3½% to W. T. Jones, 3½% to R. L. Harding, 7% to T. E. Jamison, Sr., 7% to M. Sampson, 7% to G. Love, and 3% to C. F. Koehne, Jr. Drill stem supporter and stabilizer. 2,783,028, 2-26-57, Cl. 255-28.
- Jamison, Thomas E., Sr.: See—
Jamison, Thomas E., Jr. 2,783,028.
- Janaushek, George F., to International Business Machines Corp. Card punching machine. 2,789,643, 4-23-57, Cl. 164-115.
- Janczyszyn, Roman. Vehicle bed. 2,796,111, 6-18-57, Cl. 155-7.
- Jandasek, Joseph, to Chrysler Corp. Axial thrust balanced fluid power transmitter. 2,801,521, 8-6-57, Cl. 60-54.
- Jandasek, Vladimir J., to Ford Motor Co. Hydraulic torque converter. 2,793,726, 5-28-57, Cl. 192-3.2.
- Jandasek, Vladimir J., to Ford Motor Co. Hydraulic torque converter. 2,796,736, 6-25-57, Cl. 60-54.
- Jandor Inc.: See—
Johnson, Edwin H. 2,779,383.
- Janes, Joseph. Pin-setting machine. 2,791,426, 5-7-57, Cl. 273-43.
- Janes, Richard B., and C. W. Sanders, to Hupp Corp. Cooking stove illuminator. 2,806,936, 9-17-57, Cl. 240-2.
- Janes, Robert B.: See—
Rotow, Alexander A., and Janes. 2,792,514.
- Janeway, Robert N., to Chrysler Corp. Free play stabilizer mounting. 2,792,216, 5-14-57, Cl. 267-11.
- Janik, Anton J.: See—
Ingwer, Carl H., and Janik. 2,778,652.
- Janis, Peter, to Sylvania Electric Products Inc. Reflex klystrons. 2,789,249, 4-16-57, Cl. 315-5.18.
- Janise, Fabus. Submarine periscope seal. 2,791,194, 5-7-57, Cl. 114-16.
- Jank, Richard R., Jr.: See—
Pierson, Paul R., Rugg, and Jank. 2,813,178.
- Jankauskas, George P., to W. A. Dubovick, J. P. and P. A. Kozak. Anti-skid braking system for automotive vehicles. 2,807,338, 9-24-57, Cl. 188-195.
- Janke, Edward J.: See—
Mitchell, Lester F., and Janke. 2,791,177.
- Janke, Edward J., to Addressograph-Multigraph Corp. Duplicating apparatus. 2,813,716, 11-19-57, Cl. 271-26.
- Janke, Edward J., and D. B. Brewster, to Addressograph-Multigraph Corp. Material applicator for rotary printing or duplicating machines. 2,798,426, 7-9-57, Cl. 101-147.
- Jannette, Lawrence J. Tumbler lock. 2,790,318, 4-30-57, Cl. 70-364.
- Janney, Thomas T., and J. E. Smith, to James Lees and Sons Co. Industrial apparatus and method. 2,804,835, 9-3-57, Cl. 112-79.
- Janney, Thomas T., and R. B. Patterson, to J. Lees and Sons Co. Apparatus for weaving pile fabrics. 2,807,283, 9-24-57, Cl. 139-59.
- Janome Sangyo K. K.: See—
Eguchi, Yasukata. 2,783,725.
- Janos, Alfred G., to General Electric Co. Cabinet closure and sealing arrangement. 2,807,841, 10-1-57, Cl. 20-69.
- Janos, Alfred G., to General Electric Co. Magnetic latch. 2,813,741, 11-19-57, Cl. 292-251.5.
- Janot, Maurice-Marie, and R. Goutarel, to Les Laboratoires Gobey. Derivatives of the ibogaine alkaloids. 2,813,873, 11-19-57, Cl. 260-293.4.
- Jansen, Clarence E.: See—
Savich, Alfred L., and Jansen. 2,798,812.
- Jansen, Erich: See—
Muckter, Heinrich, and Jansen. 2,776,279.
- Jansen, Jacob E., and M. E. Roha, to The B. F. Goodrich Co. Preparation of aliphatic nitriles. 2,794,043, 5-28-57, Cl. 260-465.2.
- Jansen, Jan C., to Trifax N. V. Chemisch-Pharmaceutische en Extractiebedrijven. Method for producing seamless filled capsules. 2,799,897, 7-23-57, Cl. 18-55.
- Jansen, Johannes, to Bochumer Verein Feuer Gusstahlfabrikation Aktiengesellschaft. Centrifugal casting molds, etc. 2,806,267, 9-17-57, Cl. 22-113.5.
- Jansen, Richard L. Fluid pump or motor. 2,811,927, 11-5-57, Cl. 103-129.
- Jansen, Robert A., to Arco Mfg. Corp. Refrigerator drip tray and support. 2,799,145, 7-16-57, Cl. 62-103.
- Jansen, Robert A., to Arco Mfg. Corp. Refrigerator door construction. 2,799,901, 7-23-57, Cl. 20-35.
- Jansey, Ronald P., 10% to J. Kinney. Holddown peg. 2,809,006, 10-8-57, Cl. 248-361.
- Janson, Gunnar H.: See—
Leff, Cecil, and Janson. 2,815,106.
- Jansons, Arnolds: See—
Patrick, James D., and Jansons. 2,805,390.
- Janssen, Gerardus H., and P. C. van der Linden, to North American Philips Co., Inc. Method of applying a light-diffusing layer to a glass surface. 2,798,007, 7-2-57, Cl. 117-54.
- Janssen, Hendrik J. J., to Rubber Stichting. Process for the preparation of cyclized rubber. 2,814,656, 11-26-57, Cl. 260-734.
- Janssen, Henricus J. H., to Naamloze Vennootschap Kunstzijkspinnerij Nyma. Process of polymerizing acrylonitrile in a mixture of an aqueous liquid and a liquid nonpolymerizable hydrocarbon. 2,787,610, 4-2-57, Cl. 260-88.7.
- Janssen, Peter J. H., to Hartford National Bank and Trust Co., as trustee. Wiring support for use at high voltages. 2,778,867, 1-22-57, Cl. 174-35.
- Janssen, Peter J. H., to Hartford National Bank and Trust Co., as trustee. Circuit arrangement for converting a low voltage into a high direct voltage. 2,780,767, 2-5-57, Cl. 321-2.
- Janssen, Peter J. H., to North American Philips Co., Inc. Circuit for synchronising sawtooth oscillator. 2,787,709, 4-2-57, Cl. 250-36.
- Janssen, Peter J. H., to North American Philips Co., Inc. Detector for either frequency modulation or amplitude modulation with noise reduction means. 2,798,152, 7-2-57, Cl. 250-20.
- Janssen, Peter J. H., to North American Philips Co., Inc. Synchronizing signal separator and automatic gain control. 2,801,280, 7-30-57, Cl. 178-7.3.
- Janssen, Peter J. H., to North American Philips Co., Inc. Circuit-arrangement in which a signal is supplied to a control-device. 2,801,364, 7-30-57, Cl. 315-22.
- Janssen, Peter J. H., to North American Philips Co., Inc. Circuit-arrangement comprising means for the periodic interruption of a current supplied to an induction coil. 2,805,384, 9-3-57, Cl. 323-61.
- Janssen, Peter J. H., to North American Philips Co., Inc. Circuit arrangement for synchronizing the line deflection circuit in a television receiver. 2,816,164, 12-10-57, Cl. 178-69.5.
- Janssen, Peter J. H., and W. Smeulders, to North American Philips Co., Inc. Circuit arrangement for producing a sawtooth current. 2,801,366, 7-30-57, Cl. 315-27.
- Janssen, Peter J. H., and W. Smeulders, to North American Philips Co., Inc. Circuit arrangement for producing a sawtooth-shaped current in a vertical deflector coil. 2,816,247, 12-10-57, Cl. 315-27.
- Jansson, Arnold O. to United-Carr Fastener Corp. Fastening device. 2,807,069, 9-24-57, Cl. 24-218.
- Jansson, Borge L. J. R., to C. N. Kuehn. Knife grinding machine. 2,786,310, 3-26-57, Cl. 51-98.
- Jansson, Walter S. Amusement device. 2,812,011, 11-5-57, Cl. 155-63.
- Jantzen Inc.: See—
Edelman, Walter. 2,794,187.
- Jaquier, Lloyd L., Jr., to Phillips Petroleum Co. Superphosphate and its manufacture. 2,802,728, 8-13-57, Cl. 71-40.
- Jaquith, Howard R., to Taylor Instrument Companies. Pneumatic pressure responsive devices. 2,778,372, 1-22-57, Cl. 137-111.
- Jaquith, Howard R., to Taylor Instrument Companies. Pneumatic pressure selectors. 2,778,373, 1-22-57, Cl. 137-112.
- Jarboe, James A. III, and R. L. Meuleners, to The American Oil Co. Methyl mercaptan distillation. 2,797,191, 6-25-57, Cl. 202-39.
- Jarboe, Rupert A., to Electra Mfg. Co. Multiple resistor unit. 2,812,471, 11-5-57, Cl. 315-8.5.
- Jardine, Frank, and J. M. Smith, to Aluminum Co. of America. Piston. 2,787,504, 4-2-57, Cl. 309-11.
- Jareckie, Eugene A.: See—
Smaltz, John C., and Jareckie. 2,813,591.
- Jareckie, Eugene A., to McKiernan-Terry Corp. Hoist boom towing connection. 2,780,196, 2-5-57, Cl. 114-0.5.
- Jarke Mfg. Co.: See—
Jakubowski, Richard S. 2,801,752.
- Jarlberg, Åke N. B., to Svenska Turbinfabriks Aktiebolaget Ljungstrom. Guide blade device for steam or gas turbines. 2,789,787, 4-23-57, Cl. 23-78.
- Jarnot, Frank R., 50% to G. A. Jornot. Wall dispenser for book matches. 2,805,111, 9-3-57, Cl. 312-42.
- Jarnot, Frank R. Boat mooring device. 2,808,016, 10-1-57, Cl. 114-230.
- Jarnot, Genevieve A.: See—
Jarnot, Frank R. 2,805,111.
- Jaros, Frank P., to General Textile Mills, Inc. Apparatus for gathering glass filaments. 2,796,724, 6-25-57, Cl. 57-34.5.
- Jarosh, John J., and J. E. Picardi, to Research Corp. Pendulum apparatus. 2,802,956, 8-13-57, Cl. 310-39.
- Jarred, Calvin E. Folding flashlight. 2,816,215, 12-10-57, Cl. 240-10.6.
- Jarret, Jacques: See—
Jarret, Jean and J. 2,800,320.
Jarret, Jean and J. 2,800,321.
- Jarret, Jean and J. Springs for shock absorbing purposes. 2,800,320, 7-23-57, Cl. 267-21.
- Jarret, Jean and J. Rubber including spring device. 2,800,321, 7-23-57, Cl. 267-63.
- Järund, Harry S. V., to Hermorion Ltd. Apparatus for producing tetrahedral packages. 2,784,540, 3-12-57, Cl. 53-180.
- Jarvis, Cecil W.: See—
Trotter, Marvin, and Jarvis. 2,779,488.
- Jarvis, Ernest L. Soap receptacle. 2,810,146, 10-22-57, Cl. 15-122.

- Jarvis, Ivor M.: *See*—
Bathurst, William N., and Jarvis. 2,784,728.
- Jarvis Mfg. Corp.: *See*—
Jarvis, Philip L. 2,779,552.
- Jarvis, Percival J., to The Plessey Co. Ltd. Gear pump. 2,816,510, 12-17-57, Cl. 103-126.
- Jarvis, Philip L., to Jarvis Mfg. Corp. Apparatus for equalizing tension in elastic ribbon. 2,779,552, 1-29-57, Cl. 242-153.
- Jarvis, Samuel D.: *See*—
Madany, George H. 2,779,537.
- Jarvis, Vernon D.: *See*—
Madany, George H. 2,779,537.
- Jasensky, Richard J.: *See*—
Thomas, Dean G., and Jasensky. 2,777,536.
- Joseph, Lawrence F., to Dover Corp. Constant pressure, constant flow control valve. 2,785,660, 3-19-57, Cl. 121-46.4.
- Jasin, Robert. Adjustable shelf bracket. 2,791,479, 5-7-57, Cl. 312-35.
- Jaskey, Leo L. Collapsible golf cart. 2,788,218, 4-9-57, Cl. 280-38.
- Jaskowski, Peter S. Auxiliary coin changing machine. 2,778,368, 1-22-57, Cl. 133-2.
- Jaskowski, Michael C.: *See*—
Frederick, Edward R., and Jaskowski. 2,805,913.
Frederick, Edward R., and Jaskowski. 2,805,914.
- Jasper, Elmer P. Versatile internal combustion engines. 2,782,774, 2-26-57, Cl. 123-41.65.
- Jasper, Elmer P. Internal combustion engines. 2,782,777, 2-26-57, Cl. 123-73.
- Jasse, Joseph R., to Societe Nouvelle des Etablissements Brandt. Base plate for mortars and like apparatuses. 2,780,964, 2-12-57, Cl. 89-37.
- Jasse, Joseph R., to Societe Nouvelle des Etablissements Brandt. Fin arrangement for a projectile. 2,793,591, 5-28-57, Cl. 102-50.
- Jaster, Paul J., to Houdaille Industries Inc. Hood latch assembly. 2,797,116, 6-25-57, Cl. 292-29.
- Jasuta, Albert R., to J. T. Baker Chemical Co. Spout comprising a large outlet passage and a smaller outlet passage located therein. 2,780,391, 2-5-57, Cl. 222-109.
- Jauch, Robert J.: *See*—
Wright, George W., Jauch, and Clymer. 2,779,503.
- Jauch, Robert J., and C. W. Kuckeberg, to General Development Co. Liquid dispensing apparatus. 2,794,679, 6-4-57, Cl. 299-63.
- Jaulmes, Eric, to Ateliers De La Motobecane, Societe Anonyme Francaise. Combined clutch and expanding pulley. 2,790,525, 4-30-57, Cl. 192-3.5.
- Jaumann, Johannes, Koln, and K. Ruthardt, to W. C. Heraeus, G. m. b. H. Vapour discharge lamp. 2,803,775, 8-20-57, Cl. 313-184.
- Jaumotte, Albert L. Bird decoys. 2,799,961, 7-23-57, Cl. 43-3.
- Jauquet, Jean, and W. Zemboch; said Jauquet assor, to said Zemboch. Display. 2,795,065, 6-11-57, Cl. 40-34.
- Jauss, Albert, to Bohm & Co. Punch press. 2,814,346, 11-26-57, Cl. 164-91.
- Jawett, Joseph A., to Petrometer Corp. Hydrotherapy apparatus. 2,799,866, 7-23-57, Cl. 4-180.
- Jaworski, Ernest G., and V. R. Gaertner, to Monsanto Chemical Co. Method of inhibiting cereal plant rust with phenylhydrazones. 2,818,367, 12-31-57, Cl. 167-30.
- Jay, James B.: *See*—
Longbottom, Geoffrey B., Bloomfield, and Jay. 2,805,680.
- Jay, James E. Plug and feather rock breaking device having spring return means. 2,814,475, 11-26-57, Cl. 262-12.
- Jay, Kenneth W., to A. V. Roe Canada Ltd. Full flow inline filter. 2,793,752, 5-28-57, Cl. 210-130.
- Jay, Wendell T.: *See*—
Parfitt, Hawley. 2,794,363.
- Jay, Willard B. Core box vent. 2,807,064, 9-24-57, Cl. 22-13.
- Jaye Corp.: *See*—
Jaye, Richard C. 2,780,896.
Jaye, Richard C. 2,784,510.
- Jaye, Richard C., to The Jaye Corp. Apparatus for cutting pipe cover sections from cellular material. 2,780,896, 2-12-57, Cl. 51-110.
- Jaye, Richard C., to The Jaye Corp. Letter for display signs. 2,784,510, 3-12-57, Cl. 40-135.
- Jaye, Richard C., to Synchronatic Corp. Hot air furnace. 2,808,046, 10-1-57, Cl. 126-116.
- Jaye, Richard C., and J. F. Hirtz, to Synchronatic Corp. Gas fired hot air furnace. 2,808,047, 10-1-57, Cl. 126-116.
- Jaytanie, Joseph M.: *See*—
Leitner, Robert T., and Jaytanie. 2,799,018.
- Jazwinski, Stanislaw T., and J. A. Sisto, to Barium Steel Corp. Method for refining titanium, zirconium, cerium, hafnium and thorium. 2,793,106, 5-21-57, Cl. 75-0.5.
- Jazwinski, Stanislaw T., and J. A. Sisto, to Barium Steel Corp. Method for separating zirconium and hafnium from a common system. 2,793,107, 5-21-57, Cl. 75-0.5.
- Jean, Marcel C. V.: *See*—
Housset, Jean R., and Jean. 2,806,003.
- Jeannero, Herman F. Metal handling and storage bolster. 2,778,590, 1-22-57, Cl. 248-120.
- Jeannin, John F., and R. A. Egge, to Vickers Inc. Power transmission. 2,787,959, 4-9-57, Cl. 103-3.
- Jeannin, Raymond J. Encasing stand for a multiple loose leaf block. 2,789,836, 4-23-57, Cl. 281-44.
- Jeanson, Maurice, to Laboratoire de Recherches Biologiques Labore. New derivatives of hydroxylated alkaloids. 2,802,828, 8-13-57, Cl. 260-285.
- Jeavons, Philip S., to Wilmot-Breeden Ltd. Vehicle door fasteners. 2,777,719, 1-15-57, Cl. 292-280.
- Jeavons, Philip S., to Wilmot-Breeden Ltd. Actuating means for door fastenings. 2,780,934, 2-12-57, Cl. 70-207.
- Jeavons, Philip S., to Wilmot-Breeden Ltd. Vehicle door fastening. 2,800,787, 7-30-57, Cl. 70-135.
- Jeckell, Ernest A.: *See*—
Jeckell, Walter E. and E. A. 2,802,519.
- Jeckell, Walter E. and E. A. Automobile armrest. 2,802,519, 8-13-57, Cl. 155-198.
- Jed Products Co.: *See*—
De Vault, Jess E. 2,807,826.
- Jedlick, Roland T. Machine for removing waste slugs from carton blanks. 2,779,257, 1-29-57, Cl. 93-36.
- Jeep, Charles W., Jr.: *See*—
Korte, Alfred C., Szwargulski, Jeep, and Larson. 2,803,384.
- Szwargulski, Alex N., and Jeep. 2,815,717.
- Jeffers, Francis G., to Imperial Chemical Industries Ltd. Catalyst recovery process. 2,791,566, 5-7-57, Cl. 252-464.
- Jeffers, Michael F., and F. J. Ragone, to Jerrod Electronics Corp. Panel box. 2,804,986, 9-3-57, Cl. 220-38.
- Jefferson Chemical Co., Inc.: *See*—
Bell, John B., Jr. 2,805,233.
Bell, John B., Jr. 2,807,629.
Bell, John B., Jr., and Peppel. 2,803,646.
Goerner, Joseph K., and Bone. 2,790,007.
Laemmle, George J., Jr. 2,776,972.
Laemmle, George J., Jr. 2,777,846.
- Jefferson, E. S.: *See*—
Jefferson, Norma J. 2,781,720.
- Jefferson, Edward G., R. C. Smith, Jr., and A. B. Stiles, to E. I. du Pont de Nemours and Co. Promoted cobalt oxide catalysts for hexamethylene diamine production. 2,776,315, 1-1-57, Cl. 260-583.
- Jefferson, Emmett. Musical toy. 2,817,188, 12-24-57, Cl. 46-177.
- Jefferson, Ernest S. Fishing reel. 2,796,224, 6-18-57, Cl. 242-84.2.
- Jefferson, Glen V.: *See*—
Bone, Herbert L., and Jefferson. 2,786,939.
- Jefferson Lake Sulphur Co.: *See*—
Miller, Ernest B. 2,784,804.
Miller, Ernest B. 2,785,051.
Miller, Ernest B. 2,799,360-2,799,364.
Miller, Ernest B., Sweet, and Prince. 2,784,798.
- Jefferson Medical College of Philadelphia, The: *See*—
Malmros, Gustav V. A., and Rex. 2,782,002.
- Jefferson, Norma J., 1/2 to E. S. Jefferson. Juice extractor. 2,781,720, 2-19-57, Cl. 100-211.
- Jefferson, Sidney: *See*—
Arrol, William J., and Jefferson. 2,804,573.
- Jeffery, Lillian M.: *See*—
Simpson, William G. 2,793,439.
- Jefferys, Herbert M.: *See*—
Halliday, William, Jefferys, and Rankin. 2,784,325.
- Jeffords, Roy L.: *See*—
Menser, Henry E., Jeffords, and Vancil. 2,781,930.
- Jeffras, Homer L., Sr., to Link-Belt Co. Attachment link for conveyor chains. 2,796,972, 6-25-57, Cl. 198-176.
- Jeffrey, George A., and F. H. Heacock, to Clayton Dewandre Co. Ltd. Break away valve for tractor-trailer brake system. 2,785,773, 3-19-57, Cl. 188-3.
- Jeffrey Mfg. Co., The: *See*—
Bauroth, Walter J. 2,804,558.
Beltz, John S. 2,815,191.
Kindig, Arnie J. 2,781,670.
Mercier, Stanley M. 2,781,890.
Moon, Sterling C. 2,793,848.
Newton, William H. 2,804,207.
Sedwick, Gilbert M. 2,813,517.
Smith, William J. 2,797,810.
- Jeffrey, Max L. Quick acting switch. 2,783,323, 2-26-57, Cl. 200-70.
- Jeffrey, Max L. Switch. 2,807,685, 9-24-57, Cl. 200-70.
- Jeffrey, Richard B., to McGraw Electric Co. Means for anchoring starts and/or finishes in coil windings. 2,779,928, 1-29-57, Cl. 336-192.
- Jeffrey, William B., and N. E. Von Behren, to Westinghouse Air Brake Co. Fluid pressure brake apparatus with direct release feature. 2,812,986, 11-12-57, Cl. 202-45.
- Jeffreys, Roy A., to Eastman Kodak Co. Substituted oxazoline-2-thiones and process. 2,808,412, 10-1-57, Cl. 260-307.
- Jeffries, Walter. Bath tub appliance. 2,817,095, 12-24-57, Cl. 4-185.
- Jefts, Albert W.: *See*—
Derbenwick, Frank, and Jefts. 2,798,035.
- Jeger, Oskar: *See*—
Heusser, Hans, Jeger, and Ruzicka. 2,782,212.
- Jeges, Karoly, to Egyesult Izzolampa Es Villamosagi Reszvenytarsasag. Electroluminescent source of light. 2,809,316, 10-8-57, Cl. 313-108.
- Jehle, Robert F.: *See*—
Samuel, Don W., Jehle, and Burch. 2,783,322.
- Jelfs Co.: *See*—
Bosna, Alexander A. 2,805,456.

- Jelinek, Charles F., R. L. Mayhew, and J. A. Yeager, to General Aniline & Film Corp. All purpose detergent bar. 2,781,320, 2-12-57, Cl. 252-121.
- Jelliff, C. O., Mfg. Corp., The: *See*—
- Jackson, John H., and Kavanaugh. 2,817,586.
- Jellinek, Charles, deceased; Y. Bruyneel and M. Veit, sole heirs, $\frac{1}{2}$ to R. E. Burns. Method and apparatus for producing esthetic lighting effects. 2,783,366, 2-26-57, Cl. 240-10.1.
- Jellinek, Markus. Jewelry clip with spring biased clamping arm and stop means therefor. 2,803,119, 8-20-57, Cl. 63-14.
- Jelm, Charles R., to American Alloy Corp. Method of internally alloy coating tubular bodies. 2,818,083, 12-31-57, Cl. 138-68.
- Jen, Yun: *See*—
- Wooding, William M., and Jen. 2,796,362.
- Jena'er Glaswerk Schott & Gen.: *See*—
- Eden, Carsten. 2,804,492.
- Jena'er Glaswerk Schott & Gen., Main: *See*—
- Geffken, Walter, Eden, and Faulstich. 2,781,411.
- Jencick, Stephen. Flexible couplings. 2,784,575, 3-12-57, Cl. 64-13.
- Jencick, Stephen. Power-steering mechanism. 2,817,246, 12-24-57, Cl. 74-388.
- Jencks, Harold S., to Douglas Aircraft Co., Inc. Connector plug assembly. 2,783,443, 2-26-57, Cl. 339-126.
- Jendrassik, Clara: *See*—
- Jendrassik, George. 2,779,530.
- Jendrassik, George. 2,780,405.
- Jendrassik, George. 2,800,120.
- Jendrassik Developments Ltd.: *See*—
- Jendrassik, George. 2,779,530.
- Jendrassik, George. 2,780,405.
- Jendrassik, George. 2,800,120.
- Jendrassik, George, deceased; A. G. T. Boszormenyi and C. Jendrassik, executors, to Jendrassik Developments Ltd. End plate structures and machines equipped therewith. 2,779,530, 1-29-57, Cl. 230-69.
- Jendrassik, George, deceased; A. G. T. Boszormenyi and C. Jendrassik, executors, to Jendrassik Developments Ltd. Pressure exchangers. 2,780,405, 2-5-57, Cl. 230-69.
- Jendrassik, George, deceased, by A. G. T. Boszormenyi and C. Jendrassik, executors, to Jendrassik Developments Ltd. Pressure exchangers. 2,800,120, 7-23-57, Cl. 123-119.
- Jendrisak, Joseph E., to Libbey-Owens-Ford Glass Co. Glass bending apparatus. 2,798,338, 7-9-57, Cl. 49-67.
- Jenison, George. Health muffler. 2,795,103, 6-11-57, Cl. 60-80.
- Jenkins, Albert. Wrist band. 2,801,779, 8-6-57, Cl. 224-4.
- Jenkins, Billy J. Coin retainer for automobiles. 2,800,360, 7-23-57, Cl. 296-37.
- Jenkins, Cecil: *See*—
- Woolslayer, Homer J., Iddings, Borg, and Jenkins. 2,780,326.
- Woolslayer, Homer J., Iddings, Jenkins, and Campbell. 2,780,325.
- Woolslayer, Homer J., Jenkins, and Campbell. 2,804,948.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,339.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,344.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,804,949.
- Jenkins, Cecil, and C. L. Turner, to Lee C. Moore Corp. Trailer mounted drilling rigs. 2,787,342, 4-2-57, Cl. 189-11.
- Jenkins, Chester P.: *See*—
- Ault, James R., and Jenkins. 2,811,303.
- Jenkins, David. Spring clip pail attachment means. 2,788,950, 4-16-57, Cl. 248-226.
- Jenkins, Desmond L.: *See*—
- Holroyd, Eric, and Jenkins. 2,775,986.
- Jenkins, Frank W.: *See*—
- Cook, Graham, Lory, and Jenkins. 2,790,968.
- Jenkins, George C.: *See*—
- Garwood, Robert E. Re. 24,400.
- Jenkins, J. J.: *See*—
- Vance, Byron T., and Jack. 2,785,698.
- Jenkins, Joe H., and W. P. Rochelle. Dispensing mechanism. 2,815,147, 12-3-57, Cl. 221-89.
- Jenkins, Louis W. Self-balancing spindle construction. 2,787,114, 4-2-57, Cl. 57-130.
- Jenkins, Max E., and D. D. Gardner. Bow quiver. 2,802,611, 8-13-57, Cl. 224-1.
- Jenkins, Murgatroyd H.: *See*—
- De Woskin, Irvin S., and Jenkins. 2,804,419.
- Jenkins Petroleum Process Co.: *See*—
- Smith, Arthur D. 2,778,781.
- Jenkins, Reginald T., and R. E. Polk, to Bell Telephone Laboratories, Inc. Telephone signaling device. 2,808,463, 10-1-57, Cl. 179-84.
- Jenkins, Rhonald F., and E. Desmond, to Smiths America Corp. Manufacture of bellows and the like devices. 2,816,592, 12-17-57, Cl. 153-2.
- Jenkins, Robert D. Container for film slides. 2,812,056, 11-5-57, Cl. 206-39.
- Jenkins, Robert F.: *See*—
- Hardman, Harley F., and Jenkins. 2,780,557.
- Hardman, Harley F., and Jenkins. 2,789,617.
- Jenkins, Robert W., M. A. Nadler, B. J. Sherwood, and E. J. Zeilberger, to North American Aviation, Inc. Method of making a thermopile. 2,807,657, 9-24-57, Cl. 136-4.
- Jenkins, Rodman, to Socony Mobil Oil Co., Inc. Determination of the location of the flame front in a subterranean formation. 2,800,183, 7-23-57, Cl. 166-4.
- Jenkins, Wallace, and H. L. McCreery, to The Atlas Mfg. & Sales Corp. Coin operated mechanism for vending machines. 2,784,827, 3-12-57, Cl. 194-61.
- Jenkins, Weston H., and F. Scheiby, to Corning Glass Works. Electric heating unit. 2,799,765, 7-16-57, Cl. 219-37.
- Jenkins, William J., to Joy Mfg. Co. Rotating hydraulic roof supporting jacks. 2,795,934, 6-18-57, Cl. 61-45.
- Jenkins, William O., and H. B. Menardi, to Whiting Corp. Method and apparatus for removing suspended solids from hot gas. 2,778,442, 1-22-57, Cl. 183-6.
- Jenkins, William W., to G. D. Searle & Co. Basic esters of substituted 3,4-dihydro-1,2-pyran-5-carboxylic acids and salts thereof. 2,776,300, 1-1-57, Cl. 260-345.8.
- Jenkins, William W., to G. D. Searle & Co. Basic esters of 2-norcamphanecarboxylic acid and of bicyclo [2.2.2]octane-2-carboxylic acids, their salts, and nuclearly alkylated substitution products thereof. 2,797,227, 6-25-57, Cl. 260-326.3.
- Jenkinson, Hugh R., to E. I. du Pont de Nemours and Co. Recovery of glycols from polyester production. 2,793,235, 5-21-57, Cl. 260-637.
- Jenks, Loren H.: *See*—
- Binder, George G., Jr., and Jenks. 2,798,556.
- Stanciliff, Ray J., Jr., Draper, and Jenks. 2,776,714.
- Jenn, Louis J. Ventilating device. 2,784,661, 3-12-57, Cl. 98-116.
- Jenne, Frank, Jr., to General Electric Co. Single wire arc tube support. 2,802,961, 8-13-57, Cl. 313-25.
- Jenner, Hans: *See*—
- Blomgren, Erik, and Jenner. 2,780,601.
- Jenner, Robert K., Jr., to Electronics Corp. of America. Photoelectric control apparatus. 2,781,477, 2-12-57, Cl. 317-127.
- Jenner, William C., R. S. Wick, and C. R. Newpher, to The Reliance Electric and Engineering Co. Coil structure. 2,780,742, 2-5-57, Cl. 310-179.
- Jennette, William S. Fishing rod. 2,776,516, 1-8-57, Cl. 43-24.
- Jennette, William S. Fishing rod tip. 2,792,660, 5-21-57, Cl. 43-24.
- Jenney, Theodore M.: *See*—
- Haller, John F., Jenney, and Churchill. 2,804,376.
- Jennings, Albert E., to Electric & Musical Industries, Ltd. Mounting of meshes in discharge devices. 2,779,887, 1-29-57, Cl. 313-66.
- Jennings, Charlotte G. Protective overskirt. 2,798,224, 7-9-57, Cl. 2-47.
- Jennings, Frank B. Fish lure. 2,783,577, 3-5-57, Cl. 43-42.5.
- Jennings, Frank C., to Emhart Mfg. Co. Apparatus for assembling the elements of liquid-dispensing containers. 2,781,576, 2-19-57, Cl. 29-235.
- Jennings, Garland B.: *See*—
- Parks, Clarence E., and Jennings. 2,807,603.
- Jennings, Irving C. Pumping mechanism. 2,788,745, 4-16-57, Cl. 103-6.
- Jennings, Irving C. Strainer mechanism. 2,788,898, 4-16-57, Cl. 210-116.
- Jennings, Irving C. Liquid level control valves. 2,794,445, 6-4-57, Cl. 137-434.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch. 2,794,101, 5-28-57, Cl. 200-144.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch. 2,794,885, 6-4-57, Cl. 200-144.
- Jennings, Jo E., and T. N. Tilman, to Jennings Radio Mfg. Corp. Coaxial switch. 2,794,087, 5-28-57, Cl. 200-82.
- Jennings, Marvin D.: *See*—
- Orelind, John R., and Jennings. 2,779,260.
- Jennings Radio Mfg. Corp.: *See*—
- Jennings, Jo E. 2,794,101.
- Jennings, Jo E. 2,794,885.
- Jennings, Jo E., and Tilman. 2,794,087.
- Jennrich, Friedrich: *See*—
- Schlichthaerle, Anton, Jennrich, and Salzer. 2,812,003.
- Jenny, Dietrich A., to Radio Corp. of America. Electron multiplier tube. 2,790,922, 4-30-57, Cl. 313-105.
- Jenny, Dietrich A., to Radio Corp. of America. Method of making semi-conductor devices. 2,796,368, 6-18-57, Cl. 148-1.5.
- Jenny, Dietrich A., to Radio Corp. of America. Semi-conductor materials. 2,809,165, 10-8-57, Cl. 252-62.3.
- Jenny, Dietrich A., to Radio Corp. of America. Method of making semi-conductor bodies. 2,817,607, 12-24-57, Cl. 148-1.5.
- Jenny, Dietrich A., to Radio Corp. of America. Semiconductors. 2,817,798, 12-24-57, Cl. 317-235.
- Jenny, Dietrich A., to Radio Corp. of America. Semi-conductor devices employing cadmium telluride. 2,817,799, 12-24-57, Cl. 317-237.
- Jenny, Robert W.: *See*—
- Keller, George R., and Jenny. 2,780,427.
- Jenny, Robert W., to Bostitch, Inc. Fastener-applying implement. 2,801,415, 8-6-57, Cl. 1-44.4.
- Jenny, Robert W., to Bostitch, Inc. Magazine closure for stapling implements. 2,801,417, 8-6-57, Cl. 1-49.

- Jenny, Robert W., to Bostitch, Inc. Staple magazine and feeding means. 2,801,418, 8-6-57, Cl. 1-49.
- Jenny, Walter: *See*—
Grelat, Maurice, and Jenny. 2,815,347.
Grossmann, Paul, and Jenny. 2,805,225.
- Jenny, Walter, to Ciba Ltd. Addition compounds of the an-thraquinone series. 2,807,630, 9-24-57, Cl. 260-369.
- Jenny, Walter, to Ciba Ltd. Addition compounds of selenic acid derivatives. 2,807,631, 9-24-57, Cl. 260-369.
- Jensch, Clyde K., to Nordberg Mfg. Co. Twist drill sharpening attachment for tool grinder. 2,780,894, 2-12-57, Cl. 51-96.
- Jensch, Clyde K., to Nordberg Mfg. Co. Rail spike driving machine. 2,799,230, 7-16-57, Cl. 104-17.
- Jensen, Arthur, J. C. Vickland, and R. G. Winklepleck, to Apra Precipitator Corp. Zone cleaning of precipitator. 2,797,429, 7-2-57, Cl. 15-318.
- Jensen, Arthur S.: *See*—
Gray, George W., and Jensen. 2,810,828.
- Jensen, Arvid E., to Ford Motor Co. Starter field winding. 2,807,736, 9-24-57, Cl. 310-184.
- Jensen, Arvid E., to Ford Motor Co. Integral positive engagement starter. 2,813,206, 11-12-57, Cl. 290-38.
- Jensen, Clarence F., to Webster Electric Co. Transducer. 2,780,680, 2-5-57, Cl. 179-100.41.
- Jensen, Emanuel. Sliding partition. 2,792,596, 5-21-57, Cl. 20-19.
- Jensen, Erik H., to Westinghouse Electric Corp. Compressor unloaders. 2,779,528, 1-29-57, Cl. 230-21.
- Jensen, Finn: *See*—
Johnson, Malcolm S., and Jensen. 2,803,201.
- Jensen, Fred J.: *See*—
Christensen, Lynn J., Jensen, and Christofferson. 2,794,901.
- Jensen, Homer: *See*—
Rumbaugh, Lynn H., and Jensen. 2,779,914.
- Jensen, James A., to Philadelphia Valve Co. Hose coupling with fluid responsive seal. 2,816,779, 12-17-57, Cl. 285-74.
- Jensen, James E. Dispenser and supporting means. 2,775,989, 1-1-57, Cl. 141-360.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Voltage and current regulation. 2,776,382, 1-1-57, Cl. 307-97.
- Jensen, Julio T. Quick emptying means for tanks. 2,779,027, 1-29-57, Cl. 4-50.
- Jensen, Kurt, to Ernst Leitz, G. m. b. H. Universal drive for the focusing of binocular optical apparatus, especially telescopes. 2,811,895, 11-5-57, Cl. 88-34.
- Jensen, Louis, to Varco, Inc. Method of bursting unequal width portions from continuous stationery. 2,800,180, 7-23-57, Cl. 164-84.5.
- Jensen, Melvin E. Tractor drawn sulky. 2,785,614, 3-19-57, Cl. 97-46.27.
- Jensen, Olaf, to Norsk Hydro-Elektrisk Kvaestofaktieselskab. Process for the production of sponge iron with gas as reducing agent. 2,797,989, 7-2-57, Cl. 75-35.
- Jensen, Otto, to I-T-E Circuit Breaker Co. Mechanical rectifier contacts. 2,798,909, 7-9-57, Cl. 200-31.
- Jensen, Paul V. Children's boat swing. 2,791,267, 5-7-57, Cl. 155-58.
- Jensen, Poul L. T., to Reichel & Drews, Inc. Apparatus for rolling a strip of sheet material into a regular roll. 2,795,384, 6-11-57, Cl. 242-66.
- Jensen, Raymond W., to The Garrett Corp. Pneumatic temperature control. 2,780,413, 2-5-57, Cl. 236-13.
- Jensen, Raymond W., to The Garrett Corp. Butterfly type safety valve. 2,815,705, 12-10-57, Cl. 98-1.5.
- Jensen, Raymond W., to The Garrett Corp. Shut-off valve of the butterfly type. 2,816,729, 12-17-57, Cl. 251-75.
- Jensen, Robert V., to Radio Corp. of America. Method and apparatus for zone melting. 2,789,039, 4-16-57, Cl. 23-301.
- Jensen, Sanning C. Hammermill rotor including paired divergent-end hammers. 2,810,529, 10-22-57, Cl. 241-194.
- Jensen, Sanning C. Grain hammermill knife adapter. 2,813,684, 11-19-57, Cl. 241-194.
- Jensen, Scott. Automatic valve control for sprinkler systems. 2,785,007, 3-12-57, Cl. 299-25.
- Jensen, Viggo, and K. J. Carlsen. Combined tricycle and carriage. 2,798,727, 7-9-57, Cl. 280-7.17.
- Jensen, Warren, and J. O. Clayton, to California Research Corp. Halogenated phenylalkane phosphonyl chlorides. 2,795,609, 6-11-57, Cl. 260-543.
- Jensen, William K., to General Motors Corp. Electric window regulator safety switch. 2,817,720, 12-24-57, Cl. 200-5.
- Jenson, Kenneth S.: *See*—
Snyder, Wesley J., Roth, Dillingham, and Jenson. 2,808,823.
- Jenssen, Sverre: *See*—
Lockman, Carl J., and Jenssen. 2,796,120.
- Jentges, Thomas W.: *See*—
Harrington, Frank A., and Jentges. 2,816,995.
- Jentsch, Alexander and R., to Edward Jentsch, Inc. Multiple precision carriage stop. 2,788,692, 4-16-57, Cl. 82-34.
- Jentsch, Edward, Inc.: *See*—
Jentsch, Alexander and R. 2,788,692.
- Jentsch, Rudolph: *See*—
Jentsch, Alexander and R. 2,788,692.
- Jeppesen, Bartell T. Band saw setting and filing clamp. 2,778,248, 1-22-57, Cl. 76-73.
- Jeppson, Kurt J. H., to Svenska Ventilations A-B. Devices for counting thread breakages in textile machines. 2,790,602, 4-30-57, Cl. 235-92.
- Jeppson, Morris R. Transformer. 2,791,753, 5-7-57, Cl. 336-83.
- Jeppson, Morris R. Method of manufacturing electrical capacitors. 2,793,970, 5-28-57, Cl. 154-80.
- Jeppsson, Erik M., to Svenska Aktiebolaget Bromsregulator. Slack adjusters. 2,804,179, 8-27-57, Cl. 188-196.
- Jepson, Ivar, to Sunbeam Corp. Warming device for heating variable quantities of material of different initial temperatures to the same final temperature. 2,778,921, 1-22-57, Cl. 219-44.
- Jepson, Ivar, to Sunbeam Corp. Automatic cooking device. 2,785,277, 3-12-57, Cl. 219-44.
- Jepson, Ivar, to Sunbeam Corp. Reaction type traveling sprinkler. 2,788,241, 4-9-57, Cl. 299-50.
- Jepson, Ivar, to Sunbeam Corp. Reaction type travelling sprinkler. 2,788,242, 4-9-57, Cl. 299-50.
- Jepson, Ivar, to Sunbeam Corp. Electric dry shaver. 2,797,479, 7-2-57, Cl. 30-43.
- Jepson, Ivar, to Sunbeam Corp. Lightweight composite sole plate and method of making the same. 2,807,700, 9-24-57, Cl. 219-25.
- Jepson, Ivar, to Sunbeam Corp. Steam iron. 2,813,358, 11-19-57, Cl. 38-77.
- Jepson, Ivar, and L. J. Craft, Jr., to Sunbeam Corp. Fly-wheel type magneto. 2,778,961, 1-22-57, Cl. 310-153.
- Jepson, Percy. Separator for use in separating liquids of different specific gravity. 2,799,437, 7-16-57, Cl. 22-481.
- Jerabek, Paul E.: *See*—
Stringham, Leonidas K., and Jerabek. 2,814,579.
- Jerand, Harold L. Floor covering mechanic's tool. 2,776,493, 1-8-57, Cl. 33-174.
- Jeremias, Bruno R.: *See*—
Chester, Allan E., and Jeremias. 2,796,372.
Chester, Allan E., Jeremias, and Irwin. 2,796,361.
Chester, Allan E., Jeremias, and Irwin. 2,796,369.
- Jeremias, Bruno R., to Poor & Co. Sealing composition and method. 2,793,967, 5-28-57, Cl. 148-6.2.
- Jergens, Andrew, Co. The: *See*—
Lippert, Ralph E., and Raut. 2,779,453.
- Jermstad, Sigurd E., and A. Sturzenegger, to Hoffmann-La Roche Inc. Acetylation process. 2,802,863, 8-13-57, Cl. 260-491.
- Jernander, Alvin A., and A. G. Anderson, to K-P Mfg. Co. Portable, stroke-actuated liquid dispensing system. 2,789,396, 4-23-57, Cl. 47-1.
- Jernberg, Ervert H., to Electric Machinery Mfg. Co. Amortisseur windings for alternating-current machines. 2,815,461, 12-3-57, Cl. 310-183.
- Jernegan, Horace F. Can opener means. 2,800,712, 7-30-57, Cl. 30-1.
- Jerrold Electronics Corp.: *See*—
Arbeiter, Henry J. 2,786,095.
Arbeiter, Henry J., and Winston. 2,777,894.
Jeffers, Michael F., and Ragone. 2,804,986.
- Jerry, Carl R., to Shuron Optical Co., Inc. Spectacle case. 2,793,741, 5-28-57, Cl. 206-6.
- Jeru, Henri. Electric furnace. 2,801,275, 7-30-57, Cl. 13-22.
- Jervis Corp.: *See*—
Jacobson, Edwin B. 2,802,684.
Johnson, Robert E. 2,789,023.
- Jespersen, Paul W., to American Linen Supply Co. Towel unwinding and folding machine. 2,787,848, 4-9-57, Cl. 38-7.
- Jess, John J., Sr., to Regan Bro's Co. Label applying attachment for bread wrapping machines. 2,814,328, 11-26-57, Cl. 154-1.6.
- Jessen, Nicholas C., to The Babcock & Wilcox Co. Method of butt welding fully austenitic stainless alloy tubes. 2,787,699, 4-2-57, Cl. 219-137.
- Jessen, Nicholas C., to The Babcock & Wilcox Co. Low alloy coated electrodes with low carbon core. 2,789,924, 4-23-57, Cl. 117-207.
- Jessen, Nicholas C., to The Babcock & Wilcox Co. Coated weld rods with low carbon core. 2,789,925, 4-23-57, Cl. 117-207.
- Jessop, Steven W.: *See*—
McCaul, Edward W., and Jessop. 2,803,198.
- Jessop, William, & Sons, Ltd.: *See*—
Harris, Geoffrey T., and Child. 2,801,916.
Harris, Geoffrey T., and Child. 2,803,539.
- Jessup, Jacob D., to W. D. Keith. Insulator support socket for fluorescent light tubes. 2,814,787, 11-26-57, Cl. 339-52.
- Jester, Thomas J. Boat tilting device. 2,805,782, 9-10-57, Cl. 214-1.
- Jesty, Leslie C., to Marconi's Wireless Telegraph Co. Ltd. Color television systems. 2,802,964, 8-13-57, Cl. 313-92.
- Jesty, Leslie C., to Marconi's Wireless Telegraph Co. Ltd. Color television transmitting system. 2,804,495, 8-27-57, Cl. 178-5.4.
- Jesus, Henri L. L. Arrangement for receiving and folding, by stacking, of linen and other material presented in the form of supply sheets. 2,788,967, 4-16-57, Cl. 270-61.
- Jesus, Henri L. L. Apparatus for folding bed sheets and other sheets of supply material. 2,801,101, 7-30-57, Cl. 270-68.

- Jeszka, Kenneth S., A. A. Kudeck and A. Paalu, to A. O. Smith Corp. Electric eye barrier guard. 2,798,583, 7-9-57, Cl. 192-130.
- Jeter, Harry R.: *See*—
Kayton, Robert, Freundel, Jeter, and Dudek. 2,783,880.
- Jet-Heat, Inc.: *See*—
Coleman, Robert E., Jr., and Miles. 2,805,660.
- Lorini, Osmun W. 2,777,077.
- MacCracken, Calvin D. 2,777,433.
- MacCracken, Calvin D. 2,783,755.
- MacCracken, Calvin D. 2,802,088.
- MacCracken, Calvin D. 2,812,015.
- Jett, John H., and D. J. Snyder, 50% to General Foods Corp., and 50% to C. A. Swanson & Sons. Gizzard cleaning machine. 2,787,806, 4-9-57, Cl. 17-11.
- Jette, William H., to General Electric Co. Manual switch. 2,809,537, 10-15-57, Cl. 74-483.
- Jetter, William F., to The Air Preheater Corp. Fluid reactant rotor in regenerative heat exchange apparatus. 2,802,646, 8-13-57, Cl. 257-6.
- Jeune, Wallace H.: *See*—
Harrison, William S. 2,802,575.
- Jewel, Lee: *See*—
Touchman, William. 2,796,761.
- Touchman, William. 2,796,762.
- Touchman, William S. 2,806,647.
- Jewell, Raymond L., to American Sterilizer Co. Surgical light. 2,798,938, 7-9-57, Cl. 240-1.4.
- Jewell, Robert B., to Silas Mason Co. Apparatus for internally spraying pipes. 2,800,875, 7-30-57, Cl. 118-306.
- Jewell, William K., to General Electric Co. Refrigerator door latch. 2,779,618, 1-29-57, Cl. 292-332.
- Jewell, William K., to General Electric Co. Safety strike. 2,801,872, 8-6-57, Cl. 282-341.17.
- Jewers, Emerson Y.: *See*—
Standiford, Fred A. 2,809,058.
- Jewett, Deane N., to Detroit Hardware Mfg. Co. Latch unit for panic exit lock. 2,781,218, 12-12-57, Cl. 292-336.
- Jewett, Deane N. and R. S., to Detroit Hardware Mfg. Co. Window operator. 2,777,687, 1-15-57, Cl. 268-109.
- Jewett, Harold F. Automobile camera stands. 2,804,278, 8-27-57, Cl. 248-205.
- Jewett, John L., and C. G. Trimbach, to the United States of America as represented by the Secretary of the Navy. Spin stabilized rocket wing launcher. 2,790,352, 4-30-57, Cl. 89-1.7.
- Jewett, Richard S.: *See*—
Jewett, Deane N. and R. S. 2,777,687.
- Jezi, James L., to Sun Oil Co. Treatment of naphthenic acids. 2,789,999, 4-23-57, Cl. 260-514.
- Jezi, James L., to Sun Oil Co. Regeneration of alkaline treating agents. 2,794,769, 6-4-57, Cl. 196-32.
- Jezi, James L., to Sun Oil Co. Petroleum refining. 2,808,365, 10-1-57, Cl. 196-32.
- Jezi, James L., and A. T. Polishuk, to Sun Oil Co. Separation of gases. 2,815,827, 12-10-57, Cl. 183-115.
- Jimerson, Francis A., to Ingersoll-Rand Co. Shut-down mechanism for pneumatic tools. 2,814,277, 11-26-57, Cl. 121-35.
- Jipp, Rolf, to Maschinenfabrik Beth Aktiengesellschaft. Heat exchangers. 2,797,498, 7-2-57, Cl. 34-164.
- Jirak, Albert G. Conveyor attachment for elevating machinery. 2,814,377, 11-26-57, Cl. 198-100.
- Jiroch, Ralph S., to Belle City Malleable Iron Co. Side bearing construction for railroad car bolster assemblies. 2,804,356, 8-27-57, Cl. 308-138.
- Joa, Curt G. Self-centering feed rolls for a dowel machine or the like. 2,780,253, 2-5-57, Cl. 144-246.
- Joachim, Dazzi, to Monsanto Chemical Co. Adducts of long chain olefinic acid amides and fumaric acid esters. 2,818,415, 12-31-57, Cl. 260-404.
- Joachim, William H. Open top cabinet with card holder. 2,778,704, 1-22-57, Cl. 312-309.
- Job, Francois, and P. J. Clavier. Remote power supply system for amplifier stations in telecommunication cables. 2,778,954, 1-22-57, Cl. 307-64.
- Jobbins, William F., Inc.: *See*—
Cooper, Hugh S. 2,811,439.
- Jobmann, Paul F. W.: *See*—
Bartels, Alfred F. A., and Jobmann. 2,803,035.
- Jobst, Conrad, to Jobst Institute Inc. Method and physical means for forming individually proportioned surgical garments. 2,816,361, 12-17-57, Cl. 33-5.
- Jobst Institute Inc.: *See*—
Jobst, Conrad. 2,816,361.
- Jochim, Anton M.: *See*—
Davis, Ray O., and Jochim. 2,804,993.
- Jochum, William T., E. B. Romberg, and R. H. Ostergren, to North American Aviation, Inc. Angle measuring and correcting means. 2,782,626, 2-26-57, Cl. 73-1.
- Jockers, Harry W. Marking pens. 2,783,488, 3-5-57, Cl. 15-139.
- Jockers, Kurt, H. Meier, and K. Wintersberger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of hydroxylammonium sulfate. 2,798,791, 7-9-57, Cl. 23-117.
- Jodoin, Louis-Philippe M.: *See*—
Leff, Cecil, and Jodoin. 2,814,679.
- Joel, Amos E., Jr., to Bell Telephone Laboratories, Inc. Communication system. 2,806,088, 9-10-57, Cl. 179-18.
- Joel, Amos E., Jr., M. E. Krom, and M. Posin, to Bell Telephone Laboratories, Inc. Line concentrator system. 2,812,385, 11-5-57, Cl. 179-18.
- Joffe, Morris H., and M. Lipschultz, to The Emulsol Egg Products Corp. Apparatus for producing dressing. 2,776,119, 1-1-57, Cl. 259-4.
- Joffre, Stephen P., to Shulton Inc. Impermeable polyethylene film and containers and process of making same. 2,811,468, 10-29-57, Cl. 117-95.
- Joh. Vaillant K.-G.: *See*—
Dönges, Hans, and Pütz. 2,795,380.
- Johannes, Felix L. Power transmitting attachment for vehicles. 2,778,438, 1-22-57, Cl. 180-53.
- Johannsen, Adolf, and R. Luehdemann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of phthalic anhydride. 2,815,352, 12-3-57, Cl. 260-346.4.
- Johannessen, Allan N., to the United States of America as represented by the Secretary of the Army. Receiver for liquid refrigerant. 2,780,922, 2-12-57, Cl. 62-1.
- Johannessen, Hans A. I. Invalid walker and transfer device. 2,792,052, 5-14-57, Cl. 155-24.
- Johannsen, John H. W. Pressure and safety device for circular saws and the like. 2,817,376, 12-24-57, Cl. 144-249.
- Johannesson, Nils-Olof, and D. B. H. Lundvall, to Telefon-aktiebolaget L M Ericsson. Four-terminal impedance network with variable attenuation. 2,782,378, 2-19-57, Cl. 333-28.
- Johansen, Einar K., to U. S. Industries, Inc. Clutch and brake mechanism. 2,785,781, 3-19-57, Cl. 192-12.
- Johansen, Gunnar: *See*—
Iversen, Gunnar B., Swensen, and Johansen. 2,781,132.
- Johanson, Alvin F.: *See*—
Maxey, George E. 2,807,104.
- Johanson, Bengt J., to Cinch Mfg. Corp. Snap-in subminiature socket. 2,803,000, 8-13-57, Cl. 339-258.
- Johanson, Helmut, and E. Röthe. Apparatus for temperature measurement. 2,818,508, 12-31-57, Cl. 250-83.3.
- Johanson, Lars N. M. Precision vise having a coating locking plate and jaw-advancing screw. 2,780,123, 2-5-57, Cl. 81-17.
- Johanson, Norman L., to Boeing Airplane Co. Modulator-demodulator limiter transistor circuits. 2,780,725, 2-5-57, Cl. 250-81.
- Johansson, Carl E. G.: *See*—
Palmgren, Per G., Ball, Johansson, and Haley. 2,783,102.
- Johansson, Ebbe A. I. and S. A. M. Folding table. 2,793,924, 5-28-57, Cl. 311-79.
- Johansson, Ernest G., to Anchor Mfg. Co. Solderless connector. 2,812,963, 11-12-57, Cl. 287-111.
- Johansson, Evert, to Aktiebolaget A. Ekströms Maskinaffär. Device for cleaning spray tubes. 2,784,032, 3-5-57, Cl. 299-59.
- Johansson, Folke C. E.: *See*—
Kalling, Bo M. S., and Johansson. 2,788,204.
- Johansson, Johan E., to Aktiebolaget Götaverken. Welded frame for opposed piston internal combustion engines. 2,789,552, 4-23-57, Cl. 123-195.
- Johansson, Johan E., to Aktiebolaget Götaverken. Frame for dual shaft internal combustion engines of the opposed piston type. 2,789,553, 4-23-57, Cl. 123-195.
- Johansson, Johan E., to Aktiebolaget Götaverken. Frame structure for the upper crank case of dual-shaft internal combustion engines of the opposed piston type. 2,796,857, 6-25-57, Cl. 123-195.
- Johansson, Johan E., to Aktiebolaget Götaverken. Needle or roller bearing for mounting a connecting rod on a gudgeon pin. 2,797,135, 6-25-57, Cl. 309-19.
- Johansson, Johan E., to Aktiebolaget Götaverken. Frame structure for internal combustion engines with opposed pistons and a single crank shaft. 2,800,271, 7-23-57, Cl. 230-56.
- Johansson, Johan E., and U. G. Kyrilin, to Aktiebolaget Götaverken. Two-stroke-cycle internal combustion engines with scavenging and charging compressors driven by exhaust gas turbines. 2,803,942, 8-27-57, Cl. 60-13.
- Johansson, Sture A. M.: *See*—
Johansson, Ebbe A. I. and S. A. M. 2,793,924.
- John, Arthur L. Casting float having depth adjustment means. 2,795,077, 6-11-57, Cl. 43-43.11.
- John, George S., and A. A. Brooks, to Standard Oil Co. Spheroidal platinum-group catalysts production. 2,805,206, 9-3-57, Cl. 252-448.
- John, John A.: *See*—
Beesley, Stanley, John, and Drewitt. 2,810,728.
- Drewitt, James G. N., John, and Smith. 2,798,542.
- Johns, Bennie C. Interlocking fasteners for building materials. 2,817,125, 12-24-57, Cl. 20-8.
- Johns, Budea. Machinist's gauging fixture. 2,814,885, 12-3-57, Cl. 33-185.
- Johns, Edward, and H. C. Falck. Brake lining coating device. 2,792,808, 5-21-57, Cl. 118-222.
- Johns, Glover, and C. H. Billings. Apparatus for chemically treating water. 2,805,923, 9-10-57, Cl. 23-267.
- Johns-Manville Corp.: *See*—
Barnett, Irvin. 2,789,319.
- Barnett, Irvin, and Zager. 2,799,915.
- Binkley, Mark E. 2,793,131.
- Bruno, Arthur J., and Dec. 2,789,096.
- Bruno, Arthur J., and Speil. 2,808,338.
- Coss, Harold T. 2,789,322.

- Johns-Manville Corp.: *See*—Continued
 Hedges, Lee M. 2,807,048.
 Leistensnider, George P. 2,776,154.
 Leistensnider, George P. 2,813,084.
 Miles, William S. 2,788,552.
 Miles, William S., and Siering. 2,796,158.
 Parkinson, John S., and Jack. 2,800,308.
 Perry, Walter M., and Fitz Maurice. 2,813,637.
 Sinclair, David. 2,812,686.
 Spell, Sidney, and Barnett. 2,811,457.
 Walker, George P. 2,804,321.
- Johns, Ralph W.: *See*—
 Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,803,932.
- Johns, Robert R.: *See*—
 Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,803,932.
- Johns, Walter T., to E. I. du Pont de Nemours and Co. Processes of coating. 2,795,522, 6-11-57, Cl. 154-102.
- Johns, William B. Cleat cleaners. 2,817,863, 12-31-57, Cl. 15-105.
- Johns, William F.: *See*—
 Sarrett, Lewis H., and Johns. 2,786,064.
- Johnsen, Iver, Jr.: *See*—
 Meyer, Wendel J., and Johnsen. 2,803,353.
- Johnsen, Iver, Jr., to Pullman-Standard Car Mfg. Co. Lading strap anchor. 2,803,200, 8-20-57, Cl. 105-369.
- Johnsen, Aage B.: *See*—
 Moore, Arthur J., Hopkins, and Johnson. 2,807,936.
- Johnson, Adolph J. Natural bait holder. 2,795,886, 6-18-57, Cl. 43-44.81.
- Johnson, Agnar, to Atwood Vacuum Machine Co. Door latch mechanism. 2,795,448, 6-11-57, Cl. 292-216.
- Johnson, Albert. Sanitary urinary appliance. 2,796,864, 6-25-57, Cl. 128-294.
- Johnson, Albert M., to Barnes Drill Co. Hone with pressure actuated gage. 2,777,257, 1-15-57, Cl. 51-34.
- Johnson, Albert M., to Barnes Drill Co. Honing machine. 2,791,871, 5-14-57, Cl. 51-184.3.
- Johnson, Alexander H. Filler for electric outlet boxes. 2,794,568, 6-4-57, Cl. 220-3.4.
- Johnson, Alf A. H.: *See*—
 Henström, Sten A., and Johnson. 2,785,607.
- Johnson, Alvin O.: *See*—
 Le Febvre, Alfred L., Johnson, and Small. 2,797,968.
- Johnson, Arden L., to Vinco Corp. Mechanical proportioning device. 2,786,462, 3-26-57, Cl. 125-11.
- Johnson, Arnold E., to Minnesota Mining & Mfg. Co. Tape applying movement. 2,776,068, 1-1-57, Cl. 216-21.
- Johnson, Arnold E. W., to International Harvester Co. Liquid dispensing apparatus pressurized from engine exhaust of engine driven vehicle. 2,800,764, 7-30-57, Cl. 60-29.
- Johnson, Arnold N., to Commercial Solvents Corp. Isolation of delta isomer of benzene hexachloride. 2,803,673, 8-20-57, Cl. 260-648.
- Johnson, Arthur: *See*—
 Carlson, Carl O. 2,817,848.
- Johnson, Arthur E., to A. O. Smith Corp. Arc welding apparatus. 2,785,337, 3-12-57, Cl. 315-182.
- Johnson, Arthur K.: *See*—
 Meyer, Robert H., and Johnson. 2,796,443.
- Johnson, Arthur K., to The Dow Chemical Co. Method for removing chlorates and chlorides from concentrated electrolytic sodium hydroxide. 2,790,707, 4-30-57, Cl. 23-184.
- Johnson, August E.: *See*—
 Frederickson, Edward A., Ashby, and Johnson. 2,806,740.
- Johnson, Axel A. Washing device. 2,790,191, 4-30-57, Cl. 15-130.
- Johnson, Axel A. Fountain brush. 2,814,815, 12-3-57, Cl. 15-128.
- Johnson, Axel E. F.: *See*—
 De Witt, Harry K., and Johnson. 2,817,856.
- Johnson, Byron A.: *See*—
 Campbell, Allan, Shepherd, Ott, and Johnson. 2,816,119.
 Donia, Robert A., and Johnson. 2,817,670.
- Johnson, C. S., Co.: *See*—
 Martinson, Edwin O. 2,812,970.
- Johnson, Carl G., to Port Pitt Industries, Inc. Popularity meters for automatic phonographs. 2,797,048, 6-25-57, Cl. 235-91.
- Johnson, Charles A. E., to Lynch Corp. Glass making machine with dual cylinder press plungers. 2,783,591, 3-5-57, Cl. 49-38.
- Johnson, Charles B., and R. J. Sarraf, to Rockwell Mfg. Co. Flexible diaphragm having a trough. 2,775,983, 1-1-57, Cl. 137-793.
- Johnson, Charles H., to Gisholt Machine Co. Turret lathe with servo tracer turret. 2,798,395, 7-9-57, Cl. 82-14.
- Johnson, Charles R., and J. F. Henderson. Cooking utensil. 2,775,929, 1-1-57, Cl. 99-426.
- Johnson, Charles R., and E. H. Schmidt, to E. I. du Pont de Nemours & Co. Conveyor for handling a shock sensitive article. 2,791,318, 5-7-57, Cl. 198-203.
- Johnson, Charles V., deceased; L. Karrer, executor of said Johnson, to Nu-Jett Products Corp. Compressed air motor. 2,808,225, 10-1-57, Cl. 253-3.
- Johnson, Charles W., to Johnson Gas Appliance Co. Stock water heater. Re. 24,295, 3-26-57, Cl. 126-360.
- Johnson, Charles W., to Sadler Bros., Inc. Caliper for a lens or the like. 2,808,651, 10-8-57, Cl. 33-149.
- Johnson, Chester W., and C. T. Keogh. Fluid pump. 2,781,729, 2-19-57, Cl. 103-120.
- Johnson, Chester W., and C. T. Keogh. Fluid pump. 2,789,513, 4-23-57, Cl. 103-136.
- Johnson, Chester W., and H. H. Shanklin. Hydraulic master cylinder assembly. 2,803,947, 8-27-57, Cl. 60-54.6.
- Johnson, Christopher L.: *See*—
 Lombard, Adrian A., and Johnson. 2,785,848.
- Johnson, Christopher L., to Rolls-Royce Ltd. Gas-turbine power plant installations with means for disposal of drainage fuel. 2,814,931, 12-3-57, Cl. 60-35.6.
- Johnson, Clarence: *See*—
 Englehart, John C., Johnson, and Cain. 2,790,466.
- Johnson, Clarence, to Bailey Meter Co. Control system. 2,777,349, 1-15-57, Cl. 82-11.
- Johnson, Clarence, to Bailey Meter Co. Control system. 2,777,351, 1-15-57, Cl. 82-14.
- Johnson, Clarence L., to Lockheed Aircraft Corp. Landing drag flap and lift spoiler. 2,791,385, 5-7-57, Cl. 244-42.
- Johnson, Clarence L., to Lockheed Aircraft Corp. Airplane with variable swept wings. 2,794,608, 6-4-57, Cl. 244-46.
- Johnson, Clarence W. Gate valve. 2,781,787, 2-19-57, Cl. 138-94.5.
- Johnson, Claude H. Magnetic work hanger. 2,816,790, 12-17-57, Cl. 294-65.5.
- Johnson, Clyde C. Storage device. 2,784,520, 3-12-57, Cl. 43-121.
- Johnson, Clyde M. Sanitary filtered medicated hot water bags. 2,777,444, 1-15-57, Cl. 129-227.
- Johnson Corp.: *See*—
 Monroe, Rollo O. 2,791,449.
- Johnson, Curt I., to International Business Machines Corp. Method and apparatus for winding potentiometers. 2,801,805, 8-6-57, Cl. 242-9.
- Johnson, David G., and J. Mayer, to Fenestra Inc. Apparatus for applying screening material to frames. 2,804,101, 8-27-57, Cl. 140-109.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Trigger switch with lock-on and interlock. 2,789,170, 4-16-57, Cl. 200-50.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Multi-position rotary switch. 2,790,861, 4-30-57, Cl. 200-6.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Front operated disconnect switch mechanism. 2,800,547, 7-23-57, Cl. 200-77.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Rotary multi-position switch. 2,802,911, 8-13-57, Cl. 200-11.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Manually releasable locking means for axially movable electric switch shafts. 2,810,050, 10-15-57, Cl. 200-169.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Trigger switch with automatic kick-off. 2,810,051, 10-15-57, Cl. 200-169.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Rotary electric switch for multiple circuit control. 2,817,722, 12-24-57, Cl. 200-11.
- Johnson, Douglas O.: *See*—
 Stinson, Frank V., and Johnson. 2,807,926.
- Johnson, E. F., Co.: *See*—
 Pichitino, Albert M. 2,806,999.
- Johnson, E. Melvin, and R. Tripp, to the United States of America as represented by the Secretary of the Navy. Remote control fuze removing device. 2,815,565, 12-10-57, Cl. 29-240.
- Johnson, Ed C. Manually variable trolling plate for outboard motors. 2,787,974, 4-9-57, Cl. 115-18.
- Johnson, Edward O.: *See*—
 Malter, Louis, Johnson, and Webster. 2,792,527.
 Olmstead, John A., and Johnson. 2,777,966.
- Johnson, Edward O., and W. M. Webster, Jr., to Radio Corp. of America. Phototube circuit. 2,782,320, 2-19-57, Cl. 250-214.
- Johnson, Edwin H., to Jandor Inc. Apparatus for making finned tubing. 2,779,883, 1-29-57, Cl. 153-64.5.
- Johnson, Edwin H. Metal crimping tool. 2,811,065, 10-29-57, Cl. 81-15.
- Johnson, Eleanor De Haas: *See*—
 Johnson, Ervin G. 2,795,750.
- Johnson, Ellsworth T., to Deere & Co. Tractor mounted reciprocating mowing assembly mounting means. 2,787,879, 4-9-57, Cl. 56-25.
- Johnson, Ellsworth T., and P. H. Westerlund, to Deere & Co. Tractor mounted mower assembly with counterbalancing and overload release means. 2,793,483, 5-28-57, Cl. 56-25.
- Johnson, Elmer C., to The Vendo Co. Sequential feeding mechanism for vertically stacked cylindrical articles in side-by-side magazines. 2,814,417, 11-26-57, Cl. 221-67.
- Johnson, Elmer E., and H. A. Francis, to California Research Corp. Oxidation inhibitor for gas odorants. 2,807,592, 9-24-57, Cl. 252-408.
- Johnson, Elmer L. Dust-pan. 2,782,615, 2-26-57, Cl. 65-20.
- Johnson, Emmett F.: *See*—
 O'Neil, Conway F., and Johnson. 2,810,427.
- Johnson, Emory L. Aiding pollination of alfalfa. 2,807,911, 10-1-57, Cl. 47-58.
- Johnson, Erik A.: *See*—
 Stalhandske, David G., and Johnson. 2,781,585.
- Johnson, Eric W. Can punch. 2,786,268, 3-26-57, Cl. 30-10.
- Johnson, Ernest H., to The Bullard Co. Lever actuated chuck. 2,809,045, 10-8-57, Cl. 279-118.

- Johnson, Ernest O. : *See*—
Kolar, Robert F., and Johnson. 2,794,184.
- Johnson, Ernest W., to Metal & Thermit Corp. Organo tin compounds and compositions containing same. 2,801,258, 7-30-57, Cl. 260—429.7.
- Johnson, Ervin G., deceased; E. D. H. Johnson, executrix. Alternating current machinery. 2,795,750, 6-11-57, Cl. 318—197.
- Johnson, Erving. Excavator attachment for tractor. 2,815,137, 12-3-57, Cl. 214—138.
- Johnson, Evan A., Jr., to American Messer Corp. Process and apparatus for storing and shipping liquefied gases. 2,784,560, 3-12-57, Cl. 62—1.
- Johnson, Everett A. Duplicating and affixing method. 2,783,910, 3-5-57, Cl. 216—62.
- Johnson, Ewald E. Three wire circuit adapter. 2,802,192, 8-6-57, Cl. 339—166.
- Johnson-Fagg Engineering Co. : *See*—
Fagg, Leo W., and Sharp. 2,806,721.
- Johnson Fare Box Co. : *See*—
Rogier, Clarence F., Kulo, Singer, and Nero. 2,804,737.
- Johnson, Fay G. : *See*—
Miller, Albert R. 2,787,279.
- Johnson, Flaven E. : *See*—
Krell, Max W., and Johnson. 2,798,090.
- Johnson, Frank B., W. M. Smith, and J. E. Moise, to Esso Research and Engineering Co. Sulfur-free oxo alcohols. 2,778,859, 1-22-57, Cl. 260—638.
- Johnson, Frank G. : *See*—
Waldorf, Lindsey E., and Wiseman. 2,790,171.
- Johnson, Frank J., to O. A. Johnson. Bomb rack. 2,809,557, 10-15-57, Cl. 89—15.
- Johnson, Fred L. Hand printer. 2,794,394, 6-4-57, Cl. 101—375.
- Johnson Gas Appliance Co. : *See*—
Johnson, Charles W. Re. 24,295.
- Johnson, George W., to Fenlid Engineering Co. Backstand idler. 2,804,726, 9-3-57, Cl. 51—148.
- Johnson, George W. S. : *See*—
Ruskin, Robert E., and Johnson. 2,799,164.
- Johnson, Glenn D., and W. J. Williams, to Joy Mfg. Co. Collet means for turning long work-pieces. 2,788,887, 4-16-57, Cl. 203—115.
- Johnson, Glenn D., and E. R. Lindgren, to Joy Mfg. Co. Sheave block construction. 2,800,300, 7-23-57, Cl. 254—194.
- Johnson, Gordon, Equipment Co. : *See*—
Zebarth, Ralph S. 2,779,052.
Zebarth, Ralph S. 2,790,199.
Zebarth, Ralph S. 2,790,200.
Zebarth, Ralph S. 2,814,408.
- Johnson, Gustave A., to International Harvester Co. Rotary hoe wheel. 2,796,819, 6-25-57, Cl. 97—212.
- Johnson, Harold L. Actuating mechanism for an adjustable slat awning. 2,791,008, 5-7-57, Cl. 20—57.5.
- Johnson, Harry L. Tracer guide. 2,800,838, 7-30-57, Cl. 90—13.
- Johnson, Harry L., Jr. : *See*—
Worley, Marvin S., Johnson, and Keel. 2,812,827.
- Johnson, Harry N. : *See*—
Baehr, Carl G., and Johnson. 2,804,035.
- Johnson, Harwick, to Radio Corp. of America. Semiconductor phase shift oscillator and device. 2,816,228, 12-10-57, Cl. 250—36.
- Johnson, Henry E., and C. M. Hatlie. Straightening tool for upper control arm. 2,781,679, 2-19-57, Cl. 81—15.
- Johnson, Henry E., and C. M. Hatlie. Upper control arm straightener. 2,781,680, 2-19-57, Cl. 81—15.
- Johnson, Henry V., and C. W. Smith, to Westinghouse Electric Corp. Tap changers. 2,813,159, 11-12-57, Cl. 200—17.
- Johnson, Herbert B., and C. G. Boss, to The Quaker Oats Co. Method for separating asbestos from its ores. 2,813,626, 11-19-57, Cl. 209—2.
- Johnson, Herbert L. : *See*—
Bartlett, Shirley C., Johnson, and Stuart. 2,808,423.
- Johnson, Herman K., to The Bastian-Blessing Co. Soda fountain. 2,814,184, 11-26-57, Cl. 62—7.
- Johnson Hinge Co., Inc. : *See*—
Burton, Robert A. 2,797,737.
- Johnson, Hcbart M. : *See*—
Underwood, Kenneth C., and Johnson. 2,793,273.
- Johnson and Hoffman Mfg. Corp. : *See*—
Johnson, Jay H. 2,810,851.
- Johnson, Holland F. : *See*—
Wilde, Frederick G., and Johnson. 2,797,793.
- Johnson, Horace L., to Townsend Co. Rivet forming machine having opposed punches and an indexible blank carrier. 2,786,217, 3-26-57, Cl. 10—13.
- Johnson, Horace R. : *See*—
Brewer, George R., Johnson, and Birdsall. 2,811,663.
- Johnson, Horace R., to Hughes Aircraft Co. Transition from bifilar helix to waveguide for backward wave oscillator. 2,806,975, 9-17-57, Cl. 315—3.6.
- Johnson, Horace R., and D. A. Watkins, to Hughes Aircraft Co. Travelling-wave tube. 2,809,321, 10-8-57, Cl. 315—3.6.
- Johnson, Howard, Electrostatics & Electronics, Inc. : *See*—
Johnson, Howard R. 2,815,024.
- Johnson, Howard R., to Howard Johnson Electrostatics & Electronics, Inc. Ampule. 2,815,024, 12-3-57, Cl. 128—272.
- Johnson, Hugh B. : *See*—
Weller, Warren C., and Johnson. 2,781,110.
- Johnson, Irvin H., to A. A. Abraham, Gliders. 2,817,185, 12-24-57, Cl. 46—79.
- Johnson, James F., to Sinclair Oil & Gas Co. Prospecting system. 2,794,177, 5-28-57, Cl. 340—15.
- Johnson, James W. : *See*—
Compton, William A., Johnson, and Paetz. 2,778,344.
Wales, Nathaniel B., Jr., and Johnson. 2,807,210.
- Johnson, James W., to Blaw-Knox Co. Road construction machine. 2,779,258, 1-29-57, Cl. 94—46.
- Johnson, Jay H., to Johnson and Hoffman Mfg. Corp. Electrodes for electron gun units. 2,810,851, 10-22-57, Cl. 313—82.
- Johnson, Jay P., to The Swartwout Co. Roof ventilator. 2,784,660, 3-12-57, Cl. 98—42.
- Johnson, Jay P., to The Swartwout Co. Smoke exhaust apparatus. 2,814,979, 12-3-57, Cl. 98—42.
- Johnson, Johan S., to Bigelow-Garvey Lumber Co. Two-way collapsible container. 2,808,956, 10-8-57, Cl. 217—48.
- Johnson, John. Adhesive applicator. 2,789,729, 4-23-57, Cl. 222—108.
- Johnson, John A., to Thermal Research and Engineering Corp. High capacity fluid heater. 2,790,435, 4-30-57, Cl. 126—109.
- Johnson, John E. : *See*—
De Cowsky, George N., De Marco, and Johnson. 2,803,602.
- Johnson, John F., to Esso Research and Engineering Co. Recovery of cycloidiene monomers. 2,813,134, 11-12-57, Cl. 260—666.
- Johnson, John F., and H. W. Scheeline, to Esso Research and Engineering Co. Multi-stage cycloidiene dimerizing process. 2,813,135, 11-12-57, Cl. 260—666.
- Johnson, John G., and E. H. Fletcher, to Deere Mfg. Co. Quick disconnect fluid line coupling. 2,783,064, 2-26-57, Cl. 285—1.
- Johnson, John G. A. Apparatus for treating concrete. 2,793,278, 7-9-57, Cl. 25—41.
- Johnson, John M. Lifting apparatus mounted on a portable dolly. 2,806,613, 9-17-57, Cl. 214—1.
- Johnson, John M. Dolly for handling single and dual truck wheels. 2,806,615, 9-17-57, Cl. 214—333.
- Johnson, John R. Simulated log building. 2,787,029, 4-2-57, Cl. 20—4.
- Johnson & Johnson : *See*—
Belden, William P. 2,789,640.
Bilane, Roland B. 2,804,300.
Blackford, Benjamin B. 2,795,521.
Castelli, Charles. 2,802,527.
Ganz, Henry. 2,794,479.
Ganz, Henry. 2,794,482.
George, William L., and Eberl. 2,817,437.
Hawthorne, Kenneth B., Hanlon, Schladermundt, Metzler, and Wark. 2,790,609.
Heffernan, William K. 2,805,664.
Masci, Joseph N. 2,809,879.
Mesek, Fred K. 2,803,125.
Toellner, Howard C. 2,817,090.
- Johnson, Karl G., to Telefonaktiebolaget L M Ericsson. Device for connection of markers in automatic telephone systems. 2,777,014, 1-8-57, Cl. 179—18.
- Johnson, Keith S. : *See*—
Baseman, Maurice S., Johnson, and Baseman. 2,784,104.
- Johnson, Kenneth C. : *See*—
Lawson, Gustaf R., and Johnson. 2,784,305.
- Johnson, Kenneth C. to General Electric Co. Centrifugal mechanism. 2,797,080, 6-25-57, Cl. 264—15.
- Johnson, Kenneth C., to National Research Development Corp. Electric signal synchronising apparatus. 2,797,378, 6-25-57, Cl. 318—302.
- Johnson, Kenneth R. Safety belt. 2,798,539, 7-9-57, Cl. 155—189.
- Johnson, Kenneth S. : *See*—
Ellsworth, Ivan W., and Johnson. 2,817,279.
- Johnson, Kenneth W. Vibration isolator. 2,778,628, 1-22-57, Cl. 267—1.
- Johnson, Kenneth W. Vibration dampener. 2,778,629, 1-22-57, Cl. 267—1.
- Johnson, Lauren L., to General Motors Corp. Ward Leonard speed control system. 2,783,425, 2-26-57, Cl. 318—146.
- Johnson, Lauren L., to General Motors Corp. Electrical control system. 2,786,170, 3-19-57, Cl. 318—146.
- Johnson, Lealand H., and W. W. Tull. Electric can opener with switch in base. 2,785,460, 3-19-57, Cl. 30—4.
- Johnson, Leonard W., to The Bailey Co., Inc. Panel crating structures. 2,792,936, 5-21-57, Cl. 206—60.
- Johnson, Le Roy E., to The Upjohn Co. Process for producing erythromycin. 2,809,151, 10-8-57, Cl. 195—80.
- Johnson, Leslie E. : *See*—
Plahn, Donald E. 2,777,205.
- Johnson, Leslie R. Control circuit. 2,802,142, 8-6-57, Cl. 315—80.
- Johnson, Leslie W. : *See*—
Oehler, William P., and Johnson. 2,808,181.
Oehler, William P., Youngberg, and Johnson. 2,793,880.
- Johnson, Lester L., and C. W. Downs. Tool setting gauge. 2,777,210, 1-15-57, Cl. 33—185.
- Johnson, Lewis L. : *See*—
Popkess, William R., and Johnson. 2,804,197.

- Johnson, Lloyd A., D. A. Christensen, and A. D. Martin, to Federal-Mogul-Bower Bearings, Inc. Mechanical journal lubricators. 2,782,077, 2-19-57, Cl. 308-91.
- Johnson, Lloyd T. Hydraulically operated land leveler. 2,787,066, 4-2-57, Cl. 37-153.
- Johnson, Louis, Products Co., Inc., The: *See*—
Odin, Eugene A. 2,781,202.
- Johnson, Louis W. Crushing jaws and anvils for rock-crushing machines. 2,816,717, 12-17-57, Cl. 241-300.
- Johnson, Lowell E., and G. Musat, to The Babcock & Wilcox Co. Gas igniter for pulverized coal burners. 2,777,512, 1-15-57, Cl. 158-115.
- Johnson, Loyd C. Transom adjuster. 2,803,319, 8-20-57, Cl. 189-71.
- Johnson, M. J., Aircraft Engineering Co.: *See*—
Borchardt, Walter O. 2,793,541.
- Johnson, Malcolm O.: *See*—
Lee, John A., Barclay, and Johnson. 2,776,014.
Murphy, John, Gournay, and Johnson. 2,794,338.
- Johnson, Malcolm S., and F. Jensen, to Illinois Railway Equipment Co. Lading tie anchors. 2,803,201, 8-20-57, Cl. 405-369.
- Johnson, Martin A., to Pride Washroom Service. Odorant dispenser. 2,802,695, 8-13-57, Cl. 299-24.
- Johnson, Merriam E.: *See*—
Warren, Horace G., and Johnson. 2,781,588.
- Johnson, Michael S., and E. A. Gasser, to Ford Motor Co. Vehicle speedometer drive. 2,793,532, 5-28-57, Cl. 74-12.
- Johnson, Miles C., and W. W. Weinstock, to Radio Corp. of America. Storage tube. 2,818,523, 12-31-57, Cl. 315-12.
- Johnson, Myron A. C. Airplane bombing game. 2,791,427, 5-7-57, Cl. 273-95.
- Johnson, Nils. Nail driving tool. 2,796,608, 6-25-57, Cl. 1-46.
- Johnson, Norman W., O. E. Harder, and C. S. Du Mont, to Wilbur B. Driver Co. Age-hardenable, copper-base alloy. 2,783,143, 2-26-57, Cl. 75-159.
- Johnson, Olaf A.: *See*—
Carlsen, Leonard O., and Johnson. 2,814,166.
- Johnson, Olaf A., and L. O. Carlsen, to The Gleason Works. Checking device. 2,811,781, 11-5-57, Cl. 33-174.
- Johnson, Oliver W., to Johnson-Williams, Inc. Gas detection apparatus. 2,786,350, 3-26-57, Cl. 73-27.
- Johnson, Oscar A.: *See*—
Johnson, Frank J. 2,809,557.
- Johnson, Oscar A. Swiveling blade-guide attachment for contour sawing machines. 2,782,811, 2-26-57, Cl. 143-17.
- Johnson, Oscar I. Illuminated Christmas tree ornament. 2,784,306, 3-5-57, Cl. 240-10.
- Johnson, Oscar H.: *See*—
Edwards, Stephen P., Johnson, Reed, and Wilson. 2,802,717.
- Johnson, Oren F., Johnson, and Graham. 2,796,376.
- Johnson, Parker L. Baby cover holder. 2,817,853, 12-31-57, Cl. 5-320.
- Johnson, Paul B.: *See*—
Clary, Hugh L., Johnson, and Morgenroth. 2,809,609.
- Johnson, Paul D.: *See*—
Drapeau, Joseph E., Jr., and Johnson. 2,817,579.
- Johnson, Paul E., Jr., and F. C. Owenby, to Shamrock Knitting Mills, Inc. Novelty hosiery. 2,805,424, 9-10-57, Cl. 2-240.
- Johnson, Paul G. Spring removing and applying tool. 2,811,772, 11-5-57, Cl. 29-227.
- Johnson, Paul H., to The Firestone Tire & Rubber Co. Freeze resistant aqueous polymer containing paint. 2,802,799, 8-13-57, Cl. 260-297.
- Johnson, Paul V.: *See*—
Monk, Clarence B., Alsterda, Young, and Johnson. 2,777,184.
- Johnson, Robert B., and Johnson. 2,778,491.
- Johnson, Peter D., to Iron Fireman Mfg. Co. Electric power demand controllers. 2,784,322, 3-5-57, Cl. 307-39.
- Johnson, Peter D., to General Electric Co. Photoflash lamps. 2,813,411, 11-19-57, Cl. 67-31.
- Johnson, Peter D., to General Electric Co. Photoflash lamps. 2,813,412, 11-19-57, Cl. 67-31.
- Johnson & Phillips Ltd.: *See*—
Graham, David. 2,792,930.
Hartley, Arthur C., and Ashby. 2,812,640.
Richards, James V. W., and Benford. 2,803,692.
- Johnson Products, Inc.: *See*—
Bergmann, Paul F. 2,804,060.
Humphreys, John W. 2,784,706.
- Johnson, Quentin S., and W. H. Carr, to the United States of America as represented by the Secretary of the Army. Precision engraving instrument. 2,810,960, 10-29-57, Cl. 33-18.
- Johnson, Ralph E., to The Singer Mfg. Co. Safety latches. 2,809,874, 10-15-57, Cl. 311-12.
- Johnson, Ralph M. W., to Hughes Aircraft Co. Shunt gating circuit. 2,817,015, 12-17-57, Cl. 250-27.
- Johnson, Rayner S.: *See*—
Cummins, Earl W., and Johnson. 2,799,700.
- Johnson, Reginald F.: *See*—
Baumgarten, Werner, and Johnson. 2,801,956.
- Johnson, Reynold B., to International Business Machines Corp. Wire printer. 2,785,627, 3-19-57, Cl. 101-93.
- Johnson, Reynold B., to International Business Machines Corp. Record punching machine. 2,792,891, 5-21-57, Cl. 164-115.
- Johnson, Reynold B., to International Business Machines Corp. Record card punching machine. 2,796,127, 6-18-57, Cl. 164-112.
- Johnson, Reynold B., to International Business Machines Corp. Document reading device. 2,801,343, 7-30-57, Cl. 250-234.
- Johnson, Reynold B., to International Business Machines Corp. Wire printer. 2,802,414, 8-13-57, Cl. 101-93.
- Johnson, Reynold B., to International Business Machines Corp. Storage medium. 2,810,900, 10-22-57, Cl. 340-173.
- Johnson, Reynold B., and R. C. Goodman, to International Business Machines Corp. Card punching machines of the setup type. 2,792,892, 5-21-57, Cl. 164-115.
- Johnson, Richard C., to The Powell Pressed Steel Co. Material handling box with return chute. 2,780,393, 2-5-57, Cl. 222-185.
- Johnson, Richard C., to The Powell Pressed Steel Co. Bottom dumping material handling box. 2,788,144, 4-9-57, Cl. 214-317.
- Johnson, Richard H., to The Upjohn Co. Stable hydrocortisone solution. 2,793,159, 5-21-57, Cl. 167-77.
- Johnson, Richard N., and A. J. Brame, to The Plomb Tool Co. Magnetic control means for predetermined torque release wrench. 2,791,141, 5-7-57, Cl. 81-52.4.
- Johnson, Robert A.: *See*—
Stewart, Aubrey P., Jr., Wilcox, and Johnson. 2,788,283.
- Johnson, Robert A., to Aseptic Food Fillers, Inc. Filling head. 2,787,875, 4-9-57, Cl. 53-266.
- Johnson, Robert E., to Jervis Corp. Refrigerator and latch mechanism therefor. 2,789,023, 4-16-57, Cl. 312-291.
- Johnson, Robert H.: *See*—
Darrow, Kenneth A., and Johnson. 2,814,431.
- Johnson, Robert H., to Ingersoll-Rand Co. Impact wrench. 2,808,916, 10-8-57, Cl. 192-30.5.
- Johnson, Robert N. Detachable hardware for burial vaults. 2,810,947, 10-29-57, Cl. 27-35.
- Johnson, Robert P.: *See*—
Ashenfelder, Warren E., Johnson, and Wilcox. 2,799,975.
- Johnson, Robert R., to Hughes Aircraft Corp. Electronic circuits for complementing binary-coded decimal numbers. 2,799,450, 7-16-57, Cl. 235-61.
- Johnson, Robert R., to Tectron Inc. Ratio and product meter. 2,806,994, 9-17-57, Cl. 324-53.
- Johnson, Robert S.: *See*—
Hill, Harry O., and Johnson. 2,784,708.
- Johnson, Robert T.: *See*—
Lo Cicero, Joseph C., and Johnson. 2,793,211.
Lo Cicero, Joseph C., and Johnson. 2,817,686.
- Johnston, Robert T., to Northrop Aircraft, Inc. Exhaust actuated missile exit door. 2,816,483, 12-17-57, Cl. 89-1.7.
- Johnson, Robert W., Jr.: *See*—
Beck, Gasper P., Johnson, and Korsgaard. 2,816,312.
Beck, Gasper P., Johnson, Korsgaard, and Nydegger. 2,816,311.
Beck, Gasper P., Johnson, Korsgaard, and Nydegger. 2,816,313.
- Johnson, Roger B. Check list mechanisms. 2,813,504, 11-19-57, Cl. 116-135.
- Johnson, Rolande F. Bottle suspending device. 2,793,901, 5-28-57, Cl. 294-27.
- Johnson, Ronald E., and H. W. Weber, Jr. Illusion device. 2,807,467, 9-24-57, Cl. 272-8.
- Johnson, Ross H. Ladder step stand. 2,805,104, 9-3-57, Cl. 304-31.5.
- Johnson, Royce E., to Barber-Colman Co. Control apparatus for alternating current motors. 2,818,539, 12-31-57, Cl. 318-211.
- Johnson Rubber Co., The: *See*—
Farmwald, John A., and Johnson. 2,816,608.
- Johnson, S. C., & Son, Inc.: *See*—
Geen, Henry C., and Quist. 2,812,263.
Pressing, Robert W., and Lavers. 2,804,271.
Seyfried, Arthur W. 2,800,372.
Wilder, Edward A. 2,806,827.
- Johnson, Samuel C., to Dearborn Chemical Co. Method of cleaning railway cars and the like. 2,801,941, 8-6-57, Cl. 134-27.
- Johnson, Sidney P. Chance game device. 2,794,644, 6-4-57, Cl. 273-147.
- Johnson, Sidney P., and H. Browning. Adaptable coupling for threads of various pitches. 2,809,549, 10-15-57, Cl. 85-32.1.
- Johnson, Smith M.: *See*—
Farmwald, John A., and Johnson. 2,816,608.
- Johnson, Stanley A., to Polytechnic Research & Development Co., Inc. Radio wave tuners. 2,788,447, 4-9-57, Cl. 250-36.
- Johnson, Stanley A., to Polytechnic Research & Development Co., Inc. Apparatus for vacuum coating electrical resistors. 2,816,523, 12-17-57, Cl. 118-8.
- Johnson, Stewart H. Table supported article holder. 2,807,371, 9-24-57, Cl. 211-88.
- Johnson, Theodore T., R. W. McFall, and R. W. Samsel, to the United States of America as represented by the Secretary of the Air Force. Coordinate system translator. 2,817,831, 12-24-57, Cl. 343-7.
- Johnson, Theodore W., and G. D. Hunter, to Deere Mfg. Co. Drive-in cultivator support for tractors. 2,777,377, 1-15-57, Cl. 97-47.15.

- Johnson, Thomas C. Golf putting game. 2,810,580, 10-22-57, Cl. 273-180.
- Johnson, Thomas D., and M. G. Sateren, to the United States of America as represented by the Secretary of the Navy. Lead network for servo-mechanisms with A. C. carrier voltage. 2,785,306, Cl. 250-27.
- Johnson, Thomas J.: *See*—
- Landee, Robert W., Hayes, Deen, and Johnson. 2,796,603.
- Johnson, Thomas W., to Bendix Aviation Corp. Tank submerged air driven fuel pumping system. 2,785,635, 3-19-57, Cl. 103-87.
- Johnson, Thomas W., and R. H. Wolff, to Bendix Aviation Corp. Pump assembly and means for cooling the bearings thereof. 2,803,194, 8-20-57, Cl. 103-87.
- Johnson, Tom R. Combined dry chemical dissolver and feeder. 2,802,724, 8-13-57, Cl. 23-267.
- Johnson, Tomlinson F. Apparatus for operating high tension electric switches. 2,794,871, 6-4-57, Cl. 200-48.
- Johnson, Victor C. Turret head machine tool. 2,783,526, 3-5-57, Cl. 29-45.
- Johnson, Victor C. Turret attachment for lathes. 2,783,664, 3-5-57, Cl. 77-25.
- Johnson, Wallace M., to General Electric Co. Four leg magnetic core. 2,780,786, 2-5-57, Cl. 336-212.
- Johnson, Wallace M., and S. B. Williams, to General Electric Co. Transformer with five-leg core. 2,779,926, 1-29-57, Cl. 336-5.
- Johnson, Walter A. Fishing device. 2,804,713, 9-3-57, Cl. 43-42.2.
- Johnson, Walter H. Fire alarm actuator. 2,782,746, 2-26-57, Cl. 116-101.
- Johnson, Walter H. Steering mechanism for toys. 2,803,090, 8-20-57, Cl. 46-213.
- Johnson, Walter L. Tool for removing and installing vehicle fans. 2,779,090, 1-29-57, Cl. 29-267.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Plural track magnetic reproducing apparatus. 2,813,927, 11-19-57, Cl. 178-6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Magnetic-tape drop-out compensator. 2,816,162, 12-10-57, Cl. 178-6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Reproducing for recorded television signals. 2,817,701, 12-24-57, Cl. 178-6.6.
- Johnson, Werner E., to Hough Mfg. Corp. Accordion doors. 2,782,845, 2-26-57, Cl. 160-84.
- Johnson, Wilbert E.: *See*—
- Beale, Dorrr D., Johnson, and Allen. 2,811,182.
- Johnson, Wilbur L. Cleansing tissue holder. 2,818,318, 12-31-57, Cl. 311-103.
- Johnson, Willard P. Ladder attachment for clamping a ladder to a pole or limb. 2,778,556, 1-22-57, Cl. 228-60.
- Johnson, William. Machine for forming feed pellets. 2,782,736, 2-26-57, Cl. 107-14.
- Johnson, William A. Hand anvil. 2,786,375, 3-26-57, Cl. 81-15.
- Johnson, William B., to The M. W. Kellogg Co. Contacting solids and gases. 2,799,359, 7-16-57, Cl. 183-114.2.
- Johnson, William B., and E. A. Weinman, to The M. W. Kellogg Co. Treatment of residual oils. 2,799,626, 7-16-57, Cl. 196-52.
- Johnson, William K., to Monsanto Chemical Co. Nematocide. 2,799,616, 7-16-57, Cl. 167-33.
- Johnson, William K., and T. L. Patton, to Monsanto Chemical Co. Herbicidal halobicycloheptenediol carbonates. 2,799,567, 7-16-57, Cl. 71-2.5.
- Johnson, William N., to Minneapolis-Honeywell Regulator Co. Combined torque and pick-off. 2,814,743, 11-26-57, Cl. 310-36.
- Johnson, William S. Apparatus for dyeing textile materials. 2,813,416, 11-19-57, Cl. 68-184.
- Johnson, William S., B. Bannister, and E. R. Rogier, to Wisconsin Alumni Research Foundation. Steroid and intermediate compounds. 2,810,758, 10-22-57, Cl. 260-586.
- Johnson, William T. M., to E. I. du Pont de Nemours and Co. Methyl methacrylate lacquer coated metal article and process therefor. 2,782,131, 2-19-57, Cl. 117-74.
- Johnson, William T. M., to E. I. du Pont de Nemours and Co. Methyl methacrylate lacquer coated metal article and process therefor. 2,782,132, 2-19-57, Cl. 117-74.
- Johnson, William V.: *See*—
- Diggs, Louise S., and Johnson. 2,777,246.
- Johnson-Williams, Inc.: *See*—
- Johnson, Oliver W. 2,786,350.
- Johnston, Alan H., to Aluminum Laboratories Ltd. Electrolytic apparatus. 2,785,121, 3-12-57, Cl. 204-247.
- Johnston, Charles R., to Transportation Specialties Co. Freight positioning and retaining apparatuses. 2,806,436, 9-17-57, Cl. 105-369.
- Johnston, Charles R., to Transportation Specialties Co. Lawn edger. 2,809,809, 10-15-57, Cl. 256-21.
- Johnston, Danal W., to Hartzell Industries, Inc. Hot air furnace type drying apparatus. 2,776,654, 1-8-57, Cl. 126-110.
- Johnston, Donald L.: *See*—
- Anderson, Roger N., and Johnston. 2,802,176.
- Johnston, Douglas: *See*—
- Horton, Donelson B., and Johnston. 2,811,108.
- Johnston, Douglas, to John Blue Co., Inc. Reversible check valve. 2,804,086, 8-27-57, Cl. 137-329.02.
- Johnston, Douglas, to John Blue Co., Inc. System for metering a gassing liquid. 2,808,786, 10-8-57, Cl. 103-203.
- Johnston, Edward G., to Texaco Development Corp. Continuous rotary filter. 2,791,334, 5-7-57, Cl. 210-395.
- Johnston, Edward J.: *See*—
- Collins, William F., and Johnston. 2,817,942.
- Johnston, Eugene E., to The Patent and Licensing Corp. Apparatus for applying coatings or mastics to flexible webs. 2,813,506, 11-19-57, Cl. 118-101.
- Johnston, Greenhow, to Temple Safety on Sea Mfg. Co. Inc. Fire fighting suits. 2,803,826, 8-27-57, Cl. 2-81.
- Johnston, Greenhow, to Temple Safety on Sea Mfg. Co., Inc. Nozzles for water hose. 2,804,338, 8-27-57, Cl. 299-59.
- Johnston, Hal C.: *See*—
- Baker, Marshall W., Henney, and Johnston. 2,779,162.
- Johnston, Harold C., to I. S. and R. S. McConnell, copartners doing business under the firm name and style of The Desmond-Stephan Mfg. Co. Dressing tool. 2,817,103, 12-24-57, Cl. 15-27.
- Johnston, Howard, to The Dow Chemical Co. Thiapyrylium and thiophenium compounds. 2,794,026, 5-28-57, Cl. 260-327.
- Johnston, Howard, to The Dow Chemical Co. 1-chloro-4-iodo-2-butene. 2,808,444, 10-1-57, Cl. 260-654.
- Johnston, Howard, to The Dow Chemical Co. Penta-chlorophenylthio-2,3-dibromopropionaldehyde. 2,809,997, 10-15-57, Cl. 260-599.
- Johnston, Hugh W., to Union Carbide and Carbon Corp. Alkylation of phenol with acrylonitrile. 2,789,995, 4-23-57, Cl. 260-465.
- Johnston, James W. Interlocking dovetailed connectors. 2,793,407, 5-28-57, Cl. 20-92.4.
- Johnston, John G. Jet powered adjustable pitch helicopter rotor. 2,818,122, 12-31-57, Cl. 170-135.4.
- Johnston, John G. Helicopter blade mounting mechanism. 2,818,124, 12-31-57, Cl. 170-160.57.
- Johnston, Joseph L., to the United States of America as represented by the Secretary of the Army. Feed switch. 2,814,235, 11-26-57, Cl. 89-135.
- Johnston, Joseph M., to the United States of America as represented by the Secretary of the Army. Radiac survey meter. 2,818,509, 12-31-57, Cl. 250-83.6.
- Johnston, Leith, and R. C. Stiles, to Automatic Electric Laboratories, Inc. Tape measuring device for a teletype-writer message storing unit. 2,782,254, 2-19-57, Cl. 178-17.
- Johnston, Ralph L., and R. L. Rulison, to Bell Telephone Laboratories, Inc. Electrical contacts to silicon. 2,793,420, 5-28-57, Cl. 29-155.5.
- Johnston, Robert W. B., and T. P. Wier, Jr., to Shell Development Co. Production of lubricating oil. 2,796,754, 4-30-57, Cl. 196-52.
- Johnston, Rodney M., to General Motors Corp. Temperature responsive actuating devices. 2,778,576, 1-22-57, Cl. 236-99.
- Johnston, Rowland W., Jr., and A. M. Shook, to The Texas Co. Testing underground storage cavities. 2,792,708, 5-21-57, Cl. 73-149.
- Johnston, Stephen E., to North American Aviation, Inc. Destructible cover for fragile dome. 2,782,716, 2-26-57, Cl. 102-56.
- Johnston Testers, Inc.: *See*—
- Garrison, Marlon A. 2,816,440.
- Long, Thomas L. 2,799,224.
- Long, Thomas L. 2,815,080.
- Long, Thomas L., and Ansite. 2,797,759.
- Moosman, Jack A. 2,792,896.
- Johnston, William A., to Westinghouse Electric Corp. Apparatus for washing and drying fabrics. 2,813,414, 11-19-57, Cl. 68-20.
- Johnston, William F. Trolling device. 2,814,150, 11-26-57, Cl. 43-43.13.
- Johnston, William F. Piano teaching device. 2,814,230, 11-26-57, Cl. 84-478.
- Johnston, William R.: *See*—
- Reich, Ismar M., and Johnston. 2,788,276.
- Johnstone, Alexander P.: *See*—
- Probert, Rhys P., and Johnstone. 2,797,549.
- Johnstone, Ben B.: *See*—
- Clemens, John E., and Johnstone. 2,804,403.
- Johnstone, David M.: *See*—
- Edwards, Baden J., and Johnstone. 2,804,803.
- Johnstone, Henry F., and W. E. West, Jr., to Texas Gulf Sulphur Co. Recovery of sulfur dioxide from gases and production of ammonium sulphate. 2,810,627, 10-22-57, Cl. 23-119.
- Johnstone, John H., Jr., to Bendix Aviation Corp. Spark gap. 2,778,967, 1-22-57, Cl. 313-148.
- Johnstone, Theodore H., to Houdaille Industries, Inc. Deck latch. 2,806,727, 9-17-57, Cl. 292-216.
- Joiner, Edgar E., Jr., to United Shoe Machinery Corp. Machines for forming attaching faces of wedge heels. 2,805,693, 9-10-57, Cl. 144-145.
- Joiner, Edgar E., Jr., to United Shoe Machinery Corp. Dowels for use in heel blocks and the like. 2,816,374, 12-17-57, Cl. 36-34.
- Joint Saw Co.: *See*—
- Lewis, William H. 2,782,017.
- Jolley, Fred R., to Simon Handling Engineering Ltd. Pneumatic conveying plants. 2,791,470, 5-7-57, Cl. 302-58.

- Jolley, Fred R., to Simon Handling Engineers Ltd. Pneumatic collecting and conveying devices. 2,793,086, 5-21-57, Cl. 302-58.
- Jolly, Richard N., to Esso Research and Engineering Co. Lock-in geophone for boreholes. 2,786,987, 3-26-57, Cl. 340-17.
- Jolly, Samuel E., to Sun Oil Co. Method of refining naphthenic acids. 2,802,867, 8-13-57, Cl. 260-514.
- Jolly, Samuel E., to Sun Oil Co. Inhibiting corrosion by oil well fluids. 2,818,383, 12-31-57, Cl. 252-8.55.
- Jonas, Frank D., to Oxford Filing Supply Co., Inc. Suspension file folder. 2,800,907, 7-30-57, Cl. 129-16.
- Jonas, Jerry J. Footgear. 2,810,213, 10-22-57, Cl. 36-1.
- Jonas, John J., to National Dairy Products Corp. Aldonyl amides of amino acid esters. 2,785,152, 3-12-57, Cl. 260-112.
- Jonas, Joseph Q. Vaginal speculums. 2,809,628, 10-15-57, Cl. 128-17.
- Jonas, Samuel S. Upholstered furniture for seating, such as chairs or couches. 2,801,676, 8-6-57, Cl. 155-112.
- Jonasson, Axel V., and W. R. Gorniak. Support for a Christmas tree. 2,812,916, 11-12-57, Cl. 248-44.
- Jones, Alvin J., to Landis Tool Co. Centerless grinding machine with feed control. 2,801,499, 8-6-57, Cl. 51-103.
- Jones, Alvin J., and H. E. Balsiger, to Landis Tool Co. Valve grinder. 2,782,565, 2-26-57, Cl. 51-37.
- Jones, Alvin J., and H. E. Balsiger, to Landis Tool Co. Machine for grinding ring-like workpieces to accurate size. 2,799,977, 7-23-57, Cl. 51-103.
- Jones, Alvin J., C. E. Tolbert, and R. C. Shuman, to Landis Tool Co. Spider grinder. 2,809,471, 10-15-57, Cl. 51-103.
- Jones, Alvin J., and J. A. Boller, to Landis Tool Co. Work feeding mechanism. 2,814,919, 12-31-57, Cl. 51-215.
- Jones, Arthur B., Jr., to The Fairin Bearing Co. Bearing. 2,779,640, 1-29-57, Cl. 308-187.2.
- Jones, Arthur L.: See—
Hughes, Everett C., Strecker, and Jones. 2,783,185.
- Jones, Arthur L., to The Standard Oil Co. Spacers for thermal diffusion apparatus. 2,790,660, 4-30-57, Cl. 288-20.
- Jones, Aubrey L. Apparatus for distributing pulverulent material. 2,784,974, 3-12-57, Cl. 275-2.
- Jones, Barton. Valve seat. 2,814,458, 11-26-57, Cl. 251-333.
- Jones, Basil: See—
Latta, Edward, and Jones. 2,810,294.
- Jones, Basil E. Method of curing tobacco. 2,798,496, 7-9-57, Cl. 131-140.
- Jones, Benjamin W.: See—
Gorin, Everett, Jones, and Neuwirth. 2,789,144.
- Jones, Carl O., to Midwest Hanger Co. Collapsible wardrobe for doll clothes. 2,801,145, 7-30-57, Cl. 312-259.
- Jones, Catesby P.: See—
Compton, Jack, and Jones. 2,786,258.
Compton, Jack, and Jones. 2,786,735.
- Jones, Cecil T., to Container Corp. of America. Box of foldable sheet material. 2,811,298, 10-29-57, Cl. 229-34.
- Jones, Charles E. Woodworking attachment for drill motors. 2,788,810, 4-16-57, Cl. 143-43.
- Jones, Charles L.: See—
Dyer, Lloyd W., and Jones. 2,795,766.
- Jones, Charles L., to Westinghouse Electric Corp. Circuit breaker contact structure. 2,788,421, 4-9-57, Cl. 200-166.
- Jones, Charles L., to Westinghouse Electric Corp. Solderless connector terminal structure. 2,799,012, 7-9-57, Cl. 339-265.
- Jones, Charles T. A., to Powers-Samas Accounting Machines Ltd. Sensing mechanism for statistical cards. 2,783,944, 3-5-57, Cl. 235-61.11.
- Jones, Clair E. Thermocouple unit for grain temperature measuring equipment. 2,796,455, 6-18-57, Cl. 136-4.
- Jones, Clifford: See—
Perkins, Cyrus C., Jones, and Roche. 2,804,920.
- Jones, Clifford W., to Square D Co. Circuit breaker. 2,806,920, 9-17-57, Cl. 200-116.
- Jones Coal and Coke Co.: See—
Jones, Marshall J. H. 2,809,106.
- Jones, David G., to Imperial Chemical Industries Ltd. Production of terephthalic acid, esters or acid esters. 2,782,225, 2-19-57, Cl. 260-475.
- Jones, David G., to Delapena & Son Ltd. Apparatus for heating toothed or serrated portions of articles by high frequency induction heating. 2,810,054, 10-15-57, Cl. 219-10.59.
- Jones, David J.: See—
Green, Edward C., Jones, and Pitkin. 2,793,951.
- Jones, David L., Wholesale Floral Co.: See—
Wagner, Jerome F. 2,792,151.
- Jones, David W.: See—
Talalay, Anselm, and Jones. 2,800,165.
- Jones, Derek H.: See—
Winterburn, John, and Jones. 2,815,237.
- Jones, Donald A. Individual speaker system for outdoor theaters. 2,784,252, 3-5-57, Cl. 179-1.
- Jones, Donald R.: See—
Weisz, William J., and Jones. 2,782,405.
- Jones, Donna L.: See—
Jones, James J. 2,813,468.
- Jones, Dramin D. Portable electrical distribution system. 2,798,172, 7-2-57, Cl. 307-147.
- Jones, Dwight E., and R. D. Lambert, to E. D. Jones & Sons Co. Waferer. 2,805,694, 9-10-57, Cl. 144-172.
- Jones, E. D., and Sons Co.: See—
Jones, Dwight E., and Lambert. 2,805,694.
- Jones, Earl W., to H-J-M Tool Co. Device for anchoring tubing. 2,792,063, 5-14-57, Cl. 166-212.
- Jones, Edmund E., and R. L. Wicke. Expendable drill bit and adapter. 2,817,496, 12-24-57, Cl. 255-61.
- Jones, Edward M., to The Baldwin Piano Co. Preamplifier for photoelectric musical instruments. 2,801,342, 7-30-57, Cl. 250-214.
- Jones, Edward N. Pump for propelling pellets into oil wells for treating the same. 2,790,500, 4-30-57, Cl. 166-95.
- Jones, Edward T., Jr.: See—
Rulison, Richard N., Jones, and Denyes. 2,777,160.
- Jones, Edwin A., to Interlake Iron Corp. Process of producing silvery iron. 2,782,119, 2-19-57, Cl. 75-129.
- Jones, Eldon M.: See—
Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb. Re. 24,265.
- Jones, Elmer F.: See—
Kuenn, William W., and Jones. 2,796,931.
- Jones, Emlyn: See—
Dell, Hugh A., and Jones. 2,791,377.
- Jones, Eric C., to Flight Refueling Inc. Liquid level control device. 2,796,884, 6-25-57, Cl. 137-412.
- Jones, Everett E., to Fairchild Engine and Airplane Corp. Checking assembly. 2,807,092, 9-24-57, Cl. 33-174.
- Jones, Floyd S. Animal trap. 2,776,519, 1-8-57, Cl. 43-70.
- Jones, Frank D.: See—
Morrison, Charles S., Denison, and Jones. 2,794,307.
- Jones, Frank D., to Deere & Co. Rotating cylindrical husking mechanism. 2,818,072, 12-31-57, Cl. 130-5.
- Jones, Fred H., and H. O. Horn, to Chicago Elevator and Machine Co., Inc. Elevator signal control. 2,793,264, 5-21-57, Cl. 200-86.
- Jones, Frederick A., J. L. M. Newnham, and D. J. McKeand, to Dunlop Tire and Rubber Corp. Production of sponge rubber. 2,776,330, 1-1-57, Cl. 260-723.
- Jones, Frederick M., to Thermo King Corp. Method and means for preserving perishable foodstuffs in transit. 2,780,923, 2-12-57, Cl. 62-2.
- Jones, George D., to B-B Pen Co. Apparatus for making ball point pens. 2,791,137, 5-7-57, Cl. 78-13.
- Jones, Glenn H. Mobile receptacle support. 2,808,220, 10-1-57, Cl. 248-129.
- Jones, Glenn M.: See—
Klessig, Ernst F., and Jones. 2,809,593.
- Jones, Grady M., and R. E. Camors. Transfer mechanism for conveyor system. 2,806,578, 9-17-57, Cl. 198-20.
- Jones, Harold T. Hanger. 2,789,783, 4-23-57, Cl. 248-220.
- Jones, Harry H., and R. C. White, to R. C. White, d. b. a. Manufacturers Process Co. Degreasing apparatus. Re. 24,281, 2-26-57, Cl. 134-65.
- Jones, Harry W., to Dempster Brothers, Inc. Locking devices for transporting equipment. 2,800,233, 7-23-57, Cl. 214-75.
- Jones, Harry W., to Dempster Brothers, Inc. Combined loading and digging machine. 2,804,701, 9-3-57, Cl. 37-117.5.
- Jones, Herbert T. Still chilled refrigerator. 2,775,873, 1-1-57, Cl. 62-102.
- Jones, Horace, and J. B. Wyld, said Wyld assor. to British Celanese Ltd. Electric strain gauges. 2,812,409, 11-5-57, Cl. 201-63.
- Jones, Howard G., to Mobile Shade Co., Inc. Fabricated sheet metal trailer awning. 2,811,935, 11-5-57, Cl. 108-3.
- Jones, Hugh H., and F. E. Davidson, Jr. Locomotive flange lubricator. 2,800,198, 7-23-57, Cl. 184-3.
- Jones, Ira M.: See—
Brooks, Lewis C. 2,792,166.
- Jones, Jack E. and J. D. Bookmarker. 2,798,453, 7-9-57, Cl. 116-119.
- Jones, James B., to Aeroprojects, Inc. Ultrasonic soldering iron. 2,803,735, 8-20-57, Cl. 219-26.
- Jones, James E., and E. P. Stevens, to The Hettrick Mfg. Co. Table assembly. 2,815,998, 12-10-57, Cl. 311-35.
- Jones, James F. Bug and mosquito catcher. 2,787,083, 4-2-57, Cl. 43-113.
- Jones, James J., deceased: D. L. Jones, executrix of said J. J. Jones. Photo finish record. 2,813,468, 11-19-57, Cl. 95-1.
- Jones, James M., Jr., to The Texas Co. Automatic and continuously recording viscosimeters. 2,791,902, 5-14-57, Cl. 73-55.
- Jones, James R., to Olin Mathieson Chemical Corp. Stabilized liquid sulphur trioxide. 2,805,126, 9-3-57, Cl. 23-174.
- Jones, James R., to Olin Mathieson Chemical Corp. Stabilization of liquid sulphur trioxide against polymerization. 2,805,127, 9-3-57, Cl. 23-174.
- Jones, Jean E., to Eastman Kodak Co. Supersensitization of optical sensitization. 2,801,172, 7-30-57, Cl. 96-104.
- Jones, Jean E., to Eastman Kodak Co. Supersensitizing combinations comprising simple cyanine dyes and metal salts. 2,816,029, 12-10-57, Cl. 96-104.
- Jones, Jennings H.: See—
Fanske, Merrell R., and Jones. 2,802,023.
Kittleston, Allen R., Arundale, Jones, and Fenske. 2,809,981.
Oakley, Howard T., Arundale, and Jones. 2,799,708.

- Jones, Jennings H., to Esso Research and Engineering Co. Preparation of secondary alcohol ester of perfluorocarboxylic acids from olefins. 2,814,638, 11-26-57, Cl. 260—485.
- Jones, Joe B. Sanding apparatus. 2,775,853, 1-15-57, Cl. 51—138.
- Jones, Joe D.: See—
Jones, Jack E. and J. D. 2,798,453.
- Jones, John H., to B & J Mfg. Co. Jig for pre-assembling plumbing units. 2,817,892, 12-31-57, Cl. 29—287.
- Jones, John L.: See—
Armstrong, John H., and Jones. 2,799,163.
- Jones, John L., and L. W. Staples, to Sugar Beet Products Co. Metering valve for powdered and granular materials. 2,792,160, 5-14-57, Cl. 222—501.
- Jones, John P., Jr. Portable umbrella. 2,810,391, 10-22-57, Cl. 135—20.
- Jones, John R.: See—
Kane, James E. J., and Jones. 2,781,403.
- Jones, John W.: See—
Kulicke, Robert W., and Jones. 2,777,232.
- Jones, John W., Jr. Tester. 2,794,167, 5-28-57, Cl. 324—53.
- Jones, L. E., Corp.: See—
Baker, Harold W., Jr. 2,787,487.
- Jones and Lamson Machine Co.: See—
Barbier, John E., and Ginter. 2,793,041.
- Flanders, Ernest V. 2,778,170.
- Fuller, Leon B. 2,799,206.
- Fuller, Leon B., and Welch. 2,780,956.
- Nichols, John R. 2,789,165.
- Smith, Archie E. 2,816,187.
- Young, Andrew D. 2,802,393.
- Jones & Laughlin Steel Corp.: See—
Jacquart, Herman. 2,818,014.
- Manka, Dan P. 2,808,375.
- Manka, Dan P. 2,812,305.
- Newton, Elmore J. 2,776,939.
- Nora, Peter D., Jr. 2,789,895.
- Porter, William J. 2,818,360.
- Vaughan, Harry H. 2,797,155.
- Jones, Lawrence G. F., to Sperry Rand Corp. Speed control system for electric motor. 2,787,750, 4-2-57, Cl. 318—397.
- Jones, Lester L., to Emerson Radio & Phonograph Corp. Handling and locking structure for switchboard panel units. 2,794,155, 5-28-57, Cl. 317—120.
- Jones, Llewellyn, to Strongcraft Products, Inc. Collapsible bottle carrier. 2,784,870, 3-12-57, Cl. 220—110.
- Jones, Lloyd R.: See—
Roberts Frederick W. and Jones. 2,791,639.
- Taylor, Douglas E., and Jones. 2,803,707.
- Jones, Lloyd R., and R. E. Freund, to Dictaphone Corp. Remote dictation system. 2,791,633, 5-7-57, Cl. 179—6.
- Jones, Loren F., to Radio Corp. of America. Character printing and encoding apparatus. 2,791,310, 5-7-57, Cl. 197—1.
- Jones, Loren F., to Radio Corp. of America. Vibratory motor for an electric watch. 2,791,732, 5-7-57, Cl. 318—119.
- Jones, Maldwyn E., to ACF Industries, Inc. Control of fuel valve by carburetor throttle. 2,783,034, 2-26-57, Cl. 261—50.
- Jones, Marion S. Instrument for cutting open letter envelopes. 2,814,111, 11-26-57, Cl. 30—294.
- Jones, Marshall J. H., to Jones Coal and Coke Co. Method of sintering iron ore with beehive coke oven refuse. 2,809,106, 10-8-57, Cl. 75—5.
- Jones, Montgomery O., to G. T. Smith, C. Wortham, Jr., and F. L. Williams, trustees. Card perforating devices. 2,785,751, 3-19-57, Cl. 164—86.
- Jones, Morison B.: See—
Roben, Edward C. J. 2,808,808.
- Jones, Otis V., Jr., to Acro-Feed Industries. Stock feeder. 2,811,884, 11-5-57, Cl. 82—2.5.
- Jones, Park. Float fishing device. 2,787,856, 4-9-57, Cl. 45—15.
- Jones, Paul, Jr. Gun stock camera support. 2,806,416, 9-17-57, Cl. 95—86.
- Jones, Phillip H. Goose decoy. 2,812,608, 11-12-57, Cl. 43—3.
- Jones, R. A., and Co., Inc.: See—
Jones, Wickliffe. 2,805,755.
- Jones, Wickliffe. 2,815,848.
- Jones, R. Clyde, and C. W. Bradshaw. Fishing lure. 2,778,144, 1-22-57, Cl. 43—42.11.
- Jones, Ray D., and J. L. Oldenkamp, to General Electric Co. Shaded pole motor. 2,815,460, 12-3-57, Cl. 310—172.
- Jones, Reuben G., to Eli Lilly and Co. 3-pyrazoleacetaldehyde hydrazine. 2,785,177, 3-12-57, Cl. 260—310.
- Jones, Richard T., $\frac{1}{2}$ to D. E. Williams. Draft responsive, penetration control mechanism for tractor carried soil working implements. 2,785,616, 3-19-57, Cl. 97—46.93.
- Jones, Robert A., and R. M. Milton, to Union Carbide Corp. Argon purification. 2,810,454, 10-22-57, Cl. 183—114.2.
- Jones, Robert C.: See—
Moore, Robert J., Jones, and Thorpe. 2,816,867.
- Moore, Robert J., Jones, and Thorpe. 2,816,868.
- Jones, Robert H.: See—
Dobrogowski, Daniel T., Roen, and Jones. 2,803,465.
- Jones, Robert H., to Esso Research and Engineering Co. Lubricating oil additives. 2,812,319, 11-5-57, Cl. 260—132.
- Jones, Robert T., and L. Nelson. Shelf construction. 2,808,944, 10-8-57, Cl. 211—148.
- Jones, Robert W. Reading apparatus. 2,803,900, 8-27-57, Cl. 40—31.
- Jones, Roger B.: See—
Towle, Robert G., Jones, and Ganther. 2,793,261.
- Jones, Roy W., to General Telephone Laboratories, Inc. Telephone system employing impulse responsive cross bar switches. 2,816,961, 12-17-57, Cl. 179—22.
- Jones, Rufus V., to Phillips Petroleum Co. Well cementing materials and their application. 2,782,858, 2-26-57, Cl. 166—31.
- Jones, Rufus V., and P. J. Canterino, to Phillips Petroleum Co. Thiocyanated hydrogenated diene polymers and process of producing the same. 2,781,331, 2-12-57, Cl. 260—63.
- Jones, Rufus V., and C. W. Moberly, to Phillips Petroleum Co. Process for removing nickel catalyst from hydrogenated polybutadiene. 2,786,047, 3-19-57, Cl. 260—94.7.
- Jones, Rufus V., and C. W. Moberly, to Phillips Petroleum Co. Wire covered with a hydrogenated rubbery butadiene polymer. 2,813,809, 11-19-57, Cl. 117—232.
- Jones, Thomas M. Conveying and agitating mechanisms. 2,804,011, 8-27-57, Cl. 99—365.
- Jones, Thomas R., $\frac{1}{2}$ to J. P. Smith. Releasable tap holder. 2,784,429, 3-12-57, Cl. 10—129.
- Jones, Vernon L. Changeable chord finder. 2,814,231, 11-26-57, Cl. 84—485.
- Jones, Von E., and P. C. Ludy, to The J. C. L. Mfg. Corp. Mobile apparatus for harvesting crops. 2,782,943, 2-26-57, Cl. 214—83.1.
- Jones, Whitney W. Coin box fittings. 2,779,534, 1-29-57, Cl. 232—15.
- Jones, Whitney W. Coin-collecting devices. 2,779,535, 1-29-57, Cl. 232—16.
- Jones, Wickliffe, to The R. A. Jones and Co., Inc. Article feeding mechanism for cartoning machines. 2,805,755, 9-10-57, Cl. 198—34.
- Jones, Wickliffe, to R. A. Jones and Co., Inc. Package metering and stacking mechanism. 2,815,848, 12-10-57, Cl. 198—35.
- Jones, Will. Corn picker apparatus. 2,776,041, 1-1-57, Cl. 198—160.
- Jones, Will. Cigarette holder. 2,791,224, 5-7-57, Cl. 131—198.
- Jones, William, to W. & T. Avery Ltd. Wire stays. 2,817,550, 12-24-57, Cl. 287—86.
- Jones, William A., to Hazeltine Research, Inc. Cathode-ray tube deflection system. 2,794,149, 5-28-57, Cl. 315—27.
- Jones, William B., Jr., D. Gale, G. R. Gamertsfelder, and E. F. MacNichol, Jr., to the United States of America as represented by the Secretary of the Navy. Electro-mechanical data transmission system. 2,812,483, 11-5-57, Cl. 318—28.
- Jones, William D.: See—
Rheinfrank, John J., and Jones. 2,788,288.
- Jones, William E., to International Minerals & Chemical Corp. Treatment of glutamic acid. 2,807,625, 9-24-57, Cl. 260—326.3.
- Jones, William G. M., to Imperial Chemical Industries Ltd. Manufacture of N,N'-dibenzylethylene-diamine. 2,784,231, 3-5-57, Cl. 260—570.9.
- Jones, William H., to Merck & Co., Inc. 6,8-dihydroxy-octanoic acid and related compounds. 2,806,048, 9-10-57, Cl. 260—410.9.
- Jones, William T.: See—
Jamison, Thomas E., Jr. 2,783,028.
- Jonke, Albert A., to the United States of America as represented by the United States Atomic Energy Commission. Solvent extraction process. 2,809,091, 10-8-57, Cl. 23—14.5.
- Jonker, Gerard H., J. O. Wolthuis, and M. Bannink, to North American Philips Co., Inc. Electric filter. 2,803,803, 8-20-57, Cl. 333—72.
- Jonker, Johan L. H.: See—
Diemer, Gesinus, Knol, Jonker, Versnel, and Groendijk. 2,813,222.
- Jonker, Johan L. H., to Hartford National Bank and Trust Co., as trustee. Device comprising an electric discharge tube having a concentrated electron beam. 2,779,893, 1-29-57, Cl. 315—12.
- Jonker, Johannes L. H., to North American Philips Co., Inc. Traveling wave tube. 2,789,247, 4-16-57, Cl. 315—3.6.
- Jonkers, Cornelius O., to North American Philips Co., Inc. Method and apparatus of making a regenerator. 2,797,539, 7-2-57, Cl. 53—24.
- Jonkers, Cornelius O., and J. W. L. Köhler, to North American Philips Co., Inc. Gas-fractionating device. 2,799,141, 7-16-57, Cl. 62—2.
- Jonkers, Cornelius O., J. W. L. Kohler, and J. Van Der Ster, to North American Philips Co., Inc. Rectification column. 2,802,345, 8-13-57, Cl. 62—122.
- Jonson, Gustave W., to Mitchell Camera Corp. Lens turret indexing and locking means. 2,800,038, 7-23-57, Cl. 74—82.2.
- Jonsson, Charles F. Tent erecting framework. 2,808,846, 10-8-57, Cl. 135—4.
- Jonsson, Gregor. Method of cleaning shrimp. 2,784,450, 3-12-57, Cl. 17—45.
- Jonsson, Karl-Erik A.: See—
Brundell, Per G., and Jonsson. 2,785,715.
- Brundell, Per G., and Jonsson. 2,786,499.
- Brundell, Per G., and Jonsson. 2,787,304.
- Brundell, Per G., and Jonsson. 2,788,034.
- Jonsson, Per G.: See—
Nilsson, Nils E., Rodnert, and Jonsson. 2,779,824.

- Joormann, Hendrik J. M., to North American Philips Co. Inc. Tuning indicator. 2,790,161, 4-23-57, Cl. 340-202.
- Joppich, Robert H. Ventilating vent for wall of building. 2,782,464, 2-26-57, Cl. 20-4.
- Jopson, Hubert S., to the United States of America as represented by the Secretary of the Air Force. Restriction device. 2,805,685, 9-10-57, Cl. 138-42.
- Jordahl, Anders: *See*—
Marek, Jan I. 2,792,006.
- Jordan, Archie D., to Sylvania Electric Products Inc. Self calibrating limit indicator. 2,801,333, 7-30-57, Cl. 250-27.
- Jordan, Arthur, to Minneapolis-Honeywell Regulator Co. Controller. 2,791,481, 5-7-57, Cl. 346-45.
- Jordan, Arthur H., to Minneapolis-Honeywell Regulator Co. Relay for maintaining a constant ratio between a primary variable and a secondary variable in response to a tertiary variable. 2,788,013, 4-9-57, Cl. 137-82.
- Jordan, Benjamin F., and J. W. Pleasant. Blade angle checking apparatus. 2,796,669, 6-25-57, Cl. 33-174.
- Jordan, Carl F., Jr., to Collins Radio Co. Automatic tuning means. 2,802,908, 8-13-57, Cl. 179-171.
- Jordan, Conrad H. Hand truck for garbage or ash cans. 2,784,856, 3-12-57, Cl. 214-383.
- Jordan, Edmund F., Jr., to the United States of America as represented by the Secretary of Agriculture. Dispersing agents for vinylidene chloridethyl acrylate copolymerization. 2,810,715, 10-22-57, Cl. 260-86.3.
- Jordan, George V., H. L. Plack, and T. A. Manzelli, to Selas Corp. of America. Oxygen humidifying. 2,812,762, 11-12-57, Cl. 128-191.
- Jordan, Hans, to Given Machinery Co. Waste grinder with timer controls to provide continuance of water flow to sewer after completion of grinding cycle. 2,785,863, 3-19-57, Cl. 241-38.
- Jordan, Hans, to Given Machinery Co. Removable splash guard and mounting therefor in waste grinding structures. 2,785,864, 3-19-57, Cl. 241-100.5.
- Jordan, Harold H., to The Trauwood Engineering Co. Quench pot for wire and the like. 2,788,790, 4-16-57, Cl. 134-108.
- Jordan, Jay E.: *See*—
Asheim, Bernard B., and Jordan. 2,815,133.
- Jordan, Paul: *See*—
Hecker, Kurt, Jordan, Kaiser, and Vögeli. 2,778,459.
- Jordan, Richard H. Time switch. 2,782,271, 2-19-57, Cl. 200-27.
- Jordan, Richard H., and T. Y. Korsgren, to Acro Mfg. Co. Hermetically sealed switch. 2,777,910, 1-15-57, Cl. 200-67.
- Jordan, Robert L. Extensible trencher tooth. 2,805,496, 9-10-57, Cl. 37-142.
- Jordan, Roy D. Child's safety seat. 2,799,322, 7-16-57, Cl. 155-11.
- Jordan, Samuel C.: *See*—
Lewis, Walter E., and Jordan. 2,785,266.
- Jordan, Silvia W. Zipper pull. 2,811,763, 11-5-57, Cl. 24-205.
- Jordan, Stanley R., to Standard Electrical Products Co. Adjustable speed alternating current motor. 2,795,749, 6-11-57, Cl. 318-28.
- Jordan, Thomas E.: *See*—
Romanovsky, Cyril, and Jordan. 2,800,517.
- Jordan, Thomas E., to Fulford Mfg. Co. Clasp. 2,779,987, 2-5-57, Cl. 24-153.
- Jordan, Walter: *See*—
Wenzl, Josef. 2,811,219.
- Jordan, Walter. Fish lure. 2,782,549, 2-26-57, Cl. 43-42.51.
- Jordan, Wayne D. Control system for multi-temperature refrigerators. 2,791,099, 5-7-57, Cl. 62-4.
- Jordan, Wesley A.: *See*—
Witcoff, Harold, and Jordan. 2,811,459.
- Jordan, William E.: *See*—
Crookshank, Fred T., Jordan, Bright, and Nelson. 2,789,091.
- Jordt, Robert C., to G. D. Searle & Co. Ampule orienting means. 2,776,034, 1-1-57, Cl. 193-43.
- Jørgensen, Anders O.: *See*—
Tunberg, Gustav V., Jørgensen, Parschin, and Edman. 2,781,817.
- Jørgensen, Arlo: *See*—
Stevens, Stephen, and Jørgensen. 2,787,360.
- Jørgensen, Clarence H., to General Motors Corp. Cigar lighter. 2,778,915, 1-22-57, Cl. 219-32.
- Jørgensen, Clarence H., to General Motors Corp. Cigar lighter. 2,810,814, 10-22-57, Cl. 219-32.
- Jørgensen, Jacob C., to United Shoe Machinery Corp. Machines for shaping uppers over lasts. 2,803,024, 8-20-57, Cl. 12-10.4.
- Jørgensen, Julius, to Brandt Automatic Cashier Co. Coin handling apparatus. 2,805,676, 9-10-57, Cl. 133-8.
- Jørgensen, Julius, and A. R. Buchholz, to Brandt Automatic Cashier Co. Currency counting apparatus. 2,805,825, 9-10-57, Cl. 235-92.
- Jørgensen, Oscar H. Stepless variable-speed power-transmission device. 2,815,670, 12-10-57, Cl. 74-199.
- Jørgensen, Poul F. W., and K. E. Aas; said Aas assor. to said Jørgensen. Convertible furnitures. 2,792,575, 5-21-57, Cl. 5-43.
- Jørgensen, Richard F. Clasp. 2,815,557, 12-10-57, Cl. 24-252.
- Jørgensen, Robert A., to Washington Steel Products, Inc. Demountable revolving shelf assembly for kitchen cabinets and the like. 2,777,585, 1-15-57, Cl. 211-139.
- Jørgensen, Roy C., to The Dow Chemical Co. Cathodic protection assembly. 2,779,729, 1-29-57, Cl. 204-197.
- Jørgensen, Villy V., to H. Struers Chemiske Laboratorium. Apparatus for producing a constant A. C. voltage from a non-constant voltage source. 2,796,581, 6-18-57, Cl. 323-50.
- Jorgenson, Gerald A., to Capitol Products Corp. Bread pan transfer conveying apparatus. 2,804,190, 8-27-57, Cl. 198-26.
- Jorgenson, John P. Dry cleaning. 2,806,368, 9-17-57, Cl. 68-18.
- Jorio, Federico: *See*—
Pigatti, Antonio, and Jorio. 2,801,761.
- Joriot, Camille. Balance wheel amplitude controlling device. 2,786,329, 3-26-57, Cl. 58-121.
- Joris, George G.: *See*—
Bostian, Logan C., Joris, and Nilsson. 2,805,122.
- Joris, George G., to Allied Chemical & Dye Corp. Manufacture of cumene hydroperoxide. 2,776,999, 1-8-57, Cl. 260-610.
- Joris, George G., to Allied Chemical & Dye Corp. Production of ammonium nitrite solutions. 2,797,144, 6-25-57, Cl. 23-104.
- Joris, George G., to Allied Chemical & Dye Corp. Process for purifying epsilon-caprolactam. 2,813,858, 11-19-57, Cl. 260-239.3.
- Jortberg, Richard E. Shore bombardment fire control. 2,803,061, 8-20-57, Cl. 33-1.
- Josenhans, Max, to Koppers Co., Inc. Process for producing synthesis gas and coke. 2,805,188, 9-3-57, Cl. 202-9.
- Joseph, Alan H., to Handy Mfg. Co. Clamping machine with flexible band work engaging means. 2,796,095, 6-18-57, Cl. 144-291.
- Joseph, Henry. Overshoe with self-sealing sole and heel for spiked or cleated shoes. 2,785,481, 3-19-57, Cl. 36-7.3.
- Joseph, James, to T. R. Zettelmeyer, as trustee. Dispensing receptacle for comminuted comestibles. 2,798,648, 7-9-57, Cl. 222-478.
- Joseph, Maurice J., to The Lord Baltimore Press, Inc. Triangular carton. 2,807,403, 9-24-57, Cl. 229-22.
- Joseph, Robert T., and H. L. Allen, to Allied Chemical & Dye Corp. Terpene polymer-benzoid resin and process of making same. 2,806,837, 9-17-57, Cl. 260-45.5.
- Joseph, Z. Albert: *See*—
San Fratello, Michael. 2,784,492.
- Josephson, Helmer G. Indexing fixture. 2,811,782, 11-5-57, Cl. 33-174.
- Josephson, Walter S., to Greene, Tweed & Co. Device for installing seals. 2,807,079, 9-24-57, Cl. 29-235.
- Josephson, Walter S., to Greene, Tweed & Co. Annular seals. 2,818,287, 12-31-57, Cl. 286-26.
- Joslin, Robert P., to Monsanto Chemical Co. Refrigeration of doughs and batters including as a leavening component dicalcium phosphate dihydrate. 2,810,650, 10-22-57, Cl. 99-90.
- Joslyn, James W., to The Sandy Hill Iron & Brass Works. Cylinder paper machine. 2,781,699, 2-19-57, Cl. 92-43.
- Joslyn, James W., to The Sandy Hill Iron & Brass Works. Paper machine. 2,781,700, 2-19-57, Cl. 92-43.
- Joslyn Mfg. & Supply Co.: *See*—
Hart, Lester C. 2,810,806.
- Yonkers, Edward H. Jr. 2,802,150.
- Jourdain, André P., to Compagnie Internationale des Pieux Armes, Frankignoul, Societe Anonyme. Machine turnable and shiftable in all directions on the ground, particularly for driving piles and the like. 2,777,528, 1-15-57, Cl. 180-8.
- Jordat, Marc, to Societe a responsabilite limitee Gevarm. Firing mechanism for automatic rifles. 2,785,605, 3-19-57, Cl. 89-140.
- Journal Box Servicing Corp.: *See*—
Potter, Thomas W. 2,781,239.
- Journey, Glen E., to Monsanto Chemical Co. Cyanoethylation of organic sulfur compounds. 2,790,818, 4-30-57, Cl. 260-464.
- Journey, Glen E., to Monsanto Chemical Co. Cyanoethylation of hydrogen sulfide. 2,790,821, 4-30-57, Cl. 260-465.8.
- Journey, Clarence E. Sleeve formers. 2,813,665, 11-19-57, Cl. 223-74.
- Jovais, Casimer. Window scaffold. 2,805,103, 9-3-57, Cl. 304-24.
- Jovanovich, Bogdan U. Laterally adjustable jaw type socket wrench. 2,778,260, 1-22-57, Cl. 81-127.
- Joy, Alden R.: *See*—
Mucher, George J., and Joy. 2,811,621.
- Joy, Joseph E.: *See*—
Gillespie, Henderson C., and Joy. 2,785,264.
- Joy, Joseph F., to Joy Mfg. Co. Conveyor mechanism for mining apparatus. 2,777,565, 1-15-57, Cl. 198-109.
- Joy, Joseph F., to Joy Mfg. Co. Coal mining machine with laterally swingable and vertically adjustable cutter bars. 2,796,246, 6-18-57, Cl. 262-9.
- Joy, Joseph F., to Joy Mfg. Co. Automatic stepper type transport device. 2,800,968, 7-30-57, Cl. 180-8.
- Joy, Joseph F., to Joy Mfg. Co. Mining and loading apparatus involving core cutting and dislodging means. 2,801,091, 7-30-57, Cl. 262-9.

- Joy, Joseph F., to Joy Mfg. Co. Coal breaker wedge device. 2,801,092, 7-30-57, Cl. 262-9.
- Joy, Joseph F., to Joy Mfg. Co. Method of an apparatus for mining by slot cutting and dislodging. 2,801,093, 7-30-57, Cl. 262-9.
- Joy, Joseph F., to Joy Mfg. Co. Endless loop type cutter chain. 2,807,452, 9-24-57, Cl. 262-29.
- Joy Mfg. Co.: See—
- Ault, James R., and Jenkins. 2,811,303.
- Ball, Charles F. 2,777,681.
- Ball, Charles F. 2,798,712.
- Ball, Charles F. 2,801,094.
- Ball, Charles F. 2,801,095.
- Ball, Charles F. 2,802,336.
- Ball, Charles F. 2,810,304.
- Ball, Charles F. 2,816,747.
- Barrett, A. Lee. 2,813,449.
- Barrett, Arthur L. 2,776,809.
- Barrett, Arthur L. 2,776,823.
- Barrett, Arthur L. 2,777,102.
- Barrett, Arthur L. 2,788,200.
- Barrett, Arthur L. 2,788,202.
- Barrett, Arthur L. 2,800,970.
- Bebinger, Charles N. 2,789,681.
- Blower, Warren A., and Ziegler. 2,795,936.
- Bradley, Earl A. 2,801,838.
- Curtis, John C. 2,813,515.
- Curtis, John C., and Fish. 2,791,399.
- Dolecki, Matthew J., and Warner. 2,813,984.
- Dudley, Victor I. 2,777,526.
- Dudley, Victor I. 2,777,530.
- Fitzgerald, Charles W. 2,795,935.
- Frellsen, Carlton B. 2,791,918.
- Goodrich, Ross H. 2,795,408.
- Green, Willard E. 2,811,398.
- Hale, Ralph F. 2,788,194.
- Hughes, Robert W. 2,787,411.
- Jenkins, William J. 2,795,934.
- Johnson, Glenn D., and Lindgren. 2,800,300.
- Johnson, Glenn D., and Williams. 2,788,887.
- Joy, Joseph F. 2,777,555.
- Joy, Joseph F. 2,796,246.
- Joy, Joseph F. 2,800,968.
- Joy, Joseph F. 2,801,091.
- Joy, Joseph F. 2,801,092.
- Joy, Joseph F. 2,801,093.
- Joy, Joseph F. 2,807,452.
- Laskauskas, Joseph. 2,789,682.
- Leven, Samuel. 2,818,243.
- Maxson, Louis A. 2,806,448.
- McPhee, Raymond D. 2,780,109.
- McPhee, Raymond D. 2,802,369.
- Osterhus, Ervin J., Richards, and Taylor. 2,776,824.
- Paget, Win W. 2,784,626.
- Rollins, Lester G. 2,802,368.
- Russell, John. 2,781,187.
- Russell, John D. 2,788,114.
- Russell, John D. 2,793,732.
- Russell, John D. 2,796,969.
- Russell, John D. 2,796,999.
- Russell, John D. 2,806,683.
- Sibley, John R. 2,798,713.
- Sibley, John R. 2,798,714.
- Silver, Harold F. 2,787,171.
- Silver, Harold F. 2,798,706.
- Silver, Harold F. 2,798,711.
- Silver, Harold F. 2,808,920.
- Simmons, Leon E. 2,780,334.
- Steele, Edson B. 2,778,127.
- Steele, Edson B. 2,795,342.
- Troller, Theodor H. 2,781,124.
- Troller, Theodor H. 2,781,165.
- Woolf, James W. 2,781,424.
- Wyman, Robert A. 2,807,443.
- Yaggi, Henry J. 2,812,848.
- Ziegler, Donald D. 2,800,969.
- Joy, Raymond D. Tobacco stick pulling apparatus. 2,803,355, 8-20-57, Cl. 214-5.5.
- Joyce, Asa W.: See—
- Scalera, Mario, and Joyce. 2,800,468.
- Joyce, Asa W., to American Cyanamid Co. Vat dyestuffs of the phthaloylcarbazole triazine series. 2,813,863, 11-19-57, Cl. 260-249.
- Joyce, Bradford T., and A. F. Krueger, to Electronics Corp. of America. Explosion detection and suppression. 2,799,781, 7-16-57, Cl. 250-214.
- Joyce, Glover C.: See—
- Narel, Joseph W., and Joyce. 2,813,380.
- Joyce, Harold L. Miniature powered vehicle. 2,814,257, 11-26-57, Cl. 105-49.
- Joyce, John R.: See—
- Hultgren, William H., and Joyce. 2,801,006.
- Joyce, Rose M.: See—
- Norman, Oscar L., and Joyce. 2,790,000.
- Joyce, Rose M., and B. Vassel, to International Minerals & Chemical Corp. Glutamine synthesis. 2,798,092, 7-2-57, Cl. 260-534.
- Joyner, Austin, and J. F. Weidenheimer, to American Cyanamid Co. Therapeutic compositions of tetracycline group antibiotic and parahydroxybenzoic acid ester. 2,807,568, 9-24-57, Cl. 167-65.
- Joyner, Frederick B.: See—
- Dickey, Joseph B., and Joyner. 2,808,440.
- Joyner, Frederick B., to Eastman Kodak Co. Monomeric esters of α -cyanoacrylic acid and their preparation. 2,784,215, 3-5-57, Cl. 260-465.4.
- Joyner, Frederick B., and H. W. Coover, Jr., to Eastman Kodak Co. Plasticized monomeric adhesive compositions and articles prepared therefrom. 2,784,127, 3-5-57, Cl. 154-43.
- Joyner, George A., Jr.: See—
- Spooner, Laurence W., and Joyner. 2,804,908.
- Jozif, Josef. Gear transmission. 2,784,608, 3-12-57, Cl. 74-337.5.
- Jubb, Albert: See—
- Davies, David O., and Jubb. 2,814,928.
- Jubb, Derek H.: See—
- Beale, Richard D., Jubb, and Stevenson. 2,780,058.
- Juchli, Alfred: See—
- Preiswerk, Eduard, Meyerhans, Ernst, Denz, and Juchli. 2,788,337.
- Jucker, Ernst: See—
- Stoll, Arthur, Jucker, and Becker. 2,800,484.
- Stoll, Arthur, Jucker, and Lindenmann. 2,800,476.
- Stoll, Arthur, Jucker, and Lindenmann. 2,800,477.
- Jucker, Ernst, and A. Ebnöther, to Saul & Co., as nominee of Fidelity Union Trust Co. Acid amide-like tropene derivatives. 2,800,483, 7-23-57, Cl. 260-292.
- Jucker, Otto: See—
- Lutz, Karl, and Jucker. 2,777,792.
- Jud, Arthur, $\frac{1}{2}$ to J. Spillmann. Coating composition for producing a two colored patterned effect. 2,795,562, 6-11-57, Cl. 260-9.
- Judd, Vernon C. Vehicle steering mechanism. 2,803,147, 8-20-57, Cl. 74-192.
- Judd, William F., to Emco Brass Mfg. Co. Ltd. Surge arresters. 2,809,666, 10-15-57, Cl. 138-31.
- Jude, George F.: See—
- Brannin, Richard S., and Jude. 2,809,000.
- Judisch, Carl H., to The Whitney Blake Co. Automatic coil winding apparatus. 2,804,647, 9-3-57, Cl. 18-19.
- Judkins, George H., to International Harvester Co. Mobile workholder with loading device. 2,790,232, 4-30-57, Cl. 29-289.
- Judkins, Marion D. Flashlight. 2,789,209, 4-16-57, Cl. 240-10.65.
- Judovich, Bernard D. Intermittent traction machine. 2,803,245, 8-20-57, Cl. 128-75.
- Judson, Albert L.: See—
- Carlson, Bert G., and Judson. 2,780,104.
- Judy, Robert V., to International Telephone and Telegraph Corp. Combined telephone and dictation system. 2,791,632, 5-7-57, Cl. 179-6.
- Juerst, Richard H. P. Detachable supplementary dial for telephones. 2,798,318, 7-9-57, Cl. 40-10.5.
- Jugle, Leonard L., to Reliable Electric Co. Wire supporting device. 2,781,212, 2-12-57, Cl. 287-20.1.
- Juhas, Michael, to General Time Corp. Time stamp. 2,778,304, 1-22-57, Cl. 101-298.
- Juhas, Michael, to General Time Corp. Lift mechanism for time recorder. 2,816,810, 12-17-57, Cl. 346-83.
- Juifs, Albert G., to Senco Products, Inc. Staple feed magazine. 2,781,515, 2-19-57, Cl. 1-49.
- Juillard, Jacques: See—
- Juillard, Yves, and J., and J. P. 2,799,295.
- Juillard, Jean P.: See—
- Juillard, Yves, and J., and J. P. 2,799,295.
- Juillard, Yves, and J., and J. P. Weaving device. 2,799,295, 7-16-57, Cl. 139-12.
- Jukkola, Walfred W.: See—
- Smith, David B., Lewis, Malabre, Jukkola, and Heath. 2,799,558.
- Julian, Charles N., F. W. Gagne, and E. Gostyn, to General Instrument Corp. High frequency adjusting system. 2,795,700, 6-11-57, Cl. 250-40.
- Julian, Clarence L., and D. C. Redick, to General Motors Corp. Distributor structure. 2,816,968, 12-17-57, Cl. 200-30.
- Julian, Donald B.: See—
- Vittum, Paul W., and Julian. 2,801,170.
- Julian, Percy L., and W. J. Karpel, to The Glidden Co. Preparation of 21-halo steroids. 2,789,989, 4-23-57, Cl. 260-397.47.
- Julian, Percy L., E. W. Meyer, I. Ryden, and W. J. Karpel, to The Glidden Co. Method for introducing a 21-hydroxy group into 17-oxygenated steroids. 2,816,108, 12-10-57, Cl. 260-239.55.
- Julich, Werner: See—
- Heinze, Werner, and Julich. 2,802,415.
- Julie, Joel, to Daystrom Instrument Division of Daystrom, Inc. Control apparatus. 2,811,588, 10-29-57, Cl. 179-100.1.
- Julius, Michael. Method and apparatus for precooling produce. 2,787,141, 4-2-57, Cl. 62-169.
- Juilliard, Maurice. Fixing of films on the spools of photographic and cinematographic apparatus. 2,792,185, 5-14-57, Cl. 242-74.
- Jumisco, Roy A., to General Motors Corp. Involute curve checking device. 2,778,119, 1-22-57, Cl. 33-179.5.
- Jumisco, Roy A., to General Motors Corp. Torsional vibration damper. 2,787,896, 4-9-57, Cl. 64-27.
- Jump, William L. Collapsible work sign. 2,783,566, 3-5-57, Cl. 40-125.

- June, David H. Combination change purse and bill fold. 2,802,500, 8-13-57, Cl. 150-35.
- June, David H. Combined tobacco and pipe pouch. 2,806,588, 9-17-57, Cl. 206-38.
- Jung, Edwin K.: *See*—
Davis, Walter M., Hood, and Jung. 2,805,640.
- Jung, Frederic W. Method of heat treatment, separation and coking coal. 2,803,587, 8-20-57, Cl. 202-25.
- Jung, Henry: *See*—
Altman, Louis V., and Jung. 2,802,606.
- Jung, Walter: *See*—
Meinecke, Gunther, and Jung. 2,809,572.
- Jungblut, Charles, to Compagnie de Pont-A-Mousson. Joint between screw threaded and elastic lined pipe ends. 2,793,884, 5-28-57, Cl. 285-231.
- Junghans, Helmut. Telephone mouthpiece attachment. 2,806,906, 9-17-57, Cl. 179-188.
- Junghans, Helmut, and K. Bäuerle. Variable signal alarm clock. 2,777,278, 1-15-57, Cl. 58-21.12.
- Junghans, Helmut, and A. Letsche, to Gebrüder Junghans A. G. Alarm timepiece sounding device. 2,786,326, 3-26-57, Cl. 58-57.5.
- Junghans, Helmut, and P. Jahn. Striking clocks. 2,793,608, 5-28-57, Cl. 116-169.
- Junghans, Siegfried, H. Klein, and E. Müller. Method and apparatus for continuously casting. 2,793,410, 5-28-57, Cl. 22-57.2.
- Jungles, Robert N., to The Cleveland Pneumatic Tool Co. Drive-released brake. 2,783,861, 3-5-57, Cl. 192-8.
- Juniper, Albert T. Liquid delivery or supply apparatus. 2,789,724, 4-23-57, Cl. 222-138.
- Junk, William A., Jr., W. D. Schmidt, H. S. Seelig, and W. L. Fleming, to Standard Oil Co. Chemical refining and catalytic conversion of hydrocarbon oils. 2,780,582, 2-5-57, Cl. 196-23.
- Junk, William A., Jr., W. D. Schmidt, and H. S. Seelig, to Standard Oil Co. Catalytic cracking of pretreated hydrocarbon oil. 2,800,427, 7-23-57, Cl. 196-14.11.
- Junkers, Gerd, to Koppers Co., Inc. Rotating grate for gas producers. 2,808,321, 10-1-57, Cl. 48-66.
- Junkin, Malcolm P., to National Metal Edge Box Co. Tray for utensils. 2,807,361, 9-24-57, Cl. 206-75.
- Junkins, Raymond D., to The Babcock & Wilcox Co. Vapor generating and superheating operation. 2,805,653, 9-10-57, Cl. 122-57.9.
- Junkmann, Karl, and H. Pfeiffer, to Schering A. G. Esters of carbanic acid and a method of making same. 2,816,910, 12-17-57, Cl. 260-482.
- Jupp, Robert A., and M. R. Dewhurst, to The Monotype Corp. Ltd. Moulds for casting single-type bodies. 2,804,195, 8-27-57, Cl. 199-87.
- Juran, Steve G.: *See*—
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,817,530.
- Jurek, John Z. Anti-skid apparatus for automotive vehicles. 2,797,762, 7-2-57, Cl. 180-1.
- Jurgens, Adolph C. Rock picker having movable picking teeth. 2,793,482, 5-28-57, Cl. 55-17.
- Jurgens, Benno F., to North American Phillips Co., Inc. Device comprising a cathode-ray tube. 2,803,781, 8-20-57, Cl. 315-25.
- Jurgens, Orville F., 50% to B. C. Wolfe. Log decking machine. 2,798,588, 7-9-57, Cl. 198-91.
- Jurick, Ernest F., to Hanovia Chemical & Mfg. Co. Vapor arc lamp. 2,797,311, 6-25-57, Cl. 240-11.4.
- Jurisch, Peter L., to Douglas Aircraft Co., Inc. Pilot burner for combustion heater. 2,777,508, 1-15-57, Cl. 158-4.
- Jurman, Harry R.: *See*—
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- Jurnak, Andrew P.: *See*—
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- Jurs, Albert E., Jr.: *See*—
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- Justice, William W., and C. R. Sands, to United States Steel Corp. Method of utilizing blast-furnace flue-dust or the like. 2,799,571, 7-16-57, Cl. 75-3.
- Justis, Charles E. Mobile drafting apparatus. 2,804,691, 9-3-57, Cl. 33-80.
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- K-P Mfg. Co.: *See*—
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- K S M Products, Inc.: *See*—
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- Kabrick, Roland C., to Swift & Co. Poultry (tray pack) wrapping device. 2,790,045, 2-5-57, Cl. 53-219.
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- Kahler, Harry L., and C. B. George, to W. H. & L. D. Betz. Corrosion inhibiting. 2,793,932, 5-28-57, Cl. 21—2.7.
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- Kahn, Frank J. and L. M. Automatic balancing of rotatable hollow cylinders. 2,791,917, 5-14-57, Cl. 74—573.
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- Kahn, Leonard R., to Crosby Laboratories, Inc. Suppressed-carrier reception. 2,784,311, 3-5-57, Cl. 250—27.
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- Kahr, Kurt, to Inventa A. G. fuer Forschung und Patentverwertung. Process for the production of hydroxylamine sulfate solutions. 2,785,954, 3-19-57, Cl. 23—117.
- Kaishin, Hall Y., to Acme Visible Records, Inc. Flexible index strips in sheet form. 2,778,658, 1-22-57, Cl. 281—43.
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- Kailey, Theodore. Indoor television antennas. 2,817,838, 12-24-57, Cl. 343—866.
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- Kaiser Aircraft & Electronics Corp.: See—
Aiken, William R. 2,795,731.
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Church, Howard. 2,804,168.
Cook, Lloyd A. 2,790,656.
Curell, Conrad O. 2,806,308.
Dunn, Robert C. 2,785,956.
Gaul, Raymond F. 2,800,709.
Hogan, Raymond C. 2,818,170.
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Porter, John L. 2,812,239.
Rhoades, John S. 2,784,781.
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Uphoff, Leo P. 2,803,870.
Young, John R. 2,784,782.
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- Kaiser, Carl B., to The Haloid Co. Particle aerosol generation. 2,792,971, 5-21-57, Cl. 222—193.
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- Kaiser Gypsum Co., Inc.: See—
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- Kaiser, Harold R., C. A. Lane, and W. S. Shockency, to Hughes Aircraft Co. High-speed electronic analogue-to-digital converter system. 2,784,396, 3-5-57, Cl. 340—347.
- Kaiser, Henry J., Co.: See—
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- Kaiser, Herman S., to General Motors Corp. Latch mechanism. 2,779,615, 1-29-57, Cl. 292—221.
- Kaiser Metal Products, Inc.: See—
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- Kaiser, Rudolf, to Aeroquip Corp. Plural layer hose fitting having wedge gripping means for the plural layers. 2,809,056, 10-8-57, Cl. 285—149.
- Kaiser Steel Corp.: See—
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- Kaiser, Walter L. Vibration eliminating support for seats and beds. 2,814,052, 11-26-57, Cl. 5—210.
- Kaiser, Willy: See—
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- Kalafsky, Joseph M. Self-releasing tap holder with toggle link clutch element. 2,787,797, 4-9-57, Cl. 10—129.
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- Kalart Co. Inc., The: See—
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- Kalberg, Glenn D. Clamp block. 2,783,963, 3-5-57, Cl. 248—361.
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- Kalensky, Ruby. Sachet. 2,806,315, 9-17-57, Cl. 41-14.
- Kalert, Ralph E., Jr., to ACF Industries, Inc. Drain plug for float bowls. 2,790,458, 4-30-57, Cl. 137-409.
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- Kalinowski, Anthony T., to National Lead Co. Preparation of chalk resistant anatase pigment. 2,817,595, 12-24-57, Cl. 106-300.
- Kalinowski, Joseph. Handle socket and mop head for floor and wall mops. 2,777,149, 1-15-57, Cl. 15-229.
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- Kalinowski, Maria A., now by change of name M. Ambrose. Shipping container. 2,776,773, 1-8-57, Cl. 217-36.
- Kalinowski, Matthew L., and L. T. Crews, to Standard Oil Co. Graft polymer-fortified bitumen additives. 2,812,339, 11-5-57, Cl. 260-404.5.
- Kalinske, Anton A.: *See*—
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- Kalinske, Anton A., to Inflico Inc. Support means. 2,779,733, 1-29-57, Cl. 210-16.
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- Kalish, Joseph, to Schenley Industries, Inc. Oral fat emulsions. 2,808,336, 10-1-57, Cl. 99-118.
- Kalista, George. Heavy tension load safety swivel. 2,811,378, 10-29-57, Cl. 287-91.
- Kalita, Wesley, to Allegheny Ludlum Steel Corp. Method of processing stainless steels. 2,781,283, 2-12-57, Cl. 148-12.4.
- Kalla, Alexander, Jr. Double hung window construction. 2,807,060, 9-24-57, Cl. 20-52.2.
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Lakatos, Eduard, Schnegberger, Greune, and Heyna. 2,784,116.
- Kalling, Bo M. S., and F. C. E. Johansson, to Stora Kopparbergs Bergslags Aktiebolag. Recuperative roller-type heating furnace. 2,788,204, 4-9-57, Cl. 263-33.
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- Kalning, William C., R. J. Stanton, and W. C. Rudd, to Magnetic Heating Corp. Tube welding by high frequency resistance heating. 2,818,489, 12-31-57, Cl. 219-59.
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- Kaltenbach, Kurt. Angle-piece head, more especially for grinding, for dental and medical purposes. 2,792,630, 5-21-57, Cl. 32-27.
- Kaltenbach, Merle H.: *See*—
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- Kaltenbacher, Dominic M.: *See*—
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- Kalthoff, Charles W., Jr. Cooling tower. 2,780,447, 2-5-57, Cl. 261-111.
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- Kamada, Masaki, to Takeda Pharmaceutical Industries, Ltd. Fortified cereal grains and method of producing the same. 2,811,447, 10-29-57, Cl. 99-11.
- Kaman, Frank A., to Thor Power Tool Co. Impact clutch mechanism. 2,801,718, 8-6-57, Cl. 192-30.5.
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- Kamin, Sam. Container with foldable sifter spout. 2,777,611, 1-15-57, Cl. 222-189.
- Kaminky, Oscar H., to Penn Controls, Inc. Snap acting mechanism. 2,789,173, 4-16-57, Cl. 200-67.
- Kaminski, Frank J.: *See*—
Meyer, Peter J., and Kaminski. 2,818,057.
- Kamiss, Charles B. X-ray cassette warpproof bakelite front. 2,812,441, 11-5-57, Cl. 250-68.
- Kamlet, Jonas, to National Distillers Products Corp. Process for the manufacture of titanium-aluminum alloys and regeneration of intermediates. 2,781,261, 2-12-57, Cl. 75-135.
- Kamlet, Jonas, to National Distillers Products Corp. Process for the manufacture of titanium metal. 2,785,971, 3-19-57, Cl. 75-84.
- Kamlet, Jonas, to The Goodyear Tire & Rubber Co. Process for the manufacture of aliphatic dinitriles. 2,782,157, 2-19-57, Cl. 204-72.
- Kamlet, Jonas, to National Distillers Products Corp. Linear polyamide polymers of 4-amino-cyclohexyl-acetic acid. 2,790,788, 4-30-57, Cl. 260-78.
- Kamlet, Jonas, to National Distillers Corp. Process for the manufacture of alkali metal fluoritanates. 2,791,487, 5-7-57, Cl. 23-88.
- Kamlet, Jonas, to National Distillers and Chemical Corp. Cyclic process for the beneficiation of titania ores and slags. 2,804,375, 8-27-57, Cl. 23-202.
- Kamlet, Jonas, to Commercial Solvents Corp. Process for the manufacture of urea. 2,811,553, 10-29-57, Cl. 260-555.
- Kamlet, Jonas, to Crown Zellerbach Corp. Process for the manufacture of sebacic acid. 2,815,375, 12-3-57, Cl. 260-537.
- Kamm, Edmund W. E., to Bowser, Inc. Liquid dispenser. 2,786,602, 3-26-57, Cl. 222-59.
- Kamm, Lawrence J., to Sperry Products, Inc. Digital curve generator. 2,784,359, 3-5-57, Cl. 318-28.
- Kamm, Lawrence J., to Sperry Products, Inc. Digital servo-mechanism. 2,792,545, 5-14-57, Cl. 318-467.
- Kamm, Wunibald I. E., to the United States of America as represented by the Secretary of the Air Force. Automatic heater for cockpits, auto bodies and the like. 2,808,877, 10-8-57, Cl. 158-81.
- Kammerer, Archer W.: *See*—
Kammerer, Archer W., Jr. 2,780,830.
Kammerer, Archer W., Jr. 2,799,478.
Kammerer, Archer W., Jr. 2,803,435.
Kammerer, Archer W., Jr. 2,809,016.
- Kammerer, Archer W. Subsurface rotary expansible drilling tools. 2,799,479, 7-16-57, Cl. 255-76.
- Kammerer, Archer W., Jr., to A. W. Kammerer. Pin retainer. 2,780,830, 2-12-57, Cl. 16-169.
- Kammerer, Archer W., Jr., to Rotary Oil Tool Co. Expansible drill bits. 2,799,477, 7-16-57, Cl. 255-76.
- Kammerer, Archer W., Jr., to A. W. Kammerer. Rotary expansible drill bits. 2,799,478, 7-16-57, Cl. 255-76.
- Kammerer, Archer W., Jr., to Archer W. Kammerer. Rotary drill bit and stabilizer. 2,803,435, 8-20-57, Cl. 255-28.
- Kammerer, Archer W., Jr., $\frac{3}{8}$ to A. W. Kammerer, and $\frac{1}{8}$ to J. K. Lamphere. Expansible rotary drill bits. 2,809,016, 10-8-57, Cl. 255-76.
- Kammerer, Archer W., Jr., $\frac{3}{8}$ to Rotary Oil Tool Co. Expansible drill bit with indicator. 2,814,463, 11-26-57, Cl. 255-76.
- Kammerer, Leo P.: *See*—
Rector, John D., Fritze, and Kammerer. 2,777,981.
- Kamp, Ewald A., to the United States of America as represented by the Secretary of the Army. Side ejection arrangement. 2,793,567, 5-28-57, Cl. 89-33.
- Kampa, George L., to Pre-Vue Co., Inc. Mount for rearview mirrors. 2,783,015, 2-26-57, Cl. 248-279.
- Kampe, Richard S.: *See*—
Humphrey, Paul E., and Kampe. 2,816,421.
- Kampfer, Richard H., to Conveyor Specialties Co. Vertical conveyor. 2,805,762, 9-10-57, Cl. 198-165.
- Kampff, Arthur. Matchless cigarette pack. 2,803,376, 8-20-57, Cl. 221-88.

- Kamphausen, Dan : *See*—
Goldtrap, Charley L. 2,809,656.
- Kampherbeek, Geert, to Klan Soey KHO. Overcoats, in particular raincoats. 2,791,776, 5-14-57, Cl. 2-87.
- Kampschmidt, Leonard W. F., to Stamicarbon N. V. Process of purifying caprolactam. 2,786,052, 3-19-57, Cl. 260-239.3.
- Kampschmidt, Leonard W. F., to Stamicarbon N. V. Recovery of lactams from the reaction products obtained by Beckmann transformation of cyclic ketoximes. 2,817,661, 12-24-57, Cl. 260-239.3.
- Kamrass, Murray : *See*—
Dye, Edward R., and Kamrass. 2,788,531.
- Kanady, William E., to Esso Research and Engineering Co. Tubing apparatus. 2,783,844, 3-5-57, Cl. 166-243.
- Kanaley, William D. 10% to W. Koester. Device for indicating sunken objects. 2,785,420, 3-19-57, Cl. 9-9.
- Kanarr, Charles B. : *See*—
Kanarr, George W., and C. B. 2,816,486.
- Kanarr, George W., and C. B. Contour milling machine. 2,816,486, 12-17-57, Cl. 90-13.
- Kanda, Masakichi. Dry cell. 2,809,226, 10-8-57, Cl. 136-133.
- Kandle, Charles W. : *See*—
Lay, Walter H. 2,812,162.
- Kandle, Charles W. Earth boring drills. 2,780,439, 2-5-57, Cl. 255-69.
- Kandle, Charles W. Rotary type tunneling machine. 2,798,707, 7-9-57, Cl. 262-7.
- Kandoian, Armig G., to International Telephone and Telegraph Corp. Antenna couplings. 2,807,713, 9-24-57, Cl. 250-13.
- Kane, Charles A. : *See*—
Flint, Ralph D., and Borglin. 2,785,871.
- Kane, David. Double stroke pumping attachment for a well pumping apparatus. 2,805,580, 9-10-57, Cl. 74-108.
- Kane, Ernest M. Explosion initiating device. 2,779,284, 1-29-57, Cl. 102-70.
- Kane, Ernest M. Aircraft launching and landing device. 2,783,005, 2-26-57, Cl. 244-63.
- Kane, James E. J., and J. R. Jones, to Esso Research and Engineering Co. High barium-content phenolic compounds. 2,781,403, 2-12-57, Cl. 260-609.
- Kane, James L. Safety device to prevent automobile drivers from falling asleep. 2,789,283, 4-16-57, Cl. 340-279.
- Kane, Jasper H. : *See*—
English, Arthur R., and Kane. 2,813,820.
- Kane, John B. : *See*—
Keen, Alexis W., Hugger, Higgins, Kane, and Long. 2,786,237.
- Kane, John T., to Western Electric Co., Inc. Apparatus for forming articles. 2,779,221, 1-29-57, Cl. 78-17.
- Kane, Thomas C., to The Commercial Shearing and Stamping Co. Jet rings. 2,785,924, 3-19-57, Cl. 299-107.
- Kanenbley, William A. Flash arrester. 2,810,631, 10-22-57, Cl. 48-192.
- Kaney, Edward E. Self-unloading transport truck. 2,780,369, 2-5-57, Cl. 214-83.28.
- Kangas, Charles H., to Phillips Petroleum Co. Hydraulic pump. 2,799,226, 7-16-57, Cl. 103-46.
- Kangas, Charles H., to Phillips Petroleum Co. Bottom hole hydraulic pump. 2,818,022, 12-31-57, Cl. 103-4.
- Kangas, Reino W. Automatic control system for lubricant supply. 2,792,912, 5-21-57, Cl. 184-103.
- Kanmak Textiles, Inc. : *See*—
Roberge, Joseph L. 2,784,744.
- Kannenber, Elmer F. Thermometer mouthpiece. 2,797,682, 7-2-57, Cl. 128-2.
- Kannenber, Walter F. : *See*—
Augustadt, Herbert W., and Kannenberg. 2,793,252.
- Kanner, Bernard : *See*—
Brown, Herbert C., and Kanner. 2,780,626.
- Kanno, Kurt. Liquid dispenser. 2,778,537, 1-22-57, Cl. 222-205.
- Kansas City Terminal Warehouse Co. : *See*—
Lester, Robert R. 2,776,723.
- Kansas City Testing Laboratory : *See*—
Cross, Walter M., Jr., and F. Cross. 2,805,972.
- Kant, Arthur : *See*—
Spedding, Frank H., and Kant. 2,796,320.
- Kanter, Harry, to France Neckwear Co., Inc. Necktie form. 2,798,226, 7-9-57, Cl. 2-153.
- Kantor, Simon W., to General Electric Co. Process for making octamethylcyclotetrasiloxane gels. 2,785,147, 3-12-57, Cl. 260-46.5.
- Kantor, Simon W., and R. C. Osthoff, to General Electric Co. 1,2-heptamethylcyclotetrasiloxanyl-ethane and polymeric derivatives thereof. 2,793,222, 5-21-57, Cl. 260-448.2.
- Kantrowitz, Sidney H. Interest-computing device. 2,812,907, 11-12-57, Cl. 235-89.
- Kantzer, Michel, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain Chauny & Crey. Refractories and methods of making them. 2,801,183, 7-30-57, Cl. 106-67.
- Kapanka, William F., and B. F. Meyer, to General Motors Corp. Door hinge, check, and hold-open. 2,775,783, 1-1-57, Cl. 16-139.
- Kapelski, Marion S. Folding mechanism for helicopter type rotor blades. 2,808,116, 10-1-57, Cl. 170-135.4.
- Kapelsohn, Leon, to Scientific Industries, Inc. Operating device for syringe or pipet. 2,792,834, 5-21-57, Cl. 128-218.
- Kaplow, Marvin : *See*—
Bechtold, Edwin W., Kaplow, and Weinstein. 2,800,052.
- Kapin, Martin L., to AV-EL Inc. Bending tool having a selectively positioned fulcrum. 2,805,592, 9-10-57, Cl. 81-15.
- Kaplan, Aaron. Hand throttle device for motor vehicles. 2,784,615, 3-12-57, Cl. 74-482.
- Kaplan, Arthur Y., D. A. Hoyt F. E. Smith, R. W. Tafel, D. F. Tavan, E. Christian, and D. E. Weiss, to the United States of America as represented by the Secretary of the Navy. Reflector attachment for automatically depressing the optical axis of a gun camera. 2,796,815, 6-25-57, Cl. 95-12.5.
- Kaplan, Earl, and W. P. Munroe, to American Cyanamid Co. Preparation of thioindigoid dyestuffs. 2,804,464, 8-27-57, Cl. 260-331.
- Kaplan, Louis : *See*—
Kaplan, Murray and L. 2,817,331.
- Kaplan, Martin, to Radio Corp. of America. Magnetic device. 2-813,260, 11-12-57, Cl. 340-174.
- Kaplan, Murray and L. Four-way broiler stove. 2,817,331, 12-24-57, Cl. 126-41.
- Kaplan, Murray A. : *See*—
Buckwalter, Frank H., Kaplan, and Granatek. 2,795,528.
- Kaplan, Murray A., to Bristol Laboratories Inc. Reduction of streptomycins. 2,790,792, 4-30-57, Cl. 260-210.
- Kaplan, Murray A. Tetracycline metallo-phosphate complexes and method preparation. 2,791,609, 5-7-57, Cl. 260-559.
- Kaplan, Nathan : *See*—
Curtis, Roger W., and Kaplan. 2,804,610.
- Kaplan, Richard D., to Republic Aviation Corp. Jettisonable pilot compartment. 2,781,183, 2-12-57, Cl. 244-140.
- Kaplan, Robert. Golf tees. 2,805,071, 9-3-57, Cl. 273-202.
- Kapp, John C., Inc. : *See*—
Kapp, John C. 2,807,024.
- Kapp, John C., to John C. Kapp, Inc. Toilet tank water saver. 2,807,024, 9-24-57, Cl. 4-18.
- Kapp, John J. : *See*—
Ryan, James F., Jr., and Kapp. 2,785,706.
- Kapp, John J., and Kapp. 2,785,707.
- Kapp, Karl A. Surgical clamping means. 2,796,065, 6-18-57, Cl. 128-346.
- Kapp, Roland : *See*—
Klein, Howard C., and Kapp. 2,776,304.
- Kapp, Roland, and R. Griffith, to Nopco Chemical Co. Non-catalytic preparation of nicotinic acid esters. 2,816,112, 12-10-57, Cl. 260-295.5.
- Kappel, Victor V. Endothermic gas generator. 2,802,725, 8-13-57, Cl. 23-281.
- Kappel, Victor V., to Connecticut Metal Treating Co., Inc. Method and apparatus for determining and/or controlling constituent potentials. 2,818,246, 12-31-57, Cl. 266-2.
- Kappeler, Markus : *See*—
Frisch, Franz, and Kappeler. 2,776,962.
- Grandjean, Philippe, Kehrer, Schneider, Steinemann, and Kappeler. 2,813,852.
- Grandjean, Philippe, Kappeler, Schneider, Steinemann, and Wehrli. 2,817,654.
- Kappler, Herman, to Niemand Bros. Inc. Dispensing container. 2,805,005, 9-3-57, Cl. 222-480.
- Kappus, Peter G., to the United States of America as represented by the Secretary of the Air Force. Variable area jet nozzle. 2,799,989, 7-23-57, Cl. 60-35.55.
- Kapuzin, Dave. Gardening tool. 2,795,923, 6-18-57, Cl. 56-400.05.
- Kapusnyk, Frank. Combined comb and brush. 2,799,283, 7-16-57, Cl. 132-120.
- Karageorgieff, Stojan, to Universal Match Corp. Intermittent-motion apparatus. 2,793,733, 5-28-57, Cl. 198-19.
- Karakin, Vincent. Soil conditioning device for lawn mower. 2,801,512, 8-6-57, Cl. 56-249.
- Karal, Hans, to Aronco Meter Products Corp. Oscillating valve for diaphragm type motors. 2,793,622, 5-28-57, Cl. 121-48.
- Karan, Clarence, to International Business Machines Corp. Method of preparing barium titanate crystals. 2,803,519, 8-20-57, Cl. 23-51.
- Karcher, Harry C., to General Motors Corp. Jet propulsion engine with afterburner. 2,775,864, 1-1-57, Cl. 60-35.6.
- Karcher, Harry C., to General Motors Corp. Jet propulsion combustion apparatus with expansibly mounted fuel manifold. 2,793,495, 5-28-57, Cl. 60-39.72.
- Kardos, Joseph A. Improved endotracheal cuff. 2,792,837, 5-21-57, Cl. 128-351.
- Kardos, Otto, to Hanson-Van Winkle-Munning Co. Bright silver plating. 2,807,576, 9-24-57, Cl. 204-46.
- Karen, H. Peter, to Solar Aircraft Co. Fuel distribution system for jet engine and afterburner. 2,780,915, 2-12-57, Cl. 60-35.6.
- Karen, H. Peter, to Solar Aircraft Co. Method and apparatus for starting gas turbines. 2,798,166, 7-2-57, Cl. 307-18.
- Karig, Horace E., to Waste King Corp. Detergent dispenser. 2,812,881, 11-12-57, Cl. 222-130.

- Karius, William: *See*—
Demarest, Daniel D., Perkins, Karius, and Berendt. 2,775,784.
Demarest, Daniel D., Perkins, Karius, and Berendt. 2,791,797.
Demarest, Daniel D., Perkins, Karius, and Berendt. 2,799,892.
- Karjala, Emil, and N. Lompre. Lunch pail latch. 2,784,992, 3-12-57, Cl. 292—162.
- Karkow, Valdemar B., Jr., to Bell & Howell Co. Check endorsing apparatus. 2,802,416, 8-13-57, Cl. 101—235.
- Karkow, Valdemar B., Jr., to Bell & Howell Co. Switch operating mechanism. 2,802,914, 8-13-57, Cl. 200—61.41.
- Karl, Josef S. Thread tensioning and take-up device. 2,800,779, 7-30-57, Cl. 66—125.
- Karl, Zeile, and R. Sehring, to C. H. Boehringer Sohn. Esters of halogenated phenoxy acetic acids and α -hydroxyaliphatic acids. 2,818,424, 12-31-57, Cl. 260—473.
- Karlan, Jac H., and J. J. Gartner, to Panseal, Inc. Waterproof panel seal nut. 2,786,359, 3-26-57, Cl. 74—18.1.
- Karlan, Jacob. Pivoted latching for finger rings mounted in blind pivot openings. 2,809,502, 10-15-57, Cl. 63—15.3.
- Karlan, Paul. Internal combustion engine. 2,783,751, 3-5-57, Cl. 123—58.
- Karlbay, Henning, and M. Lessen, $\frac{1}{2}$ to O. M. Raphael and $\frac{1}{2}$ to E. G. Ziliac. Vortical flow gas turbine with centrifugal fuel injection. 2,784,551, 3-12-57, Cl. 60—35.6.
- Karlen, Harvey R., to Cory Corp. Agitator for hot chocolate, etc. 2,797,071, 6-25-57, Cl. 259—101.
- Karlick, Robert F., to Westinghouse Electric Corp. Synchronizing apparatus. 2,817,024, 12-17-57, Cl. 307—87.
- Karlin, Maurice, to North American Philips Co., Inc. Telegraphy receiver. 2,794,855, 6-4-57, Cl. 178—70.
- Karlinski, Robert M.: *See*—
Gunderman, Roland E., and Karlinski. 2,814,550.
- Karll, Robert E.: *See*—
Sabol, Albert R., and Karll. 2,799,654.
Sabol, Albert R., and Karll. 2,799,655.
- Karlovsky, Jerry: *See*—
Hlinsky, Emil J., and Karlovsky. 2,808,118.
- Karlson, Gustav V., to Svenska Rotor Maskiner Aktiebolag. Securing parts together in indexed position. 2,818,288, 12-31-57, Cl. 287—53.
- Karlson, John C., to Bendix Aviation Corp. Magnetic amplifier. 2,791,742, 5-7-57, Cl. 323—56.
- Karlson, John C., to Bendix Aviation Corp. Connecting device. 2,808,575, 10-1-57, Cl. 339—92.
- Karlson, John E. Acoustic transducers. 2,816,619, 12-17-57, Cl. 181—27.
- Karlsson, Elov K.: *See*—
Orelind, John R., Pool, Barkstrom, and Karlsson. 2,796,717.
- Karlsson, Olof G.: *See*—
Krantz, Karl G. E., Bergman, Elvingson, and Karlsson. 2,815,860.
- Karlström, Adolf M. R.: *See*—
Albrektsson, John O. G., and Karlström. 2,793,185.
- Karmazin, John. Condenser and method of making same. 2,788,195, 4-9-57, Cl. 257—262.13.
- Karmazin, John, Jr. Method of producing tubing. 2,787,827, 4-9-57, Cl. 29—477.7.
- Karmazin, John, Sr. Metal working. 2,783,726, 3-5-57, Cl. 113—38.
- Karn, James D., J. D. McMichael, and W. W. McMullen, to General Motors Corp. Cleaner silencer structure. 2,783,855, 3-5-57, Cl. 183—44.
- Karnavas, James A.: *See*—
Ernst, Wentworth A., Karnavas, and Bish. 2,808,630.
- Karnes, Eugene C. Tube cutter. 2,796,663, 6-25-57, Cl. 30—102.
- Karney, Rae: *See*—
West, Walter D., and Karney. 2,788,723.
- Karnofsky, George B., to Blaw-Knox Co. System for solvent extraction of oil or the like from solid organic particles. 2,790,708, 4-30-57, Cl. 23—310.
- Karnofsky, George B., to Blaw-Knox Co. Solvent extraction and removal system. 2,811,539, 10-29-57, Cl. 260—412.4.
- Karol, Berton: *See*—
Reitzel, Nicolas M., and Karol. 2,795,488.
- Karol, Reuben H. Apparatus for the consolidation of materials. 2,811,038, 10-29-57, Cl. 73—94.
- Karos, Otto: *See*—
Foulke, Donald G., and Kardos. 2,818,376.
- Karow, Kenneth A., to International Telephone and Telegraph Corp. Digit-absorbing selector. 2,818,469, 12-31-57, Cl. 179—16.
- Karp, Harry R., and A. W. Blanchard, to Bendix Aviation Corp. Method of heating a windshield to remove and prevent ice accumulations. 2,787,696, 4-2-57, Cl. 219—20.
- Karp, Martin E., to National Pneumatic Co., Inc. Vehicle safety control system. 2,783,850, 3-5-57, Cl. 180—82.
- Karpel, William J.: *See*—
Julian, Percy L., and Karpel. 2,789,989.
Julian, Percy L., Meyer, Ryden, and Karpel. 2,816,108.
- Karpeles, Mark A.: *See*—
Pickles, Sidney B., and Karpeles. 2,803,821.
- Karpoff, David: *See*—
Mersereau, Emory P., Jr., and Karpoff. 2,787,293.
- Karr, Benn. Protector for boxed footwear. 2,782,978, 2-26-57, Cl. 229—14.
- Karr, Clarence, Jr.: *See*—
Capell, Robert G., Karr, and Weatherford. 2,776,250.
Capell, Robert G., Karr, and Weatherford. 2,779,718.
- Karr, Theodore J.: *See*—
Vierk, Ernest R., and Karr. 2,785,111.
- Karrer, Lloyd: *See*—
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- Karrer, Paul, and M. Viscontini, to Hoffmann-La Roche Inc. Pyridoxamin derivatives and process for the manufacture thereof. 2,792,402, 5-14-57, Cl. 260—296.
- Karrer, Sebastian: *See*—
Fritts, Robert W., and Karrer. 2,790,021.
Fritts, Robert W., and Karrer. 2,811,440.
Fritts, Robert W., and Karrer. 2,811,441.
Fritts, Robert W., and Karrer. 2,811,571.
Fritts, Robert W., and Karrer. 2,811,720.
Fritts, Robert W., and Karrer. 2,811,721.
Karrer, Sebastian, to Baso Inc. Thermoelectric elements and method of making such elements. 2,811,570, 10-29-57, Cl. 136—5.
- Karson, Jean H.: *See*—
Cohen, Maurice, and Karson. 2,787,311.
- Karstens, Bernard B.: *See*—
Karstens, Edward S. 2,815,582.
- Karstens, Edward S. Electric micrometer ultra precision level. 2,804,692, 9-3-57, Cl. 33—209.
- Karstens, Edward S., $\frac{1}{2}$ to B. B. Karstens. Shaft aligning fixture. 2,815,582, 12-10-57, Cl. 33—180.
- Kartinos, Nicholas J., to General Aniline & Film Corp. Methine dyestuffs. 2,811,544, 10-29-57, Cl. 260—465.
- Kartinos, Nicholas J., J. B. Normington, and W. W. Williams, to General Aniline & Film Corp. Methine dyes for synthetic fibers. 2,789,125, 4-16-57, Cl. 260—465.
- Kartinos, Nicholas J., and J. B. Normington, to General Aniline & Film Corp. Active methylene containing cyano ethyl esters. 2,806,872, 9-17-57, Cl. 260—465.4.
- Katridg-Pak Machine Co.: *See*—
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- Kase, Otto E., to Sperry Rand Corp. Card position selecting means. 2,817,292, 12-24-57, Cl. 101—96.
- Kaseltz, Helmut: *See*—
Köhler, Horst, Richter, and Kaseltz. 2,789,463.
Köhler, Horst, Richter, and Kaseltz. 2,803,167.
- Kasey, John B. Process of recovering tungstic oxide substantially free of molybdenum compounds. 2,801,152, 7-30-57, Cl. 23—19.
- Kasey, John B. Process for recovering rare-earth oxides. 2,805,928, 9-10-57, Cl. 75—1.
- Kashima, Hideo. Respirator. 2,798,483, 7-9-57, Cl. 128—146.
- Kashirsky, Steve J. Heated rear view mirror for vehicles. 2,803,733, 8-20-57, Cl. 219—19.
- Kasle Steel Corp.: *See*—
Bishop, Homer S. 2,789,771.
- Kasmir, Bernard, to Emerson Radio and Phonograph Corp. Transistor pulse delay circuit. 2,787,717, 4-2-57, Cl. 307—88.5.
- Kaspar, Emanuel, and M. Schenck, to Firma Schering A. G. Cortisone-undecylate. 2,794,036, 5-28-57, Cl. 260—397.45.
- Kasper, Andrew A., and W. E. Katz, to Ionics Inc. Method for recovering base ions from waste sulfite liquor and producing sulfite cooking liquor. 2,778,714, 1-22-57, Cl. 23—129.
- Kasper, Elmer J., to Royal Appliance Mfg. Co. Suction cleaner handle construction. 2,786,920, 3-26-57, Cl. 200—157.
- Kassel, Louis S., to Universal Oil Products Co. Contactor. 2,795,489, 6-11-57, Cl. 23—288.
- Kassel, Louis S., to Universal Oil Products Co. Apparatus for contacting subdivided solid particles in a compact and moving bed. 2,818,325, 12-31-57, Cl. 23—288.
- Kassulker, Edward A. Liquid fuel burner. 2,792,879, 5-21-57, Cl. 158—91.
- Kastan, Howard, to Lockheed Aircraft Corp. Truss core. 2,791,386, 5-7-57, Cl. 244—123.
- Kasten, Walter, to Bendix Aviation Corp. Immersion fuel tank filter. 2,810,482, 10-22-57, Cl. 210—460.
- Kastner, John J., and I. C. Mozina. Crystal diode. 2,806,188, 9-10-57, Cl. 317—236.
- Kästner, Otto M., to Aktiebolaget Skanska Cementgjuteriet. Conveyor pumps for viscid masses. 2,797,645, 7-2-57, Cl. 103—52.
- Kastrinsky, Harry, to Kastrinsky Machine Co., Inc. Thread pulling device. 2,779,084, 1-29-57, Cl. 28—17.
- Kastrinsky Machine Co., Inc.: *See*—
Kastrinsky, Harry. 2,779,084.
- Kasuga, Tenuo, to Carbon Heater Corp. Control system for electrical heaters. 2,790,890, 4-30-57, Cl. 219—40.
- Katagiri, Hideo, K. Imai, and T. Tochikura. Process for producing of x-ketoglutaric acid by bacteria of the coli-aerogenes group. 2,786,799, 3-26-57, Cl. 195—48.
- Katayama, Mitsuhiro: *See*—
Yabuta, Teijiro, Ikeda, Shiroyanagi, Fujimaki, and Katayama. 2,803,650.
- Katerman, Myles W., to The Magee Carpet Co. Spinning rings. 2,796,727, 6-25-57, Cl. 57—119.
- Kates, Franklin L. Closure for collapsible tubes. 2,808,186, 10-1-57, Cl. 222—561.
- Kates, Josef, to National Research Council. Electronic vacuum tube. 2,784,312, 3-5-57, Cl. 250—27.
- Kates, Willard A. Fluid flow regulator. 2,800,919, 7-30-57, Cl. 137—504.

- Kath, Norman A. Vacuum cleaner attachment. 2,789,306, 4-23-57, Cl. 15-339.
- Kather, William S., to General Electric Co. Process for rendering calcium-containing masonry water-repellent. 2,803,561, 8-20-57, Cl. 117-121.
- Kather, William S., A. A. Litster, and E. D. Brown, Jr., to General Electric Co. Organopolysiloxane composition for rendering cellulosic materials non-adherent and method of applying same. 2,803,613, 8-20-57, Cl. 260-29.2.
- Katholi, William A., to Union Carbide Corp. Heat exchanger tube spacers. 2,805,049, 9-3-57, Cl. 257-236.
- Kathrans, Opal L.: See—
- Rader, Albert N.: 2,787,209.
- Kato, Kazuharu, and S. Ochiai: said Kato assor. to said Ochiai, Aquarium aerator. 2,788,170, 4-9-57, Cl. 230-23.
- Katsikas, Joseph P. Paint wiper device. 2,784,868, 3-12-57, Cl. 220-90.
- Katsumaru, Kunizo, S. Hayashi, and R. Iwai, to Nippon Den-shin Denwa Koshu. Device for welding faulty point of communication cables. 2,777,988, 1-15-57, Cl. 324-51.
- Katwyk, Clarence and R. R. Green. Fish lure case. 2,801,492, 8-6-57, Cl. 43-54.5.
- Katz, Alex J.: See—
- Bank, Albert M., and Katz. 2,789,585.
- Katz, Armin. Devices having two portions one of which is a sleeve adapted to be fixed on and removed from the other portion. 2,808,670, 8-10-57, Cl. 40-62.
- Katz, Edwin B. Measuring and dispensing containers. 2,781,155, 2-12-57, Cl. 222-284.
- Katz, George, to Radio Corp. of America. Powdered iron magnetic core materials. 2,783,208, 2-26-57, Cl. 252-62.5.
- Katz, Harry. Quick operating flushing apparatus. 2,791,234, 5-7-57, Cl. 137-416.
- Katz, Harry B. Transplanting bag for nursery stock. 2,796,700, 6-25-57, Cl. 47-37.
- Katz, Helmut, to Siemens & Halske Aktiengesellschaft. Cathode for electrical discharge devices. 2,808,530, 10-1-57, Cl. 313-346.
- Katz, Helmut, to Siemens & Halske Aktiengesellschaft. Cathode for use in electrical discharge devices. 2,817,784, 12-24-57, Cl. 313-340.
- Katz, Helmut, and S. Costa, to Siemens & Halske, Aktien-gesellschaft. Cathode for electrical discharge tubes. 2,808,531, 10-1-57, Cl. 313-346.
- Katz, Henry L.: See—
- Proctor, Kenneth L., and Katz. 2,806,006.
- Katz, Jack: See—
- Bruner, Ernest M., Smith, and Oshatz. 2,795,918.
- Katz, Joseph J., to the United States of America as represented by the United States Atomic Energy Commission. Method of reducing heavy metal tetrahalides. 2,797,142, 6-25-57, Cl. 23-14.5.
- Katz, Manfred, and E. L. Wittbecker, to E. I. du Pont de Nemours and Co. Preparation of bischloroformates. 2,787,630, 4-2-57, Cl. 260-463.
- Katz, Milton. Removable portable rollers for luggage. 2,805,077, 9-3-57, Cl. 280-47.13.
- Katz, Russell, to P. Benninghofen and F. B. Diesbach. Carbon paper tear-off knife for autographic registers. 2,778,659, 1-22-57, Cl. 282-19.
- Katz, Samuel: See—
- Lauderdale, Donald M., and Katz. 2,810,533.
- Katz, Siegfert, and S. Kut, to Pearl Varnish Co. Ltd. Di-atomite-phenol-formaldehyde antisweat coating. 2,804,437, 8-27-57, Cl. 260-19.
- Katz, Stanley H.: See—
- Vandeweghe, Joseph. 2,786,791.
- Katz, William E.: See—
- Kasper, Andrew A., and Katz. 2,778,714.
- Katzen, Raphael: See—
- Gould, Merle L., and Katzen. 2,799,687.
- Katzman, Lawrence: See—
- Katzman, Max and L., and Block. 2,802,090.
- Katzman, Max and L., and M. L. Block, to Kaz Mfg. Co., Inc. Vaporizer. 2,802,090, 8-6-57, Cl. 219-40.
- Katzman, Oscar. Indicia mounting means for belt buckles and the like. 2,797,462, 7-2-57, Cl. 24-163.
- Katzner, Jacob B., to M. W. Rosenfeld and H. B. Gorfine, trustees. Cover for cushion in upholstered furniture. 2,778,413, 1-22-57, Cl. 155-182.
- Katzschmann, Ewald, to Imhausen Werke, G. m. b. H. Process for converting aromatic alcohols to aromatic carboxylic acids. 2,810,750, 10-22-57, Cl. 260-523.
- Katzung, Hugo, to Daimler-Benz Aktiengesellschaft. Control arm and spring arrangement for vehicle suspension. 2,801,865, 8-6-57, Cl. 280-124.
- Kauble, Howard B., to The Clyde Kraut Co. Apparatus for treating edible vegetable matter. 2,804,010, 8-27-57, Cl. 99-271.
- Kauble, Howard B., to The Clyde Kraut Co. Process for treating edible vegetable matter. 2,804,390, 8-27-57, Cl. 99-156.
- Kauer, Kenneth C., to The Dow Chemical Co. (Chloro-benzylidenediimino)-bis-thiazoles. 2,780,629, 2-5-57, Cl. 260-306.8.
- Kauer, Kenneth C., to The Dow Chemical Co. Trichloro-ethylidenediimino-bis-thiazole. 2,780,630, 2-5-57, Cl. 260-306.8.
- Kauer, Kenneth C., to The Dow Chemical Co. Thiazolyl chloro-aliphatic amides. 2,780,631, 2-5-57, Cl. 260-306.8.
- Kauffeld, Theodore J. Pulse jet heating burner control system. 2,791,271, 5-7-57, Cl. 158-28.
- Kauffman, Harry F., D. J. Griffiths, and J. S. Mackay, to Pittsburgh Coke & Chemical Co. Process for making fibrous carbon. 2,796,331, 6-18-57, Cl. 23-209.4.
- Kauffman, Jacob C. Tire grooving supporting rack. 2,815,128, 12-3-57, Cl. 211-24.
- Kauffman, Walter L. II, to Lovell Mfg. Co. Dryers. 2,778,124, 1-22-57, Cl. 34-133.
- Kauffman, Walter L., II, to Lovell Mfg. Co. Wringers. 2,784,585, 3-12-57, Cl. 68-256.
- Kauffman, Walter L. II, to Lovell Mfg. Co. Friction roll drum support and drive. 2,803,142, 8-20-57, Cl. 74-206.
- Kauffmann, William M., and H. W. Whiting, to Worthington Corp. Turbocharging system for internal combustion engines. 2,779,155, 1-29-57, Cl. 60-13.
- Kaufman, Abraham, to G. W. Heller, Inc. Body encircling garments. 2,810,912, 10-29-57, Cl. 2-102.
- Kaufman, Albert and L. Window construction. 2,778,068, 1-22-57, Cl. 20-49.
- Kaufman, Albert A., to American Hard Rubber Co. Non-corrosive flexible hose coupling. 2,785,911, 3-19-57, Cl. 285-52.
- Kaufman, Albert A., to Amerace Corp. Method of and apparatus for making a sprinkler hose. 2,802,530, 8-13-57, Cl. 164-108.
- Kaufman, Alfred S. Garment support device. 2,777,134, 1-15-57, Cl. 2-301.
- Kaufman, Alvin B., to Northrop Aircraft, Inc. Temperature control circuit. 2,777,640, 1-15-57, Cl. 236-78.
- Kaufman, Alvin B., to Northrop Aircraft, Inc. Signal converter. 2,815,487, 12-3-57, Cl. 332-3.
- Kaufman, Daniel L., to General Motors Corp. Refrigerant expansion valve. 2,787,130, 4-2-57, Cl. 62-8.
- Kaufman, David, to the United States of America as represented by the United States Atomic Energy Commission. Recovery of uranium from phosphoric acid. 2,789,879, 4-23-57, Cl. 23-14.5.
- Kaufman, David, and S. E. Bailey, to the United States of America as represented by the United States Atomic Energy Commission. Recovery of uranium from ores. 2,780,519, 2-5-57, Cl. 23-14.5.
- Kaufman, David, and G. W. Lower, to American Cyanamid Co. Apparatus for underwater screening. 2,808,928, 10-8-57, Cl. 209-17.
- Kaufman, Elbert L., and R. J. Spellmire, to The Stearns & Foster Co. Carding machine. 2,788,547, 4-16-57, Cl. 19-106.
- Kaufman, George E., to The Hoover Co. Nozzle adjustment for suction cleaners. 2,784,441, 3-12-57, Cl. 15-359.
- Kaufman, George E., to The Hoover Co. Food mixers. 2,789,799, 4-23-57, Cl. 259-134.
- Kaufman, George E., to The Hoover Co. Food mixers. 2,793,839, 5-28-57, Cl. 259-51.
- Kaufman, George E., to The Hoover Co. Mixer spinner assembly. 2,804,290, 8-27-57, Cl. 259-135.
- Kaufman, Jerome W.: See—
- Damm, Carl A., Paraskewik, and Kaufman. 2,812,658.
- Kaufman, John S., and C. F. Lepley, to The Marble Cliff Quarries Co. Terminal construction for electrically heated screens of material separators. 2,808,152, 10-1-57, Cl. 209-238.
- Kaufman, Joseph, and C. P. Skenes, to United States of America as represented by the Secretary of the Army. Holders for electronic components. 2,809,004, 10-8-57, Cl. 248-300.
- Kaufman, Leonard J., to Kaufman Mfg. Co. Lawn trimmer with C-shaped guard. 2,795,095, 6-11-57, Cl. 56-25.4.
- Kaufman, Louis: See—
- Kaufman, Albert and L. 2,778,068.
- Kaufman Mfg. Co.: See—
- Kaufman, Leonard J. 2,795,095.
- Kaufman, Marvin. Baled hay fork. 2,805,096, 9-3-57, Cl. 294-109.
- Kaufman, Maxime G. Electric field detection. 2,815,483, 12-3-57, Cl. 324-72.
- Kaufman, Neil A.: See—
- Woods, Elmer O., MacCauley, and Kaufman. 2,806,928.
- Kaufman, Paul. Lamp fixture light globe support. 2,810,824, 10-22-57, Cl. 240-128.
- Kaufman, Paul. Magnetic coupling device. 2,816,754, 12-17-57, Cl. 268-73.
- Kaufman, Robert. Folding stereoscopic viewer. 2,789,460, 4-23-57, Cl. 88-29.
- Kaufman, Robert. Folding pin hole camera. 2,789,490, 4-23-57, Cl. 95-39.
- Kaufman, Samuel. Back and head rest. 2,807,313, 9-24-57, Cl. 155-174.
- Kaufman, Sidney, to Shell Development Co. Analog computer. 2,781,970, 2-26-57, Cl. 235-61.
- Kaufman, Vern F., to the United States of America as represented by the Secretary of Agriculture. Desiccation of liquiform food products. 2,785,077, 3-12-57, Cl. 99-206.
- Kaufman, William J. Periscopic device for automobiles. 2,796,003, 6-18-57, Cl. 88-70.
- Kaufmann, Arthur. Knitting machine for home use. 2,816,425, 12-17-57, Cl. 66-63.
- Kaufmann, Charles B.: See—
- Burnside, Fred S., Plath, and Kaufmann. 2,777,171.
- Kaufmann, Dale W.: See—
- Hulsebosch, Albert J., and Kaufmann. 2,792,345.
- Kaufmann, Frank H., to Steel Heddle Mfg. Co. Harness for cross weaving. 2,788,021, 4-9-57, Cl. 139-51.

- Kaufmann, Henry W., to Sperry Rand Corp. Magnetic bistable device. 2,786,147, 3-19-57, Cl. 307-88.
- Kaufmann, Henry W., to Sperry Rand Corp. Differencer circuit. 2,807,730, 9-24-57, Cl. 307-106.
- Kaufmann, Henry W., to Sperry Rand Corp. Delay flop. 2,812,448, 11-5-57, Cl. 307-88.
- Kaufmann, John J., to Steel Heddle Mfg. Co. Loom harness. 2,796,083, 6-18-57, Cl. 139-92.
- Kaufmann, Karl G., and J. L. Owings, to the United States of America as represented by the Secretary of the Air Force. Mechanical gear ratio changing mechanism. 2,789,445, 4-23-57, Cl. 74-681.
- Kaufmann, Stephen: *See*—
- Bryant, Harry, Erickson, and Kaufmann. 2,795,704.
- Djerassi, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 2,791,592.
- Kauko, Yrjö. Treating urine with carbon dioxide to make a liquid fertilizer. 2,797,154, 6-25-57, Cl. 71-11.
- Kaul, Ben, to American Radiator & Standard Sanitary Corp. Method of cold shaping tubular steel articles and product. 2,789,344, 4-23-57, Cl. 29-535.
- Kaulakis, Arnold F.: *See*—
- Drews, William P., Kaulakis, and Lewis. 2,784,826.
- Jahnig, Charles E., Kaulakis, and Winkler. 2,789,696.
- Winkler, Raymond W., Martin, and Kaulakis. 2,789,695.
- Kaulakis, Arnold F., to Esso Research and Engineering Co. Apparatus for treating and separating finely divided solids. 2,815,268, 12-3-57, Cl. 23-288.
- Kaulen, Robert. Method of and device for mounting flexible assembling forms on printing cylinders. 2,798,629, 7-9-57, Cl. 216-9.
- Kaulen, Robert and W. W. Krohe; said Krohe assor. to said Kaulen. Device for seamless coating of printing forms, especially of printing cylinders. 2,803,022, 10-1-57, Cl. 118-58.
- Kaulen, Robert and W. W. Krohe; said Krohe assor. to said Kaulen. Method for seamless coating of printing forms. 2,808,344, 10-1-57, Cl. 117-94.
- Kaunitz, Clyde F. Welding apparatus. 2,810,062, 10-15-57, Cl. 219-89.
- Kaupin, William B., and J. P. Patsourakos, to Pacific Mills. Treatment of polyacrylonitrile material with hydroxylamine salts. 2,792,276, 5-14-57, Cl. 8-55.
- Kaus, Peter E.: *See*—
- Epstein, David W., Kaus, and Van Ormer. 2,817,276.
- Kaus, Tyler G.: *See*—
- Bach, Donald, and Kaus. 2,802,291.
- Kautz, Murrell F., to Minneapolis-Honeywell Regulator Co. Safety pilot. 2,815,034, 12-3-57, Cl. 137-65.
- Kavan, Charles. Sod roll forming machine. 2,778,292, 1-22-57, Cl. 97-226.
- Kavanagh, Kevin E., to Texaco Development Corp. Preparing alkali metal coated carrier particles. 2,818,350, 12-31-57, Cl. 117-100.
- Kavanaugh, James F.: *See*—
- Jackson, John H., and Kavanaugh. 2,817,586.
- Kavanaugh, Milam S. Tachistoscope. 2,795,058, 6-11-57, Cl. 35-35.
- Kaveler, Herman H., to Phillips Petroleum Co. Sulfobenzyl-cellulose and its water soluble salts as hydraulic natural cement set retarders. 2,795,507, 6-11-57, Cl. 106-93.
- Kaveler, Herman H., to Phillips Petroleum Co. Sulfalkyl cellulose ethers and their salts as hydraulic natural cement set retarders. 2,795,508, 6-11-57, Cl. 106-93.
- Kaveny, Paul J., to Herman Pneumatic Machine Co. Centrifugal casting apparatus. 2,796,643, 6-25-57, Cl. 22-20.
- Kaveny, Paul J., to Herman Pneumatic Machine Co. Method of forming a mold of compacted material. 2,796,645, 6-25-57, Cl. 22-200.5.
- Kawaller, Jordan: *See*—
- Benson, Arne, Kellerman, and Kawaller. 2,815,501.
- Kawasaki, Edwin P.: *See*—
- Kusner, Robert E., and Kawasaki. 2,810,632.
- Kawneer Co.: *See*—
- Muessel, Dan C. 2,803,857.
- Sigler, Charles R., and Bezaury. 2,789,671.
- Toney, Henry W. 2,796,959.
- Kay, Andrew F., C. B. Meredith, and L. M. Scholl; said Meredith and said Scholl assors to said Kay. Indicator device and means for mounting. 2,813,266, 11-12-57, Cl. 340-378.
- Kay-Brunner Steel Products, Inc.: *See*—
- Miller, Wellington E. 2,809,054.
- Kay-Dee Co., The: *See*—
- Felton, Donald L. 2,785,940.
- Kay-Fries Chemicals, Inc.: *See*—
- Flisik, Alvin C., and Nicholl. 2,809,986.
- Kesslin, George, and Nicholl. 2,802,857.
- Kay, James A.: *See*—
- Adams, James, Jr., and Kay. 2,814,846.
- Kay, John G., to The Budd Co. Machine for forming an annular sheet metal workpiece. 2,802,439, 8-13-57, Cl. 113-88.
- Kay, Kenneth H.: *See*—
- Aitken-Smith, Charles G. G., and Kay. 2,797,295.
- Kay Mfg. Corp.: *See*—
- Krakauer, Edwin G. 2,782,836.
- Kaye, Philip: *See*—
- Heilman, George P., Kaye, Wasynczuk. 2,816,288.
- Kay, Sara H. Infants knee pad. 2,794,982, 6-11-57, Cl. 2-24.
- Kay, William L., Nesting pressing boards. 2,807,106, 9-24-57, Cl. 38-135.
- Kayan, Carl F. Apparatus for calculating heat exchanger performance. 2,802,624, 8-13-57, Cl. 235-61.
- Kaydon Engineering Corp., The: *See*—
- Bourdon, Russell G. 2,778,355.
- Kaye, Emmanuel: *See*—
- Arnot, Alfred E. R. 2,786,436.
- Arnot, Alfred E. R. 2,796,186.
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- Arnot, Alfred E. R. 2,810,488.
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- Kaye, Joseph, and J. B. Reswick, 25% to A. K. Berle. Pressure-feed device. 2,809,774, 10-15-57, Cl. 222-263.
- Kaye, Karl H. Fastener for collapsible wire container. 2,799,423, 7-16-57, Cl. 220-7.
- Kaye, Karl H. Stacking trays. 2,799,426, 7-16-57, Cl. 220-19.
- Kaye, Oliver: *See*—
- Price, Richard H., and Kaye. Re. 24,350.
- Kaye, Robert L. Combination outside stripper and buffer for metal drums. 2,794,195, 6-4-57, Cl. 15-57.
- Kayler, Frank H., to American Steel Foundries. Controlled slack coupler. 2,801,755, 8-6-57, Cl. 213-112.
- Kayser, Allan J. Mobile concrete batcher. 2,811,268, 10-29-57, Cl. 214-512.
- Kayser, Carl: *See*—
- Schackmann, Heinrich, Gregor, Kayser, and Teworte. 2,793,111.
- Kayser, Egon, to Walter Kayser o. H. G. Combination pocket-tool with common leaf spring. 2,809,384, 10-15-57, Cl. 7-11.
- Kayser, Walter, o. H. G.: *See*—
- Kayser, Egon. 2,809,384.
- Kaysun, Inc.: *See*—
- Irwin, Raymond A. 2,778,159.
- Kayton, Robert, W. Freundel, H. R. Jeter, and B. Dudek, to Chadbourne Sales Corp. Hosiery display device. 2,783,880, 3-5-57, Cl. 206-78.
- Kayware Corp.: *See*—
- Stayart, Irving L. 2,792,696.
- Kaz Mfg. Co., Inc.: *See*—
- Katzman, Max and L., and Block. 2,802,090.
- MacKendrick, David B. 2,802,091.
- Kazan, Benjamin, to Radio Corp. of America. Large area photocell. 2,777,040, 1-8-57, Cl. 201-63.
- Kazan, Benjamin, to Radio Corp. of America. Electroluminescent color image reproduction. 2,792,447, 5-14-57, Cl. 178-5.4.
- Kazan, Benjamin, to the United States of America as represented by the Secretary of the Army. Travelling wave amplifier. 2,796,550, 6-18-57, Cl. 315-3.5.
- Kazan, Benjamin, to the United States of America as represented by the Secretary of the Army. Traveling wave thermionic tube. 2,811,664, 10-29-57, Cl. 315-3.6.
- Kazan, Benjamin, to Radio Corp. of America. Phase modulating device. 2,818,548, 12-31-57, Cl. 332-3.
- Kazanowski, Henry P.: *See*—
- Bennett, Wilfred P., and Kazanowski. 2,806,166.
- Kazato, Kenji, and K. Ito. Electron microscope. 2,802,110, 8-6-57, Cl. 250-49.5.
- Kazenias, Zenon: *See*—
- Kohl, Everard F., and Kazenias. 2,790,218.
- Kohl, Everard F., and Kazenias. 2,790,722.
- Kazenias, Zenon, to Switzer Brothers, Inc. Thermoplastic melamine-sulfonamide-formaldehyde resinous materials and process for making same. 2,809,954, 10-15-57, Cl. 260-45.2.
- Kazmierski, Elias A., to The Babcock & Wilcox Co. Gas tube vapor generator. 2,796,048, 6-18-57, Cl. 122-7.
- Kea, Dawson. Roach trap. 2,796,696, 6-25-57, Cl. 43-121.
- Keall, Oswald E., to Marconi's Wireless Telegraph Co. Ltd. Narrow band selective circuit arrangements. 2,813,974, 11-19-57, Cl. 250-20.
- Keane, Robert H., E. W. Taylor, and J. W. Venable, to Virginia-Carolina Chemical Corp. Process for producing fluoride containing compounds by reaction of boric acid and alkali metal silicofluoride. 2,790,705, 4-30-57, Cl. 23-88.
- Keane, Cyril B.: *See*—
- Birrell, Kirk E., and Keane. 2,794,262.
- Keane, Michael A., II: *See*—
- Keane, Thomas T., Sr., M. A. Keane, II, and T. T. Keane, Jr. 2,812,260.
- Keane, T. T., Co., Inc.: *See*—
- Keane, Thomas T., Sr., M. A. Keane, II, and T. T. Keane, Jr. 2,812,260.
- Keane, Thomas T., Jr.: *See*—
- Keane, Thomas T., Sr., M. A. Keane, II, and T. T. Keane, Jr. 2,812,260.
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- Keaneaster, Kenneth K., and H. E. Newlin, to Converted Rice, Inc. Process for producing a quick-cooking product of rice or other starchy vegetables. 2,813,796, 11-19-57, Cl. 99-80.
- Kearby, Kenneth K., and G. R. Gilbert, to Esso Research and Engineering Co. Method of catalyst preparation and regeneration. 2,800,461, 7-23-57, Cl. 252-417.

- Kearfott Co., Inc.: See—
Brown, Robert N. 2,780,940.
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- Kearney, Andrew C. Toilet tank stabilizer bracket. 2,810,136, 10-22-57, Cl. 4—68.
- Kearney, James R., Corp.: See—
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Ortwig, Thomas B. 2,791,651.
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- Kearney, Thomas J., to Detrex Corp. Cleaning apparatus. 2,802,476, 8-13-57, Cl. 134—74.
- Kearney, Thomas J., to Detrex Corp. Method of cleaning. 2,802,758, 8-13-57, Cl. 134—1.
- Kearney, Thomas J., to Detrex Chemical Industries, Inc. Degreasing machine. 2,808,064, 10-1-57, Cl. 134—58.
- Kearney & Trecker Corp.: See—
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Barker, Orrin W., and Lenert. 2,818,002.
Larson, Harold A., and Keaton. 2,788,267.
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Wetzel, Theodore A. 2,785,365.
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- Kearney, William R.: See—
Wright, Manfred G., and Kearney. 2,800,587.
- Kearney, William R., and B. A. Schwarz, to General Motors Corp. Automatic radio tuning means. 2,775,895, 1-1-57, Cl. 74—10,52.
- Keasbey & Mattison Co.: See—
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- Keating, Esmond J., A. S. Cooper, Jr., and E. M. Buras, Jr., to the United States of America as represented by the Secretary of Agriculture. Partial acetylation of cotton fibers. 2,816,003, 12-10-57, Cl. 8—121.
- Keating, Henry B., J. E. Murphy, and B. N. Poss. Reinforcement for barricade for boxcar doors. 2,783,508, 3-5-57, Cl. 20—27.
- Keating, John H., to Monarch Aluminum Mfg. Co. Automatic pouring ladle. 2,806,264, 9-17-57, Cl. 22—82.
- Keating, Patrick J., Jr., and T. C. Heisig, to The Texas Co. Composition for preventing corrosion of metal. 2,785,078, 3-12-57, Cl. 106—14.
- Keating, Thomas J., and E. J. Massello. Safety pocket key ring. 2,777,180, 1-15-57, Cl. 24—73.
- Keaton, Clyde D., and M. F., to Plungermatic Corp. Universal molding machine. 2,792,594, 5-21-57, Cl. 18—30.
- Keaton, Marlin F.: See—
Keaton, Clyde D., and M. F. 2,792,594.
- Keay, Louis K., Jr., to Lukens Steel Co. Process of producing composite metal products. 2,786,265, 3-26-57, Cl. 29—470.9.
- Keay, Louis K., Jr., to Lukens Steel Co. Process of preparing composite metal products. 2,813,332, 11-19-57, Cl. 29—471.5.
- Kebel, Arthur P. Dispensing apparatus. 2,779,514, 1-29-57, Cl. 222—394.
- Keck, Charles L. Manifolding device. 2,793,882, 5-28-57, Cl. 282—29.
- Keck, Norman A. Toy. 2,814,160, 11-26-57, Cl. 46—206.
- Keck, Rod L. Sling-a-bait. 2,817,178, 12-24-57, Cl. 43—19.
- Keck, William G.: See—
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- Kee, Joseph W.: See—
Armstrong, Albert C., and Kee. 2,790,147.
- Kee, Joseph W., to Vitro Corp. of America. Function generator. 2,809,290, 10-8-57, Cl. 250—27.
- Keeble, William J., to Packers Supply Co. Ltd. Apparatus for tensioning binding strapping, wire or the like about a body. 2,779,566, 1-29-57, Cl. 254—79.
- Keech, Dana E. Razor blade strop and method of using the same. 2,809,477, 10-15-57, Cl. 51—198.
- Keefe, Lincoln M., to Stewart Products Corp. Devices for making change. 2,777,553, 1-15-57, Cl. 194—2.
- Keefe, Lincoln M., to R. I. N. Weingart. Coin control and change maker. 2,802,473, 8-13-57, Cl. 133—2.
- Keefe, George E., to Owens-Illinois Glass Co. Apparatus for coating metallic anode buttons. 2,786,442, 3-26-57, Cl. 118—58.
- Keegan, Frank X.: See—
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- Keel, Adolf, to Vickers Inc. Power transmission. 2,776,627, 1-8-57, Cl. 103—162.
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- Keel, Donald K., and C. H. Mayhew, to International Telephone and Telegraph Corp. Vinyl ether and polymer thereof. 2,784,175, 3-5-57, Cl. 260—91.1.
- Keel, Lawrence B., Jr.: See—
Worley, Marvin S., Johnson, and Keel. 2,812,827.
- Keel, Leo F.: See—
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- Keelavite Co., Ltd., The: See—
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- Keeler Brass Co.: See—
Jakeway, Gerald V. 2,787,489.
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Keeler, Miner S., II. 2,800,350.
- Keeler, Donald F., to Sutton Engineering Co. Cross-roll grinding apparatus. 2,787,091, 4-2-57, Cl. 51—95.
- Keeler, John R.: See—
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- Keeler, Miner S., II, to Keeler Brass Co. Safety latch control handle. 2,800,350, 7-23-57, Cl. 292—336.3.
- Keeler, William R., and D. B. Luten, Jr., to Shell Development Co. Recovery of osmium compounds by adsorption on alumina. 2,813,130, 11-12-57, Cl. 260—635.
- Keeleric, George F. Process for making abrasive article. 2,785,060, 3-12-57, Cl. 51—309.
- Keeleric, George F. Grinding wheel assembly. 2,799,980, 7-23-57, Cl. 51—209.
- Keeley, Kedric V. Telegraph repeaters. 2,786,097, 3-19-57, Cl. 178—71.
- Keeling, Harvey A., Sr. Motor vehicle fan regulating mechanism. 2,806,569, 9-17-57, Cl. 192—104.
- Keely, Clifford D. Prefabricated building construction. 2,775,794, 1-1-57, Cl. 20—2.
- Keely, Clifford D. Attachment for handset. 2,777,017, 1-8-57, Cl. 179—157.
- Keen, Alexis W., to United States Rubber Co. Method of continuously producing latex foam. 2,809,172, 10-8-57, Cl. 260—2.5.
- Keen, Alexis W., R. H. Hugger, E. J. Higgins, J. B. Kane, and M. H. Long, to United States Rubber Co. Method of casting rubber soles on shoes. 2,786,237, 3-26-57, Cl. 18—59.
- Keen, Arthur W., to Electric & Musical Industries Ltd. Television receiving apparatus. 2,802,046, 8-6-57, Cl. 178—7.5.
- Keen, Everett M., and A. J. Siciliano; said Siciliano assor, to said Keen. Agitator for bins and the like. 2,798,645, 7-9-57, Cl. 222—226.
- Keen, Henry S.: See—
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- Keen, Victor I. Method of and apparatus for cooling inhabitable and other enclosures. 2,793,509, 5-28-57, Cl. 62—139.
- Keenan, James W., to Bendix Aviation Corp. Humidistat. 2,780,687, 2-5-57, Cl. 200—61.06.
- Keenan, Vincent J., F. J. Gozlow, and R. B. Doan, to The Atlantic Refining Co. Mothproofing and waterproofing composition. 2,804,391, 8-27-57, Cl. 106—15.
- Keenan, William J.: See—
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- Keenan, William J., P. T. Scharf, and W. F. Parsons, to Eastman Kodak Co. Titanium nitride coated optical element. 2,784,639, 3-12-57, Cl. 88—1.
- Keene, Leonard M.: See—
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- Keene, Vivian M. Rack for storing and tying articles. 2,818,180, 12-31-57, Cl. 211—50.
- Keener, John A.: See—
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- Keeney, Rollin D.: See—
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- Keep, Francis J., and R. D. Split shop pliers and dispenser. 2,790,341, 4-30-57, Cl. 81—15.
- Keep, Rex D.: See—
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- Keeping, Patrick A. T., to Metallurgical Processes Ltd. and The National Smelting Co. Ltd., d. b. a. Metallurgical Development Co. Process and apparatus for cooling molten metal. 2,801,162, 7-30-57, Cl. 75—63.
- Keese, Beverly W., to Rockwell Spring and Axle Co. Vehicle drive axles. 2,776,019, 1-1-57, Cl. 180—75.
- Keese, Beverly W., to Rockwell Spring and Axle Co. Vehicle drive mechanism. 2,805,743, 9-10-57, Cl. 192—3.5.
- Keesling, C. H.: See—
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- Keesling, Thomas B., 1/2 to C. H. Keesling. Power operated tool attachment for electric drills and the like. 2,783,790, 3-5-57, Cl. 143—68.
- Keesling, Thomas B., to C. H. Keesling. Free ended saw blade for a power operated saw. 2,783,792, 3-5-57, Cl. 143—133.
- Keever Starch Co., The: See—
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- Keffel, Herbert. Device for the print-like transfer of colours and patterns to carrier materials. 2,811,104, 10-29-57, Cl. 101—131.
- Kegerise, Wesley R., to The Carpenter Steel Co. Alloy steel for use at high temperatures. 2,816,830, 12-17-57, Cl. 75—125.
- Kehe, Alfred W., to The Richardson Co. Arc resistant laminate. 2,781,076, 2-12-57, Cl. 154—2.6.
- Kehler, Theodor K., to Hoerbiger & Co. Plate valves. 2,798,505, 7-9-57, Cl. 137—516.11.
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- Kehrer, Fritz: See—
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- Kehrer, Fritz, and W. Wehrli, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Copper-containing disazo dyestuffs. 2,815,337, 12-3-57, Cl. 260-148.
- Keible, Edward A. Portable hydrocarbon burner. 2,815,019, 12-3-57, Cl. 126-271.2.
- Keidel, Frederick A., to E. I. du Pont de Nemours and Co. Electrolytic drying method. 2,816,067, 12-10-57, Cl. 204-130.
- Keiji Tanaka: See—
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- Keil, Howard L., L. A. Harriman, and A. G. Roberts, to Armour and Co. Method of preparing animal glue. 2,805,186, 9-3-57, Cl. 195-6.
- Keil, Henry P., to The Fixture Hardware Corp. Feed tray side guide lock for duplicating machines. 2,808,262, 10-1-57, Cl. 271-61.
- Keil, Henry P., to The Fixture Hardware Corp. Margin control mechanism for duplicating machines. 2,813,483, 11-19-57, Cl. 101-132.5.
- Keil, Joseph W.: See—
 Currie, Chester C., and Keil. 2,814,601.
- Keil, Karl F. Process for compacting and the plastic stiffening of natural and artificial soils. 2,809,118, 10-8-57, Cl. 106-84.
- Keil, Werner, to Rheinpreussen Aktiengesellschaft für Bergbau und Chemie. Anaesthetic mixture. 2,780,576, 2-5-57, Cl. 167-52.
- Keilig, Wolfgang, to International Standard Electric Corp. Edge-wise conveyor system. 2,809,741, 10-15-57, Cl. 198-185.
- Keim, Gerald I., to Hercules Powder Co. Bactericide composition and method of using same. 2,776,238, 1-1-57, Cl. 167-30.
- Keim, Gerald I., to Hercules Powder Co. Diels-alder reaction. 2,776,277, 1-1-57, Cl. 260-101.
- Keim, Gerald I., to Hercules Powder Co. Stabilized rosin size and a method of stabilizing the same. 2,776,905, 1-8-57, Cl. 106-238.
- Keim, Gerald I., to Hercules Powder Co. Cationic urea-formaldehyde resins and preparation thereof. 2,786,823, 3-26-57, Cl. 260-70.
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- Keim, Gerald I., to Hercules Powder Co. Process for the preparation of cationic polyalkylene modified urea-formaldehyde resins. 2,786,825, 3-26-57, Cl. 260-70.
- Keim, Gerald I., to Hercules Powder Co. Cationic urea-formaldehyde resins and preparation thereof. 2,786,826, 3-26-57, Cl. 260-70.
- Keim, Melville. Tile turning device. 2,814,493, 11-26-57, Cl. 273-148.
- Keim, Paul T.: See—
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- Keintzel, Ernst: See—
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- Keiper, Francis P.: See—
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- Keiper, Francis P. Fruit press. 2,796,826, 6-25-57, Cl. 100-126.
- Keiper, Francis P., Jr., to Philco Corp. Pulse system. 2,776,375, 1-1-57, Cl. 250-36.
- Keiper, Francis P., Jr., to Philco Corp. Transistor amplifier circuit. 2,790,033, 4-23-57, Cl. 179-171.
- Keiper, Phillip C.: See—
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- Keiper, Phillip C., to Westinghouse Electric Corp. Elevator systems. 2,801,710, 8-6-57, Cl. 187-29.
- Keir, Alexander J., and G. E. Hunter, to Worthington Corp. Clutch safety mechanism. 2,804,186, 8-27-57, Cl. 192-85.
- Keir & Cawder Ltd.: See—
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- Keiser, Bernhard: See—
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- Keiser, David L. Locomotive truck. 2,789,519, 4-23-57, Cl. 105-49.
- Keiser, Harry A. Ash tray. 2,804,080, 8-27-57, Cl. 131-237.
- Keiser, Morris, F. B. Daniels, and B. M. Jaffe, to the United States of America as represented by the Secretary of War. Flash azimuth locator having image scanning means. 2,800,831, 7-30-57, Cl. 88-1.
- Ketel, Hellmuth K. Process for the production of magnesium hydroxide from a liquor containing magnesium sulfate and ammonium sulfate. 2,785,048, 3-12-57, Cl. 23-119.
- Ketel, William, to Baker & Co., Inc. Miniature slip ring assembly. 2,798,210, 7-2-57, Cl. 339-5.
- Ketel, William, and M. J. Stumbock, to Baker & Co., Inc. Electrical contact elements. 2,796,495, 6-18-57, Cl. 200-166.
- Ketter, William H. Trolling device. 2,787,077, 4-2-57, Cl. 43-43.13.
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- Keith, Frank H.: See—
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- Keith, Henry I., to F. H. Keith. Scoop for powder dispenser. 2,804,999, 9-3-57, Cl. 222-192.
- Keith, John V., to Universal Winding Co. Winding machine. 2,778,578, 1-22-57, Cl. 242-18.
- Keith, John V., to Universal Winding Co. Twister spindle. 2,785,526, 3-19-57, Cl. 57-58.86.
- Keith, John V., to Universal Winding Co. Traverse cam lubrication. 2,794,517, 6-4-57, Cl. 184-1.
- Keith, John V., and K. D. Kirkman, to Universal Winding Co. Two-for-one stop motion. 2,786,324, 3-26-57, Cl. 57-89.
- Keith, Percival C. Gas generation. 2,779,667, 1-29-57, Cl. 48-196.
- Keith, Percival C., to Hydrocarbon Research, Inc. Hydrocarbon reforming process. 2,779,714, 1-29-57, Cl. 196-50.
- Keith, Wayland D.: See—
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- Keizer, Eugene O., to Radio Corp. of America. Signal operated automatic control circuit for color television receivers. 2,790,846, 4-30-57, Cl. 178-5.4.
- Keizer, Eugene O., to Radio Corp. of America. Color image reproduction apparatus. 2,809,233, 10-8-57, Cl. 178-5.4.
- Keizer, Eugene O., and M. G. Kroger, to Radio Corp. of America. Noise limiter. 2,785,303, 3-12-57, Cl. 250-20.
- Keizer, Eugene O., and M. G. Kroger, to Radio Corp. of America. Automatic gain control means. 2,810,825, 10-22-57, Cl. 250-20.
- Kelbel, Donald W., to Borg-Warner Corp. Transmission. 2,785,583, 3-19-57, Cl. 74-472.
- Kelbel, Donald W., and C. L. Swift, to Borg-Warner Corp. Transmission. 2,799,179, 7-16-57, Cl. 74-472.
- Kelbel, Donald W., and P. Orr, to Borg-Warner Corp. Planetary gear design. 2,813,437, 11-19-57, Cl. 74-759.
- Kelco Co.: See—
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- Keleket X-Ray Corp., The: See—
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- Kelem, Howard, and A. Ackerman. Line storage reel. 2,807,426, 9-24-57, Cl. 242-100.1.
- Kelemen, Frank K., to K S M Products, Inc. Flux-filled arc welding stud. 2,784,014, 3-5-57, Cl. 287-20.2.
- Kelemen, Frank K., and R. K. Ritter, to K S M Products, Inc. Stud welding apparatus. 2,796,513, 6-18-57, Cl. 219-98.
- Keles, Sol. Orthopedic spinal and hip joint attachment. 2,778,358, 1-22-57, Cl. 128-78.
- Keljik, Ver. Photograph background device. 2,815,179, 12-3-57, Cl. 242-67.1.
- Kell, Ray D.: See—
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- Kellar, George E., to Hendey Mfg. Corp. Gate valve construction. 2,793,002, 5-21-57, Cl. 251-204.
- Kellar, Walter C. Fishing tip-up. 2,803,912, 8-27-57, Cl. 43-16.
- Kellaway, Norman P.: See—
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- Kelleher, Ruth V. Post-mastectomy brassiere. 2,779,943, 2-5-57, Cl. 2-42.
- Kellenbarger, Joseph D. Power actuated cradle. 2,794,190, 6-4-57, Cl. 5-103.
- Keller, Arthur G.: See—
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- Keller, Charles. Umbrella runner cap. 2,779,345, 1-29-57, Cl. 135-28.
- Keller, Charles G.: See—
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- Keller, Claris. Adjustable pleats for garment pockets. 2,775,770, 1-1-57, Cl. 2-247.
- Keller, Claris. Adjustable size garments. 2,777,130, 1-15-57, Cl. 2-75.
- Keller, Claris. Adjustable sleeve for dresses. 2,777,132, 1-15-57, Cl. 2-270.
- Keller, Ernest, and E. J. Kubkowski. Switch for high frequency circuit. 2,795,660, 6-11-57, Cl. 200-8.
- Keller, Ernst: See—
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- Keller, Eugene L., to Scripto, Inc. Retractable writing instrument latch means. 2,811,945, 11-5-57, Cl. 120-42.03.
- Keller, George A. Anti-static aircraft antenna assembly. 2,790,023, 4-23-57, Cl. 174-40.
- Keller, George R., to North American Aviation, Inc. Hydraulic regulating valve. 2,800,143, 7-23-57, Cl. 137-623.
- Keller, George R., and R. W. Jenny, to North American Aviation, Inc. Artificial feel device. 2,780,427, 2-5-57, Cl. 244-83.
- Keller, Harold M.: See—
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- Keller, Henry A. Threshold. 2,779,070, 1-29-57, Cl. 20—64.
- Keller, Herbert, to Chemie Grunenthal G. m. b. H. New complex compounds of peptides with zinc. 2,805,216, 9-3-57, Cl. 260—113.
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- Keller, Howard F., Jr.: See—
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- Keller, Hugo F. Artificial lure. 2,797,519, 7-2-57, Cl. 43—42,06.
- Keller, James L., to Union Oil Co. of California. Inhibitor sweetening of straight-run heating oils containing added olefins with a phenylenediamine, alkali and oxygen. 2,793,171, 5-21-57, Cl. 196—29.
- Keller, John D. Method of and apparatus for annealing and coating steel sheets. 2,797,173, 6-25-57, Cl. 117—51.
- Keller, John D. Method of and apparatus for annealing strip steel. 2,797,177, 6-25-57, Cl. 148—15.
- Keller, John W., Jr., to the United States of America as represented by the Secretary of the Army. High-sensitivity voltage-comparator circuit. 2,801,338, 7-30-57, Cl. 250—36.
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Eckart, Robert H. 2,786,565.
- Keller, Maurice A. Magnetic razor blade edge reconditioner. 2,792,108, 5-14-57, Cl. 206—16.
- Keller, Philip B., and W. M. Kofford, to R. T. Collier. Auxiliary cooling system for internal combustion engines. 2,787,986, 4-9-57, Cl. 123—41,21.
- Keller, Siegfried, to Machine Tool Works Oerlikon, Administration Co. Fluid pressure brake. 2,780,499, 2-5-57, Cl. 303—22.
- Keller, Theodore W., and C. W. Garvin, said Garvin assignor to said Keller. Anti-friction former shoes. 2,779,256, 1-29-57, Cl. 93—20.
- Keller, Wayne H.: See—
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- Kellerman, David: See—
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- Kellerman, Ernest F. Rotatable dispenser for cigarettes and like articles. 2,807,370, 9-24-57, Cl. 211—78.
- Kelley, Carl S.: See—
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- Kelley, Carlton O., to L. O. Kelley. Ripper plows. 2,783,699, 3-5-57, Cl. 97—46,59.
- Kelley, Carlton O., to L. O. Kelley. Pivoted shank subsoil contour plow. 2,797,629, 7-2-57, Cl. 97—78.
- Kelley, Cecil S., to Westinghouse Air Brake Co. Airplane brake equipment. 2,777,546, 1-15-57, Cl. 188—176.
- Kelley, Elmer G. Ratchet pipe cutter. 2,782,500, 2-26-57, Cl. 30—99.
- Kelley, Floyd C., to General Electric Co. Method of making sintered electrical contact material. 2,806,786, 9-17-57, Cl. 75—211.
- Kelley, Gilbert A., to Surface Combustion Corp. Air conditioning. 2,798,570, 7-9-57, Cl. 183—2.
- Kelley, Howard E. Catapulting figure toy. 2,817,925, 12-31-57, Cl. 46—129.
- Kelley, Jesse W. Vehicle hitch having a locking stem and automatically operating stem-engaging and disengaging means. 2,812,195, 11-5-57, Cl. 280—510.
- Kelley, John S., to United Shoe Machinery Corp. Adhesive applying apparatus. 2,787,241, 4-2-57, Cl. 118—7.
- Kelley, Leon O.: See—
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Kelley, Carlton O. 2,797,629.
- Kelley, Oliver K.: See—
Schaefer, Robert M., and Kelley. 2,782,658.
- Kelley, Oliver K., to General Motors Corp. Hydrokinetic torque converter and gearing. 2,782,659, 2-26-57, Cl. 74—677.
- Kelley, Oliver K., to General Motors Corp. Four phase converter drive. 2,803,974, 8-27-57, Cl. 74—677.
- Kelley, Oliver K., to General Motors Corp. Transmission. 2,814,214, 11-26-57, Cl. 74—677.
- Kelley, Oliver K., and J. W. Qualman, to General Motors Corp. Vehicle driving and steering transmission and hydraulic control therefor. 2,781,858, 2-19-57, Cl. 180—6,7.
- Kelley, Oliver K., and G. K. Hause, to General Motors Corp. Front wheel mounting for disc brake. 2,816,630, 12-17-57, Cl. 188—264.
- Kelley, Thomas J. Shoe polishing apparatus. 2,817,109, 12-24-57, Cl. 15—267.
- Kelley, Walter A.: See—
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- Kelley, Walter T., and W. L. Kiper; said Kiper assor, to said Kelley. Truck loading and unloading apparatus with leveling means. 2,798,622, 7-9-57, Cl. 214—75.
- Kelley, William O. Retractable-hook fish lure. 2,817,179, 12-24-57, Cl. 43—35.
- Kelling, Max J., to The Kelling Nut Co. Display rack. 2,802,576, 8-13-57, Cl. 211—59.
- Kelling Nut Co., The: See—
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- Kellogg, Bruce H., deceased, by H. J. Kellogg, administratrix, to Food Machinery and Chemical Corp. Wheel balancer. 2,780,939, 2-12-57, Cl. 73—458.
- Kellogg Co.: See—
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Hirsch, Henry and B. L. 2,791,062.
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- Kellogg, Everett J., and A. F. Zang. Switch-type connector fitting for electrical appliances. 2,787,676, 4-2-57, Cl. 200—51,09.
- Kellogg, Harry L., and W. H. Abbott, to General Electric Co. Device for testing wire insulation. 2,809,348, 10-8-57, Cl. 324—54.
- Kellogg, Helen J.: See—
Kellogg, Bruce H. 2,780,939.
- Kellogg, Joseph, to Nordberg Mfg. Co. Cam turn-off device and control therefor. 2,76,032, 1-1-57, Cl. 192—141.
- Kellogg, M. W., Co. The: See—
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Johnson, William B. 2,799,359.
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King, Charles C. 2,787,648.
Lefrancois, Philip A. 2,787,522.
Lefrancois, Philip A. 2,794,005.
Lefrancois, Philip A., Burton, and Riblett. 2,818,393.
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Lobo, Walter E. 2,817,690.
Mader, Charles K. Re. 24,311.
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Mantell, Russell M., and Plescia. 2,776,190.
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McGrath, Henry G. 2,778,805.
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Smith, Richard A. 2,789,959.
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- Kellogg, Warren H. Long bow attachment. 2,815,016, 12-3-57, Cl. 124—35.
- Kellom, David B.: See—
Scigliano, Joseph J., and Kellom. 2,810,722.
- Kelly, Bernard J., W. E. Benedict, and J. F. Dobry, to Congoleum-Nairn, Inc. Method of producing linoleum. Re. 24,394, 11-19-57, Cl. 18—48,8.
- Kelly, Daniel A., to L. B. Kelly. Vent fitting. 2,784,737, 3-12-57, Cl. 137—540,11.
- Kelly, Donald H.: See—
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- Kelly, Donald V.: See—
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- Kelly, Dunford A. Low distortion amplifier. 2,777,905, 1-15-57, Cl. 179—171.
- Kelly, Earl M., and A. M. Kivari, to Process Engineers Inc. Sewage treatment. 2,779,730, 1-29-57, Cl. 210—2.
- Kelly, Earl M., A. M. Kivari, and L. S. Farrell, to Process Engineers Inc. Pressure flotation. 2,779,731, 1-29-57, Cl. 210—3.
- Kelly, Edmund P., and A. Barton. Closure for dust guard chambers in railway journal boxes. 2,797,113, 6-25-57, Cl. 286—6.
- Kelly, Garrett J. Safety clamp shut-off device for hoses of acetylene torches. 2,796,228, 6-18-57, Cl. 251—7.
- Kelly, George L. Swivel connector for electric cords. 2,808,574, 10-1-57, Cl. 339—8.
- Kelly, Guy L. Invalid chair drive and steering mechanism. 2,814,505, 11-26-57, Cl. 280—250.
- Kelly, Harold C., and D. Smick, to The Dow Chemical Co. Method for coating wood and products thereof. 2,804,399, 8-27-57, Cl. 117—73.

- Kelly, Harold C., and E. J. Heiser, to The Dow Chemical Co. Wood coating method and products thereof. 2,804,400, 8-27-57, Cl. 117-85.
- Kelly, James M., to Westinghouse Electric Corp. Copper base alloys. 2,795,501, 6-11-57, Cl. 75-153.
- Kelly, Joe T.: *See*—
May, Paul D., and Kelly. 2,804,491.
- Kelly, Joe T., to The American Oil Co. Alkylation process. 2,814,654, 11-26-57, Cl. 260-683.4.
- Kelly, John C. R., Jr., to Westinghouse Electric Corp. Quality of vanadium trioxide for the manufacturing of ductile vanadium. 2,776,871, 1-8-57, Cl. 23-140.
- Kelly, John C. R., Jr., and E. Gregory, to Westinghouse Electric Corp. Process of preparing and treating refractory metals. 2,776,886, 1-8-57, Cl. 75-211.
- Kelly, John C. R., Jr., and A. G. Catterson, to Westinghouse Electric Corp. Preparation of molybdenum. 2,776,887, 1-8-57, Cl. 75-211.
- Kelly, John D.: *See*—
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- Kelly, John H., Jr., deceased (by M. M. Kelly, administratrix), R. M. and D. E. Glassco, and J. W. White; said R. M. and D. E. Glassco, and J. W. White, assors, to M. M. Kelly. Apparatus for making cellular products. 2,791,404, 5-7-57, Cl. 259-9.
- Kelly, John P.: *See*—
Morrill, Austin L., and Kelly. 2,806,628.
- Kelly, Kenneth O.: *See*—
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- Kelly, Kenneth C. Apparatus for raising gravel from ground level to roof level. 2,803,501, 8-20-57, Cl. 302-17.
- Kelly, Kerwood M.: *See*—
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- Kelly, Lillian B.: *See*—
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- Kelly, Luther I. Nut gathering device. 2,810,252, 10-22-57, Cl. 56-328.
- Kelly, Martin J., to International Business Machines Corp. Information storage unit. 2,784,389, 3-5-57, Cl. 340-173.
- Kelly, Martin J. Lateral outlet fittings for above-ground irrigation pipes. 2,799,469, 7-16-57, Cl. 251-145.
- Kelly, Martin J. Drain tile. 2,810,264, 10-22-57, Cl. 61-11.
- Kelly, Marvin J. Complete factory produced dwelling. 2,795,014, 6-11-57, Cl. 20-2.
- Kelly, Melvin J., to Waldorf Paper Products Co. Ice cream container. 2,800,266, 7-23-57, Cl. 229-37.
- Kelly, Mildred M.: *See*—
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- Kelly, Muel W. Depth gauge control for tractor mounted agricultural implements. 2,791,954, 5-14-57, Cl. 97-47.62.
- Kelly, Patrick S.: *See*—
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- Kelly, Ralph E., to Hercules Powder Co. Method of drying improved cationic urea-formaldehyde resins. 2,816,092, 12-10-57, Cl. 260-71.
- Kelly, Richard: *See*—
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- Kelly, Robert J., and C. E. Bryan, to United States Rubber Co. Process of preparing esters of N-carbamylfumaramic. 2,809,190, 10-8-57, Cl. 260-211.
- Kelly, Samuel P. Metal boat. 2,814,810, 12-3-57, Cl. 9-6.
- Kelly, Wesley C. Easy loading truck for cans or the like. 2,799,409, 7-16-57, Cl. 214-84.
- Kelly, William D. Liquid level indicating device. 2,800,648, 7-23-57, Cl. 340-244.
- Kelman Electric and Mfg. Co.: *See*—
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- Kelmers, Andrew D.: *See*—
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- Kelsay, Hoyt C. Speed governor for a vehicle. 2,785,245, 3-12-57, Cl. 200-80.
- Kelsay, LeRoy W., to Bell Telephone Laboratories, Inc. Cable terminal and method of making same. 2,787,652, 4-2-57, Cl. 174-76.
- Kelsey, Cadwallader W. Soil stirring device. 2,779,259, 1-29-57, Cl. 97-43.
- Kelsey, Charles F. L., and G. W. Whalley. Manually operated control means for automotive vehicles. 2,783,659, 3-5-57, Cl. 74-481.
- Kelsey-Hayes Co.: *See*—
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- Kelsey-Hayes Co.: *See*—Continued
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- Kelsey, Paul S. Refractory block and ladle lining construction. 2,818,248, 12-31-57, Cl. 266-43.
- Kelso, Robert L., and B. G. Peterson, to Rohr Aircraft Corp. Torch metal cutting machine. 2,809,824, 10-15-57, Cl. 266-23.
- Kelso, Thurman M.: *See*—
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- Kelsof, Henry R.: *See*—
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- Kelvin & Hughes Ltd.: *See*—
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Dunn, Reginald W., and Meyer. 2,815,477.
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- Kem Mfg. Co., Inc.: *See*—
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- Kemlite Laboratories: *See*—
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- Kemmer, Harry P.: *See*—
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- Kennitz, Warren N., to General Electric Co. Blower attachment for vacuum cleaner. 2,788,541, 4-16-57, Cl. 15-330.
- Kennitz, Warren N., to General Electric Co. Blower connections for vacuum cleaners. 2,788,936, 4-16-57, Cl. 230-47.
- Kennitz, Warren N., to General Electric Co. Filtering assembly. 2,810,453, 10-22-57, Cl. 183-43.
- Kemp, E. F., Corp.: *See*—
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- Kemp, Harold S., and C. Pyle, to E. I. du Pont de Nemours & Co. Distillation of xylene from dimethyl terephthalate. 2,795,537, 6-11-57, Cl. 202-40.
- Kemp, Stanley G.: *See*—
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- Kemp, William D.: *See*—
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- Kempe, Erhard B., to SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Drafting mechanism for textile machines. 2,793,400, 5-28-57, Cl. 19-135.
- Kemper, Robert J., to Preferred Product Features, Inc. Dripless pouring device. 2,788,161, 4-9-57, Cl. 222-571.
- Kempff, Andries J. G. Post with an insulator for an electric wire. 2,794,061, 5-28-57, Cl. 174-45.
- Kemps, Andreas W. W., to N. V. Fijne Vleeschwaren-en Conservenfabrieken van Anton Hunink. Process for the treatment of meat with a salt solution. 2,806,793, 9-17-57, Cl. 99-159.
- Kenaga, Duane L.: *See*—
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- Kenaga, Duane L., to The Dow Chemical Co. Stabilized wood and a method for its production. 2,811,470, 10-29-57, Cl. 117-147.
- Kenaga, Eugene E.: *See*—
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- Kenaga, Eugene E., to The Dow Chemical Co. Fumigation with chlorofluoropropenes. 2,785,984, 3-19-57, Cl. 99-153.
- Kenaga, Eugene E., to The Dow Chemical Co. Polychlorinated pyrene as a parasiticide. 2,777,794, 1-15-57, Cl. 167-30.
- Kenaga, Eugene E., to The Dow Chemical Co. Polychlorinated fluoranthene as a parasiticide. 2,780,375, 2-5-57, Cl. 167-30.
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- Kendall, Co., The: *See*—
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- Kendall, David L.: *See*—
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- Kendall, Edgar H. Ring forming mill. 2,776,585, 1-8-57, Cl. 80-5.
- Kendall, Fred E., and P. Golar, to Steel Ceilings, Inc. Lead coating process. 2,813,804, 11-19-57, Cl. 117-130.
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- Kendall, Hugh C., to General Railway Signal Co. Inductive control system for railroads. 2,817,012, 12-17-57, Cl. 246-124.
- Kendall, Hugh C., and J. H. Auer, Jr., to General Railway Signal Co. Resonant cavity resonator. 2,805,335, 9-3-57, Cl. 250-36.
- Kendall, James M., and G. A. Henderson, to the United States of America as represented by the Secretary of the Navy. Hydrostatic pressure switch. 2,777,028, 1-8-57, Cl. 200-83.
- Kendall, Larrabee T., to General Motors Corp. Seat spring attachment. 2,785,738, 3-19-57, Cl. 155-179.
- Kendall, Lloyd F., to The Fellows Gear Shaper Co. Gear shaper cutter. 2,801,459, 8-6-57, Cl. 29-95.
- Kendall, Myron A., and A. D. Sinden, to Stephens-Adamson Mfg. Co. Safety landing for moving sidewalk. 2,782,896, 2-26-57, Cl. 198-16.
- Kendall Refining Co.: See—
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- Kender, John A. Combined fish hook, float and sinker assembly. 2,791,060, 5-7-57, Cl. 43-44.9.
- Kendon, Owen M. Water heating apparatus, and an improved pressure actuable valve therefor. 2,786,126, 3-19-57, Cl. 219-38.
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- Kendrick, Philip S., 25% to W. K. Lucas, and 25% to P. S. Kendrick, Jr. Pump valve. 2,793,596, 5-28-57, Cl. 103-155.
- Kenfield, John W. Single joint miter clamp. 2,792,037, 5-14-57, Cl. 144-293.
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- Kenline, Frederick J. Speed indicating apparatus for moving bodies. 2,783,836, 3-5-57, Cl. 161-18.
- Kenmoku, Masamichi, to International Standard Electric Corp. Traveling wave tube. 2,807,742, 9-24-57, Cl. 315-3.5.
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- Kennametal Inc.: See—
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- Kennard, Jarman G., to the United States of America as represented by the Secretary of the Army. Fuel pressurization system. 2,807,209, 9-24-57, Cl. 102-49.
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- Kennecott Copper Corp.: See—
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- Kenneday, John W., G. H. Tausch, and M. E. True, to Esso Research and Engineering Co. Tubular extension member for wells. 2,810,440, 10-22-57, Cl. 166-77.
- Kennedy, Charles H., Jr., to Smith-Corona Inc. Power actuated typing mechanisms for business machines. 2,798,584, 7-9-57, Cl. 197-17.
- Kennedy, Charles J., to Collins Radio Co. Cone of silence simulator. 2,791,842, 5-14-57, Cl. 35-10.2.
- Kennedy, Charles L. Portable cut-off band saw. 2,806,490, 9-17-57, Cl. 143-17.
- Kennedy, Charles L. Carriage feed mechanism for machine tools. 2,809,678, 10-15-57, Cl. 143-17.
- Kennedy, Charles L. Hold down vise. 2,813,559, 11-19-57, Cl. 144-290.
- Kennedy, Claude L.: See—
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- Kennedy, Claude L., and J. S. Harris, to Radio Corp. of America. Telegraph switching system. 2,808,452, 10-1-57, Cl. 178-2.
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- Kennedy, Frank J., to National Electric Products Corp. T and cross boxes for electric header ducts. 2,781,145, 2-12-57, Cl. 220-3.2.
- Kennedy, Frank J., to National Electric Products Corp. Continuous tube mill with tension compensator. 2,782,743, 2-26-57, Cl. 113-33.
- Kennedy, Frank J., to National Electric Products Corp. Apparatus for heating and quenching metal parts. 2,792,211, 5-14-57, Cl. 266-4.
- Kennedy, George E., to Gregory Industries, Inc. Package of nested purlins. 2,788,122, 4-9-57, Cl. 206-65.
- Kennedy, George H., Jr., to United States Envelope Co. Envelope manufacture. 2,811,905, 11-5-57, Cl. 93-62.
- Kennedy, Gilbert J., to Philco Corp. Driving and indication apparatus. 2,810,292, 10-22-57, Cl. 74-10.5.
- Kennedy, Harry E., to Union Carbide and Carbon Corp. Arc electrode feeding control. 2,788,463, 4-9-57, Cl. 314-78.
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- Kennedy, Myron S., Sr., and E. L. Krieg. Sash operator. 2,817,978, 12-31-57, Cl. 74-424.8.
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- Kennedy, Waldron N., and L. Block, to Holly Mfg. Co. Hot air register. 2,790,376, 4-30-57, Cl. 98-114.
- Kennedy, Walter, deceased; The United National Bank of Cliffside Park, administrator. Thermo-bulb heat control for deep frying apparatus. 2,789,768, 4-23-57, Cl. 236-32.
- Kennedy, Walter D., and S. A. J. Fenton, to Kennedy Instruments Ltd. Apparatus for transferring a photographic image. 2,801,580, 8-6-57, Cl. 95-89.
- Kennedy, Walter T., Jr. Valve. 2,804,088, 8-27-57, Cl. 137-448.
- Kennedy, Walter V., to Fram Corp. Liquid filter employing a magnet. 2,795,333, 6-11-57, Cl. 210-223.
- Kennedy, Walter V., to Fram Corp. Liquid filter. 2,804,211, 8-27-57, Cl. 210-434.
- Kennedy, Walter W., to Barber-Colman Co. Adjustable air distribution unit. 2,780,980, 2-12-57, Cl. 98-40.
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- Kenney, William C., to Kenney Mfg. Co. Drapery bracket. 2,809,798, 10-15-57, Cl. 248-263.
- Kennicott, Wilbur L., and C. R. Rutter, to Kennametal, Inc. Tool holder. 2,787,823, 4-9-57, Cl. 29-96.
- Kennison, Hugh F., to Lock Joint Pipe Co. Pipe and method for making the same. 2,805,683, 9-10-57, Cl. 138-25.
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- Kent, Nelson H., N. R. Robinson, and C. Armer, to Rolls-Royce Ltd. Turbo-machines. 2,786,625, 3-26-57, Cl. 230-134.
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- Kent, R. O., Co.: See—
- Crane, Samuel P. 2,781,085.
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- Schlesman, Carleton H., Kent, and Daudelin. 2,788,761.
- Kent, Samuel J.: See—
- Bacon, Clinton J., and Kent. 2,799,858.
- Kenworthy, Heine. Process for obtaining nickel and cobalt from a mixed sulphide matte. 2,790,713, 4-30-57, Cl. 75-82.
- Kenworthy, Herbert H. Apparatus for preparing laminated material particularly as shoe uppers. 2,783,820, 3-5-57, Cl. 154-37.
- Kenworthy, Oswald E. Automatic rope sling couplers. 2,790,671, 4-30-57, Cl. 294-76.
- Kenyon, Bertrand F., to Mechano Gear Shift Co. Heavy duty window balance. 2,782,456, 2-26-57, Cl. 16-198.
- Kenyon, Charles B.: See—
- McKeague, Edward D., and Kenyon. 2,776,930.
- Kenyon, David E., to Sperry Rand Corp. Tuning mechanism for microwave resonator electron tubes. 2,777,968, 1-15-57, Cl. 315-5.
- Kenyon, George W., to Frink Sno-Plows, Inc. Reversible trip blade snow plow. 2,775,830, 1-1-57, Cl. 37-42.
- Kenyon, George W., to Frink Sno-Plows, Inc. Power operated latch and angling mechanism. 2,792,650, 5-21-57, Cl. 37-42.
- Kenyon, George W., to Frink Sno-Plows, Inc. Reversible snow plow. 2,817,910, 12-31-57, Cl. 37-42.
- Kenyon Laboratories, Inc.: See—
- Kenyon, Theodore W. 2,811,042.
- Kenyon, Le Roy T. Counterbalanced and weight operated tongs. 2,815,242, 12-3-57, Cl. 294-110.
- Kenyon, Theodore W., to the United States of America as represented by the Secretary of the Navy. Automatic pilot. 2,790,612, 4-30-57, Cl. 244-76.
- Kenyon, Theodore W., to Kenyon Laboratories, Inc. Stabilizer for sighting devices. 2,811,042, 10-29-57, Cl. 74-5.22.
- Keogh, Clarence T.: See—
- Johnson, Chester W., and Keogh. 2,781,729.
- Johnson, Chester W., and Keogh. 2,789,513.
- Keonjian, Edward, and J. J. Suran, to General Electric Co. Semiconductor wave generator. 2,801,340, 7-30-57, Cl. 200-36.
- Keough, Ronald B. Arm rest for use by embalmers. 2,809,417, 10-15-57, Cl. 27-21.
- Kepes, Adam, to Centre National de la Recherche Scientifique. Apparatus for extraction or fractionation of various solutes. 2,814,553, 11-26-57, Cl. 23-270.5.
- Kepka, Frank: See—
- Heyer, William T., and Kepka. 2,816,569.
- Kepler, Clarence L. Noiseless bathtub. 2,799,025, 7-16-57, Cl. 4-173.
- Keppner, Robert A., to The Regents of the University of California. Asparagus harvester. 2,791,878, 5-14-57, Cl. 56-327.
- Ker, John B. Calculator for predicting menstrual cycles. 2,792,177, 5-14-57, Cl. 235-88.
- Kerfoot, Henry M. Composite tablet machine. 2,800,087, 7-23-57, Cl. 107-1.
- Kerkvliet, Ferdinand G. Feed bunker loader. 2,793,615, 5-28-57, Cl. 119-52.
- Kerle, Edward J.: See—
- Guth, David C., and Kerle. 2,798,059.
- Schuller, Walter H., and Kerle. 2,786,043.
- Kermicle, Harold A.: See—
- Lykins, James H., Barkus, and Kermicle. 2,790,919.
- Kern, George R., to Bowen & Co., Inc. Dental drill. 2,799,934, 7-23-57, Cl. 32-27.
- Kern, Raymond T., Jr.: See—
- Gottshall, Ralph I., Kern, and Peters. 2,786,028.
- Kern, Raymond T., Jr., and J. G. Peters, to Gulf Oil Corp. Compounded turbine oils. 2,789,951, 4-23-57, Cl. 252-32.7.
- Kern, Robert D.: See—
- Erickson, Melvin E., Kern, and Willis. 2,809,812.
- Kern, Roland J., to Monsanto Chemical Co. Homogeneous polymer blends. 2,806,015, 9-10-57, Cl. 260-45.5.
- Kern, Roland J., to Monsanto Chemical Co. Thermal polymerization of acrylonitrile, methacrylonitrile, styrene, and alkyl methacrylates, using thiumam disulfides as initiators. 2,813,849, 11-19-57, Cl. 260-88.7.
- Kern, Rudolf, and W. Lautsch, to Rhein-Chemie G. m. b. H. Manufacture of rubber vulcanizates containing filler and polyethylene glycole ethers. 2,777,008, 1-8-57, Cl. 260-761.
- Kern, Walter: See—
- Caluzzi, Armin, and Kern. 2,791,587.
- Grelat, Maurice, and Kern. 2,804,461.
- Holbro, Theodor, and Kern. 2,792,384.
- Holbro, Theodor, and Kern. 2,807,622.
- Kernan, William: See—
- Sippel, John J., and Kernon. 2,780,907.
- Kernander, Warren N.: See—
- Manning, Ralph M., Kernander, Murray, and Camp. 2,816,184.
- Kernen, Hans. Box-emptying mechanism for fruit-graders. 2,808,951, 10-8-57, Cl. 214-314.
- Kerney, Myron L., to Eastman Kodak Co. Lantern slide storage case. 2,808,148, 10-1-57, Cl. 206-1.
- Kernick, Emily T. Globe clock. 2,785,528, 3-19-57, Cl. 58-44.
- Kernicki, Walter. Handkerchief holder. 2,778,080, 1-22-57, Cl. 24-3.
- Kernodle, Ralph J. Fishing line brake. 2,791,858, 5-14-57, Cl. 43-25.
- Kerns, Fred R., R. Ward, and F. C. Haak, to The Electric Storage Battery Co. Battery element assembling and burning machine. 2,807,227, 9-24-57, Cl. 113-59.
- Kerns, James F. Rotary renovator. 2,778,291, 1-22-57, Cl. 97-52.
- Keroes, Herbert I. Electrical system for ultralinear amplifier. 2,791,646, 5-7-57, Cl. 179-171.
- Kerr, Alexander H., and Co., Inc.: See—
- Steinman, Robert, and Eberz. 2,778,746.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Green corn cutting machine. 2,787,273, 4-2-57, Cl. 130-9.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Line divider. 2,789,680, 4-23-57, Cl. 198-31.
- Kerr, Gilbert A. Machine for rolling and wrapping newspapers, periodicals and the like. 2,813,386, 11-19-57, Cl. 53-119.
- Kerr, Glenn W.: See—
- Stephens, Joseph F., and Kerr. 2,778,405.
- Stephens, Joseph F., and Kerr. 2,778,759.
- Stephens, Joseph F., and Kerr. 2,790,464.
- Kerr, Harold L. Electric plug. 2,810,894, 10-22-57, Cl. 339-99.
- Kerr, Howard E.: See—
- Hyams, Herbert B., and Kerr. 2,812,599.
- Kerr, James M., to Kelsey-Hayes Co. Brake drum. 2,806,559, 9-17-57, Cl. 188-218.
- Kerr, John R., Jr., to the United States of America as represented by the Secretary of the Air Force. Automatic locks for conveyor gates. 2,803,327, 8-20-57, Cl. 193-35.
- Kerr, Karl K., E. J. Kleber, Jr., and S. H. S. Raub, to Union Carbide Corp. Pipe threading die head assembly. 2,808,599, 10-8-57, Cl. 10-123.
- Kerr-Lawson, Douglas E., to Swastika Laboratories Ltd. Flask swirler. 2,804,777, 9-3-57, Cl. 74-42.
- Kerr Mfg. Co.: See—
- Rabchuk, Alexander. 2,816,040.
- Kerr-McGee Oil Industries, Inc.: See—
- Agoston, George A. 2,783,188.
- Goren, Mayer B. 2,786,074.
- Goren, Mayer B., and Elkins. 2,809,938.
- Kerr, Ralph W. Reserve pressure cylinder. 2,789,581, 4-23-57, Cl. 138-31.
- Kerr, Ralph W., and F. C. Cleveland, Jr., to Corn Products Refining Co. Process for the preparation of distarch phosphate and the resulting product. 2,801,242, 7-30-57, Cl. 260-233.5.
- Kerr, Wayne, Laboratories Ltd.: See—
- Cullen, Alexander L. 2,810,884.
- Kerr, William R., to Armstrong Cork Co. Apparatus for image definition. 2,799,203, 7-16-57, Cl. 88-14.
- Kerridge, Norman E., to Stothert & Pitt Ltd. Concrete mixers. 2,810,558, 10-22-57, Cl. 259-175.
- Kerridge, Robert L., and W. Hamilton, to Riegel Paper Corp. Manufacture of glassine and greaseproof papers. 2,792,765, 5-21-57, Cl. 92-20.
- Kersey, Frank N.: See—
- Kersey, John L., Jr. and F. N. 2,793,603.
- Kersey, John L., Jr., and F. N. 2,812,191.
- Kersey, John L., Jr., and F. N. Mine cars. 2,793,603, 5-28-57, Cl. 116-34.
- Kersey, John L., Jr., and F. N. Four wheel steering for mine tractors. 2,812,191, 11-5-57, Cl. 280-91.
- Kershaw, Henry. Method of and apparatus for producing hermetically sealed cartridges. 2,797,303, 6-25-57, Cl. 219-117.
- Kershner, Osborn A., to Lambert Brake Corp. Self-adjusting mechanical brake-operating means for disc brakes and the like. 2,791,295, 5-7-57, Cl. 188-72.
- Kersten, Herbert H. Centrifugal conveyor and mixer. 2,813,703, 11-19-57, Cl. 259-6.
- Kersten, William H., to The Parker Pen Co. Writing instrument. 2,813,511, 11-19-57, Cl. 120-47.03.
- Kerstetter, Donald R., to Sylvania Electric Products Inc. Electro deposited grids for cylindrical type cathodes. 2,795,032, 6-11-57, Cl. 29-25.17.
- Kerth, Max: See—
- Riedmair, Josef, Rein, and Kerth. 2,786,731.
- Kes, Anthony, Jr., to Champlain Co., Inc. Check imprinting press. 2,812,940, 11-12-57, Cl. 271-50.
- Kese, Arnold, and Z. Calendar. 2,807,898, 10-1-57, Cl. 40-108.
- Kese, Zenta: See—
- Kese, Arnold, and Z. 2,807,898.
- Keser, Otto A., 2nd, to Shallcross Mfg. Co. Apparatus for resistor film deposition. 2,810,365, 10-22-57, Cl. 118-47.
- Keser, Walter, to Lufttechnische Gesellschaft m. b. H. Device for atomizing fluids. 2,780,494, 2-5-57, Cl. 299-106.

- Kesler, Herman, to American Metal Specialties Corp. Shoe shine stand. 2,798,245, 7-9-57, Cl. 15-265.
- Kessler, Robert L., to The Garrett Corp. Quick disconnect buckle. 2,795,831, 6-18-57, Cl. 24-205.17.
- Kesling, Keith K.: *See*—
Wurtz, Clifford H., and Kesling. 2,786,338.
- Kesling, Keith K., to General Motors Corp. Refrigerator cabinet door. 2,807,837, 10-1-57, Cl. 20-35.
- Kesling, Keith K., and J. W. Jacobs, to General Motors Corp. Domestic appliance. 2,808,497, 10-1-57, Cl. 219-37.
- Kess, Stanley E.: *See*—
Crosley, Powell, Jr., and Kess. 2,797,681.
- Kesselak, John: *See*—
Kesselak, Nicholas and J. 2,789,857.
- Kesselak, Nicholas and J. Brick pallet unloader. 2,789,857, 4-23-57, Cl. 294-62.
- Kessell, Clifton L. Hydraulic valve lifter plunger puller. 2,814,098, 11-26-57, Cl. 29-267.
- Kesseling, Fritz, to FK G Fritz Kesselring Geratebau A. G. Alternating current switching device. 2,782,345, 2-19-57, Cl. 317-11.
- Kessler Chemical Co., Inc.: *See*—
Logan, Roger L. 2,777,805.
- Kessler, David E. Hand grip for beverage cases. 2,788,933, 4-16-57, Cl. 229-52.
- Kessler, David E. One-piece convertible container. 2,810,506, 10-22-57, Cl. 229-31.
- Kessler, Frank, to General Dynamics Corp. Automatic telephone system. 2,781,418, 2-12-57, Cl. 179-16.
- Kessler, Frank, to General Dynamics Corp. Coin control circuit for telephone systems. 2,786,890, 3-26-57, Cl. 179-6.3.
- Kessler, Frank, to General Dynamics Corp. Automatic telephone system. 2,801,285, 7-30-57, Cl. 179-27.
- Kessler, George A.: *See*—
Salzmann, Leo, Blumer, and Kessler. 2,802,866.
- Kessler, George W., and J. H. Ammon, to The Babcock & Wilcox Co. Steam generator. 2,800,113, 7-23-57, Cl. 122-235.
- Kessler, Harold D., and R. G. Sherman, to Titanium Metals Corp. of America. Heat treating titanium-base alloy products. 2,804,409, 8-27-57, Cl. 148-11.5.
- Kessler, Harry H. Alloy for addition to molten cast iron. 2,810,639, 10-22-57, Cl. 75-122.
- Kessler, Harry L.: *See*—
Schaefer, Ernest R., and Kessler. 2,812,769.
- Kessler, Jack J., to UARCO, Inc. Method of bursting short forms from continuous stationery. 2,803,304, 8-20-57, Cl. 164-84.5.
- Kessler, James R., to General Motors Corp. Variable pitch propeller having an acceleration sensitive device. 2,815,082, 12-3-57, Cl. 170-160.14.
- Kessler, Joseph S., to Ladish Co. Sealed joint for flanged pipe with opposed packing grooves. 2,789,844, 4-23-57, Cl. 285-336.
- Kessler, Joseph S., to Ladish Co. Sealed joint for pipes having conical tapered interfaces. 2,780,483, 2-5-57, Cl. 285-332.
- Kessler, Joseph S., to Ladish Co. Butterfly valves. 2,805,837, 9-10-57, Cl. 251-292.
- Kessler Products Co., Inc.: *See*—
Libman, Max L. 2,794,220.
- Kesslin, George, and L. Nicholl, to Kay-Fries Chemicals, Inc. Method for the preparation of malononitrile. 2,802,857, 8-13-57, Cl. 260-465.2.
- Kester, Ernest B., and R. E. Ferrel, to the United States of America as represented by the Secretary of Agriculture. Method of preparing pre-cooked puffed brown rice cereal. 2,785,070, 3-12-57, Cl. 99-81.
- Kester, Robert A. Saw grinding machine. 2,798,384, 7-9-57, Cl. 76-40.
- Kesting, Melvin F.: *See*—
Busch, Clarence J. 2,789,073.
- Kestler, Otto C. Cataphoresis unit. 2,784,715, 3-12-57, Cl. 128-172.1.
- Ketchledge, Harry W. Garbage pail bottom lining. 2,798,636, 7-9-57, Cl. 220-63.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Communication switching system employing gas tubes. 2,779,822, 1-29-57, Cl. 179-18.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Distortion corrector. 2,790,956, 4-30-57, Cl. 333-28.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Ambient temperature compensation of thermistors. 2,806,200, 9-10-57, Cl. 323-68.
- Ketchum, Clarence A., to The American Laundry Machinery Co. Air operated garment press having two different pressing pressures. 2,788,769, 4-16-57, Cl. 121-38.
- Ketchum, Clarence A., and J. Prendergast, to The American Laundry Machinery Co. Automatic vacuum system for garment press. 2,784,509, 3-12-57, Cl. 38-15.
- Ketchum, Clarence A., and W. D. Kemp, to American Laundry Machinery Co. Rug cleaning machine. 2,785,560, 3-19-57, Cl. 68-205.
- Ketchum, Clarence A., and W. D. Kemp, to The American Laundry Machinery Co. Rug cleaning machine. 2,787,151, 4-2-57, Cl. 68-38.
- Ketchum, Clarence A., and W. D. Kemp, to The American Laundry Machinery Co. Rug cleaning machine. 2,787,153, 4-2-57, Cl. 68-205.
- Ketonen, Toivo K. Means for guiding material in a saw mill. 2,796,896, 6-25-57, Cl. 143-173.
- Ketterer, Stanley J.: *See*—
Smith, Darwin G., and Ketterer. 2,780,193.
- Ketterer, Stanley J., to The Singer Mfg. Co. Devices for inverting piped garment openings. 2,776,788, 1-8-57, Cl. 223-39.
- Ketterer, Stanley J., to The Singer Mfg. Co. Stitched seam adapted for use in finishing piped openings. 2,781,013, 2-12-57, Cl. 112-264.
- Ketteringham, Terence A., and C. F. Machin, to The General Electric Co. Ltd. Semiconductor devices. 2,815,473, 12-3-57, Cl. 317-234.
- Kettleborough, Donald J., to the United States of America as represented by the Secretary of the Army. Latch type closure for containers. 2,797,022, 6-25-57, Cl. 220-57.
- Kettleborough, Donald J., to the United States of America as represented by the Secretary of the Army. Double hinged latched closure. 2,816,684, 12-17-57, Cl. 220-57.
- Kettmann, Andrew P. Portable bucket support for fruit pickers. 2,809,797, 10-15-57, Cl. 248-210.
- Keuffel, August J., to Worthington Corp. Inverted plunger type power pump. 2,808,008, 10-1-57, Cl. 103-170.
- Keuffel, Carl W., C. D. Hillman, and A. L. Baker, to Keuffel & Esser Co. Alignment telescope. 2,784,641, 3-12-57, Cl. 88-32.
- Keuffel & Esser Co.: *See*—
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- Morger, Ernst A. 2,809,431.
- Sus, Oskar, Neugebauer, Böttger, Endermann, and Schäfer. 2,813,792.
- Von Meister, Frederick W. 2,781,265.
- Waddle, Cecil R. 2,809,432.
- Keukens, Hubertus P., and R. Westra, to North American Philips Co., Inc. Flash light lamp and igniter mounting method. 2,799,152, 7-16-57, Cl. 67-31.
- Keuls, Henry P. C. Game apparatus. 2,807,470, 9-24-57, Cl. 273-130.
- Keunecke, Emil, and K. H. Imhausen, to Imhausen Werke G. m. b. H. Process for oxidation of xylenes. 2,809,211, 10-8-57, Cl. 260-524.
- Kewanee Machinery & Conveyor Co.: *See*—
Fulper, John H. 2,784,607.
- Fulper, John H. 2,793,735.
- Fulper, John H., Cooper, and Glidden. 2,818,008.
- Key Metals Corp.: *See*—
Westby, George C. 2,803,594.
- Keyes Fibre Co.: *See*—
Caswell, Benson E. 2,815,856.
- Emery, Richard L. 2,783,879.
- Emery, Richard L. 2,814,427.
- French, Richard S. 2,777,626.
- French, Richard S. 2,809,908.
- Parsons, Wallace E. 2,813,652.
- Williams, Philip M. 2,808,189.
- Keyes, Orval A. Terracer. 2,788,726, 4-16-57, Cl. 97-37.
- Keyko, George J., to Teacher Toys, Inc. Battle-simulation game. 2,799,504, 7-16-57, Cl. 273-131.
- Keyner, Jan J., to Stamicarbon N. V. Electric motor drive mechanism. 2,785,325, 3-12-57, Cl. 310-78.
- Keys, Burl W., Jr.: *See*—
Bergstedt, Milton A., and Keys. 2,818,349.
- Keyser, James H.: *See*—
Harrold, Darwin A., and Keyser. 2,812,683.
- Keystone Chemurgic Corp.: *See*—
Buzas, August J., Dusinski, and Schenck. 2,793,124.
- Khaladji, Jean: *See*—
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- Khalil, Seyed. Tabular stop justifying and setting mechanism. 2,808,143, 10-1-57, Cl. 197-179.
- Khan, Aman U., to Prestole Corp. Fastener secured to strip by staking. 2,777,496, 1-15-57, Cl. 151-41.72.
- Khan, Aman U. Interlock for transmission control and hand brake for automobiles. 2,812,837, 11-12-57, Cl. 192-4.
- Khorana, Har G., to Canadian Patents and Development Ltd. Synthesis of nucleoside polyphosphate. 2,795,580, 6-11-57, Cl. 260-211.5.
- Khorana, Har G., to Canadian Patents and Development Ltd. Synthesis of pyrimidine nucleoside phosphates. 2,815,342, 12-3-57, Cl. 260-211.5.
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Kampherbeek, Geert. 2,791,776.
- Kibbe, Harlow E., to Westinghouse Electric Corp. Food mixer. 2,815,939, 12-10-57, Cl. 259-1.
- Kibler, Charles J.: *See*—
Bell, Alan, Kibler, and Strickland. 2,794,826.
- Kibler, Richard W., to The Firestone Tire & Rubber Co. Process for preparing amine polysulfides. 2,779,761, 1-29-57, Cl. 260-247.1.
- Kibort, Vincetta: *See*—
Pines, Herman, and Ipatieff. 2,804,489.
- Kice, Jack W., to The Coleman Co., Inc. Wall concealed air mixing device. 2,811,091, 10-29-57, Cl. 98-38.
- Kidd, Kenneth B. Measuring dispenser for granular materials. 2,781,955, 2-19-57, Cl. 222-436.
- Kidd, Marshall C., to Radio Corp. of America. Semiconductor sawtooth wave generator. 2,797,327, 6-25-57, Cl. 250-36.
- Kidde Mfg. Co., Inc.: *See*—
Noe, Harold C. 2,782,617.
- Noe, Harold C. 2,810,278.
- Noe, Harold C. 2,817,222.

- Kidde, Walter, & Co., Inc.: *See*—
Eagno, Samuel M., and Cooper. 2,794,974.
Harness, Wayne E. 2,777,919.
- Kidder, Glenn A.: *See*—
Rand, Arthur L., and Kidder. 2,802,893.
- Kidder Press Co., Inc.: *See*—
Willard, Robert P. 2,817,293.
- Kidder, Ward R., to Union Carbide and Carbon Corp. Shell mold clamping machine. 2,793,411, 5-28-57, Cl. 22-90.
- Kidwell, Clarence B. Saw scabbard. 2,792,163, 5-14-57, Cl. 224-2.
- Kidwell, Cleo H., and A. Oswald, Jr., to Reduction Engineering Corp. Classifying and treating method and apparatus. 2,792,114, 5-14-57, Cl. 209-139.
- Kiecker, Ervin A., and T. G. Lange. Combination snow plow and blower. 2,777,218, 1-15-57, Cl. 37-43.
- Kieckhefer Container Co.: *See*—
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- Kiefer, Erich. Parachute drying apparatus. 2,785,479, 3-19-57, Cl. 34-105.
- Kiefer, Erich, and W. Heil, said Heil assor. to said Kiefer. Centrifugal machine for drying parachutes. 2,805,492, 9-10-57, Cl. 34-58.
- Kiefer, Karl, Machine Co., The: *See*—
Fechheimer, Paul R. 2,789,589.
Fechheimer, Paul R., and Rowkamp. 2,779,358.
- Kiefer, Kurt T., to Kurdon, Inc. Slat link. 2,785,743, 3-19-57, Cl. 160-173.
- Kiefer, Paul J.: *See*—
Gams, Theodore C., and Kiefer. 2,778,634.
- Kieffer, Dale C., R. Davis, and H. G. Powers, to Smith-Douglass Co., Inc. Production of pelletized nitrogenous fertilizers. 2,793,801, 7-9-57, Cl. 71-64.
- Kieffert, Pierre A., to Etablissements Ed. Jaeger. Single-phase sync signal control of three-phase synchronous motors. 2,791,734, 5-7-57, Cl. 318-171.
- Kiehne, Alfred J. Tool mountings and release. 2,807,473, 9-24-57, Cl. 279-82.
- Kiekhäfer Corp.: *See*—
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Strang, Charles D. 2,791,196.
- Kiekhäfer, Elmer C. Outboard motor boat. 2,777,412, 1-15-57, Cl. 114-57.
- Kiekhäfer, Elmer C. Transom spray deflector. 2,780,195, 2-5-57, Cl. 114-5.
- Kiekhäfer, Elmer C. Valve for two-cycle internal combustion engine. 2,788,778, 4-16-57, Cl. 123-73.
- Kiekhäfer, Elmer C. Power mower with cutter blade fan for cooling and exhausting motor. 2,791,078, 5-7-57, Cl. 56-25.4.
- Kiekhäfer, Elmer C. Magneto ventilation system. 2,792,821, 5-21-57, Cl. 123-198.
- Kiekhäfer, Elmer C. Air intake silencer chamber. 2,798,470, 7-9-57, Cl. 123-198.
- Kiekhäfer, Elmer C. Engine cowl and magneto ventilation system. 2,798,471, 7-9-57, Cl. 123-198.
- Kiekhäfer, Elmer C. Air intake silencer chamber. 2,815,742, 12-10-57, Cl. 123-198.
- Kiel, Edward C., and H. N. and G. R. Forbes. Radius grinding fixture. 2,789,403, 4-23-57, Cl. 51-224.
- Kiel, Wilhelm K. B., and U. J. R. Eichler; said Kiel assor. to Metall-Guss-und Presswerk Heinrich Diehl G. m. b. H. Calculating machine. 2,780,411, 2-5-57, Cl. 235-63.
- Kielland, Johan L., to The Shawinigan Engineering Co. Ltd. Padlock. 2,813,417, 11-19-57, Cl. 70-45.
- Kielman, Leo L., to the United States of America as represented by the Secretary of the Navy. Spring wound mechanical intervalometer. 2,795,661, 6-11-57, Cl. 200-28.
- Kiemele, John F., and C. R. G. Stewart, to Western Electric Co., Inc. Apparatus for soldering. 2,797,288, 6-25-57, Cl. 219-9.5.
- Kienel, Joseph E. Transfer applicator. 2,776,509, 1-8-57, Cl. 41-1.
- Kienle, Roy H., E. S. Pierce, and P. Newman, to American Cyanamid Co. Soil retardant fabric, and composition and process for producing the same. 2,790,737, 4-30-57, Cl. 117-161.
- Kieras, Joseph A., to The Atlantic Refining Co. Free-flowing powdered waxes. 2,777,776, 1-15-57, Cl. 106-272.
- Kiernan, Joseph F.: *See*—
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- Kiers, Lucas, to Hunter Packing Co. Method of making a bakery shortening. 2,779,679, 1-29-57, Cl. 99-123.
- Kiesbauer, Johannes: *See*—
Simon, Josef, and Kiesbauer. 2,809,024.
- Kiesel, Kenneth A., to Westinghouse Electric Corp. X-ray protective circuits. 2,792,503, 5-14-57, Cl. 250-103.
- Kietz, Hans, to Atlas-Werke Aktiengesellschaft. Measuring railroad tunnels by echo sounding. 2,801,403, 7-30-57, Cl. 340-1.
- Kietzmann, Alfred E.: *See*—
De Roo, William C., Winchester, and Kietzmann. 2,784,659.
- Kiewel, Frank D.: *See*—
Laskow, Luke L., and Kiewel. 2,791,852.
- Kiewit, Peter, Sons' Co.: *See*—
Talbot, William J., Darby and Collins. 2,804,690.
- Kiff, Ben W.: *See*—
Guest, Howard R., and Kiff. 2,800,488.
- Kiffer, Alfred D., and W. T. Black, to Union Carbide Corp. Triorgano (1,4-diformyl-2-butyl) silanes and process for their preparation. 2,805,235, 9-3-57, Cl. 260-448.2.
- Kiffer, Alfred D., and W. T. Black, to Union Carbide Corp. 2,4-di (formyl) cyclopentyltriorganosilanes and process for their preparation. 2,805,236, 9-3-57, Cl. 260-448.2.
- Kiffer, Alfred D., and W. T. Black, to Union Carbide Corp. Process for preparing triorgano (1,4-dicarboxy-2-butyl) silanes. 2,805,237, 9-3-57, Cl. 260-448.2.
- Kigelow, Harry K. Machine for lining a brake shoe. 2,807,306, 9-24-57, Cl. 154-1.
- Kiger, Fred. Lime sifter. 2,800,227, 7-23-57, Cl. 209-262.
- Kiger, Edward S., to Chester Cable Corp. Transmission cable for high frequencies. 2,791,624, 5-7-57, Cl. 174-113.
- Kihlgren, Theodore E.: *See*—
Le Grand, Pierre E., Pease, and Kihlgren. 2,798,824.
- Kihn, Harry, to the United States of America as represented by the Secretary of the Air Force. Storage tube. 2,785,328, 3-12-57, Cl. 313-68.
- Kihn, Harry, to Radio Corp. of America. Variable inductance tuner for constant bandwidth tuning. 2,803,804, 8-20-57, Cl. 333-73.
- Kikuchi, Harry M. Molded plastic container. 2,777,492, 1-15-57, Cl. 150-37.
- Kikuchi, Takefusa, to Taiyu Shoji Kubushiki-Kaisha. Hand truck for drums. 2,779,494, 1-29-57, Cl. 214-650.
- Kilbourne, Frederick L., Jr.: *See*—
Doede, Clinton M., and Kilbourne. 2,777,827.
- Kilbourne, Harry W.: *See*—
Hill, Rutherford B., and Kilbourne. 2,782,139.
- Kilburn, Robert W., and F. D. Hickey, to Food Machinery and Chemical Corp. Apparatus for peeling fruit and vegetables. 2,781,070, 2-12-57, Cl. 146-47.
- Kilburn, Tom: *See*—
Tootill, Geoffrey C., Williams, and Kilburn. 2,777,635.
Tootill, Geoffrey C., Williams, and Kilburn. 2,810,516.
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,789,759.
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,796,218.
Williams, Frederic C., and Kilburn. 2,777,634.
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Williams, Frederic C., and Kilburn. 2,807,749.
Williams, Frederic C., and Kilburn. 2,809,325.
Williams, Frederic C., and Kilburn. 2,810,092.
Williams, Frederic C., and Kilburn. 2,817,042.
Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,813,255.
Williams, Frederic C., Kilburn, and Gibbings. 2,784,907.
Williams, Frederic C., Kilburn, and Tootill. 2,785,855.
Williams, Frederic C., Kilburn, Tootill, and Pollard. 2,800,277.
- Kilburn, Tom, to National Research Development Corp. Electronic digital computing devices. 2,786,628, 3-26-57, Cl. 235-61.
- Kilburn, Tom, F. C. Williams, and E. R. Laithwaite, to National Research Development Corp. Digital data storage systems. 2,807,728, 9-24-57, Cl. 250-219.
- Kilbury, Paul D. Switching apparatus and heater control system. 2,788,416, 4-9-57, Cl. 200-140.
- Kilbury, Paul D. Forced air wall heater. 2,792,826, 5-21-57, Cl. 126-110.
- Kile, Hershel S., 50% to J. R. Donaldson. Oil well heater and reviver. 2,804,149, 8-27-57, Cl. 166-60.
- Kile, Stephen L., to Milwaukee Gas Specialty Co. Pilot burner-thermoelectric generator assembly. 2,783,290, 2-26-57, Cl. 136-4.
- Kilgard, Walter W., and G. Hill, to American Machine & Foundry Co. Wrapping machine. 2,792,677, 5-21-57, Cl. 53-66.
- Kilgariff, Andrew J. Sheet holding and feed control device. 2,790,639, 4-30-57, Cl. 271-18.
- Kilgore, George R., to Radio Corp. of America. Magnetron. 2,782,342, 2-19-57, Cl. 315-39.57.
- Kilgore, Inc.: *See*—
Clauser, Herbert C., and Long. 2,785,632.
Peters, Edward A. 2,808,672.
- Kilheffer, Lawrence D., and J. L. Hagemeyer, to The National Cash Register Co. Selectively programmed perforating apparatus. 2,781,847, 2-19-57, Cl. 164-113.
- Kilian, Thaddeus F.: *See*—
Tommaney, Joseph W., Kilian, and Gabrykewicz. 2,814,172.
- Killam Gas Burner Co.: *See*—
Wedlick, Frank V., and Tyrone. 2,818,112.
- Kille, Lindley A.: *See*—
Breed, Rolland N., Groth, Irwin, Kille, and Riggs. 2,780,410.
- Killebrew, Clarence E., to Clark Equipment Co. Position indicator. 2,808,017, 10-1-57, Cl. 116-124.
- Killey, Robert F., D. H. Welch, and C. A. McKenzie, to Polymer Corp. Ltd. Catalyst injection in low temperature polymerizations. 2,815,334, 12-3-57, Cl. 260-85.3.
- Killian, James W.: *See*—
Matthews, Charles S., and Killian. 2,784,787.
- Killian, Stanley C., and M. Stene, to H. K. Porter Co., Inc., of Pittsburgh. Group operated switches mounted on one pole. 2,778,894, 1-22-57, Cl. 200-48.
- Killian, Stanley C., and W. O. Edison, to H. K. Porter Co., Inc. of Pittsburgh. Packed sleeve joint for buses. 2,784,012, 3-5-57, Cl. 285-369.

- Killingsworth, William D. Safety devices for deep well pump drive shafts. 2,783,319, 2-26-57, Cl. 200-52.
- Killius, William. Automobile bumper, grille and body bending tool. 2,776,537, 1-8-57, Cl. 81-15.
- Killius, William. Swivel dolly block. 2,795,983, 6-18-57, Cl. 81-15.
- Kilman, Robert T., to Bendix Aviation Corp. Illuminated dials. 2,781,737, 2-19-57, Cl. 116-124.4.
- Killough, Jack D. Latch for automatic gates. 2,818,294, 12-31-57, Cl. 292-341.17.
- Kilman, William W. Shoe. 2,791,845, 5-14-57, Cl. 36-71.
- Kilmarx, Louis E., Jr., to Scovill Mfg. Co. Tubeless tire valve. 2,813,568, 11-19-57, Cl. 152-42.7.
- Kilner, Scott B.: *See*—
Boyer, Robert Q., and Kilner. 2,781,303.
- Kilner, William N., to Metropolitan-Vickers Electrical Co. Ltd. Dynamo electric machine cooling. 2,778,959, 1-22-57, Cl. 310-64.
- Kilner, William N., to Metropolitan-Vickers Electrical Co. Ltd. Dynamo-electric machines. 2,779,884, 1-29-57, Cl. 310-64.
- Kilpatrick, John L.: *See*—
Belbes, George J., Hunt, and Kilpatrick. 2,800,574.
- Kilpatrick, Martin, to the United States of America as represented by the United States Atomic Energy Commission. Method for recovering boron values. 2,787,527, 4-2-57, Cl. 23-205.
- Kilpatrick, Myron O., to Phillips Petroleum Co. Pebble heater process and apparatus. 2,791,545, 5-7-57, Cl. 196-52.
- Kilpatrick, Robert H., and F. A. Stovall, to Lockheed Aircraft Corp. Method and apparatus for hot forming material. 2,789,204, 4-16-57, Cl. 219-154.
- Kilpatrick, Robert H. and F. A. Stovall, to Lockheed Aircraft Corp. Apparatus and improvements for hot forming materials. 2,808,501, 10-1-57, Cl. 219-154.
- Kim, Harold Y. W.: *See*—
Shimabukuro, Leona S. 2,789,863.
- Kimball, A. Co.: *See*—
Drillick, John H., Floyd, Halahan, Aronson, and Lyon. 2,792,275.
- Kimball, Benjamin M., to The Cellucord Corp. Spliced construction of twisted paper yarn for use in weaving. 2,808,356, 10-1-57, Cl. 154-53.6.
- Kimball Co.: *See*—
Weimont, Joseph. 2,778,019.
- Kimball, Donald G., to General Electric Co. Rotary switch. 2,798,924, 7-9-57, Cl. 200-167.
- Kimball, James L., to Detroit Controls Corp. Hot and cold water mixing control. Re. 24,398, 12-3-57, Cl. 236-12.
- Kimball, James L., to American Radiator & Standard Sanitary Corp. Hot and cold water mixing control. Re. 24,398, 12-3-57, Cl. 236-12.
- Kimball, John W. Trigger mechanism for a semiautomatic firearm. 2,781,697, 2-19-57, Cl. 89-144.
- Kimball, Lawrence W., and S. C. Shappell, to Sylvania Electric Products Inc. Lead-in wire contacting apparatus. 2,812,994, 11-12-57, Cl. 316-32.
- Kimball, Robert B., and R. A. Ewing, to the United States of America as represented by the United States Atomic Energy Commission. Uranium recovery from ores with hydrochloric acid and acetone. 2,800,387, 7-23-57, Cl. 23-14.5.
- Kimberlin, Charles N., Jr.: *See*—
Hunter, Edward A., and Kimberlin. 2,787,600.
- Whiteley, Robert S., Kimberlin, and Schexnailder. 2,809,169.
- Kimberlin, Charles N., Jr., and R. B. Mason, to Esso Research and Engineering Co. Process for the preparation of carbon disulfide. 2,789,037, 4-16-57, Cl. 23-206.
- Kimberlin, Charles N., Jr., and R. B. Mason, to Esso Research and Engineering Co. Hydrocarbon desulfurization process wherein the sulfur compounds are adsorbed by metallic silver. 2,791,540, 5-7-57, Cl. 196-24.
- Kimberlin, Charles N., Jr., and E. M. Gladrow, to Esso Research and Engineering Co. Process for making eta alumina from aluminum alcoholates. 2,796,326, 6-18-57, Cl. 23-143.
- Kimberlin, Charles N., Jr., and E. M. Gladrow, to Esso Research and Engineering Co. Cracking catalysts production. 2,798,857, 7-9-57, Cl. 252-453.
- Kimberlin, Charles N., Jr., to Esso Research and Engineering Co. Staged calcining of fluid coke with falling, non-fluid bed. 2,812,289, 11-5-57, Cl. 202-31.
- Kimberly, Arthur C. Method, system and device for rebuilding internal combustion engines. 2,778,352, 1-22-57, Cl. 123-188.
- Kimberly-Clark Corp.: *See*—
Beaulieu, Delton C. 2,795,274.
- Bennett, Henry W. 2,788,719.
- Burger, William H., and Wheelhouse. 2,807,954.
- Fanselow, John R. 2,815,763.
- Harwood, Kenneth J., and Le Dain. 2,777,779.
- McIntyre, James W., and Hechtman. 2,803,560.
- Voigtman, Edward H., and Valente. 2,798,850.
- Voigtman, Edward H., and Wolterding. 2,813,596.
- Kimble, Kenneth G., R. C. Gage, and P. H. Greveneged, to National Brass Co. Control valve for a pneumatic pressure system. 2,783,774, 3-5-57, Cl. 137-544.
- Kimbrell, Jack T., to Puritan Compressed Gas Corp. Flowmeter. 2,778,223, 1-22-57, Cl. 73-209.
- Kimbrell, Willard B., $\frac{1}{2}$ to C. O. Engstrand and $\frac{1}{2}$ to J. D. Davies. Drill pipe section. 2,808,231, 10-1-57, Cl. 255-28.
- Kimbrow, Albert M., and L. J. Tunkia, to South Texas Truck Equipment Co., Inc. Wheel mountings for trailers and the like. 2,779,602, 1-29-57, Cl. 280-43.
- Kimbrow, John J., to Radio Corp. of America. Safety mechanism for molding apparatus. 2,807,049, 9-24-57, Cl. 18-16.
- Kimbrough, Frank R., to Ideal Fishing Float Co., Inc. Quick attaching type fishing float. 2,803,917, 8-27-57, Cl. 43-44.87.
- Kimbrough, Frank R., to Ideal Fishing Float Co., Inc. Combination snap-on and swiveling sinker. 2,804,715, 9-3-57, Cl. 43-44.87.
- Kimel, Walter, to Hoffmann-La Roche Inc. Intermediates and preparation of 6-methyl-9-cyclohexylidene-5-nonen-2-one. 2,789,130, 4-16-57, Cl. 260-483.
- Kimel, Walter, to Hoffmann-La Roche Inc. 6-phenyl-5-hepten-2-one. 2,812,353, 11-5-57, Cl. 260-590.
- Kimel, Walter, and N. W. Sax, to Hoffmann-La Roche Inc. Preparation of ketones. 2,795,617, 6-11-57, Cl. 260-595.
- Kimel, Walter, and N. W. Sax, to Hoffmann-La Roche Inc. Cyclic ketones and their preparation. 2,799,706, 7-16-57, Cl. 260-586.
- Kimes, Harold E., to Harold E. Kimes Corp. Metallic inserts for tires. 2,788,048, 4-9-57, Cl. 152-211.
- Kimes, Harold E., Corp.: *See*—
Kimes, Harold E. 2,788,048.
- Kimm, Ewald J., and P. F. Early, to Standard-Thomson Corp. Tank vent controlling mechanism. 2,785,861, 3-19-57, Cl. 236-92.
- Kimmel, George P.: *See*—
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- Kimmel, William E., to Crompton & Knowles Loom Works. Pick and pick loom. 2,781,793, 2-19-57, Cl. 139-232.
- Kimmel, William E., and C. Darwin, to Crompton & Knowles Loom Works. Weft replenishing loom. 2,781,792, 2-19-57, Cl. 139-232.
- Kimsey, William A.: *See*—
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- Kinard, William C., and M. L. Green, to Termite Drills Inc. Drills. 2,816,737, 12-17-57, Cl. 255-69.
- Kindar Corp.: *See*—
Buck, Willard E. 2,812,454.
- Kindelberger, Anna: *See*—
Kindelberger, Irwin W. and A. 2,800,293.
- Kindelberger, Irwin W. and A. Propeller mounting for kites. 2,800,293, 7-23-57, Cl. 244-155.
- Kinder, Howard T. Fishing rod holder. 2,776,514, 1-8-57, Cl. 43-16.
- Kinder, Howard T. Fishing rod holder and hook setting device. 2,804,277, 8-27-57, Cl. 248-42.
- Kindig, Arnie, to The Jeffrey Mfg. Co. Belt supporting and aligning structures. 2,781,670, 2-19-57, Cl. 74-241.
- Kindl, Frank J., to The W. J. Schoenberger Co. Gas range burner control. 2,781,779, 2-19-57, Cl. 137-599.
- Kindle, Robert W., and J. J. Fleming, to United States Rubber Co. Tubeless pneumatic tire and method of making same. 2,776,699, 1-8-57, Cl. 154-14.
- Kindle, Robert W., and J. J. Fleming, to United States Rubber Co. Method of making tubeless tire. 2,788,839, 4-16-57, Cl. 154-14.
- Kindle, Robert W., and J. J. Fleming, to United States Rubber Co. Tubeless tire embodying improved liner. 2,798,527, 7-9-57, Cl. 152-330.
- Kindorf, Orlan C. Structural beam and connecting means. 2,784,812, 3-12-57, Cl. 189-36.
- Kindred, Bob A.: *See*—
Goodwin, Walter H., and Kindred. 2,784,416.
- Goodwin, Walter H., and Kindred. 2,800,345.
- Kindsverer, Howard M., D. L. Armstrong, and H. Watanabe, to Aerojet-General Corp. Method of removing heavy metal ions from white fuming nitric acid. 2,794,703, 6-4-57, Cl. 23-159.
- Kine, Benjamin R.: *See*—
Bettoli, Phillip S., Brown, Eckert, and Kine. 2,778,283.
- Conn, William R., Kine, and Prentiss. 2,795,564.
- Hurwitz, Melvin D., Kine, and Matlin. 2,780,608.
- McLaughlin, Paul J., and Kine. 2,790,735.
- Kine, Benjamin B., and N. A. Matlin, to Rohm & Haas Co. Stabilization of protein-containing textiles. 2,780,567, 2-5-57, Cl. 117-141.
- King, Ace E. Sugar dispenser. 2,778,544, 1-22-57, Cl. 222-456.
- King, Ace E. Dispenser for granular materials. 2,794,580, 6-4-57, Cl. 222-456.
- King, Alfred F., Co., The: *See*—
King, John P. 2,803,447.
- King Associates: *See*—
Barr, William M. 2,789,297.
- King, Burnham W.: *See*—
Zimmerman, Haven M., King, and Schultz. 2,786,782.
- King, Byron W., to Liftainer System Co. Shipping carton. 2,815,163, 12-3-57, Cl. 229-14.
- King, Carl G., to Rotaprint Ltd. Safety guards for power operated machines. 2,794,528, 6-4-57, Cl. 192-133.
- King, Charles C., to The M. W. Kellogg Co. Alkylation of aromatic hydrocarbons. 2,787,648, 4-2-57, Cl. 260-671.
- King, Clarence E.: *See*—
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- King, Donald M. Conveyor systems. 2,777,566, 1-15-57, Cl. 198-183.

- King, Donald M. Conveyor systems. 2,782,727, 2-26-57, Cl. 104-172.
- King, Donald M. Mechanical handling mechanisms or devices. 2,792,953, 5-21-57, Cl. 214-146.5.
- King, Donald M. Conveyor systems. 2,812,724, 11-12-57, Cl. 104-172.
- King, Earle C., and V. K. Heckel, to Mine Safety Appliances Co. Shaft seal. 2,799,522, 7-16-57, Cl. 286-1.
- King, Edward A. H., to Crookes Laboratories, Inc. Orally administrable dry therapeutic composition. 2,789,079, 4-16-57, Cl. 167-65.
- King, Edward K. Fishing bobber. 2,793,447, 5-28-57, Cl. 43-43.14.
- King, Etta E. Hair curling device. 2,783,763, 3-5-57, Cl. 132-34.
- King, Frank S.: See—
Bosomworth, George P., Sprague, and King. 2,802,239.
- King, Frank S., and W. S. Coben, to The Firestone Tire & Rubber Co. Tubeless tire. 2,779,380, 1-29-57, Cl. 152-341.
- King, Fred T., and E. J. Casey, to American Chic Co. Display case. 2,789,700, 4-23-57, Cl. 211-137.
- King, George E., to Westinghouse Electric Corp. Dynamic braking for Ward Leonard system. 2,785,357, 3-12-57, Cl. 318-140.
- King, George E., and A. O. Fitzner, to Westinghouse Electric Corp. Variable voltage motor control. 2,785,359, 3-12-57, Cl. 318-143.
- King, George H.: See—
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- King, Geo. W., Ltd.: See—
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Burrows, Arthur T. C. 2,796,968.
- King, Gilbert, C. E. Roberts, and R. S. Weil, to Minitec. Thermal switch. 2,777,034, 1-8-57, Cl. 200-136.
- King, Glengarry D., to Crown Zellerbach Corp. Overlaid woody material and method of making the same. 2,804,418, 8-27-57, Cl. 154-100.
- King, H. A., Co.: See—
Peirce, Thomas H. 2,802,353.
- King, Herbert B.: See—
Risch, Theodore A., and King. 2,792,490.
- King, Hugh W. Overhead belt work feeding device for a saw. 2,776,679, 1-8-57, Cl. 143-49.
- King, J. P., Sr.: See—
Loomis, Glenn L. 2,780,294.
- King, Jack A.: See—
Anderson, Floyd R., and King. 2,804,411.
- King, Jack A., and W. S. Fallgatter, to Cities Service Research and Development Co. Method of increasing oil recovery. 2,807,324, 9-24-57, Cl. 166-29.
- King, James F. Jr., to The Bahnsen Co. Weight wire locating means for spinning frames. 2,807,053, 9-24-57, Cl. 19-136.
- King, James H. Portable collapsible scaffolding. 2,812,220, 11-5-57, Cl. 304-11.
- King, Joel C. 50% to James W. Patterson. Double ended wrench with adjustable sockets. 2,803,158, 8-20-57, Cl. 81-77.
- King, John H.: See—
Linney, Albert T., and King. 2,787,791.
- King, John L. Paper picker. 2,800,354, 7-23-57, Cl. 294-61.
- King, John L., Jr.: See—
Szady, Leopold T., and King. 2,806,566.
- King, John P., to The Alfred B. King Co. Spool or coil holder. 2,803,447, 8-20-57, Cl. 263-47.
- King, Joseph B., and R. W. Method and apparatus for separating chimney ash. 2,793,711, 5-28-57, Cl. 103-34.
- King, Joseph W. One-piece circle dress. 2,790,974, 5-7-57, Cl. 2-74.
- King, Joseph W. Signal device. 2,796,599, 6-18-57, Cl. 340-258.
- King, Kenneth G.: See—
Walker, Alec H. B., and King. 2,783,395.
- King, Leonard H.: See—
Rosenthal, Louis A., and Badoyannis. 2,791,747.
- King, Lucille. Hair curler and holder therefor. 2,809,642, 10-15-57, Cl. 132-34.
- King Powder Co., Inc., The: See—
Blackburn, Charles A. 2,811,334.
- King, Ralph E., and E. F. Hubacker, to General Electric Co. Oil cooling arrangement in refrigerator system. 2,776,547, 1-8-57, Cl. 62-116.
- King, Robert A., to Union Oil Co. of California. Absorption process. 2,782,141, 2-19-57, Cl. 196-8.
- King, Robert B. Marine toilet. 2,807,025, 9-24-57, Cl. 4-77.
- King, Robert E.: See—
O'Connor, Bernard E., and King. 2,800,294.
- King, Robert J., to Heateube Corp. Electric immersion heater unit. 2,786,931, 3-26-57, Cl. 219-38.
- King, Robert O., to The Minister of National Defence of Her Majesty's Canadian Government. Method and apparatus for carrying out thermal decompositions. 2,786,877, 3-26-57, Cl. 260-683.
- King, Robert W.: See—
King, Joseph B. and R. W. 2,793,711.
- King, Ross M. Silver stop motion devices. 2,799,057, 7-16-57, Cl. 19-168.
- King-Seely Corp.: See—
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- King, Thomas J. Game board apparatus. 2,791,430, 5-7-57, Cl. 273-130.
- King, W. F.: See—
Loomis, Glenn L. 2,780,294.
- King, William B., and E. W. French. Traffic signal lights. 2,784,388, 3-5-57, Cl. 340-22.
- King, William F., to General Motors Corp. Crankshaft balancing machine. 2,787,907, 4-9-57, Cl. 73-462.
- King, William F., to Stephens-Adamson Mfg. Co. Intermediate station for high speed moving sidewalk. 2,804,191, 8-27-57, Cl. 198-76.
- King, William H., and F. H. Thurber, to the United States of America as represented by the Secretary of Agriculture. Improving cottonseed oil while preparing the seed for oil extraction. 2,784,205, 3-5-57, Cl. 260-412.3.
- King, William R.: See—
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- King, William R. Gas cleaners. 2,796,145, 6-18-57, Cl. 183-8.
- King, William R., to Phillips Petroleum Co. Process for controlling feed rate to pellet mill. 2,800,399, 7-23-57, Cl. 23-314.
- King, William R., and W. H. Rushford, to Phillips Petroleum Co. Recovery and classification of solids. 2,779,468, 1-29-57, Cl. 209-144.
- Kingdon, Kenneth H., to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor fuel element. 2,798,848, 7-9-57, Cl. 204-193.
- Kinghorn, Charles M., to Kaiser Aluminum & Chemical Corp. Method of forming lined tubing. 2,803,730, 8-20-57, Cl. 219-8.5.
- Kingsboro Mills, Inc.: See—
Quick, William G., and Wilson. 2,813,325.
- Kingsbury, Chadwick B., and D. J. Lamb, to North American Rayon Corp. False twist spindle. 2,813,393, 11-19-57, Cl. 57-77.3.
- Kingsbury, Edwin F., to Bell Telephone Laboratories, Inc. Electro-optical system. 2,785,316, 3-12-57, Cl. 250-214.
- Kingsbury, Edwin F., to Bell Telephone Laboratories, Inc. Electro-optical system. 2,804,574, 8-27-57, Cl. 315-157.
- Kingsbury, Franklin L.: See—
Foss, Warren M., and Kingsbury. 2,776,222.
- Kingsbury, George R.: See—
Schaefer, Ralph A., and Kingsbury. 2,796,394.
- Kingsbury Machine Works, Inc.: See—
Lakey, Arthur B. 2,785,022.
- Kingsley, Warren G., to Bendix Aviation Corp. Nozzle. 2,786,719, 3-26-57, Cl. 299-120.
- Kingston, Arthur W., to Marconi's Wireless Telegraph Co. Ltd. Cinematographic film traction apparatus. 2,802,392, 8-13-57, Cl. 88-18.4.
- Kingston Products Corp.: See—
Drury, Thomas W. 2,803,728.
Geiger, Hermann, and Aitcheson. 2,810,801.
Higbie, Nathan B., and Norton. 2,801,309.
- Kinickij, Viktor A. Rotor displacement angle indicator for synchronous machines. 2,802,989, 8-13-57, Cl. 324-158.
- Kinkead, George F. Apparatus for preparing food products. 2,818,034, 12-31-57, Cl. 107-1.
- Kinkel, John F., to Consolidated Electrodynamics Corp. Force balance measuring device. 2,780,101, 2-5-57, Cl. 73-398.
- Kinkel, John F., to Consolidated Electrodynamics Corp. Force balance servosystem. 2,814,768, 11-26-57, Cl. 318-32.
- Kinker, Clarence C., to Hoover Ball & Bearing Co. Article burnishing means. 2,786,308, 3-26-57, Cl. 51-3.
- Kinley, John C.: See—
Lawrence, William J., and M. M. and J. C. Kinley. 2,794,619.
- Kinley, John C. Pipe calipers. 2,794,260, 6-4-57, Cl. 33-178.
- Kinley, Myron M.: See—
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- Kinman, George I. Valves for internal combustion engines. 2,799,266, 7-16-57, Cl. 123-188.
- Kinn, Theodore P.: See—
Rambo, Sheldon I., and Kinn. 2,809,293.
- Kinn, Theodore P., and R. H. Hagopian, to Westinghouse Electric Corp. Generator arc protection circuit. 2,792,483, 5-14-57, Cl. 219-10.77.
- Kinna, Norman G., to The Bowater Research and Development Co. Ltd. Drums. 2,810,505, 10-22-57, Cl. 229-5.7.
- Kinnear, Harry B., to Chromium Mining and Smelting Corp., Ltd. Riser composition and a method of using the same. 2,791,815, 5-14-57, Cl. 22-215.
- Kinnear, Joseph D., Jr. Fuse holder. 2,802,920, 8-13-57, Cl. 200-133.
- Kinnebrew, William O. Time-controlled cigarette case. 2,812,851, 11-12-57, Cl. 206-41.2.
- Kinneer, James L., to Swift & Co. Attachment for power lift truck. 2,792,134, 5-14-57, Cl. 214-77.
- Kinneman, William P.: See—
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- Kinney, David C., and D. L. Donovan, to Continental Motors Corp. Engine cylinder block and head assembly. 2,775,963, 1-1-57, Cl. 123-193.
- Kinney, Edwin E. Bracket for outdoor advertising display panel trimming. 2,789,042, 4-16-57, Cl. 248-300.
- Kinney, Francis D. Guard for the release catch of a type-writer shelf. 2,776,178, 1-1-57, Cl. 312-21.
- Kinney, John: See—
Jansey, Ronald P. 2,809,006.

- Kinney, John W., Jr.: *See*—
Knoop, Herbert D., and Kinney. 2,791,324.
- Kinney, Selwyn P., and F. Osborne. Iron retention and slag regulating pit. 2,809,028, 10-8-57, Cl. 266-37.
- Kinnicutt, Roger, Jr., to Morgan Construction Co. Conveying apparatus. 2,815,847, 12-10-57, Cl. 198-34.
- Kinnison, John E. Volumetric combustion method and apparatus. 2,804,919, 9-3-57, Cl. 158-109.
- Kinoshita & Co., Ltd.: *See*—
Osawa, Itaru. 2,797,545.
- Kins, George H. Pressure vessel. 2,779,972, 2-5-57, Cl. 18-30.
- Kinsel, Anthony: *See*—
Phillips, Joseph, and Kinsel. 2,779,710.
- Kinsella, Edward, and E. W. Poole, to British Celanese Ltd. Twisting-and-winding machine. 2,814,175, 11-26-57, Cl. 57-52.
- Kinsella, John: *See*—
Crowder, Cecil L., and Kinsella. 2,791,668.
- Kinsey, Claude J., to General Motors Corp. Shielding device. 2,795,978, 6-18-57, Cl. 77-55.
- Kinsey, Deryl K.: *See*—
Giel, George J., and Kinsey. 2,788,470.
- Kinsey, Edward C. Exercising device. 2,797,921, 7-2-57, Cl. 272-82.
- Kinsey, Philip H. Self-propelled garden cultivator. 2,777,374, 1-15-57, Cl. 97-41.
- Kinsinger, Andrew S. Composite excavating and earth distributing and leveling machine. 2,784,607, 3-12-57, Cl. 37-98.
- Kinsman, Clarence W. Structural planking unit for walls or floors. 2,777,318, 1-15-57, Cl. 72-32.
- Kinsman, Clarence W. Trailable building. 2,805,884, 9-10-57, Cl. 296-23.
- Kinstler, Robert C., and R. H. Ebel, to American Cyanamid Co. Isolation process for 2-aminothiophenol. 2,791,612, 5-7-57, Cl. 260-578.
- Kintz, Robert M., to General Electric Co. Methods of making insulated cabinets. 2,795,020, 6-11-57, Cl. 20-101.
- Kintzel, John D., to Nordendale Mfg. Co., Inc. Coin controlled vending machine. 2,799,430, 7-16-57, Cl. 221-181.
- Kintzer, Nicholas D., to the United States of America as represented by the Secretary of the Army. Box magazine for cartridges in a U-shaped loop. 2,799,957, 7-23-57, Cl. 42-50.
- Kintzing, Reese T., to Westinghouse Electric Corp. Multi-cam assembly with replaceable cam units. 2,791,916, 5-14-57, Cl. 74-568.
- Kinzelman, Joseph. Ironing device. 2,780,859, 2-12-57, Cl. 29-128.
- Kinzinger, Siegfried M.: *See*—
Bartovics, Albert, and Kinzinger. 2,815,558.
- Kip, Charles E.: *See*—
Fortess, Fred, Hohing, and Kip. 2,805,992.
- Kip, Charles E., and H. K. Hughes, to Celanese Corp. of America. Drying of filamentary materials. 2,805,490, 9-10-57, Cl. 34-9.
- Kiper, Wilbur L.: *See*—
Kelley, Walter T., and Kiper. 2,798,622.
- Kipers, Richard F., to The Trescott Co., Inc. Bag lifter and opener. 2,814,488, 11-26-57, Cl. 271-26.
- Kipnis, Frank, to Lincoln Laboratories, Inc. Burn treatment filling for pressure packaged dispenser. 2,801,201, 7-30-57, Cl. 167-58.
- Kipp, Calvin P., to Federal Electric Products Co. Contact feed mechanism. 2,798,935, 7-9-57, Cl. 219-79.
- Kippe, Otto, 1/2 to E. O. Tobeler, d. b. a. Trans Oceanic. Method of producing magnesium hydroxide from dolomite by means of nitric acid. 2,801,155, 7-30-57, Cl. 23-201.
- Kipour, Perry R., to Olin Mathieson Chemical Corp. Process for preparing thiosemicarbazide. 2,806,880, 9-17-57, Cl. 260-552.
- Kiralfy, Alexander E. Miniature electric motor for toy locomotives. 2,791,704, 5-7-57, Cl. 310-1.
- Kiraly, Joseph L. Aerosol valve assembly. 2,811,390, 10-29-57, Cl. 299-95.
- Kirby, Ben H., Jr., to General Aniline & Film Corp. Production of 2,2'-dihydroxy-1,1'-aldazines of the benzene and naphthalene series. 2,818,432, 12-31-57, Cl. 260-566.
- Kirby, Forrest L. Vibration testing attachment for aircraft engines. 2,778,221, 1-22-57, Cl. 73-70.
- Kirby, Henry L., to John B. Stetson Co. Insert for supporting a hat in a box. 2,786,570, 3-26-57, Cl. 206-9.
- Kirby, James B., to The Apex Electrical Mfg. Co. Clothes washing machine. 2,797,569, 7-2-57, Cl. 68-23.
- Kirby, James B., to The Apex Electrical Mfg. Co. Acceleration control device for centrifugal extractors. 2,802,356, 8-13-57, Cl. 68-23.
- Kirby, John D.: *See*—
Axvall, Gordon N. 2,799,429.
- Kirby, John F., and W. H. Thys, to Mosstype Roller Co., Inc. Printing plate cylinder and method of mounting or demounting same from a mandrel. 2,787,956, 4-9-57, Cl. 101-375.
- Kirby, John H., II. Core drilling apparatus. 2,789,790, 4-23-57, Cl. 255-72.
- Kirby, John H., II. Magnetic fishing tool and method of manufacture. 2,790,116, 4-23-57, Cl. 317-159.
- Kirby, Robert E., W. H. Anderson, and M. P. Vore, to Westinghouse Electric Corp. Multiple station horizontal scanner. 2,792,212, 5-14-57, Cl. 266-41.
- Kirby, Thomas G., and T. H. Oster, to Ford Motor Co. Dynamotor. 2,782,329, 2-19-57, Cl. 310-138.
- Kirby, Virgil D., to Arranbee Doll Co., Inc. Slow-closing doll's eye assembly. 2,813,372, 11-19-57, Cl. 46-169.
- Kirby, Wilfred, to Vickers-Armstrongs (Engineers) Ltd. Severing device for wire and the like. 2,799,335, 7-16-57, Cl. 164-41.
- Kirch, Ernst, to Felten & Guillaume Carlswerke Aktiengesellschaft. Electric cables with laminated aluminum and lead sheath. 2,785,218, 3-12-57, Cl. 174-106.
- Kirchel, Alan A., to Muirhead & Co. Ltd. Rotary stud switches. 2,786,104, 3-19-57, Cl. 200-11.
- Kirchel, Alan A., to Muirhead & Co. Ltd. Paper roll holder. 2,809,790, 10-15-57, Cl. 242-55.2.
- Kircher, Ralph N., and A. J. Schmitt, to West Bend Aluminum Co. Handle assembly for saucepans. 2,777,154, 1-15-57, Cl. 16-110.
- Kirchner, Raymond J., to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. 2,795,744, 6-11-57, Cl. 317-235.
- Kirchheim, Jean J., to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method of and apparatus for producing cylindrical pads, padding and the like. 2,795,824, 6-18-57, Cl. 19-145.
- Kirchhübel, Kurt, to Oculus-Optikgeräte G. m. b. H. Manually operated ophthalmological instrument for examinations of the eye. 2,785,598, 3-19-57, Cl. 88-22.
- Kirchmeyer, Frederick J.: *See*—
Vincent, Hugh C., and Kirchmeyer. 2,809,915.
- Kirchner, Kenneth G.: *See*—
Smith, Hiram P., and Kirchner. 2,796,723.
- Kirchner, Kenneth G., to International Harvester Co. Offset disk harrow. 2,788,730, 4-16-57, Cl. 97-47.54.
- Kirijan, Walter E., to Owens-Illinois Glass Co. Apparatus for wax coating scientific glassware. 2,812,740, 11-12-57, Cl. 118-406.
- Kirilloff, Alexander A., and W. A. Bary, 1/2 to B. Sergievsky. Device for deflecting from electronic apparatus disturbances from atmospheric and other statics. 2,794,118, 5-28-57, Cl. 250-20.
- Kirk, Brenton S., Jr.: *See*—
Hollaway, Raymond L., Jr., and Kirk. 2,815,527.
- Kirk, David B., to Moore Products Co. Pneumatic gaging apparatus. 2,801,473, 8-6-57, Cl. 33-147.
- Kirk, Dorothy G., now by change of name D. G. Filrit. Partitions for drawers and the like. 2,800,223, 7-23-57, Cl. 206-46.
- Kirk, Douglas, to The Quaker Oats Co. Method and apparatus for treating boxboard blanks. 2,797,096, 6-25-57, Cl. 271-76.
- Kirk, George B.: *See*—
Riddell, Wallace C., and Kirk. 2,776,234.
- Riddell, Wallace C., and Kirk. 2,803,575.
- Kirk, James C., to Continental Oil Co. Water flooding compositions. 2,808,109, 10-1-57, Cl. 166-42.
- Kirk, Robert E.: *See*—
Woffter, Robert C., Kirk, and Sims. 2,809,361.
- Kirk, Robert E., to General Motors Corp. Waterproof line connector. 2,782,391, 2-19-57, Cl. 339-211.
- Kirk, Robert E., to General Motors Corp. Terminal. 2,802,194, 8-6-57, Cl. 339-276.
- Kirk, Roy C.: *See*—
Reid, Raymond W., and Kirk. 2,806,079.
- Kirk, Roy C., to The Dow Chemical Co. Method for producing sodium. 2,810,636, 10-22-57, Cl. 75-66.
- Kirk, William, Jr., to E. I. du Pont de Nemours and Co. Fabric coated with poly-p-xylylene. 2,785,090, 3-12-57, Cl. 117-106.
- Kirk, William W., Jr.: *See*—
Geissbuhler, John O., and Kirk. 2,782,297.
- Kirkbride, Chalmers G., to Houdry Process Corp. Preparation of carbon black and hydrogen. 2,794,709, 6-4-57, Cl. 23-209.4.
- Kirkbride, John. Pancake turner. 2,803,483, 8-20-57, Cl. 294-7.
- Kirkendal, Virgil L.: *See*—
Macchi, Sadie E., and Kirkendal. 2,797,343.
- Kirkham, Alan R., to Mitchell Camera Corp. Optical compensating system for kinetographs of the constantly-moving-film type. 2,817,995, 12-31-57, Cl. 88-16.8.
- Kirkham, Floyd L., to General Electric Co. Cutter tool assembly providing a floating fit between tool and holder. 2,810,567, 10-22-57, Cl. 262-33.
- Kirkhof Mfg. Corp.: *See*—
Girton, Preston E. 2,778,001.
- Kirkhof, Russel H. Snap mechanical movement. 2,787,911, 4-9-57, Cl. 74-100.
- Kirkland, Earl V., to The American Oil Co. Stirrer bearing and adaptor. 2,816,743, 12-17-57, Cl. 259-122.
- Kirkland, Glenn I., to the United States of America as represented by the Secretary of the Navy. Saturable reactor. 2,799,834, 7-16-57, Cl. 336-90.
- Kirkman, Kenneth D.: *See*—
Keith, John V., and Kirkman. 2,786,324.
- Kirkness, Robert H., and A. B. Morrow, to Hazeltine Research, Inc. Signal-translating circuit. 2,790,903, 4-30-57, Cl. 250-27.
- Kirkpatrick, Ada M. Cleaning device. 2,790,987, 5-7-57, Cl. 15-229.
- Kirkpatrick, George M., to General Electric Co. Electronic multiplier. 2,784,909, 3-12-57, Cl. 235-61.

- Kirkpatrick, Hugh W.: *See*—
Peck, David B., Hammann, and Kirkpatrick. 2,790,999.
- Kirkpatrick, Kenneth L.: *See*—
Northcote, John A., and Kirkpatrick. 2,785,619.
- Kirkpatrick, Willard H., and A. Walker, to Visco Products Co. Process of breaking petroleum emulsions and compositions therefor. 2,790,777, 4-30-57, Cl. 252-340.
- Kirkup, Richard P.: *See*—
Orsini, Anthony, and Kirkup. 2,786,536.
- Kirkwood, Earl. Tools for forming terminal coils. 2,809,676, 10-15-57, Cl. 140-124.
- Kirkwood, Earle W.: *See*—
Kronrad, Julius, and Kirkwood. 2,800,851.
- Kirkwood, Loren R.: *See*—
Torre, Alton J., Kirkwood, and Flood. 2,799,723.
- Kirkwood, Loren R., to Radio Corp. of America. Background control for color television receiver. 2,804,496, 8-27-57, Cl. 178-54.
- Kirsch, Co.: *See*—
Carey, Albert L. 2,797,087.
Moyer, Robert P. 2,783,831.
Moyer, Robert P. 2,809,531.
Moyer, Robert P. 2,817,398.
- Kirschmann, John D. Fertilizer spreader. 2,804,998, 9-3-57, Cl. 222-177.
- Kirshenbaum, Isidor: *See*—
Crist, Ray H., and Kirshenbaum. 2,796,330.
Winsten, Walter A., and Kirshenbaum. 2,787,529.
- Kirshner, Jack. Watch construction. 2,815,640, 12-10-57, Cl. 58-88.
- Kiser, Jackson S., and J. A. Roberts, to American Cyanamid Co. Enhancement of therapeutic efficacy of antibiotics. 2,806,789, 9-17-57, Cl. 99-2.
- Kish, Arthur S.: *See*—
Ziherl, Frank A., and Kish. 2,806,638.
- Kish, Calman J.: *See*—
Von Hessert, Frederick, and Kish. 2,799,631.
- Kish, George D.: *See*—
Risley, Roger E., and Kish. 2,785,912.
Risley, Roger E., and Kish. 2,792,240.
- Kish Plastic Products, Inc.: *See*—
Kish, Steven P. 2,776,453.
- Kish, Steven P., to Kish Plastic Products, Inc. Method of making checking fixtures. 2,776,453, 1-8-57, Cl. 18-59.
- Kish, Steven P. Method of making reproduction fixtures. 2,777,790, 1-15-57, Cl. 154-110.
- Kishline, Floyd F., and H. F. Wood, to American Motors Corp. Supercharger for internal combustion engines. 2,777,632, 1-15-57, Cl. 230-116.
- Kiso N. V.: *See*—
Kooiman, Pieter L. 2,792,704.
- Kisselle, John M.: *See*—
Peak, Charles. 2,793,599.
- Kissling, Lehr F., to Columbia-Southern Chemical Corp. Production of tetrachlorobenzene. 2,805,264, 9-3-57, Cl. 260-650.
- Kistler, Max W., to American Brake Shoe Co. Air compressors or the like. 2,783,936, 3-5-57, Cl. 230-3.
- Kistler, Robert J.: *See*—
McQuillen, Howard R., and Kistler. 2,806,162.
- Kistner, Harold J.: *See*—
Furman, Frank J., and Kistner. 2,785,628.
Furman, Frank J., Kistner, and Read. 2,785,800.
- Kita, Donald A.: *See*—
Shull, Gilbert M., Kita, and Davisson. 2,783,255.
- Kita, Donald A., to Chas. Pfizer & Co., Inc. Production of glutamic acid by cephalosporium. 2,789,939, 4-23-57, Cl. 195-36.
- Kitakami, Sigeo: *See*—
Yokomaki, Norishige. 2,777,711.
- Kitchen, Kenneth J.: *See*—
Swenson, Paul F. 2,815,175.
- Kitchens of Sara Lee, Inc.: *See*—
Kollman, Jack. 2,808,021.
- Kitselman, John P., to Flexi-Versal Corp. Universal joint. 2,787,895, 4-9-57, Cl. 64-20.
- Kitson, Gerald L.: *See*—
Cordis, Nat. 2,785,791.
Cordis, Nat. 2,785,792.
Martin, Maynar S., and M. L. 2,782,761.
- Kitson, Gerald L. Feeding system. 2,803,334, 8-20-57, Cl. 198-204.
- Kitson, Gerald L. Machine for washing eggs. 2,818,077, 12-31-57, Cl. 134-111.
- Kittel, Claude A., and F. Kulick, to Western Electric Co., Inc. Pressurized wave guide apparatus. 2,789,273, 4-16-57, Cl. 333-98.
- Kittel, Erich: *See*—
Markert, Ferdinand, and Kittel. 2,792,293.
- Kittelberger, William W., to The New Jersey Zinc Co. Production of titanium. 2,789,943, 4-23-57, Cl. 204-64.
- Kitterman, Donald M. Method for attaching a wire in end on relationship to the surface of a body. 2,784,481, 3-12-57, Cl. 29-25.35.
- Kitterman, Donald M. Piezoelectric unit. 2,802,955, 8-13-57, Cl. 310-94.
- Kittl, Emil A. M., to the United States of America as represented by the Secretary of the Army. Direct current to alternating current inverters. 2,811,688, 10-29-57, Cl. 321-49.
- Kittleston, Allen, E. Arundale, J. H. Jones, and M. R. Fenske, to Esso Research and Engineering Co. Method of carrying out homogeneous vapor phase reactions. 2,809,981, 10-15-57, Cl. 260-451.
- Kitto, William H.: *See*—
McMaster, Archie J., Kitto, and Burian. 2,785,424.
- Kitto, William H., and K. Burian, to G-M Laboratories, Inc. Floor polishing and scrubbing machine. 2,782,452, 2-26-57, Cl. 15-385.
- Kittredge, Arthur E. Program control valve. 2,807,280, 9-24-57, Cl. 137-599.1.
- Kittredge, Raymond E.: *See*—
Smith, Robert L., and Kittredge. 2,787,842.
- Kitzmiller, Mendel W., to General Electric Co. Dynamo-electric machine. 2,777,080, 1-8-57, Cl. 310-185.
- Kivari, Arthur M.: *See*—
Kelly, Earl M., and Kivari. 2,779,730.
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- Kizak, George. Typewriter ribbon. 2,818,155, 12-31-57, Cl. 197-172.
- Kizaur, Arthur J., to General Electric Co. Cassette. 2,810,837, 10-22-57, Cl. 250-68.
- Kizcek, Roger A., to General Mills, Inc. Balloon and fitting for securing balloon ends. 2,779,554, 1-29-57, Cl. 244-31.
- Kjelgaard, Axel W. Hydraulic control for gyratory crusher. 2,791,383, 5-7-57, Cl. 241-290.
- Kjellgren, Bengt R. F.: *See*—
Sawyer, Charles B., and Kjellgren. 2,789,897.
- Kjellstrand, Arthur G.: *See*—
Stolle, Walter J., Glaser, Kjellstrand, and Immke. 2,803,579.
- Klaar, Albert, and H. Puschmann, to Anker-Werke A. G. Voucher-issuing business machine. 2,784,666, 3-12-57, Cl. 101-69.
- Klaar, Max, to W. P. Fuller & Co. Mirror making apparatus. 2,816,303, 12-17-57, Cl. 15-4.
- Klaas, John W., to A. L. Coulter. Locking device. 2,807,173, 9-24-57, Cl. 74-503.
- Klaassen, Dirk: *See*—
Gardeniers, Paulus P., Klaassen, and Kollöffel. 2,793,914.
- Klamp, Paul, to Mechanical Handling Systems, Inc. Work handling conveyor structure. 2,816,643, 12-17-57, Cl. 198-20.
- Klancnik, Frank J. Wire type hose clamp. 2,810,943, 10-29-57, Cl. 24-27.
- Klancnik, Frank J., Jr. Wire type hose clamp. 2,816,338, 12-17-57, Cl. 24-27.
- Klang, Robert S.: *See*—
Howe, Harold S., Hindin, and Klang. 2,786,507.
- Klangfilm Gesellschaft mit beschränkter Haftung: *See*—
Schwarz, Karl G., and Wohlrab. 2,810,020.
- Klank, Walter C., Jr.: *See*—
Carroll, Frank E., Jr., and Klank. 2,800,975.
- Klap-Dierick, Gerarda F. E. M.: *See*—
Dost, Nicolaas, and Klap-Dierick. 2,790,743.
- Klappert, Herman H. and M. P. Hat holder for automobiles. 2,798,615, 7-9-57, Cl. 211-31.
- Klappert, Marie P.: *See*—
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- Klapproth, Herbert. Process for the production of anhydrous formic acid and nitrates from alkaline-earth metal formates. 2,814,644, 11-26-57, Cl. 260-542.
- Klapproth, William J., Jr., to American Cyanamid Co. Preparation of nitriles from amides. 2,783,264, 2-26-57, Cl. 260-465.
- Klarfeld, Gloria B.: *See*—
Belsky, Robert C. and T. B., and Klarfeld. 2,777,148.
- Klasing, Arthur P., and W. J. Rice, to Central States Paper & Bag Co. Machine for forming thermoplastic bag-tubing. 2,805,700, 9-10-57, Cl. 154-42.
- Klasing, Arthur P., and W. J. Rice, to Central States Paper & Bag Co. Method of making packaging materials. 2,805,973, 9-10-57, Cl. 154-83.
- Klassen, Bernard, to Klassen Enterprises, Inc. Electrically operated can opener. 2,789,345, 4-23-57, Cl. 30-4.
- Klassen Enterprises, Inc.: *See*—
Klassen, Bernard. 2,789,345.
- Klaue, Hermann, 1/2 to W. Ruf. Clutch for spur-wheel change-speed gear, especially for power-driven vehicles. 2,792,919, 5-21-57, Cl. 196-70.
- Klauert, Walter E. Snow removing apparatus. 2,777,217, 1-15-57, Cl. 37-43.
- Klaus, Harvey W., 60% to H. E. Vogt. Magnetic separator. 2,813,628, 11-19-57, Cl. 209-218.
- Klaus, John B. Rotary printing device. 2,790,386, 4-30-57, Cl. 101-375.
- Klausmann, Harry, to Baker & Co., Inc. Glass forming die. 2,803,925, 8-27-57, Cl. 49-55.
- Klausmann, Milton H., to Seal-Spout Corp. Combined flexible walled bag and pouring. 2,778,546, 1-22-57, Cl. 222-531.
- Klausner, Erich, to La Carimali, S. p. A. Infusion apparatus, particularly for express coffee machines. 2,798,423, 7-9-57, Cl. 99-302.
- Klausner, Joseph E.: *See*—
Bachman, Fred E., and Klausner. 2,780,317.
- Klauss, Howard F. Toy motor-pump unit. 2,791,967, 5-14-57, Cl. 103-87.
- Klavehn, Wilfrid, to Knoll A. G. Chemische Fabriken. Amino alcohols substituted by bicycloalkyl residues and a process of making same. 2,789,110, 4-16-57, Cl. 260-294.7.

- Klaybor, Leonard V.: *See*—
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- Kleb, Robert, to H. K. Porter Co., Inc., of Pittsburgh. Braidless side break switches. 2,786,923, 3-26-57, Cl. 200—170.
- Kleber, Edward J., Jr.: *See*—
Kerr, Karl K., Kleber, and Raub. 2,808,599.
- Kleczeck, Walter S., to the United States of America as represented by the Secretary of the Army. High-pressure, high capacity pneumatic valve. 2,783,020, 2-26-57, Cl. 251—62.
- Kleczeck, Walter S., to General Electric Co. Hydraulically operated valves. 2,787,126, 4-2-57, Cl. 62—1.
- Klee, Lester A. Combination door stop and closer. 2,795,005, 6-11-57, Cl. 16—78.
- Kleem, Clifford L., to R. B. Omant and R. I. Grant. Traction device for motor vehicles. 2,777,527, 1-15-57, Cl. 180—7.
- Kleeman, Edward W. Sediment remover for deep frying. 2,780,984, 2-12-57, Cl. 99—408.
- Kleeman, Eugene, and O. M. Raes, to Chrysler Corp. Center bearing mounting means for vehicle propeller shaft. 2,792,066, 5-14-57, Cl. 180—70.
- Kleemann, Karl: *See*—
Benink, Christiaan J. M., Bungert, and Kleemann. 2,809,601.
- Kleemeier, Edward C.: *See*—
Bigelow, William, and Kleemeier. 2,810,553.
- Kleen, Werner: *See*—
Warnecke, Robert, Dohler, and Kleen. 2,794,143.
Warnecke, Robert, Kleen, Huber, and Dohler. 2,794,146.
- Kleerup, Bertel J., to Society For Visual Education, Inc. Inside out film take up. 2,788,970, 4-16-57, Cl. 271—219.
- Kleerup, Bertel J., to Society for Visual Education, Inc. Film rewind take-up. 2,812,177, 11-5-57, Cl. 271—219.
- Kleffner, Philip A. Door knob knocker. 2,787,976, 4-9-57, Cl. 116—148.
- Kleifoth, Warren G., to Collins Radio Co. Squelch system. 2,802,939, 8-18-57, Cl. 250—20.
- Klehr, Samuel. Brief bag. 2,779,371, 1-29-57, Cl. 150—16.
- Klein, Werner: *See*—
Fahlbusch, Heinz, and Kleim. 2,796,841.
- Kleimack, Joseph J.: *See*—
Ebers, Jewell J., and Kleimack. 2,796,563.
- Kleiman, Gerald: *See*—
Bartels, Charles R., Kleiman, Irish, and Korzun. 2,786,831.
- Kleiman, Morton, to Velsicol Chemical Corp. Organothiomercuri compounds. 2,781,360, 2-12-57, Cl. 260—326.
- Klein, Alexander. Hydraulic cementitious mixtures. 2,793,129, 5-21-57, Cl. 106—90.
- Klein, Alexander, to Kalman Floor Co., Inc. Biocidal cementitious structures and methods of preparing them. 2,797,999, 7-2-57, Cl. 106—15.
- Klein, Alfred W., to the United States of America as represented by the Secretary of the Navy. Hot working of titanium alloy welds. 2,811,625, 10-29-57, Cl. 219—117.
- Klein, Arthur L., and G. G. Grimm, to Douglas Aircraft Co., Inc. Method and apparatus inspecting honeycomb panels. 2,782,632, 2-26-57, Cl. 73—67.2.
- Klein, Benjamin: *See*—
Klein, Goldie J. and B. 2,795,232.
- Klein, Clarence F., to The Lord Baltimore Press, Inc. Carton adapted for opening and reclosing. 2,803,395, 8-20-57, Cl. 229—51.
- Klein, Clarence J., to National Steel Corp. Apparatus for cutting metal bundles. 2,810,187, 10-22-57, Cl. 29—69.
- Klein, Clarence J., to National Steel Corp. Charging open hearth furnaces. 2,818,183, 12-31-57, Cl. 214—29.
- Klein, Clarence C.: *See*—
Klein, Orlando F. and C. C. 2,815,656.
- Klein, Cletus A., to M. Hayman. Tow bars. 2,790,521, 4-30-57, Cl. 188—112.
- Klein, David X., and W. V. Wirth, to the United States of America as represented by the United States Atomic Energy Commission. Recovery of metal salts from mixtures. 2,782,092, 2-19-57, Cl. 23—14.5.
- Klein, Enrico, and A. J. Burke, to Richardson Scale Co. Weight controlled apparatus. 2,793,000, 5-21-57, Cl. 249—14.
- Klein, Ernst: *See*—
Lührmann, Fritz, and Klein. 2,799,443.
- Klein, Eugene A.: *See*—
Bain, Joseph P., Booth, and Klein. 2,803,647.
Bain, Joseph P., Klein, Hunt, and Booth. 2,818,435.
Booth, Albert B., and Klein. 2,796,428.
Booth, Albert B., and Klein. 2,803,659.
Booth, Albert B., and Klein. 2,815,383.
- Klein, Eugene A., to The Glidden Co. Hydration of α -pinene oxide. 2,815,378, 12-3-57, Cl. 260—587.
- Klein, Gerrit, to Hartford National Bank and Trust Co. as trustee. Difference amplifier. 2,780,682, 2-5-57, Cl. 179—171.
- Klein, Goldie J. and B. Hair retaining structures. 2,795,232, 6-11-57, Cl. 132—47.
- Klein, Hans: *See*—
Jungmann, Siegfried, Klein, and Muller. 2,793,410.
- Klein, Hermann, to Firma Fichtel & Sachs A.-G. Shock absorber reservoir seal. 2,796,955, 6-25-57, Cl. 188—100.
- Klein, Howard C., and R. Kapp, to Nopco Chemical Co. Sterol dehydrohalogenation process. 2,776,304, 1-1-57, Cl. 260—397.2.
- Klein, James B., to Barnes Drill Co. Sizing mechanism for honing machines. 2,787,867, 4-9-57, Cl. 51—34.
- Klein, Jerome G., E. W. Meyer, and L. C. Grotz, to The Glidden Co. Stabilized unsaturated polyester compositions and process of making same. 2,815,333, 12-3-57, Cl. 260—45.4.
- Klein, Joseph J.: *See*—
Lamb, Miles A., and Klein. 2,786,025.
- Klein, Joseph J., and E. N. Maisel, to Fibre Bond Corp. Laminated fabric. 2,786,790, 3-26-57, Cl. 154—54.
- Klein, Joseph R. Combined heating and soldering device. Re. 24,365, 10-1-57, Cl. 113—110.
- Klein, Joseph T. Garment hangers. 2,801,036, 7-30-57, Cl. 223—92.
- Klein, Lorenz E., to The Procter & Gamble Co. Feeding means for objects of uniform size and weight. 2,813,615, 11-19-57, Cl. 198—25.
- Klein, Norman E., to Deering Milliken Research Corp. Regulator release means. 2,776,805, 1-8-57, Cl. 242—154.
- Klein, Norman E., to Deering Milliken Research Corp. Method and apparatus for false twisting yarn. 2,777,276, 1-15-57, Cl. 57—77.3.
- Klein, Norman E. Vehicle mounted tree and stump moving equipment. 2,779,486, 1-29-57, Cl. 214—75.
- Klein, Norman E., to Deering Milliken Research Corp. Clearer for textile machines. 2,787,811, 4-9-57, Cl. 19—140.
- Klein, Norman E., to Deering Milliken Research Corp. Yarn balloon controller or generator. 2,796,726, 6-25-57, Cl. 57—58.84.
- Klein, Norman E., to Deering Milliken Research Corp. Plying apparatus and method. 2,811,012, 10-29-57, Cl. 57—58.3.
- Klein, Norman E., to Deering Milliken Research Corp. Yarn twisting machine. 2,811,013, 10-29-57, Cl. 57—58.86.
- Klein, Orlando F. and C. C. $\frac{1}{4}$ to E. L. Markham, Jr. Building construction. 2,815,656, 12-10-57, Cl. 72—16.
- Klein, Otto J.: *See*—
Strosche, Hermann K., and Klein. 2,787,745.
- Klein, Raymond N., and C. L. Corda, to Dodge, Inc. Trophy mount. 2,818,293, 12-31-57, Cl. 287—125.
- Klein, Regina. Ruffling attachment for pressing irons. 2,792,977, 5-21-57, Cl. 223—36.
- Klein, Victor G., to The McNeil Machine & Engineering Co., (Ohio). Electrical relay. 2,813,949, 11-19-57, Cl. 200—105.
- Klein, Victor G., and C. H. Mueller, to The McNeil Machine & Engineering Co. Injectors. 2,783,713, 3-5-57, Cl. 103—2.
- Klein, Victor G., and C. H. Mueller, to The McNeil Machine & Engineering Co. Injector. 2,793,593, 5-28-57, Cl. 103—2.
- Klein, Walter A., to The Dow Chemical Co. Container for dispensing sheet material. 2,799,393, 7-16-57, Cl. 206—58.
- Klein, Walter A., and H. A. Lincoln, to The Dow Chemical Co. Dispensing container for rolls of sheet wrapping material. 2,790,545, 4-30-57, Cl. 206—58.
- Klein, Werner, and W. Friz, to International Standard Electric Corp. Travelling wave tube arrangement. 2,812,469, 11-5-57, Cl. 315—3.5.
- Klein, William C.: *See*—
Lebedeff, Yurii E., and Klein. 2,797,159.
- Klein, William C., to Eastman Kodak Co. Automatic photographic printer. 2,807,980, 10-1-57, Cl. 88—24.
- Kleinberg, Harry, and J. S. Baer, to Radio Corp. of America. Information translating system. 2,807,664, 9-24-57, Cl. 178—34.
- Kleineberg, Paul E., and J. C. Roseman, to T. W. & C. B. Sheridan Co. Flat article orienting machine. 2,812,847, 11-12-57, Cl. 198—33.
- Kleinekathöfer, Felix. Leg prosthesis. 2,810,135, 10-22-57, Cl. 3—27.
- Kleiner, Helmut: *See*—
Reinartz, Kurt, Graulich, Lehmann, and Kleiner. 2,780,562.
- Kleiner, Helmut, and W. Lehmann, to Farbenfabriken Bayer Aktiengesellschaft. Printing paste and method of printing textiles therewith. 2,779,686, 1-29-57, Cl. 117—38.
- Kleiner, Helmut, and W. Lehmann, to Farbenfabriken Bayer Aktiengesellschaft. Printing paste and method of printing textiles therewith. 2,800,417, 7-23-57, Cl. 117—38.
- Kleiner, Walter B.: *See*—
De Ganahl, Carl, Kleiner, and Carmichael. 2,815,309.
- Kleiner, Walter B., G. N. Carmichael, and C. de Ganahl; said Kleiner and said Carmichael assors. to said de Ganahl. Plastic pipe and method of making same. 2,815,043, 12-3-57, Cl. 138—76.
- Kleinewefers, Joh., Söhne: *See*—
Saas, Hans G. 2,776,049.
Schiffer, Günther H. 2,803,896.
- Kleinfeld, Martin J.: *See*—
Schwartz, Eli, and Kleinfeld. 2,803,621.
- Kleinfelder, Walter C.: *See*—
Doering, Robert J., Kleinfelder, and Pawel. 2,788,385.
- Kleingers, Alfred B., Jr.: *See*—
Bergstein, Frank D., Kleingers, and Nerenberg. 2,791,364.
- Kleinicke, Werner E., to Allied Chemical & Dye Corp. Condensation of phenol and aldehyde with trichloroacetic acid and production of phenol-aldehyde resin free of acid catalyst. 2,811,508, 10-29-57, Cl. 260—51.
- Kleinman, Jacob L. Shaving implements. 2,780,864, 2-12-57, Cl. 30—41.
- Kleinman, Jacob L. Shoulder pads. 2,786,209, 3-26-57, Cl. 2—268.

- Kleinman, Jacob L. Shaving implement having reciprocating cutters in a pivotally connected head and waste collecting means. 2,787,053, 4-2-57, Cl. 30-41.
- Kleinman, Jacob L. Helmets. 2,793,365, 5-28-57, Cl. 2-3.
- Kleinman, Jacob L. Helmets. 2,793,366, 5-28-57, Cl. 2-3.
- Kleinschmidt, Edward E. Selecting and printing apparatus. 2,802,048, 8-6-57, Cl. 178-23.
- Kleinschmidt, Edward E. Tabulating mechanism for recording apparatus. 2,805,749, 9-10-57, Cl. 197-179.
- Kleiser, James M. Bag holder. 2,788,947, 4-16-57, Cl. 248-97.
- Kleist, Herman W., to Dole Refrigerating Co. Car refrigeration assembly with internal combustion motor. 2,791,098, 5-7-57, Cl. 62-3.
- Kleist, Herman W., to Dole Refrigerating Co. Refrigerated cars. 2,791,102, 5-7-57, Cl. 62-4.
- Kleist, Herman W., to Dole Refrigerating Co. Evaporator plates. 2,791,106, 5-7-57, Cl. 62-126.
- Kleist, Herman W., to Dole Refrigerating Co. Heat exchange devices. 2,795,114, 6-11-57, Cl. 62-4.
- Kleist, Herman W., to Dole Refrigerating Co. Truck plates. 2,814,186, 11-26-57, Cl. 62-126.
- Klem, Theodore F., and C. H. Satterlee, to The Gleason Works. Diaphragm chuck. 2,778,649, 1-22-57, Cl. 279-46.
- Klemann, Heinrich: *See*—
Leitz, Ludwig, and Klemann. 2,789,461.
- Klement, John E.: *See*—
Garriott, Francis E., and Klement. 2,789,065.
- Klement, John F., to Ampco Metal, Inc. Method of heat treating nickel bearing aluminum bronze alloys. 2,798,826, 7-9-57, Cl. 148-1.
- Klemm, Herman G., to Massey-Harris-Ferguson Inc. Power take-off drive for tractors. 2,817,408, 12-24-57, Cl. 180-53.
- Klemm, Rudolf, to Graetz Kommandit-Gesellschaft. Hurricane lamps. 2,794,907, 6-4-57, Cl. 240-50.
- Klemming, Wilhelm P. E., to Aktiebolaget Sveaexport. Collapsible box. 2,788,910, 4-16-57, Cl. 217-15.
- Klemperer, Hans, to Apra Precipitator Corp. Discontinuing charge to precipitator electrodes during cyclic cleaning periods. 2,790,128, 4-23-57, Cl. 321-25.
- Klemperer, Hans, to Apra Precipitator Corp. Common power supply for precipitator banks with individual control. 2,817,412, 12-24-57, Cl. 183-7.
- Klemperer, Wolfgang B., and W. Blake, to Douglas Aircraft Co., Inc. Motion picture time correlating apparatus. 2,796,800, 6-25-57, Cl. 88-16.
- Klemt, Gunter, to Jos. Schneider & Co. Optical system with large effective image angle. 2,781,695, 2-19-57, Cl. 88-57.
- Klemt, Gunter, to Jos. Schneider & Co. Replaceable front lens assembly for a Gaussian dual optical objective system. 2,796,002, 6-18-57, Cl. 88-57.
- Klenz, Karl A., to Lando Products, Inc. Venetian blind bracket. 2,796,926, 6-25-57, Cl. 160-167.
- Klenz, Karl A., to Lando Products, Inc. Fascia construction. 2,806,524, 9-17-57, Cl. 160-34.
- Klenzade Products, Inc.: *See*—
Barrett, Robert B. 2,817,606.
- Klepp, Otto. Torsion spring assembly. 2,778,626, 1-22-57, Cl. 267-1.
- Kleppinger, Willis D., to Steatite Research Corp. Ceramic welding ring. 2,796,843, 6-25-57, Cl. 113-111.
- Klessig, Ernst F.: *See*—
Tweedale, Ralph L., and Klessig. 2,800,083.
- Klessig, Ernst F., and G. M. Jones, to Vickers Inc. Power transmission. 2,809,593, 10-15-57, Cl. 103-136.
- Klessig, Ernst F., M. K. Graham, and R. J. Raupp, to Airway Products, Inc. Pump-motor unit. 2,817,210, 12-24-57, Cl. 60-52.
- Klewer, Günther. Safety stopper for containers. 2,800,239, 7-23-57, Cl. 215-14.
- Klicker, James D., and D. R. Stevens, to Gulf Research & Development Co. Lubricant compositions. 2,776,260, 1-1-57, Cl. 252-33.6.
- Kliem, Hans H. R., and C. G. E. Zaage, to Mobelfabrik Westfalia H. Rottmann. Machine for chipping wood. 2,784,753, 3-12-57, Cl. 144-42.
- Klier, Louis: *See*—
Carlisi, Carmen S., and Klier. 2,810,407.
- Kliever, Waldo H., to Minneapolis-Honeywell Regulator Co. Graphical to digital indication converter. 2,779,655, 1-29-57, Cl. 346-44.
- Klimkiewicz, Richard J., 50% to G. Barwidi. Multipurpose costume accessory. 2,779,523, 1-29-57, Cl. 224-28.
- Klimkowski, Robert J., and R. T. Florence, to A. B. Dick Co. Compositions for use in the manufacture of elements in reproduction. 2,795,504, 6-11-57, Cl. 106-14.5.
- Klimkowski, Robert J., and R. T. Florence, to A. B. Dick Co. Duplicating process. 2,798,427, 7-9-57, Cl. 101-149.4.
- Klinck, John C.: *See*—
Scott, Charles L., and Klinck. 2,793,701.
- Kline, Albert K., and M. B. Conrad, to Baker Oil Tools, Inc. Packer and tubing string combination. 2,788,857, 4-16-57, Cl. 166-114.
- Kline, Arthur E., to McGraw-Edison Co. Fan blade. 2,801,793, 8-6-57, Cl. 230-259.
- Kline, Arthur E., and W. H. Webster, to McGraw-Edison Co. Air conditioner. 2,806,361, 9-17-57, Cl. 62-129.
- Kline, Evron L.: *See*—
Roach, James E. 2,786,000.
- Kline, Granville B.: *See*—
Kornfeld, Edmund C., Kline, and Fornefeld. 2,796,419.
- Kornfeld, Edmund C., Kline, and Morrison. 2,809,974.
- Kline, Harry E., to J. I. Case Co. Straw rack having vibrators. 2,811,972, 11-5-57, Cl. 130-25.
- Kline, Jack, to Raytheon Mfg. Co. Mechanical tuning for magnetrons. 2,805,362, 9-3-57, Cl. 315-39.61.
- Kline, Jack, and C. G. Lehr, to Raytheon Mfg. Co. Magnetron output coupling means. 2,817,790, 12-24-57, Cl. 315-39.53.
- Kline, Melvin B., to Allen B. Du Mont Laboratories, Inc. Delay line. 2,799,007, 7-9-57, Cl. 333-31.
- Kline, Ralph W.: *See*—
Forsythe, Richard H., and Kline. 2,796,352.
- Kline, Richard M. Foot attachment for facilitating swimming. 2,779,077, 1-29-57, Cl. 24-191.
- Kline, Seth Q.: *See*—
Berlin, Aaron S., Kline, Levenson, and Shaw. 2,796,021.
- Ortynsky, Roman L., Kline, and Williams. 2,809,583.
- Kling, Arnold G., to Globe-Union Inc. Variable control unit and attachable line switch. 2,776,356, 1-1-57, Cl. 201-55.
- Kling, John D., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,817,351, 12-24-57, Cl. 137-98.
- Kling, Lester E. Rocking and rotating toy. 2,804,123, 8-27-57, Cl. 155-69.
- Kling, Maurice: *See*—
Louis, Jean A., and Kling. 2,794,267.
- Louis, Jean A., and Kling. 2,794,268.
- Kling, Maurice, to Societe Anonyme Preparation Industrielle des Combustibles. Process and apparatus for drying caking products. 2,812,591, 11-12-57, Cl. 34-12.
- Kling, Nelson G.: *See*—
Gorham, George, and Kling. 2,791,180.
- Gorham, George, and Kling. 2,795,998.
- Husley, Thomas C., III, and Kling. 2,779,329.
- Kling, Nelson G., to Technicon Instruments Corp. Speed change mechanism. 2,788,681, 4-16-57, Cl. 74-812.
- Kling, Robert W., to Athey Products Corp. Loading machine. 2,776,036, 1-1-57, Cl. 198-9.
- Klingbeil, Herbert, to The International Nickel Co., Inc. Method and apparatus for introducing low-boiling substances into molten metal. 2,776,206, 1-1-57, Cl. 75-93.
- Klingbeil, Herbert, to The International Nickel Co., Inc. Plunger for the introduction of substances with low vaporization temperature into liquid melts. 2,809,886, 10-15-57, Cl. 75-93.
- Klinge, Clinton W.: *See*—
Harris, Robert R., and Klinge. 2,779,426.
- Klingel, Arthur R., Jr.: *See*—
Bartleson, John D., Klingel, and Darling. 2,809,617.
- Klingelberg, W. Ferd, Sohn: *See*—
Jaeger, Gustav. 2,802,277.
- Klingensmith, Eugene H.: *See*—
Klingensmith, Robert W. and E. H., and Bematre. 2,792,250.
- Klingensmith, Robert W. and E. H., and J. Bematre. Safety bumper. 2,792,250, 5-14-57, Cl. 293-85.
- Klinger, Karl A. Journal box seal. 2,789,845, 4-23-57, Cl. 286-6.
- Klingler, Martin L., to Aircraft-Marine Products, Inc. Hand tool for crimping connectors. 2,784,621, 3-12-57, Cl. 81-15.
- Klingspor, Carl. Cutting or polishing disk. 2,775,854, 1-1-57, Cl. 51-206.
- Klinkenberg, Jan W.: *See*—
Waterman, Hein I., Klinkenberg, and Oelderik. 2,798,889.
- Waterman, Hein I., Klinkenberg, and Oelderik. 2,798,890.
- Klinker, Henry D. Wheel mounting device. 2,779,630, 1-29-57, Cl. 301-9.
- Klinksiek, Karl W., and A. Brunner, to Wagner Electric Corp. Method of making a hose fitting. 2,795,041, 6-11-57, Cl. 29-508.
- Klinzing, August F. Animal trainer. 2,790,416, 4-30-57, Cl. 119-27.
- Klippel, Hermann: *See*—
Schlecht, Leo, and Klippel. 2,791,497.
- Schlecht, Leo, and Klippel. 2,794,735.
- Klippel, Warren H., to International Business Machines Corp. Device for handling and feeding tabulating cards. 2,792,223, 5-14-57, Cl. 271-61.
- Klochkov, John V. Alloy composition. 2,786,754, 3-26-57, Cl. 75-134.
- Klock, Rolf W., to Interstate Precision Products Corp. Sudser for vacuum cleaners. 2,796,297, 6-18-57, Cl. 299-141.
- Klockman, Otto E., to Koppers Co., Inc. Dephenolization process and apparatus. 2,786,082, 3-19-57, Cl. 260-627.
- Klockner-Georgsmarienwerke A. G.: *See*—
Kordes, Heinrich. 2,809,071.
- Klockner-Huettenwerk Haspe Aktiengesellschaft: *See*—
Kosmider, Johannes, and Hardt. 2,803,535.
- Klockner-Humboldt-Deutz A. G.: *See*—
Heckmann, Wolfgang G. J. 2,781,131.
- Heckmann, Wolfgang G. J. 2,782,930.
- Klockner-Humboldt-Deutz Aktiengesellschaft: *See*—
Fitz, Emil R., Hovel, and Roggendorff. 2,816,529.
- Heckmann, Wolfgang G. J., and Becker. 2,781,130.
- Kloss, Richard. 2,804,866.
- Kloss, Richard. 2,816,530.
- Müller, Franz. 2,785,886.
- Müller, Franz. 2,797,076.
- Müller, Franz. 2,797,077.
- Ziesche, Kurt, and Sonntag. 2,812,979.

- Klod, John A. Meat grinder having bearing pins. 2,796,104, 6-18-57, Cl. 146-186.
- Kloepfer, Richard W., Jr. Mechanical seal. 2,807,482, 9-24-57, Cl. 286-11.14.
- Klok, Carl R. Can opening drain and vent punch. 2,775,814, 1-1-57, Cl. 30-6.1.
- Klokseth, Ole. Blasting mats. 2,806,426, 9-17-57, Cl. 102-22.
- Klomp, Alfred W., to Process Gear and Machine Co. Universal joint. 2,783,626, 3-5-57, Cl. 64-17.
- Klomp, Johannes L., to Shox-Stok, Inc. Grubbing tongs. 2,806,734, 9-17-57, Cl. 294-108.
- Kloote, George E., and J. A. Potchen, to Haskellite Mfg. Corp. Method of forming a combination hollow door and solid frame. 2,778,766, 1-22-57, Cl. 154-118.
- Klopfenstein, Jess D., to The Meyercoed Co. Machine for applying films to base sheets. 2,776,510, 1-8-57, Cl. 41-1.
- Klopfenstein, Jess D., E. T. Zimmerman, and K. F. Engstrom, to The Meyercoed Co. Machine for applying films to base sheets. 2,776,511, 1-8-57, Cl. 41-1.
- Klopfenstein, Ralph W., to Radio Corp. of America. Waveguide filter. 2,810,890, 10-22-57, Cl. 333-73.
- Klopping, Carel P., and H. J. De Visser, to North American Philips Co., Inc. Electric discharge tube. 2,813,218, 11-12-57, Cl. 313-249.
- Klopping, Hein L., to E. I. du Pont de Nemours and Co. Trichloromethyl-alkylene-trithiopercarbamates and preparation thereof. 2,784,227, 3-5-57, Cl. 260-567.
- Klopping, Hein L., to E. I. du Pont de Nemours and Co. Vinyl alkyl isothiocyanates and their preparation. 2,785,190, 3-12-57, Cl. 260-454.
- Klopstock, Hans, to L. S. Carstairs. Hand operated stapling appliances. 2,775,765, 1-1-57, Cl. 1-49.
- Klopstock, Hans, to L. S. Carstairs. Stapling appliances. 2,792,571, 5-21-57, Cl. 1-44.4.
- Klopstock, Hans, to L. S. Carstairs. Three legged staple. 2,811,073, 10-29-57, Cl. 85-49.
- Klose, Alfred J., to G. M. Giannini & Co., Inc. Caging mechanism for gyroscopes. 2,786,356, 3-26-57, Cl. 74-5.1.
- Klose, Burton J. Bell transformer switching system. 2,796,560, 6-18-57, Cl. 317-157.6.
- Klosek, Felix P.: See—
Farnham, Alford G., and Klosek. 2,812,364.
- Klosky, Simon: See—
Bail, Paul T., Grant, and Klosky. 2,808,886.
- Kloss, Dale D., to Champion Motors Co. Center main bearing and pressure seal for internal combustion engines with crankcase compression. 2,785,665, 3-19-57, Cl. 123-59.
- Kloss, Hugo, to Sued-West-Chemie G. m. b. H. Process of and apparatus for producing continuous layers of fiber material. 2,811,195, 10-29-57, Cl. 154-1.
- Kloss, Richard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Light metal cylinder head for internal combustion engines. 2,804,866, 9-3-57, Cl. 123-193.
- Kloss, Richard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Internal combustion engine. 2,816,530, 12-17-57, Cl. 123-41.85.
- Klostergaard, Henry, to Swift & Co. Protein fractionation. 2,790,790, 4-30-57, Cl. 260-112.
- Klostermann, Lawrence G. Spreader. 2,805,863, 9-10-57, Cl. 275-2.
- Klotz, Herman J., to International Business Machines Corp. Ticket feeding device. 2,789,819, 4-23-57, Cl. 271-10.
- Klotz, James A., to California Research Corp. Method for introducing cementing material into a well bore. 2,811,206, 10-29-57, Cl. 166-21.
- Klotz, Melvin M. Golf score card and scoring pencil holder for golf club bag. 2,802,250, 8-13-57, Cl. 24-84.
- Klotz, Robert L., Jr. Method for blasting. 2,775,940, 1-1-57, Cl. 102-23.
- Klotz, Robert L., Jr., to Borg-Warner Corp. Apparatus for perforating well casings. 2,779,278, 1-29-57, Cl. 102-20.
- Klotzbaugh, George A.: See—
Duckett, Edward J., and Klotzbaugh. 2,792,493.
- Kluck, Theodore J., $\frac{1}{2}$ to J. W. Olson and $\frac{1}{2}$ to C. O. Bader. Tool holder and mounting means therefor. 2,800,046, 7-23-57, Cl. 82-35.
- Klug, Leland J. Radio connected system for exhaust sounds of internal combustion engines. 2,791,630, 5-7-57, Cl. 179-1.
- Kluge, Adolf: See—
Touchett, Vern T., Pharris, McGuire, and Kluge. 2,812,007.
- Kluge, Frederick. Hair trimming attachments for electric razors. 2,791,830, 5-14-57, Cl. 30-34.
- Kluge, Herman D.: See—
Arnold, George B., and Kluge. 2,789,143.
Meyers, Richard K., and Kluge. 2,788,325.
Watson, Harold J., and Kluge. 2,796,403.
- Kluge, Herman D., and T. C. Roddy, Jr., to The Texas Co. Extreme pressure lubricant compositions. 2,796,402, 6-18-57, Cl. 252-47.5.
- Kluger, Joseph. Envelopes. 2,788,230, 4-9-57, Cl. 282-25.
- Klumb, George H., M. B. Sallsbury, and R. E. Schulze, to Culligan, Inc. Color indication means and method for ion exchange material. 2,778,798, 1-22-57, Cl. 210-24.
- Klumb, George H., R. E. Schulze, M. L. Roach, and M. B. Sallsbury, to Culligan, Inc. Self-indicating ion exchange and/or filter apparatus. 2,781,312, 2-12-57, Cl. 210-24.
- Klumb, Hans, to W. C. Heraeus G. m. b. H. Vacuum meters. 2,785,571, 3-19-57, Cl. 73-399.
- Klump, Charles A. Decorative shield for finger nail. 2,816,555, 12-17-57, Cl. 132-73.
- Klump, Ferdinand, Jr. Conductor terminals. 2,813,258, 11-12-57, Cl. 339-276.
- Klump, Jason W., $\frac{1}{2}$ to J. C. Cosgrove. Rotary hone. 2,778,167, 1-22-57, Cl. 51-184.1.
- Klungtvedt, Orrin C. Welder's work holder. 2,786,434, 3-26-57, Cl. 113-104.
- Kmieciak, Leopold J., to McDonnell & Miller, Inc. Pipe plug. 2,812,101, 11-5-57, Cl. 220-39.
- Kmonk, Andrew. Bait dispenser. 2,816,393, 12-17-57, Cl. 43-55.
- Knabe, John A.: See—
Knabe, Norbert N., J. A. and T. J. 2,801,595.
Knabe, Norbert N., J. A. and T. J. Insert pump for wells. 2,801,595, 8-6-57, Cl. 103-158.
- Knabe, Thomas J.: See—
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- Knabusch, Edward M., and E. J. Shoemaker, to La-Z-Boy Chair Co. Reclining chair. 2,779,391, 1-29-57, Cl. 155-106.
- Knabusch, Edward M., and E. J. Shoemaker, to La-Z-Boy Chair Co. Reclining chair with extensible footrest. 2,779,392, 1-29-57, Cl. 155-106.
- Knabusch, Edward M., and E. J. Shoemaker, to La-Z-Boy Chair Co. Reclining chair. 2,779,393, 1-29-57, Cl. 155-106.
- Knabusch, Edward M., and E. J. Shoemaker, to La-Z-Boy Chair Co. Reclining chair. 2,781,823, 2-19-57, Cl. 155-106.
- Knabusch, Edward M., and E. J. Shoemaker, to La-Z-Boy Chair Co. Platform rocker. 2,817,388, 12-24-57, Cl. 155-72.
- Knapp, Carroll L., Jr., and E. O. Forster, to Esso Research and Engineering Co. Addition agent for oil compositions and the like. 2,805,203, 9-3-57, Cl. 252-34.
- Knapp, Charles A., to Dorr-Oliver Inc. Method of handling sludge in longitudinal settling tanks. 2,779,471, 1-29-57, Cl. 210-55.
- Knapp, Hans J.: See—
Greaves, Fred G., and Knapp. 2,816,693.
- Knapp, Harry M., and D. C. Koehler, to Bell Telephone Laboratories, Inc. Method of manufacture of contact springs. 2,807,868, 10-1-57, Cl. 29-155.35.
- Knapp, Ismond E.: See—
Eckhardt, Owen S., and Knapp. 2,818,412.
- Knapp, James G.: See—
Palma, Joseph, Jr., and Knapp. 2,801,433.
- Knapp, Marion A. Swivel joint. 2,799,521, 7-16-57, Cl. 285-281.
- Knapp, Marion A., to Rico Enterprises, Inc. Lugged pipe coupling with positive lock means. 2,818,279, 12-31-57, Cl. 285-89.
- Knapp Mills Inc.: See—
Knapp, Victor E., and Schmidt. 2,790,412.
- Knapp-Monarch Co.: See—
Huck, Alfred J. 2,784,289.
Huck, Alfred J. 2,794,896.
Huck, Alfred J. 2,806,421.
Huffman, Russell I. 2,783,561.
Moore, Walter E. 2,787,207.
Moran, James M., and MacKechnie. 2,784,288.
Nebinger, Richard B. 2,804,994.
Theisen, John P. 2,809,579.
Theisen, John P. 2,811,097.
Uthoff, Robert D. 2,797,969.
Visos, Charles D. 2,778,902.
Visos, Charles D. 2,780,711.
- Knapp, Oswald E.: See—
Ludwig, Thomas E., and Knapp. 2,796,415.
- Knapp, Paul, to E. I. du Pont de Nemours and Co. Process of improving the hand of polyethylene terephthalate fabric by heat shrinking and hydrolyzing the fabric. 2,781,242, 2-12-57, Cl. 8-115.5.
- Knapp, Russell H., and E. W. Marsh, to Boeing Airplane Co. Hydraulic accumulator. 2,809,667, 10-15-57, Cl. 139-31.
- Knapp, Shepherd. Plastic simulated wrought iron article. 2,809,456, 10-15-57, Cl. 41-10.
- Knapp, Victor E., and O. F. Schmidt, to Knapp Mills Inc. Machine and method for cladding pipes and the like. 2,790,412, 4-30-57, Cl. 118-69.
- Knapp, Wallace C. Pneumatically operated reciprocating tool. 2,804,847, 9-3-57, Cl. 121-3.
- Knapp, William E.: See—
Bolkcom, Wilbur T., and Knapp. 2,810,640.
- Knapp, William E., and R. R. Roth, to Minneapolis-Moline Co. Planter valve. 2,778,548, 1-22-57, Cl. 222-556.
- Knappen, Russell S.: See—
Cornell, Paul W., and Knappen. 2,798,633.
- Knappen, Russell S., to Gulf Oil Corp. Method for developing cavities in salt or other soluble rock. 2,787,455, 4-2-57, Cl. 262-3.
- Knappwost, Adolf, to Vivadent Corp. Permanently sterilized dental material. 2,798,816, 7-9-57, Cl. 106-35.
- Knappwost, Adolf, to Vivadent Corp. Method of caulking fissures. 2,802,268, 8-13-57, Cl. 32-15.
- Knapsack-Griesheim Aktiengesellschaft: See—
Dämgén, Wilhelm, and Rumberg. 2,792,251.
Hartlapp, Gerhard, and Rodis. 2,811,419.
Meyer, Oskar, Ebert, and Frank. 2,805,933.
Wolfram, A., Steil, and Agunte. 2,790,822.

- Knapton, Earl J. Fishing apparatus. 2,814,151, 11-26-57, Cl. 43—43.15.
- Knarzer, Herman C., to Dille & McGuire Mfg. Co. Lawn mower handle adjustment and safety device. 2,791,437, 5-7-57, Cl. 280—47.36.
- Knauer, Erwin R.: *See*—
Wilson, Rosser L., and Knauer. 2,778,008.
- Knauert, William F., to Sonotone Corp. Magnetic insert earphone and inserts therefor. 2,808,468, 10-1-57, Cl. 179—107.
- Knauert, William F., and I. Michalko, to Sonotone Corp. Inertia type electromechanical sound transducing device. 2,804,509, 8-27-57, Cl. 179—107.
- Knauf, Nicholas T. Heel release ski binding. 2,789,827, 4-23-57, Cl. 280—11.35.
- Knauss, Alois J. Four legged trot hopple. 2,814,923, 12-3-57, Cl. 54—71.
- Knauth, John P., and K. R. Lang, to Syracuse Machine Co., Inc. Wire feeding and straightening apparatus. 2,779,884, 1-29-57, Cl. 153—100.
- Knecht, Frederick L.: *See*—
Anania, James A. 2,799,917.
- Kneeland, John A.: *See*—
Purdy, Richard H., and Kneeland. 2,786,063.
- Knefel, Stanley C. Template for folding rules. 2,802,278, 8-13-57, Cl. 33—181.
- Kneib, Alphonse P.: *See*—
Kneib, Vincent J. 2,785,810.
- Kneib, Vincent J., $\frac{1}{2}$ to A. P. Kneib. Bale loading machine. 2,785,810, 3-19-57, Cl. 214—42.
- Kneisley, Richard F., and H. V. Madden. Liquid dispensing device. 2,784,885, 3-12-57, Cl. 222—439.
- Kneifel, Seymour H., to Paramount Pictures Corp. Means and method for producing three dimensional pictures from subjects positioned substantially in a common plane. 2,798,407, 7-9-57, Cl. 88—16.
- Knibbs, Norman V. S., and E. G. S. Thyer, to Fawkham Developments Ltd. Heat treatment of finely-divided solids. 2,812,592, 11-12-57, Cl. 34—57.
- Knickerbocker Plastic Co. Inc.: *See*—
Gorr, Walter O. 2,786,381.
Gorr, Walter O. 2,811,071.
Musser, Clair O. 2,807,181.
Musser, Clair O. 2,809,836.
- Kniehahn, Werner. Optical composing machine. 2,788,721, 4-16-57, Cl. 95—4.5.
- Kniel, Ludwig, to The Lummus Co. Production of ethylene. 2,780,580, 2-5-57, Cl. 196—8.
- Kniel, Wolfgang E., and L. H. Matthias, to Allen-Bradley Co. Apparatus for improving electrical switch contact reliability. 2,817,774, 12-24-57, Cl. 307—137.
- Knierim, Carl O., to The Gas Machinery Co. Forge furnace. 2,817,507, 12-24-57, Cl. 263—37.
- Knight, Frank J., to Lockheed Aircraft Corp. Pull testing tools. 2,782,635, 2-26-57, Cl. 73—95.
- Knight, James L., to General Electric Co. Refrigerating apparatus including rotating heat exchangers. 2,805,558, 9-10-57, Cl. 62—117.5.
- Knight, James L., to General Electric Co. Magnetic latch. 2,812,964, 11-12-57, Cl. 292—251.5.
- Knight, James S. Humidifier units for hot air furnaces. 2,810,381, 10-22-57, Cl. 126—113.
- Knight, Kenneth W.: *See*—
Carstensen, Jens T., Knight, Valentine, and Weidenheimer. 2,789,920.
Michel, George H., and Knight. 2,778,771.
Michel, George H., and Knight. 2,799,591.
- Knight Leather Products, Inc.: *See*—
Renz, Emil K., and Miller. 2,783,808.
- Knight, Lloyd F., to Servo Corp. of America. Detachable joint for a mast or the like. 2,794,961, 6-4-57, Cl. 339—75.
- Knight, Philip L., to Surface Combustion Corp. Gas mixing apparatus. 2,799,288, 7-16-57, Cl. 137—98.
- Knight, Robert G. Easy lift produce truck. 2,778,516, 1-22-57, Cl. 214—384.
- Knight, Stanley G., to Wisconsin Alumni Research Foundation. Roquefort-type cheese and processes of preparing the same. 2,786,762, 3-26-57, Cl. 99—116.
- Knights, James, Co., The: *See*—
Berge, Robert. 2,795,905.
Berge, Robert E. 2,816,239.
Holmbeck, John D. 2,808,523.
- Knights, Richard N., to Dowty Equipment Ltd. Releasable locking mechanism for securing telescopically slidable members. 2,802,681, 8-13-57, Cl. 287—58.
- Knights, Richard N., to Dowty Equipment Ltd. Telescopic struts. 2,809,721, 10-15-57, Cl. 188—67.
- Knipfer, Stearl E., and E. Lajza. Collapsible wind-break. 2,784,779, 3-12-57, Cl. 160—135.
- Knipper, Henry, Jr.: *See*—
Mansfield, William R. 2,789,796.
- Kniser, Thomas J. Ratchet wrench with supplemental head turning means. 2,817,257, 12-24-57, Cl. 81—58.1.
- Knit-Rite Co., The: *See*—
Smith, Theodore W., Heger, and McConnell. 2,818,063.
- Knittel, Donald M. Combination jack and work stand. 2,814,099, 11-26-57, Cl. 29—289.
- Knittel, Emil E. Power driven multiple revolving card files. 2,796,308, 6-18-57, Cl. 312—186.
- Knittle, Gale L., to American Telephone and Telegraph Co. Key telephone set holding circuit. 2,810,016, 10-15-57, Cl. 179—1.
- Knit Wear Patents, Inc.: *See*—
Nugey, Anthony L. 2,790,718.
Foltis, Anestis C. 2,809,412.
- Knobel, Fritz. Starter for low-potential fluorescent tubular lamps. 2,786,965, 3-26-57, Cl. 315—100.
- Knobel, Hubert: *See*—
Clauberg, Friedrich, and Knobel. 2,786,611.
- Knochel, William J.: *See*—
Dailey, Hampton J., and Knochel. 2,776,473.
- Knocke, Louis T., to Chrysler Corp. Assembly comprising calibrated bolt and calibrated deformable conical washer. 2,781,687, 2-19-57, Cl. 85—62.
- Knohl, Friedrich K., to Illinois Tool Works. Resilient undulating lock washer with inclined lugs for retaining on rotary fastener. 2,817,380, 12-24-57, Cl. 151—38.
- Knokey, Erwin W., $\frac{1}{2}$ to Diamond Lumber Co. Rotary veneer clipper. 2,808,883, 10-8-57, Cl. 164—48.
- Knol, Kornelis S.: *See*—
Diemer, Gesinus, Knol, Edens, and Uitjens. 2,797,266.
Diemer, Gesinus, Knol, Jonker, Versnel, and Groendijk. 2,813,222.
- Knol, Kornelis S., and J. Davids, to North American Philips Co., Inc. Improved ultra-high frequency amplifier. 2,801,299, 7-30-57, Cl. 179—171.
- Knoll A. G. Chemische Fabriken: *See*—
Klavehn, Wilfried. 2,789,110.
Schuler, Leonhard. 2,802,029.
- Knoll Associates Inc.: *See*—
Bertoia, Harry. 2,804,915.
Knoll, Florence S. 2,796,307.
- Knoll, David, to Berko Electric Mfg. Corp. Electric heaters. 2,795,682, 6-11-57, Cl. 219—34.
- Knoll, Florence S., to Knoll Associates, Inc. Support for an article of furniture. 2,796,307, 6-18-57, Cl. 311—109.
- Knolle, Wilhelm, to Heinrich Lanz Aktiengesellschaft. Powered tractor with front and rear wheel steering controls. 2,796,140, 6-18-57, Cl. 180—12.
- Knollenberg, Allen V.: *See*—
Hetman, Frank W., and Knollenberg. 2,814,319.
- Knoller, Howard J.: *See*—
Trostel, Albert O., Jr., and Knoller. 2,799,339.
- Knoop, Herbert Dow and J. W. Kinney, Jr. Compartmented package. 2,791,324, 5-7-57, Cl. 206—47.
- Knoop, William A., to Bell Telephone Laboratories, Inc. Servomotor systems. 2,817,052, 12-17-57, Cl. 318—298.
- Knop, James C., and H. A. Mitchell, to The Fulton Co. Trailer coupling and method of producing same. 2,799,921, 7-23-57, Cl. 29—536.
- Knopp, Reinhold. Retooling tool for chain saws. 2,816,460, 12-17-57, Cl. 76—25.
- Knorr, Charles H., Jr. Disc type electric pickup for strip cutting machines. 2,796,480, 6-18-57, Cl. 200—61.14.
- Knorr, Charles H., Jr. Serrated pick-up. 2,796,496, 6-18-57, Cl. 200—166.
- Knoth, Frederick, Jr.: *See*—
Morway, Arnold J., Knoth, and Bartlett. 2,779,736.
Stewart, Joseph, Staib, and Knoth. 2,810,748.
- Knoth, Harold M., to Deere & Co. Cotton-boll-separation apparatus. 2,777,167, 1-15-57, Cl. 19—72.
- Knott, George, and N. W. Robinson, to North American Philips Co. Inc. Electric discharge tube. 2,802,968, 8-13-57, Cl. 315—235.
- Knott, Philip H. Miniature golf game apparatus. 2,794,646, 6-4-57, Cl. 273—176.
- Knott, Ralph D., to The General Electric Co. Ltd. Transistors. 2,810,873, 10-22-57, Cl. 317—235.
- Knouse, Edgar J., to Quality Components, Inc. Core for choke coil or resistor. 2,776,413, 1-1-57, Cl. 336—192.
- Knowles, Edward R., to Lapin Products, Inc. Plastic bottle molding machine. 2,789,313, 4-23-57, Cl. 18—5.
- Knowles, Edward R. Fishhook holder. 2,813,368, 11-19-57, Cl. 43—57.5.
- Knowles, Edwin M., China Co., The: *See*—
Watkin, Robert W. 2,813,324.
- Knowles, Frank W., to Belt-Ice Corp. Insulated door and mounting structures therefor. 2,807,836, 10-1-57, Cl. 20—25.
- Knowles, Frank W. Package feeder. 2,808,921, 10-8-57, Cl. 198—31.
- Knowles, Fred L. Manually operated surgical instrument. 2,789,860, 4-23-57, Cl. 294—104.
- Knowles, George. Selective weed control by prevention of viable seed production. 2,818,327, 12-31-57, Cl. 71—2.5.
- Knowles, Jack: *See*—
Cook, Frederick J., and Knowles. 2,811,084.
- Knowles, John G. Hydraulic brake system for motor vehicles. 2,788,094, 4-9-57, Cl. 188—152.
- Knowles, John H., to Dorr-Oliver Inc. Rotary liquid distributor of a reaction driven type for the treatment of waste liquids. 2,779,732, 1-29-57, Cl. 210—7.
- Knowles, Joyce W.: *See*—
Fletcher, Arthur H., Corbitt, and Knowles. 2,802,334.
- Knowles, Squire. Magnetic toy. 2,814,909, 12-3-57, Cl. 46—240.
- Knowles, William L., to Coru-Ply Corp. Machine for making corrugated wood. 2,785,717, 3-19-57, Cl. 144—254.

- Knowles, William S.: *See*—
 Farrar, Martin W., Raffelson, and Knowles. 2,786,836.
 Farrar, Martin W., Raffelson, and Knowles. 2,786,837.
 Fletcher, Arthur H., Corbitt, and Knowles. 2,802,334.
 Knowlton, Robert E., I. A. Macgregor, and P. Evans, to Imperial Chemical Industries Ltd. Production of urea in granular form. 2,815,376, 12-3-57, Cl. 260-555.
 Knox, Dale I., to The Dayton Rubber Co. Package for deformable annular members. 2,802,568, 8-13-57, Cl. 206-65.
 Knox, Donald G., to The National Supply Co. Plunger construction for free piston pump for well casing. 2,791,181, 5-7-57, Cl. 103-52.
 Knox, Granville S., to Hydril Co. Accumulator with diaphragm stabilizer. 2,804,884, 9-3-57, Cl. 138-30.
 Knox, Harold W., to The Firestone Tire & Rubber Co. Tire mold. 2,779,060, 1-29-57, Cl. 18-38.
 Knox, John A.: *See*—
 Hower, Wayne F., and Knox. 2,815,815.
 Knox, Lewis A., to International Business Machines Corp. Record sensing apparatus. 2,782,989, 2-26-57, Cl. 235-61.11.
 Knox Mfg. Co.: *See*—
 Petrick, Edward J. 2,793,687.
 Knox, Scoville E.: *See*—
 Tenney, William L., and Knox. 2,799,137.
 Knox, William T., Jr.: *See*—
 Holder, Clinton H., Weeks, and Knox. 2,779,317.
 Knudsen, Alfred: *See*—
 Shields, Samuel T., and Knudsen. 2,787,820.
 Knudsen, Knud J. Precision chronometer. 2,796,728, 6-25-57, Cl. 58-30.
 Knudsen, Knud J., to The Lewis Engineering Co. Large-deflection electrical instrument. 2,802,988, 8-13-57, Cl. 324-150.
 Knudsen, Raymond G., to Snap-On Tools Corp. Cylinder sleeve pulling devices and the like. 2,776,470, 1-8-57, Cl. 29-252.
 Knudsen, Raymond G., and R. F. Arnold, to Snap-On Tools Corp. Tappet or valve lash gauge holder. 2,817,151, 12-24-57, Cl. 33-168.
 Knudsen, Thomas C., to Allis-Chalmers Mfg. Co. Shaft gripping device. 2,814,515, 11-26-57, Cl. 287-52.06.
 Knuemper, Walter J., to International Telephone and Telegraph Corp. Portable equipment and folding legs therefor. 2,776,180, 1-1-57, Cl. 312-255.
 Knupfer, Eleanor M.: *See*—
 Murdock, Ellen B., and Knupfer. 2,803,059.
 Knüsli, Enrico: *See*—
 Gysin, Hans, and Knüsli. 2,776,196.
 Gysin, Hans, and Knüsli. 2,776,197.
 Gysin, Hans, and Knüsli. 2,812,247.
 Knuth, Charles J., to Chas. Pfizer & Co., Inc. Vinyl halide resins plasticized with 1-substituted-4-carboalkoxy-2-pyrrolidinone. 2,811,496, 10-29-57, Cl. 260-30.2.
 Knutsen, Knut A., to Compagnie des Machines Bull (Societe Anonyme). Arrangement for checking the transcription of numerals on documents. 2,781,971, 2-19-57, Cl. 235-61.7.
 Knutsen, Knut A., to Compagnie des Machines Bull (Societe Anonyme). Arrangements for checking the transcription of numbers and arithmetical operations effected in accounting machines. 2,805,824, 9-10-57, Cl. 235-61.7.
 Knutsen, Knut A., to Compagnie des Machines Bull (Societe Anonyme). Calculating machines. 2,812,903, 11-12-57, Cl. 235-61.
 Knutson, Henry C.: *See*—
 Taylor, Byron M., and Knutson. 2,817,909.
 Knutson, Roy G., to the United States of America as represented by the Secretary of the Navy. Synchronous discriminator-amplifier. 2,776,398, 1-1-57, Cl. 321-27.
 Koban, Adolf. Welding jig. 2,793,425, 5-28-57, Cl. 29-288.
 Kobayashi, Takizo, to K. Tanaka. Starting device for a pre-heating type fluorescent lamp. 2,802,143, 8-6-57, Cl. 315-98.
 Kobbe, John R., to Tektronix, Inc. Phase inversion circuit. 2,791,642, 5-7-57, Cl. 179-171.
 Kobbe, John R., to Tektronix, Inc. Unblanking circuit for cathode ray tubes. 2,804,571, 8-27-57, Cl. 315-22.
 Kobe, Inc.: *See*—
 Coberly, Clarence J. 2,812,662.
 Coberly, Clarence J. 2,812,721.
 Coberly, Clarence J. 2,812,723.
 Kobe, Kenneth A. Apparatus for submerged combustion of liquid fuels. 2,781,756, 2-19-57, Cl. 126-360.
 Kobel, Hans: *See*—
 Stoll, Arthur, Brack, Hofmann, and Kobel. 2,809,920.
 Kober, Ehrenfried: *See*—
 Grundmann, Christoph J., and Kober. 2,805,222.
 Kober, Philip A., to Sherman Laboratories. Stable thiamine and pyridoxine hydrochloride solutions. 2,809,970, 10-15-57, Cl. 260-256.6.
 Kober, William. Dynamo voltage control. 2,784,332, 3-5-57, Cl. 310-191.
 Köberle, Albert, to Firma B. Raimann G. m. b. H. Slidably and rotably adjustable work holding structure. 2,816,586, 12-17-57, Cl. 144-303.
 Kobielsch, William. Adjustable portable steps for trailers. 2,788,166, 4-9-57, Cl. 228-1.
 Kobil, George F., and T. T. Kobil. Glass panel mounting sash for doors. 2,791,007, 5-7-57, Cl. 20-36.
 Kobil, Thomas T.: *See*—
 Kobil, George F., and T. T. 2,791,007.
 Koble, Robert A., to Phillips Petroleum Co. Absorption process. 2,806,552, 9-17-57, Cl. 183-115.
 Koble, Robert A., to Phillips Petroleum Co. Recovery of acetylene from gases containing it in small proportion. 2,814,359, 11-26-57, Cl. 183-115.
 Koblér, Albert: *See*—
 Matter, Max, and Koblér. 2,798,873.
 Koblér, Jasper F., Jr., G. T. Mercier, Jr., and R. G. Stirling, Jr., to Ethyl Corp. Hydrochlorination of ethylene process. 2,786,875, 3-26-57, Cl. 260-663.
 Koblér, Richard: *See*—
 La Forest, Louis Z., and Koblér. 2,799,733.
 Koblér, Richard, to McGraw Edison Co. Remotely-controlled dictation-recording systems. 2,788,395, 4-9-57, Cl. 179-100.1.
 Koblér, Richard, to McGraw-Edison Co. Remotely-controlled phonographic system. 2,800,531, 7-23-57, Cl. 179-6.
 Koblér, Richard, and M. J. Kutik, to McGraw-Edison Co. Dictation recording system. 2,801,292, 7-30-57, Cl. 179-100.1.
 Koblér, Victor: *See*—
 Koblér, Werner and V. 2,801,466.
 Koblér, Werner and V. Dry shaver having parallel inclined shearheads. 2,801,466, 8-6-57, Cl. 30-43.
 Koblitz, Francis F.: *See*—
 Thomas, Frederick L., and Koblitz. 2,778,793.
 Koblitz, Francis F., to Bjorksten Research Laboratories, Inc. Adhesive comprising alkenyl diglycol carbonate. 2,787,568, 4-2-57, Cl. 154-43.
 Koblitz, Werner: *See*—
 Flämig, Fritz, and Koblitz. 2,787,898.
 Kocay, Witold R.: *See*—
 Bundegaard, Howard, and Kocay. 2,777,931.
 Kocay, Witold R., and H. Bundegaard, to American Cyanamid Co. Device for stripping liquid from a moving thread. 2,803,052, 8-20-57, Cl. 28-68.
 Koch, Alfred L., Jr., to Westinghouse Air Brake Co. Electric circuit integrity checking apparatus. 2,800,645, 7-23-57, Cl. 340-213.
 Koch, Edward. Mixer. 2,778,614, 1-22-57, Cl. 259-132.
 Koch, Erich, to Firma Jung Schleifmaschinen H. Gaub. Carriage moving structure for machine tools. 2,785,514, 3-19-57, Cl. 51-165.
 Koch, Friedrich, to C. Zeiss. Wide angle anastigmatic objective comprising two negative inner meniscus components between two outer positive meniscus components. 2,792,749, 5-21-57, Cl. 88-57.
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 Visor, Frederick C., McNew, Koch, and Goenaga. 2,777,791.
 Koch, George J.: *See*—
 Brinsmaid, Doris S., Keenan, Koch, and Parsons. 2,784,115.
 Koch, George, Sons, Inc.: *See*—
 Warren, Samuel C. 2,810,382.
 Koch, Gustav H., to Westinghouse Electric Corp. Electric motor. 2,792,512, 5-14-57, Cl. 310-258.
 Koch, Gustav H. Fan apparatus. 2,804,008, 8-27-57, Cl. 98-118.
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 Koch, James P. Wall lamp. 2,777,944, 1-15-57, Cl. 240-73.
 Koch, Leonard J.: *See*—
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 Koch, John B., to American Radio & Standard Sanitary Corp. Diffusion device. 2,813,475, 11-19-57, Cl. 98-40.
 Koch, Lynn J. Apparatus for producing rain cloud moisture. 2,776,167, 1-1-57, Cl. 299-29.
 Koch, Maurice P. Luggage. 2,796,961, 6-25-57, Cl. 190-41.
 Koch, Maurice P. Thermal insulated carrying cases and sealing means for same. 2,803,368, 8-20-57, Cl. 220-4.
 Koch, Paul H., to The Babcock & Wilcox Co. Vapor generating and superheating unit with gas recirculation for superheat control. 2,794,428, 6-4-57, Cl. 122-478.
 Koch, Paul H., and A. E. Raynor, to The Babcock & Wilcox Co. Vapor generating installation with multiple platen radiant superheater. 2,811,955, 11-5-57, Cl. 122-479.
 Koch, Raymond F.: *See*—
 Brugman, Lawrence W., and Koch. 2,778,569.
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 Koch, Robert E., to General Electric Co. Electrical clamp and combination clamp latch and contact device. 2,792,472, 5-14-57, Cl. 200-133.
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 Koch, Samuel J., E. Appoldt, and R. Feldman; said Appoldt and Feldman assors. to said Koch. Low-voltage relay device. 2,811,603, 10-29-57, Cl. 200-113.
 Koch, Stanley J., and R. E. Rutherford, to Allen B. Du Mont Laboratories, Inc. Rectangular metal cathode ray tube. 2,782,953, 2-26-57, Cl. 220-2.3.

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- Koch, Werner, to Licentia Patent-Verwaltungs-G. m. b. H. Selenium rectifiers and process for manufacturing same. 2,806,984, 9-17-57, Cl. 317-241.
- Koch, Werner, to Faber & Schleicher Aktiengesellschaft. Stack elevator for printing machines. 2,809,034, 10-8-57, Cl. 271-62.
- Koch, Werner P., to Faber & Schleicher Aktiengesellschaft. Sheet feeding device for printing machines. 2,817,521, 12-24-57, Cl. 271-62.
- Koch, William. Pivoted blade control mechanism for lawn edge trimmer. 2,812,631, 11-12-57, Cl. 56-246.
- Koch, William H. Releaseable gravity return gate. 2,786,289, 3-26-57, Cl. 39-31.
- Koch, William H. Gravity return bump gates. 2,810,220, 10-22-57, Cl. 39-31.
- Koch, William J., to the United States of America as represented by the Secretary of Commerce. Method of making block talc and related materials. 2,781,273, 2-12-57, Cl. 106-39.
- Koch, Winfield R., to Radio Corp. of America. Frequency control system. 2,790,848, 4-30-57, Cl. 178-5.4.
- Koch, Winfield R., to Radio Corp. of America. Automatic frequency control circuits. 2,817,755, 12-24-57, Cl. 250-20.
- Kocher, Fred W.: See—
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- Kochevar, Henry J., to Bendix Aviation Corp. Bipolar saw-tooth generator. 2,799,777, 7-16-57, Cl. 250-27.
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Nes, Rangar J. 2,807,461.
- Koci, Jerry C., to Chicago Coin Machine Co. Photographing apparatus. 2,796,812, 6-25-57, Cl. 95-1.1.
- Koci, Ludvik J., to Sunbeam Corp. Automatic toaster. 2,806,422, 9-17-57, Cl. 99-331.
- Kock, Winston E., to Bell Telephone Laboratories, Inc. Signal routing apparatus. 2,794,172, 5-28-57, Cl. 333-11.
- Kock, Winston E., to Bell Telephone Laboratories, Inc. Directional transducer. 2,796,467, 6-18-57, Cl. 179-111.
- Kock, Winston E., to Bell Telephone Laboratories, Inc. Directional radiator. 2,808,584, 10-1-57, Cl. 343-768.
- Kock, Winston E., to Belle Telephone Laboratories, Inc. Double resonant filter. 2,812,032, 11-5-57, Cl. 181-0.5.
- Kocks, Friedrich. Clamping device for butt-welding of pipes. 2,777,048, 1-8-57, Cl. 219-161.
- Kocks, Friedrich, G. m. b. H.: See—
Melcher, Hans. 2,776,474.
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- Koda, Nobuo J.: See—
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- Koda, Nobuo J., and K. M. Hoalst, to Hughes Aircraft Co. Process for producing a storage grid assembly. 2,790,228, 4-30-57, Cl. 29-25.17.
- Kodama, George T., deceased, by L. T. Kodama, administrator, to Sprague Electric Co. Miniature high dielectric multi-capacitor unit. 2,777,110, 1-8-57, Cl. 323-74.
- Kodama, George T., to Sprague Electric Co. Audio frequency signal transfer control circuits. 2,790,970, 4-30-57, Cl. 179-1.
- Kodama, Lloyd T.: See—
Kodama, George T. 2,777,110.
- Koerber, Henry J., Jr., to Bell & Howell Co. Check endorsing apparatus. 2,807,999, 10-1-57, Cl. 101-91.
- Koerber, Theodore H.: See—
Saries, Canneth D., Keener, and Koerber. 2,786,407.
- Koebler, Albert, to The United States Printing and Lithograph Co. Container. 2,803,391, 8-20-57, Cl. 229-27.
- Koehl, James A., to Central Commercial Industries, Inc. Outside player for electrical musical instrument. 2,801,563, 8-6-57, Cl. 84-107.
- Koehler, Donald C.: See—
Knapp, Harry M., and Koehler. 2,807,868.
- Koehler, Fred, to Hamilton Watch Co. Retainer ring for balance wheel staff. 2,777,279, 1-15-57, Cl. 58-28.
- Koehler Mfg. Co.: See—
Lozeau, Homer A. 2,794,905.
- Koehler, Otto A. Golf club. 2,801,106, 7-30-57, Cl. 273-81.3.
- Koehler, Paul K., to American Can Co. Locking device for machine assemblies. 2,777,717, 1-15-57, Cl. 287-52.
- Koehler, Robert B., to International Business Machines Corp. Indicator device. 2,796,558, 6-18-57, Cl. 315-169.
- Koehler, Robert B., and R. K. Richards, to International Business Machines Corp. Self-complementing gas counter tube. 2,782,336, 2-19-57, Cl. 313-196.
- Koehler, Werner: See—
Stephan, Hans J., and Koehler. 2,812,037.
- Koehn, Lorenz: See—
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- Koehne, Charles F., Jr.: See—
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Schrecongost, Richard K. 2,797,455.
- Koeller, Erich H. Toy gun. 2,793,635, 5-28-57, Cl. 124-2.
- Koelsch, Charles F. Benzofurohexa hydropyridines and preparation thereof. 2,809,201, 10-8-57, Cl. 260-294.7.
- Koenecke, Donald F.: See—
Mikeska, Louis A., and Koenecke. 2,806,883.
Nelson, Joseph F., and Koenecke. 2,802,842.
- Koenecke, Donald F., and L. A. Mikeska, to Esso Research and Engineering Co. Dicarboxylic aromatic compounds and process for making same. 2,806,877, 9-17-57, Cl. 260-523.
- Koenig, Claus. Machine for attaching an adhesive strip to a two-dimensional article. 2,812,005, 11-5-57, Cl. 154-1.6.
- Koenig, Philip C., to Boeing Airplane Co. Blind rivet having sealing and pin retaining sleeve. 2,795,989, 6-18-57, Cl. 85-40.
- Koenig and Pope: See—
Sonnino, Carlo. 2,788,317.
- Koenig, Simon W., Jr. Hydraulic control valve. 2,814,309, 11-26-57, Cl. 137-624.
- Koenigsberg, Max, to The Englander Co., Inc. Furniture structure. 2,800,954, 7-30-57, Cl. 155-180.
- Koepke, Luetta L. Ladies' handbag or totebag. 2,779,373, 1-29-57, Cl. 150-28.
- Koepnick, Paul J., and E. Woldring, to The Rapids-Standard Co., Inc. Anti rollback device for conveyors. 2,813,604, 11-19-57, Cl. 192-2.
- Koeppel, Robert J., to O. Staubach. Water operated tumbler washer. 2,794,196, 6-4-57, Cl. 15-75.
- Koering, Herman J. Garden tool. 2,780,976, 2-12-57, Cl. 97-62.
- Koerner, Harry E.: See—
Vaughn, Everett W., and Koerner. 2,801,671.
- Koerner, Philip A. Mobile frame for lifting and carrying farm implements. 2,780,475, 2-5-57, Cl. 280-44.
- Koeshall, Harley S. Swinging hopper type vegetable chopper. 2,807,298, 9-24-57, Cl. 146-64.
- Koester, Walter: See—
Kanaley, William D. 2,785,420.
- Kofahl, David C., and F. G. Hitchcock, to Richfield Oil Corp. Building formed of prefabricated panels. 2,803,856, 8-27-57, Cl. 20-2.
- Kofford, Reed S. Automatic water control for poultry. 2,787,284, 4-2-57, Cl. 137-408.
- Kofford, Reed S. Egg counter. 2,787,420, 4-2-57, Cl. 235-122.
- Kofford, Reed S. Poultry watering cup. 2,796,077, 6-18-57, Cl. 137-408.
- Kofford, Walter M.: See—
Keller, Philip B., and Kofford. 2,787,986.
- Koffski, John H. Pipe cleaner. 2,803,026, 8-20-57, Cl. 15-104.07.
- Koft, Emil, Jr., and J. W. Schick, to Socony Mobil Oil Co., Inc. Complex calcium salts of oxidized petroleum oils and process for preparing the same. 2,779,737, 1-29-57, Cl. 252-39.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Absorption refrigeration system. 2,785,543, 3-19-57, Cl. 62-119.5.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Absorption refrigeration. 2,787,137, 4-2-57, Cl. 62-119.5.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Cooling unit for absorption refrigeration apparatus. 2,794,331, 6-4-57, Cl. 62-119.5.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Absorption refrigeration. 2,795,940, 6-18-57, Cl. 62-119.5.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Absorption refrigeration. 2,797,555, 7-2-57, Cl. 62-119.5.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Combined generator and liquid heat exchange unit for absorption refrigeration system. 2,797,556, 7-2-57, Cl. 62-119.5.
- Kögel, Wilhelm G., to Aktiebolaget Elektrolux. Absorption refrigeration apparatus. 2,797,557, 7-2-57, Cl. 62-119.5.
- Kogut, Doris I. Protective hand and wrist covering for handling hot kitchen utensils and appliances. 2,810,131, 10-22-57, Cl. 2-158.
- Kohl, Everard F., and Z. Kazenas, said Kazenas assignor to Mercast Corp. Shell mold structures and processes and compositions for forming the same. 2,790,218, 4-30-57, Cl. 22-193.
- Kohl, Everard F., and H. Lipsey, said Lipsey assignor to Mercast Corp. Shell mold structures and processes and compositions for forming the same. 2,790,219, 4-30-57, Cl. 22-196.
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- Kohl, Theodor. Multi-place work table for beauty salons and the like. 2,812,988, 11-12-57, Cl. 311-2.
- Kohlbeck, Charles A., 15% to D. C. Kohlbeck. Collapsible sportsman's hut and duck blind. 2,783,766, 3-5-57, Cl. 135-1.
- Kohlbeck, Donald C.: See—
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- Kohler, Harry L. Salvage wrecking tool. 2,779,567, 1-29-57, Cl. 254-131.
- Köhler, Horst, to C. Zeiss. Three lens apochromatic objective of two components. 2,785,602, 3-19-57, Cl. 88-57.
- Köhler, Horst, to Carl Zeiss. Prism field glass. 2,814,969, 12-3-57, Cl. 88-57.
- Kohler, Horst, R. Richter, and H. Kaselitz, to C. Zeiss. Focal lens system for attaching to photographic objectives. 2,789,463, 4-23-57, Cl. 88-57.
- Köhler, Horst, R. Richter, and H. Kaselitz, to C. Zeiss. Afocal lens system attachment for photographic objectives. 2,803,167, 8-20-57, Cl. 88-57.

- Köhler, Jacob W. L.: See—
Jonkers, Cornelius O., and Köhler, 2,799,141.
Jonkers, Cornelius O., Köhler, and Van Der Ster, 2,802,345.
- Köhler, Jacob W. L., to Hartford National Bank and Trust Co., as trustee. Hot-gas reciprocating engine for refrigerating. 2,784,570, 3-12-57, Cl. 62-136.
- Köhler, Jacob W. L., to North American Philips Co., Inc. Method of separating gas mixtures into fractions of different volatility. 2,808,709, 10-8-57, Cl. 62-122.
- Köhler, Jacob W. L., L. de Lange, and W. F. Schalkwijk, to Hartford National Bank and Trust Co., as trustee. Regenerator construction of a cold-gas refrigerator. 2,775,875, 1-1-57, Cl. 62-136.
- Köhler, Jacob W. L., and A. T. Bloem, to Hartford National Bank and Trust Co., as trustee. Cold-gas refrigerator. 2,781,647, 2-19-57, Cl. 62-136.
- Köhler, John H., to Shallite, Inc. Precision resistor. 2,817,738, 12-24-57, Cl. 201-64.
- Köhler, Rudolf: See—
Ziegler, Carl, Köhler, and Rüggeberg, 2,818,357.
- Kohlhagen, Walter, to The E. Ingraham Co. Constant torque drive. 2,783,657, 3-5-57, Cl. 74-472.
- Kohlhagen, Walter, to The E. Ingraham Co. Self-starting synchronous motor. 2,788,455, 4-9-57, Cl. 310-41.
- Kohlhagen, Walter, to The E. Ingraham Co. Bearings of the sealed viscous lubrication type. 2,809,311, 10-8-57, Cl. 310-90.
- Kohls, Richard L.: See—
Gregg, George F., and Caldwell, 2,800,050.
- Kohn, Earl J.: See—
Rice, Rip G., and Kohn, 2,813,124.
- Kohn, Gustave K., to California Spray-Chemical Corp. Stabilization of chloro organic compounds. 2,803,663, 8-20-57, Cl. 260-611.5.
- Kohn, Hans, to N. V. Industriële Onderneming W. H. Braskamp. Drying helmet or similar device in particular a hair-drying helmet. 2,817,158, 12-24-57, Cl. 34-90.
- Kohn, Leo S.: See—
Marshall, Walter L., and Kohn, 2,789,155.
- Kohn, Misch: See—
Le Vier, Bill J., and Kohn, 2,792,349.
- Köhne, Friedrich W., to Kutz & Schulze Zahnradfabrik. Device for the visual representation of variable phenomena. 2,811,790, 11-5-57, Cl. 35-24.
- Kohring, Erwin, to A. H. Schutte. Automatic multiple spindle lathe. 2,788,565, 4-16-57, Cl. 29-37.
- Kohring, Wilbur M. Sealed resistors. 2,792,620, 5-21-57, Cl. 29-155.5.
- Kohring, Wilbur M. Method and apparatus for making resistors. 2,793,143, 5-21-57, Cl. 117-213.
- Kohring, Wilbur M. Resistance coatings. 2,798,140, 7-2-57, Cl. 201-56.
- Kohring, Wilbur M. Method of resistor construction. 2,803,054, 8-20-57, Cl. 29-155.5.
- Kohring, Wilbur M. Resistors. 2,803,729, 8-20-57, Cl. 201-63.
- Kohring, Wilbur M. Resistance production. 2,816,996, 12-17-57, Cl. 201-63.
- Kohsiek, Donald J., to The Firestone Tire & Rubber Co. Pneumatic power actuated tubeless tire bead breaker. 2,779,397, 1-29-57, Cl. 157-1.1.
- Kohtz, George H. Coil end holder for hose. 2,799,907, 7-23-57, Cl. 24-81.
- Koistinen, Arnold A. Thread box having a chambered cover. 2,776,079, 1-1-57, Cl. 223-107.
- Kokesh, Frank P., to Schlumberger Well Surveying Corp. Electrical well logging. 2,776,402, 1-1-57, Cl. 324-1.
- Kolar, Leo P.: See—
Unetic, Andrew J., and Kolar, 2,776,158.
- Kolar, Robert F., and E. O. Johnson, to Radio Corp. of America. Multiple resonant slot antenna. 2,794,184, 5-28-57, Cl. 343-767.
- Kolb, Arthur F., and T. F. Rosing, to Cutler-Hammer, Inc. Circuit breaker. 2,813,951, 11-19-57, Cl. 200-116.
- Kolb Refractories Co.: See—
Kolb, William B., and Baker, 2,791,190.
- Kolb, William B., and F. A. Baker, to Kolb Refractories Co. Tripod baffle for furnaces. 2,791,190, 5-7-57, Cl. 110-97.
- Kolbe, Adelbert B., to General Motors Corp. Engine frame. 2,793,625, 5-28-57, Cl. 121-194.
- Kolbe, Adelbert E., and E. B. Sherrick, to General Motors Corp. Crankshaft. 2,815,682, 12-10-57, Cl. 74-603.
- Kolbe, Joachim. Force diverter spring release for two motion center banking cars. 2,788,984, 4-16-57, Cl. 280-112.
- Kolbe, Joachim. Force diverter for two motion center banking cars. 2,788,986, 4-16-57, Cl. 280-112.
- Kolbe, Joachim. Torsional acceleration hinge suspension for banking and nonbanking vehicles. 2,794,651, 6-4-57, Cl. 280-112.
- Kolbe, Joachim. Vehicle support torsion springs with their end sections bent to serve as banking hinges. 2,794,652, 6-4-57, Cl. 280-112.
- Kölbel, Herbert, and F. Engelhardt, to Rheinpreussen Aktiengesellschaft, Fuer Bergbau und Chemie. Catalytic steam-carbon monoxide synthesis oxygen-containing compounds. 2,786,863, 3-26-57, Cl. 260-449.6.
- Kolec, Robert F.: See—
Stau, Elvert H., and Kolec, 2,794,567.
- Kolenda, Edward R. Rotatable valve for containers. 2,790,583, 4-30-57, Cl. 222-554.
- Kolene Corp.: See—
Dunlevy, Ralph, Frick, and Shoemaker, 2,818,075.
- Faler, John A. 2,783,892.
- Faler, John A. 2,789,807.
- Faler, John A., Allen, and Stanton, 2,815,614.
- Webster, Hugh G. 2,801,215.
- Kolesa, Thomas J., to General Steel Castings Corp. Railway vehicle foundation brake gear. 2,788,865, 4-16-57, Cl. 188-33.
- Kolfenbach, John J., A. J. Morway, and P. V. Smith, Jr., to Esso Research and Engineering Co. Ester base lubricating greases. 2,782,166, 2-19-57, Cl. 252-42.1.
- Kolfenbach, John J., T. B. Wasserbach, and R. W. Walker, to Esso Research and Engineering Co. Elimination of carbon in jet combustors. 2,782,592, 2-26-57, Cl. 60-35.4.
- Kolisch, Emil, to Continental Electrolog Corp. Equipment for rating packages by various parameters including volume, weight, density and zone. 2,812,904, 11-12-57, Cl. 235-61.
- Kolk, Anthony J., Jr., and M. E. Sibert, to Horizons Titanium Corp. Process of producing alkali metal fluotitanates in which the titanium has a valence of at least two and not greater than three. 2,813,005, 11-12-57, Cl. 23-51.
- Kolka, Alfred J., G. G. Ecke, and R. D. Closson, to Ethyl Corp. Amine alkylation using aluminum anilide catalyst. 2,814,646, 11-26-57, Cl. 260-577.
- Kolkman, Dirk, to North American Philips Co., Inc. Discharge lamp. 2,794,141, 5-28-57, Cl. 313-201.
- Kolland, Emil: See—
Dietrich, Paul, Kolland, and Rupp, 2,791,176.
- Koller, Alice R. Garment sleeve construction. 2,791,777, 5-14-57, Cl. 2-125.
- Koller, Charles R., to E. I. du Pont de Nemours and Co. Process for forming films and filaments directly from polymer intermediates. 2,813,776, 11-19-57, Cl. 18-54.
- Koller, Ernst. Apparatus for fixing a structural element to a frame bar. 2,781,681, 2-19-57, Cl. 81-15.
- Koller, Frederick W., and H. G. Tomer; said Koller assor. to Bell Telephone Laboratories, Inc., and said Tomer assor. to The Thomas & Betts Co. Shield connectors. 2,798,113, 7-2-57, Cl. 174-75.
- Koller, Morris. Wind-resistant reversible umbrella. 2,788,792, 4-16-57, Cl. 135-20.
- Kolling, Helmut: See—
Noeske, Heinz, and Kolling, 2,805,243.
- Noeske, Heinz, and Kolling, 2,809,995.
- Tramm, Heinrich, Kolling, Schnur, Buchner, Heger, and Stiebling, 2,802,843.
- Kolling, Helmut, and F. Rappen, to Ruhrchemie Aktiengesellschaft. Flexible wax and method for producing same. 2,795,596, 6-11-57, Cl. 260-450.
- Kolling, Hendrich: See—
Mauss, Hans, Kolling, and Gönner, 2,786,845.
- Kolling, Johann, to The Babcock & Wilcox Co. Tubular fluid heater with built-in soot blower, and method effected thereby. 2,775,958, 1-1-57, Cl. 122-392.
- Kolling, Johann, to The Babcock & Wilcox Co. Feed water heater. 2,781,029, 2-12-57, Cl. 122-441.
- Kölling, Johann, to The Babcock & Wilcox Co. Multi-chambered furnace unit. 2,800,114, 7-23-57, Cl. 122-240.
- Kollman, Jack, to Kitchens of Sara Lee, Inc. Material feeding and distributing apparatus. 2,808,021, 10-1-57, Cl. 118-16.
- Kollman, Jack, and W. A. Beck, to Ekco Products Co. Bake pan covers. 2,779,497, 1-29-57, Cl. 220-23.2.
- Kollman, Oscar G. Drive shaft connection assembly for rotary power mower. 2,803,103, 8-20-57, Cl. 56-295.
- Kollmann, Karl A.: See—
Förster, Hans J. M., Kollmann, and Kümich, 2,806,387.
- Kollmann, Karl J.: See—
Bergles, Edward, 2,787,173.
- Kollmann, Karl J., and C. L. Lovercheck; said Lovercheck assor. to said Kollmann. Planetary transmission. 2,795,970, 6-18-57, Cl. 74-750.
- Kollmeyer, Fred H.: See—
Stovern, Ingram V., and Kollmeyer, 2,799,993.
- Kollmorgen, Ernst O., to Kollmorgen Optical Corp. Multiple revolution limit stop device. 2,780,941, 2-12-57, Cl. 74-10.2.
- Kollmorgen Optical Corp.: See—
Kollmorgen, Ernst O., 2,780,941.
- Kollöffel, Christiaan J.: See—
Gardeniers, Paulus P., Klaassen, and Kollöffel, 2,793,914.
- Kollman Instrument Corp.: See—
Eckweiler, Howard J., 2,782,675.
- Gondy, Paul R. 2,789,433.
- Rodemann, Emmett P. 2,784,331.
- Kollsman, Paul. Apparatus for transferring electrolytes from one solution into another. 2,799,644, 7-16-57, Cl. 204-301.
- Kollsman, Paul. Method of and apparatus for treating ionic fluids by dialysis. 2,815,320, 12-3-57, Cl. 204-180.
- Kolodney, Morris, to the United States of America as represented by the United States Atomic Energy Commission. Preparation of uranium. 2,777,809, 1-15-57, Cl. 204-1.5.
- Kolodny, Edwin R., to American Cyanamid Co. Hydrophobic blends comprising fortified rosin and wax. 2,797,167, Cl. 106-230.
- Kolodziej, John. Bicycle rack. 2,813,670, 11-19-57, Cl. 224-41.
- Kolpeke, Robert A., to Automatic Electric Laboratories, Inc. Sensing and detecting circuits in a telegraph switching system. 2,779,816, 1-29-56, Cl. 178-2.

- Kolt, William J., to Wonderly Construction Co. Well rig cover. 2,804,951, 9-3-57, Cl. 189-16.
- Kolterman, Delbert W.: *See*—
Belasco, Irvin J., Gribbins, Kolterman, and Vaughan. 2,802,807.
- Kolthoff, Aage T., and H. L. Taylor. Tailor's coat and overcoat drafting slide rule or device. 2,814,878, 12-3-57, Cl. 33-11.
- Komada, Joseph: *See*—
Babros, Joseph H., and Komada. 2,778,333.
- Komar, Charles, & Sons: *See*—
Komar, Frances K. 2,817,844.
- Komar, Frances K., to Charles Komar & Sons. Shoulder strap for slips and other garments. 2,817,844, 12-31-57, Cl. 2-73.
- Komarek, George C., to Thompson-Bremer & Co. Automatic nut tapping machine. 2,817,861, 12-31-57, Cl. 10-129.
- Komarek, Kurt: *See*—
Smetana, Otto, Nowotny, and Komarek. 2,786,753.
Smetana, Otto, Nowotny, Komarek. 2,815,281.
- Komas, John, to General Aniline & Film Corp. Turret type multi-pen recording mechanism. 2,778,710, 1-22-57, Cl. 346-139.
- Komenda, Erwin: *See*—
Porsche, Ferdinand A. E., and Komenda. 2,814,524.
- Kömm, Nikolaus, to Kugelfischer Georg Schäfer & Co. Method of manufacturing needle roller bearings. 2,792,619, 5-21-57, Cl. 29-148.4.
- Koome, Jacob, and G. M. Good, to Shell Development Co. Production of oils from waxes. 2,817,693, 12-24-57, Cl. 260-683.5.
- Kommers, William J., to the United States of America as represented by the Secretary of the Navy. Materials wear-tester. 2,808,719, 10-8-57, Cl. 73-7.
- Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Traveling wave tube amplifier. 2,804,511, 8-27-57, Cl. 179-171.
- Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,811,673, 10-29-57, Cl. 315-39.3.
- Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Electron beam system. 2,812,467, 11-5-57, Cl. 315-3.5.
- Komph, William L., Sr., to The Wellman Engineering Co. Pneumatically operated welder head construction. 2,818,492, 12-31-57, Cl. 219-89.
- Komroff, Paul, and C. L. Tucker, to Quiet-Heat Mfg. Corp. Condensate disposal. 2,793,510, 5-28-57, Cl. 62-140.
- Komuchar, Victor J., and D. D. Cerny, to International Harvester Co. Self-unloading vehicle. 2,783,901, 3-5-57, Cl. 214-83.2.
- Komuchar, Victor J., and D. D. Cerny, to International Harvester Co. Self unloading vehicle. 2,790,565, 4-30-57, Cl. 214-83.2.
- Konald, Alexander: *See*—
Silva, Anthony R., McGibon, and Donald. 2,786,316.
- Kondos, Louis. Refrigerated cabinet. 2,800,774, 7-30-57, Cl. 62-102.
- Konefes, Joseph H., to Amana Refrigeration, Inc. Trim strip and mounting therefor. 2,787,035, 4-2-57, Cl. 20-74.
- Konet, Henry, and L. W. L. Edmonds, to Bendix Aviation Corp. Servosystem stabilized platform. 2,790,119, 4-23-57, Cl. 318-19.
- Kongsgaarden, Ole A., to Elektrokemisk A/S. Suspension mechanism for continuous type electrodes and method of operation. 2,778,865, 1-22-57, Cl. 13-16.
- König, Fritz: *See*—
Dönges, Hans, and König. 2,799,330.
- König, Hans-Bodo, to Farbenfabriken Bayer Aktiengesellschaft. Heterocyclic quinones. 2,813,868, 11-19-57, Cl. 260-267.
- König, Josef, to Phrix-Werke Aktiengesellschaft. Methylene-1-bis-4,5-dihydroxytetrahydro-3-hydroxymethylimidazols. 2,777,857, 1-15-57, Cl. 260-309.7.
- König, Otto, to National Lead Co. Soldering flux. 2,803,572, 8-20-57, Cl. 148-23.
- Konigsberg, Sidney S.: *See*—
De Puy, Clarence E., and Konigsberg. 2,788,492.
- Koninklijke Machinefabriek Geba. Stork & Co. N. V.: *See*—
Van Wezel, Herman J. 2,779,473.
Van Wezel, Herman J. 2,779,474.
- Koninklijke Zwavelzuurfabrieken v/h Ketjen N. V.: *See*—
Abrahams, Johan P. 2,806,068.
- Konkel, John A., and J. Stark, Jr., to Radio Corp. of America. Regulated high voltage supplies. 2,785,336, 3-12-57, Cl. 315-15.
- Kon-Kure Co., The: *See*—
Warsack, George L. 2,794,212.
- Konopka, Anthony. Miniature horseshoe game. 2,793,861, 5-28-57, Cl. 273-100.
- Konrad, William A., to Esso Research and Engineering Co. Activation of petroleum acid sludge coke for preferential paraffin adsorption. 2,790,511, 4-30-57, Cl. 183-114.2.
- Konstandt, Francisco G. Non-pressure liquid fuel burner. 2,800,174, 7-23-57, Cl. 158-88.
- Konway, Robert. Power driven circular saw. 2,783,789, 3-5-57, Cl. 143-43.
- Konz, Wilhelm: *See*—
Karl, Zeile, Konz, and Sehring. 2,818,424.
- Kooi, Earl R.: *See*—
Gilkison, John S., and Kooi. 2,810,677.
- Kooi, Earl R., to Corn Products Refining Co. Process of producing dextran. 2,801,204, 7-30-57, Cl. 195-31.
- Kooi, Earl R., to Corn Products Refining Co. Process of producing dextran. 2,801,205, 7-30-57, Cl. 195-32.
- Kooijman, Pieter L.: *See*—
Kreps, Robert W. F., Tjepkema, and Kooijman. 2,796,429.
Niebling, Karl F. J., Kooijman, Rumscheidt, and Garner. 2,792,431.
- Kooiker, Paul I., and S. E. Rose, to General Electric Co. Air conditioning apparatus having condensate disposal. 2,797,560, 7-2-57, Cl. 62-140.
- Kooiman, Pieter L., to Kiso N. V. Building block and hollow wall formed therewith. 2,792,704, 5-21-57, Cl. 72-39.
- Kooistra, Lambert F.: *See*—
Romer, John B., Phillips, Kooistra, and Ely. 2,800,172.
- Kooistra, William J., Sr. Spherical weight actuated toy. 2,785,504, 3-19-57, Cl. 46-42.
- Kookootsedes, Gust J.: *See*—
Hyde, James F., and Kookootsedes. 2,779,776.
- Koons, Clarence J., and G. D. Archdeacon, to the United States of America as represented by the Secretary of the Air Force. Universal spreader bar. 2,801,127, 7-30-57, Cl. 294-81.
- Koons, Thomas W. Receptacle filling guide. 2,799,128, 7-16-57, Cl. 53-381.
- Koonts, Roy C.: *See*—
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- Koontz, Franklin N., and M. Weitz, to Westinghouse Electric Corp. Inductor apparatus. 2,806,117, 9-10-57, Cl. 219-10.79.
- Koontz, Pierce W. Drum truck. 2,816,674, 12-17-57, Cl. 214-384.
- Koonz, John C., to Eastman Kodak Co. Adjusting D. C. resistance of light-sensitive cells. 2,808,518, 10-1-57, Cl. 250-233.
- Koop, Lambert, to Messrs. Fischer & Krecke, (Maschinenfabrik). Device for applying a strengthening patch to a square-bottom-bag. 2,777,368, 1-15-57, Cl. 93-8.
- Koopal, Sieds: *See*—
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- Koopal, Sieds, P. L. Smit, and W. van Loon, to Stamicarbon N. V. Process for producing ferrosilicon. 2,776,885, 1-8-57, Cl. 75-133.5.
- Kooperativa Forbundet Ekonomisk Forening: *See*—
Dahlberg, Thord. 2,796,110.
Gustafsson, Nils. 2,788,644.
- Koopmans, Adriaan: *See*—
Schalkwijk, Willem F., deLange, and Koopmans. 2,775,876.
- Koot, Nicholas L. H.: *See*—
Montgomery, Richard F., and Koot. 2,776,564.
- Kootz, Theodor, and H. Reller Meyer, to August Thyssen-Hütte Aktiengesellschaft, and Dortmund-Hörder Huttenunion Aktiengesellschaft. Method for refining pig iron. 2,817,584, 12-24-57, Cl. 75-60.
- Kopa, Walter. Gear transmissions. 2,780,110, 2-5-57, Cl. 74-351.
- Kopczynski, John F. Attachment for windshields. 2,780,825, 2-12-57, Cl. 15-255.
- Kopczynski, John F. Traction drive for vehicles having non-circular wheels. 2,790,503, 4-30-57, Cl. 180-7.
- Kopczynski, John F. Machine tools. 2,801,859, 8-6-57, Cl. 279-97.
- Kopczynski, John F. Ultra high speed bearings. 2,814,206, 11-26-57, Cl. 74-209.
- Kope, Rowland J.: *See*—
Henning, Robert W., and Kope. 2,790,173.
- Kopee, Stanley J. Broach assembly. Re. 2,4284, 3-5-57, Cl. 90-33.
- Kopee, Stanley J. Gear checking machine. 2,800,721, 7-30-57, Cl. 33-179.5.
- Kopf, Rowland J.: *See*—
Henning, Robert W., Ivins, Kope, and Pfaff. 2,806,218.
- Kopf, Rowland J., to Olin Mathieson Chemical Corp. Cartridge extractors. 2,807,902, 10-1-57, Cl. 42-25.
- Kopf, Rowland J., and R. Marsh, to Ramset Fasteners, Inc. Cartridge extractors. 2,799,108, 7-16-57, Cl. 42-25.
- Kopke, Ernst W. Cane crushing mill. 2,797,635, 7-2-57, Cl. 100-165.
- Köpke, Günter, and W. Fuchs, to Gutehoffnungshütte Oberhausen Aktiengesellschaft. Method and apparatus for treatment of iron materials in a liquid state. 2,797,994, 7-2-57, Cl. 75-130.
- Koplin, Harry. Extractor. 2,817,228, 12-24-57, Cl. 68-242.
- Kopmar, Samuel. Removable table attachment for beach umbrellas. 2,805,109, 9-3-57, Cl. 311-17.
- Kopp, Carl J.: *See*—
Nelson, Martin L., Kopp, and Hjermstad. 2,776,570.
- Kopp, Heinrich A. K.: *See*—
Ley, Hellmut, Keller, Kopp, Rausch, and Fleischhauer. 2,813,813.
- Kopp, Herman. Quick re-ring piston. 2,783,105, 2-26-57, Cl. 309-15.
- Kopp, John, to Simonds Saw & Steel Co. Inserted tooth saw and bits and shanks therefor. 2,787,300, 4-2-57, Cl. 143-151.
- Kopp, Louis B.: *See*—
Hall, Mitchell A., and Kopp. 2,808,966.
- Kopp, Robert L. Caps for gasoline or similar tanks for automobiles, trucks, or the like. 2,797,841, 7-2-57, Cl. 220-40.
- Koppe, Hugo: *See*—
Bouwman, Haye, and Koppe. 2,805,281.
- Koppel, Harold H., to Bailey Meter Co. Self-balancing potentiometer system. 2,806,193, 9-10-57, Cl. 318-29.

- Koppelman, Floris, to Licentia Patent-Verwaltungs-G. m. b. H. Adjustable contact converter. 2,782,359, 2-19-57, Cl. 321-48.
- Koppelman, Floris. Mechanical rectifier. 2,806,196, 9-10-57, Cl. 321-48.
- Koppenwallner, Georg, and A. Gantert, to Fortuna-Werke Spezialmaschinenfabrik A.-G. Speed control means for grinding machines or the like. 2,779,905, 1-29-57, Cl. 318-149.
- Koppers Co., Inc.: See—
- Becker, Joseph. 2,801,913.
- Becker, Joseph. 2,812,248.
- Boodman, Norman S., and Fryling. 2,805,258.
- Brahmsiepe, Heinz. 2,794,561.
- Christensen, John C., and Fair. 2,787,557.
- D'Alelio, Gaetano F. 2,794,785.
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- D'Alelio, Gaetano F. 2,811,507.
- Daniels, Joseph. 2,788,133.
- Dobratz, Elmer H. 2,816,123.
- Dol, Franz. 2,780,590.
- Doll, Franz. 2,798,752.
- Engelke, Karl. 2,788,263.
- Fair, William F. 2,805,954.
- Gödde, Franz. 2,775,892.
- Hasche, Rudolph L. Re. 24,326.
- Henseleit, Georg. 2,780,366.
- Henseleit, Georg. 2,807,372.
- Homan, Paul J. 2,791,552.
- Homan, Paul J. 2,797,820.
- Homan, Paul J. 2,800,435.
- Irvine, Robert L. 2,787,335.
- Josenhans, Max. 2,805,188.
- Junkers, Gerd. 2,808,321.
- Klockman, Otto E. 2,786,082.
- Koppers, Hans H., and Doll. 2,802,778.
- Krone, Heinz. 2,797,114.
- Odioso, Raymond C. 2,810,771.
- Portney, Phillip, and Vancura. 2,779,609.
- Schmalenbach, Adolf. 2,785,114.
- Schmalenbach, Adolf. 2,809,717.
- Schmalenbach, Adolf, Pummer, and Daniels. 2,808,317.
- Schürhoff, Heinrich, and Doll. 2,789,086.
- Totzek, Friedrich. 2,777,813.
- Tucker, Linwood G., Jr. 2,812,292.
- Turner, John. 2,788,860.
- Van Ackeren, Joseph. 2,776,021.
- Van Ackeren, Joseph. 2,799,632.
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- Van Ackeren, Paul. 2,786,106.
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- Van Ackeren, Paul, and Doll. 2,796,995.
- Wassermann, Heinrich, and Van Ackeren. 2,793,176.
- Wessolek, Rudolf. 2,776,195.
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- Koppers, Hans H., and F. Doll, to Koppers Co., Inc. Dry quenching station arrangement for coke. 2,802,778, 8-13-57, Cl. 202-228.
- Koppl, Leo T. Removable valve. 2,786,644, 3-26-57, Cl. 251-187.
- Koppware Products Mfg. Co.: See—
- Fox, Sol. 2,806,325.
- Koprow, Longine, and W. R. Saks, to United Merchants and Manufacturers, Inc. Method of making flocked fabric and flocked vinyl film. 2,784,630, 3-12-57, Cl. 18-57.
- Korabowski, Adam S., to The Standard Electric Time Co. Alarm station. 2,789,188, 4-16-57, Cl. 200-168.
- Korb, George E.: See—
- Gelb, Amiel, and Korb. 2,805,155.
- Korb, Harry S. Levelling device. 2,815,997, 12-10-57, Cl. 311-4.
- Korbach, Paul F.: See—
- Corneil, Hampton G., Gwin, and Korbach. 2,793,168.
- Korbelak, Alexander, and C. M. Rively, to Westinghouse Electric Corp. Electrolytic wire reducing apparatus and method. 2,784,154, 3-5-57, Cl. 204-141.
- Korber, Kurt, & Co., K. G.: See—
- Creuzburg, Richard. 2,786,472.
- Creuzburg, Richard. 2,796,066.
- Koch, Hans, and Burchard. 2,812,217.
- Koch, Hans, and Forster. 2,800,726.
- Pollmann, Max. 2,779,339.
- Pollmann, Max. 2,808,060.
- Pollmann, Max, and Schmid. 2,809,768.
- Schlossmacher, Hubert. 2,805,666.
- Stelzer, Carl. 2,781,886.
- Stelzer, Carl. 2,808,059.
- Korbitz, Norman D., to Sylvania Electric Products Inc. Tinning depth control. 2,814,268, 11-26-57, Cl. 118-7.
- Korczynsky, Michael, to Union Carbide and Carbon Corp. Low alloy steel for sub-zero temperature application. 2,797,162, 6-25-57, Cl. 75-124.
- Kordes, Heinrich, to Klockner-Georgsmarienwerke A. G. Light weight wheel for track vehicles. 2,809,071, 10-8-57, Cl. 295-16.
- Kordes, Karl, and F. Kornfeil, to the United States of America as represented by the Secretary of the Army. Electrolytic interrupter. 2,802,157, 8-6-57, Cl. 317-232.
- Kordig, James W., G. Fato, and W. A. Raczynski, to Ditto, Inc. Transfer sheet having waxy top protective coating. 2,777,781, 1-15-57, Cl. 117-36.
- Koree, Jean U., to The Raymar Co. Smoking product. 2,809,904, 10-15-57, Cl. 131-2.
- Koregelos, George, and M. G. Rafton. Can strip remover. 2,800,246, 7-23-57, Cl. 220-52.
- Korinek, Stephen J., to J. G. E. Hogg. Engine lathe tail stock ram drive. 2,776,590, 1-8-57, Cl. 82-31.
- Kork-N-Seal Ltd.: See—
- Blanch, Eric A. 2,806,620.
- Korkowski, Eberhard and G. Schmidt, to Robert Bosch G. m. b. H. High pressure gear pump. 2,816,511, 12-17-57, Cl. 103-126.
- Korman, Jerome, to The Upjohn Co. Heterocyclics. 2,813,859, 11-19-57, Cl. 260-239.5.
- Korman, Jerome, and J. A. Hogg, to The Upjohn Co. Organic compounds. 2,793,208, 6-21-57, Cl. 260-239.55.
- Korman, Nathaniel I., and W. P. Bollinger, to Radio Corp. of America. Radar moving target indication method and system. 2,797,410, 6-25-57, Cl. 343-7.7.
- Korn, Hugo: See—
- Doremus, John A., Crow, and Korn. 2,811,590.
- Korn, Meyer. Bag closure. 2,810,510, 10-22-57, Cl. 229-62.
- Kornblum, Nathan: See—
- Blackwood, Robert K., and Kornblum. 2,791,604.
- Kornblum, Nathan, and J. W. Powers, to Purdue Research Foundation. Production of α -nitroesters. 2,816,909, 12-17-57, Cl. 260-478.
- Kornei, Otto, to Clevite Corp. Magnetic transducer head and method of making same. 2,813,932, 11-19-57, Cl. 179-100.2.
- Korner, Erich: See—
- Lenneis, Franz, and Korner. 2,812,202.
- Kornfeil, Friedrich: See—
- Kordes, Karl, and Kornfeil. 2,802,157.
- Kornfeld, Edmund C., to Eli Lilly and Co. Substituted polyhydrobenz [ed] indoles and process for their preparation. 2,792,405, 5-14-57, Cl. 260-319.
- Kornfeld, Edmund C., G. B. Kline, and E. J. Fornefeld, to Eli Lilly and Co. Lysergic acid, intermediates and preparation. 2,796,419, 6-18-57, Cl. 260-285.5.
- Kornfeld, Edmund C., G. B. Kline, and D. E. Morrison, to Eli Lilly and Co. Substituted-benz[CD] indoles and the preparation thereof. 2,809,974, 10-15-57, Cl. 260-326.3.
- Korngold, Leon, and W. Bachman, to General Bag & Burlap Co. Self-leveling platform truck. 2,806,607, 9-17-57, Cl. 211-49.
- Koros, Leslie L.: See—
- Gluyas, Thomas M., Jr., Koros, and Clark. 2,790,857.
- Korosh, Charles. Pedal-operated maracas. 2,785,596, 3-19-57, Cl. 84-422.
- Korrry, Boris V. Electrical switches. 2,776,348, 1-1-57, Cl. 200-76.
- Korsgaard, Viggo I.: See—
- Beck, Gasper P., Johnson, and Korsgaard. 2,816,312.
- Beck, Gasper P., Johnson, Korsgaard, and Nydegger. 2,816,311.
- Beck, Gasper P., Johnson, Korsgaard, and Nydegger. 2,816,313.
- Korsgren, Theodore Y.: See—
- Jordan, Richard H., and Korsgren. 2,777,910.
- Korsmo, Torbjorn C., to Madison-Kipp Corp. Toggle. Re. 24,343, 8-6-57, Cl. 74-110.
- Korsmo, Torbjorn C., to Madison-Kipp Corp. Control valve with three-position linkage. 2,800,798, 7-30-57, Cl. 74-102.
- Kort, Paul G., to Burgess Battery Co. Primary alkaline cell. 2,816,153, 12-10-57, Cl. 136-107.
- Korte, Alfred C.: See—
- White, Jack M., and Korte. 2,813,522.
- Korte, Alfred C., to A C F Industries, Inc. Electric fuel pump mounting. 2,807,395, 9-24-57, Cl. 222-333.
- Korte, Alfred C., A. N. Swargulski, C. W. Jeep, Jr., and P. R. Larson, to A C F Industries, Inc. Electric fuel pump. 2,803,384, 8-20-57, Cl. 222-333.
- Korte, Edward. Fishing lures. 2,793,461, 5-28-57, Cl. 43-42.28.
- Korthals Altes, Willem C., to "Mijnssen & Co. N. V." Single-phase alternating current fed driving arrangement for electric traction purposes. 2,796,573, 6-18-57, Cl. 318-348.
- Koryn, John J.: See—
- Whiteman, Donald J., and Koryn. 2,783,484.
- Koryta, Leonard D., to R. C. Weiss. Method of molding rubber and mold for same. 2,801,150, 7-30-57, Cl. 18-47.
- Korzun, John N.: See—
- Bartels, Charles R., Kleiman, Irish, and Korzun. 2,786,831.
- Kos, Michael O.: See—
- Hein, Charles E., and Kos. 2,809,535.
- Kos, Michael O., to Mall Tool Co. Saw chain oil pump. 2,809,718, 10-15-57, Cl. 184-27.
- Kosa, Victor. Fluid condensing lens for picture windows. 2,794,368, 6-4-57, Cl. 83-57.
- Kosatka, Thomas O., to Victor Mfg. & Gasket Co. Fluid seal. 2,806,725, 9-17-57, Cl. 288-3.

- Kosche, Rudolf L. H., to Daimler-Benz Aktiengesellschaft. Method of running in friction brakes. 2,797,472, 7-2-57, Cl. 29-404.
- Koskela, Elmer V. Combination film strip and slide projector. 2,793,563, 5-28-57, Cl. 88-28.
- Koski, George L. Pile cutting guide for chain saws. 2,779,359, 1-29-57, Cl. 143-32.
- Koslov, Joseph, to Vitro Corp. of America. Decomposition of manganese nitrate solutions. 2,779,659, 1-29-57, Cl. 23-145.
- Kosmider, Johannes, and H. Neuhaus. Process for manufacturing a high grade steel. 2,793,110, 5-21-57, Cl. 75-60.
- Kosmider, Johannes, and P. E. Hardt, to Kloeckner-Huettenwerk Haspe Aktiengesellschaft. Method of blowing steel melt with oxygen containing gas. 2,803,535, 8-20-57, Cl. 75-60.
- Kosmin, Milton, to Monsanto Chemical Co. Herbicidal esters of 2-sulfoethanol and a chloroalkanoic acid. 2,785,968, 3-19-57, Cl. 71-2-7.
- Kosmin, Milton, to Monsanto Chemical Co. Method of controlling nematodes employing a phosphonium halide. 2,818,368, 12-31-57, Cl. 167-30.
- Kosmin, Milton, to Monsanto Chemical Co. Sodium salt of tridecyl β -sulfopropionate. 2,818,426, 12-31-57, Cl. 260-481.
- Kossel, Dierick. Light rays dividing system. 2,809,555, 10-15-57, Cl. 88-39.
- Kossman, Paul: *See*—
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- Kost, Alwin, G. Quilici, and R. E. Boyd, to Kost Multiple X, Inc. Motor vehicle wheel mounting and driving means. 2,817,407, 12-24-57, Cl. 180-48.
- Kost Multiple X, Inc.: *See*—
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- Koster, Frank, to Vogel Tool & Die Corp. Method and apparatus for cutting tubing. 2,776,003, 1-1-57, Cl. 164-17.
- Koster, Robert: *See*—
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- Kostriza, John A., to International Telephone and Telegraph Corp. Microwave coupling arrangements. 2,790,148, 4-23-57, Cl. 333-11.
- Kostriza, John A., and P. Terranova, to International Telephone and Telegraph Corp. Microwave transmission lines. 2,797,390, 6-25-57, Cl. 333-9.
- Kotas, Donald E., to Minneapolis-Honeywell Regulator Co. Electrical fluid flow measuring apparatus. 2,811,855, 11-5-57, Cl. 73-228.
- Kotoucek, Waldemar R.: *See*—
Portgang, Herbert R., and Kotoucek. 2,815,084.
- Kottemann, Otto A., to Kushion Kooler Corp. Ventilating grid structure. 2,807,809, 10-1-57, Cl. 5-347.
- Kottler, August: *See*—
Ohnacker, Gerhard, and Kottler. 2,812,327.
- Kottler, August, and H. Scheffler, to Dr. Karl Thomae G. m. b. H. Tertiary N-(β -y-dioxypropyl)-amines and methods of making the same. 2,784,233, 3-5-57, Cl. 260-584.
- Kough, Harry V., to Coast Metals, Inc. Multi-tip torch for applying hard facing material. 2,787,497, 4-2-57, Cl. 299-28.6.
- Kough, Harry V., to Coast Metals, Inc. Method and apparatus for hard surfacing metals. 2,800,419, 7-23-57, Cl. 117-46.
- Kouke, Louis L. Rack insert for golf bags. 2,781,072, 2-12-57, Cl. 150-1.5.
- Koury, Frederic, to Sylvania Electric Products Inc. Method of forming P-N junctions in semiconductor material and apparatus therefor. 2,809,135, 10-8-57, Cl. 148-1.5.
- Koutnik, Ambrose J.: *See*—
Anthes, Jacob, and Koutnik. 2,795,755.
- Kovac, James J., to The Goodyear Tire & Rubber Co. Spring loaded grip. 2,808,903, 10-8-57, Cl. 188-67.
- Kovach, Andrew: *See*—
Lemmers, Eugene, and Kovach. 2,805,354.
- Kovach, Julius W., to Detroit Controls Corp. Thermostat. 2,799,750, 7-16-57, Cl. 200-140.
- Kovach, Leslie. Speed controlling device for automobiles. 2,777,913, 1-15-57, Cl. 200-80.
- Kovacic, Peter, to E. I. du Pont de Nemours & Co. Elastomeric reaction products of bis-maleimides with organic diamines. 2,818,405, 12-31-57, Cl. 260-78.
- Kovacs, Julius P., to Purolator Products, Inc. Filter and fluid treating element. 2,796,989, 6-25-57, Cl. 210-282.
- Kovacs, Julius P., and A. A. Leebardt, to Purolator Products, Inc. Disc type filter. 2,816,663, 12-17-57, Cl. 210-347.
- Kovacs, Louis. Process for recovering rolling oil. 2,806,868, 9-17-57, Cl. 260-412.5.
- Kovacs, Louis. Process for treating rolling oil. 2,807,531, 9-24-57, Cl. 75-0.5.
- Kovalsky, Joseph F.: *See*—
Roman, Walter G., Slamar, and Kovalsky. 2,785,367.
- Kovarik, Jerry F. Railroad trackage. 2,815,917, 12-10-57, Cl. 238-6.
- Kovasznavy, Leslie S. G. Cathode-ray-tube sweeps. 2,817,787, 12-24-57, Cl. 315-24.
- Kovel, Ralph M. Tea package. 2,805,162, 9-3-57, Cl. 99-77.1.
- Kowal, Leonard J., and R. F. Davis, to The Imperial Brass Mfg. Co. Tube bender. 2,796,784, 6-25-57, Cl. 81-15.
- Kowal, Michael. Method and apparatus for handling containers. 2,815,874, 12-10-57, Cl. 214-44.
- Kowalczyk, Joseph W.: *See*—
Brown, Carlyle A., and Kowalczyk. 2,802,969.
- Kowalczyk, Joseph W., to General Electric Co. Reactor for measuring direct currents. 2,800,630, 7-23-57, Cl. 324-127.
- Kowalski, Alexander: *See*—
Barth-Wehrenalp, Gerhard, and Kowalski. 2,797,980.
- Kowalski, Walter: *See*—
Anspach, Eugene J., and Kowalski. 2,806,724.
- Kowalski, Walter, to McGraw Electric Co. Equalized multiple high pressure contact. 2,779,844, 1-29-57, Cl. 200-170.
- Kowalski, Joseph. Fluid tank valve. 2,789,579, 4-23-57, Cl. 137-605.
- Kozacka, Arthur G.: *See*—
Gabriel, Adam F., and Kozacka. 2,782,044.
- Kozacka, Frederick J.: *See*—
Swain, Kenneth W., Kozacka, and Jacobs. 2,800,556.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Power fuses with tubular links and pressure-type link connections. 2,777,033, 1-8-57, Cl. 200-120.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Striker pin structures. 2,794,095, 5-28-57, Cl. 200-117.
- Kozacka, Frederick J., to The Chase-Shawmut Co. High interrupting capacity current-limiting fuses with striker pins. 2,794,096, 5-28-57, Cl. 200-117.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Fuse contact structures. 2,794,883, 6-4-57, Cl. 200-131.
- Kozak, John P.: *See*—
Jankauskas, George P. 2,807,338.
- Kozak, Paul A.: *See*—
Jankauskas, George P. 2,807,338.
- Kozar, John J. Line holder for pole with spinning reel attached thereto. 2,804,711, 9-3-57, Cl. 43-25.
- Kozel, Michael D. Vehicle speed indicator. 2,814,796, 11-26-57, Cl. 340-263.
- Kozeny, Oral A.: *See*—
Harclerode, Edwin H., Eriksen, and Kozeny. 2,818,458.
- Kozikowski, Felix, to Eagle Signal Corp. Delayed circuit closer. 2,792,468, 5-14-57, Cl. 200-92.
- Kozinski, Joseph, to H. G. Fischer & Co. Power supply. 2,782,358, 2-19-57, Cl. 321-16.
- Kozlovic, John M., to Westinghouse Electric Corp. Levering mechanism for metal-clad switchgear. 2,792,462, 5-14-57, Cl. 200-50.
- Kozlowski, Edward A. Hinge butt mortising tool. 2,794,461, 6-4-57, Cl. 144-27.
- Krabbe, Ulrik H., and H. M. Sørensen, to T. B. Thridge. Apparatus for regulating the number of revolutions of electric motors by means of Ward-Leonard Control. 2,777,978, 1-15-57, Cl. 318-154.
- Krabbendam, Gerard. Height adjustable connection of a rail to a tie. 2,787,421, 4-2-57, Cl. 238-281.
- Kracht, Otto, and H. Schumacher, to Kracht Pumpen- und Motorenfabrik G. m. b. H. Automatic air volume control in pressure tanks, particularly in high pressure oil tanks. 2,793,650, 5-28-57, Cl. 137-209.
- Kracht Pumpen- und Motorenfabrik G. m. b. H.: *See*—
Kracht, Otto, and Schumacher. 2,793,650.
- Kradoska, Edward C. Bead forming and re-rolling machine. 2,811,192, 10-29-57, Cl. 153-59.
- Kraemer, Elmore A., and A. J. Schmitt, to West Bend Aluminum Co. Flame guard for plastic handle. 2,787,805, 4-9-57, Cl. 16-116.
- Kraft, Harry C., Jr.: *See*—
Spicer, George W., and Kraft. 2,803,787.
- Kraft, Arthur A.: *See*—
Hahn, Norman F., and Kraft. 2,804,267.
- Kraft, August L.: *See*—
Amerio, Pasquale, and Kraft. 2,812,050.
- Kraft, El Roy J., to The Dole Valve Co. Thermo-magnetic refrigerant valve. 2,781,979, 2-19-57, Cl. 236-48.
- Kraft, Elroy J., to The Dole Valve Co. Condenser valve. 2,788,639, 4-16-57, Cl. 62-3.
- Kraft, El Roy J., to The Dole Valve Co. Dispenser. 2,807,941, 10-1-57, Cl. 62-4.
- Kraft, El Roy J., to The Dole Valve Co. Hygroscopic steam valve. 2,809,654, 10-15-57, Cl. 137-197.
- Kraft, Herman T., to The General Tire and Rubber Co. Tire sipping machine. 2,794,503, 6-4-57, Cl. 164-10.2.
- Kraft Foods Co.: *See*—
Fagen, Harold J. 2,778,738.
- Fisher, Guy N. 2,777,770.
- Kraft, George H., Grossen, and Bell. 2,790,287.
- Nohner, Fabian P. 2,784,589.
- Rudnik, Raymond G., Miller, and Borgardt. 2,781,272.
- Traisman, Edwin, and Fleming. 2,781,267.
- Kraft, George H., H. W. Grossen, and K. Bell, to Kraft Foods Co. Packaging machine. 2,790,287, 4-30-57, Cl. 53-157.
- Kraft, Heinrich: *See*—
Pohl, Walter, and Kraft. 2,790,011.
- Kraft, Marion S.: *See*—
Coes, Loring, Jr., and Kraft. 2,810,995.
- Kraftanlagen A. G.: *See*—
Günther, Hans. 2,783,359.
- Krag, Frederic S., to The Coe Mfg. Co. Apparatus for the manufacture of hardboard. 2,775,787, 1-1-57, Cl. 18-4.
- Krag, Niels, to International Telemeter Corp. Sheet-separating apparatus. 2,809,032, 10-8-57, Cl. 271-1.
- Krahl, Gottfried, and H. Böhm, to Licentia Patent-Verwaltungs- G. m. b. H. Electric current pulsing apparatus. 2,798,123, 7-2-57, Cl. 200-32.

- Krahler, Stanley E.: *See*—
Wirth, Walter V., and Krahler. 2,786,864.
- Krahnke, Delbert C., Lead screw tapping head. 2,799,872, 7-23-57, Cl. 10—139.
- Krahulec, Fred, to A. C. Nielsen Co. Rotary multiple contact switch. 2,784,266, 3-5-57, Cl. 200—6.
- Krahulec, Fred, to Oak Mfg. Co. Television tuner drive mechanism. 2,785,574, 3-19-57, Cl. 74—10.7.
- Krahulec, Fred, to A. C. Nielsen Co. Apparatus for indicating at a remote point the tuning conditions of wave signal receivers. 2,788,392, 4-9-57, Cl. 179—2.
- Krahulec, Fred, to A. C. Nielsen Co. Mechanical time marker. 2,801,896, 8-6-57, Cl. 346—20.
- Kraissl, Frederick, Jr. Strainers. 2,792,118, 5-14-57, Cl. 210—238.
- Krakauer, Edwin G., to Kay Mfg. Corp. Reclining chair. 2,782,836, 2-26-57, Cl. 155—105.
- Krakora, James J., Jr., to Motorola Inc. Pilot light switch. 2,782,406, 2-19-57, Cl. 340—258.
- Krakora, John. Contour lounge of the chaise longue type. 2,788,057, 4-9-57, Cl. 155—105.
- Krahl, Friedrich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Apparatus for fusion of metals. 2,796,452, 6-18-57, Cl. 13—35.
- Kralowetz, Bruno, to A. Saxer. Machine for high-speed forging axial-symmetrical workpieces. 2,793,548, 5-28-57, Cl. 78—20.
- Kramcsak, Michael, Jr., to The Bassick Co. Industrial truck caster. 2,785,433, 3-19-57, Cl. 16—44.
- Kramcsak, Michael, Jr., to The Bassick Co. Store service carrier with trailing caster. 2,799,514, 7-16-57, Cl. 280—29.
- Kramer, Carrie L.: *See*—
Kramer, William O. 2,807,894.
Kramer, William O. 2,812,597.
- Kramer, Irvin R., to Mercast Corp. Method of joining shell molds. 2,797,457, 7-2-57, Cl. 22—193.
- Kramer, Israel: *See*—
Malkoff, Hyman, and Kramer. 2,791,107.
- Kramer, Joseph, to The Gardner Board and Carton Co. Hinged lid box. 2,789,750, 4-23-57, Cl. 229—36.
- Kramer, Joseph, and J. J. Parks, II, to The Gardner Board and Carton Co. Collapsible box and handle therefor. 2,791,368, 5-7-57, Cl. 229—52.
- Kramer, Karl A., to Staley Elevator Co., Inc. Control device for use in elevator shaft. 2,805,735, 9-10-57, Cl. 187—29.
- Kramer, Lawrence I., to R. R. Donnelly & Sons Co. Signature defecting mechanism for a signature bundling machine. 2,815,950, 12-10-57, Cl. 271—87.
- Kramer, Matthew J. Drinking receptacle. 2,815,161, 12-3-57, Cl. 229—1.5.
- Kramer, Otto L., and D. J. Ziman. Binder for textile swatch. 2,786,281, 3-26-57, Cl. 35—55.
- Kramer, Robert. Collapsible or portable lawn or beach umbrella. 2,777,454, 1-15-57, Cl. 135—5.
- Kramer Trenton Co.: *See*—
Malkoff, Hyman. 2,802,425.
Malkoff, Hyman, and Kramer. 2,791,107.
- Kramer, Vance M. Flexible reducer boot. 2,789,841, 4-23-57, Cl. 285—177.
- Kramer, Vernon J. Dual throttle and choke control attachment. 2,783,984, 3-5-57, Cl. 261—64.
- Kramer, William M. Fogging device. 2,804,342, 8-27-57, Cl. 299—121.
- Kramer, William O., deceased; C. L. Kramer, administratrix. Pressing machine. 2,807,894, 10-1-57, Cl. 38—10.
- Kramer, William O., deceased; C. L. Kramer, administratrix of said W. O. Kramer. Pressing and ironing machine and method. 2,812,597, 11-12-57, Cl. 38—8.
- Kramm, Edward F. Scope sight lens protectors. 2,782,510, 2-26-57, Cl. 33—50.
- Krantz, Frank M.: *See*—
Huelskamp, Richard F., and Krantz. 2,788,424.
- Krantz, Karl G. E., L. E. Bergman, C. Elvingson, and O. G. Karlsson, ½ to Arencio Aktiebolag, and ½ to Aktiebolaget Svenska Flaktfabriken. Method and apparatus for separating leaf tobacco. 2,815,860, 12-10-57, Cl. 209—466.
- Krantz, Karl W., to General Electric Co. Process for making moisture-unstable methyl methoxypolysiloxane. 2,810,704, 10-22-57, Cl. 260—33.6.
- Kranz, William J., to Viko Furniture Corp. Collapsible leg structure for attachment to a table top and the like. 2,779,648, 1-29-57, Cl. 311—35.
- Krapcho, John: *See*—
Lott, William A., and Krapcho. 2,797,233.
Lott, William A., and Krapcho. 2,813,904.
- Krapcho, John, to Olin Mathieson Chemical Corp. Pyridyl derivatives. 2,794,807, 6-4-57, Cl. 260—297.
- Krapels, Johannes G., to Stamicarbon N. V. Plow-type cutter conveyor combination having slack coal clearing means. 2,786,662, 3-26-57, Cl. 262—8.
- Krapels, Johannes G., to Stamicarbon N. V. Mining machine of the planer type having vertically spaced, pivoted cutting members. 2,808,252, 10-1-57, Cl. 262—8.
- Krasberg, Rudolph G. Hose clamp. 2,787,039, 4-2-57, Cl. 24—279.
- Krase, Herbert J., and W. T. Dye, Jr., to Monsanto Chemical Co. Adducts of hexamethylphosphorous triamide and polyhalo compounds. 2,786,075, 3-19-57, Cl. 260—551.
- Krasl, George J., to Laboratory Equipment Corp. Combustion analyzer. 2,809,100, 10-8-57, Cl. 23—253.
- Krasl, George J., and G. P. McFaul, to Laboratory Equipment Corp. Automatic titration apparatus. 2,812,242, 11-5-57, Cl. 23—253.
- Krasno, Louis R. Electrocardiograph electrode with absorbent contact surface. 2,782,786, 2-26-57, Cl. 128—417.
- Krasnosky, George. Article display counter. 2,806,604, 9-17-57, Cl. 211—1.6.
- Krasnow, Leonard L., to Lodging Engineering Corp. Hinged work clamp. 2,815,052, 12-3-57, Cl. 144—290.
- Kratoville, Frank M., to James R. Kearney Corp. Load break attachments for electrical cutouts. 2,787,683, 4-2-57, Cl. 200—116.
- Kratz, Clarence E. Spinning fish lure. 2,804,714, 9-3-57, Cl. 43—42.17.
- Kratz, Jerrold K., and W. H. Barkow, to Radio Corp. of America. Deflection yokes. 2,799,798, 7-16-57, Cl. 315—27.
- Krael, Aloys: *See*—
Schnur, Friedrich, Krael, and Schaub. 2,797,151.
- Kraujalis, Felix S., to Hannifin Corp. Hydraulic punching apparatus. 2,776,540, 1-8-57, Cl. 60—97.
- Kraus, Carl B. Double disk brake. 2,808,129, 10-1-57, Cl. 188—72.
- Kraus, Charles E., to Excelermatic, Inc. Speed changer. 2,784,604, 3-12-57, Cl. 74—199.
- Kraus, Edward W., and J. B. Farr, to Lock Joint Pipe Co. Apparatus for forming a hollow body of concrete or the like. 2,795,026, 6-11-57, Cl. 25—30.
- Kraus, Harold. Collapsible book rest. 2,787,086, 4-2-57, Cl. 45—57.
- Kraus, Harold. Collapsible book support or rest. 2,802,295, 8-13-57, Cl. 45—57.
- Kraus, Johann, ½ to L. Czermak. Siphon pump. 2,783,715, 3-5-57, Cl. 103—188.
- Kraus, Karl J.: *See*—
Lyon, John K. 2,812,954.
- Kraus, Ludwig: *See*—
Uhlenhaut, Rudolf E., and Kraus. 2,811,214.
- Kraus, Ludwig, to Daimler-Benz Aktiengesellschaft. High speed motor vehicle. 2,816,615, 12-17-57, Cl. 180—1.
- Kraus, Philip B., to E. I. du Pont de Nemours and Co. Heat exchange process. 2,789,886, 4-23-57, Cl. 23—202.
- Kraus, Samuel B. Pocket supplement holder and attachment therefor. 2,781,204, 2-12-57, Cl. 281—17.
- Kraus, Wilhelm: *See*—
Gams, Alphonse, Kraus, Preiswerk, Widmer, and Wieland. 2,786,794.
- Krause, Björn O. Microscope slide holder. 2,781,692, 2-19-57, Cl. 88—40.
- Krause, Gerhard P., to Baldwin-Lima-Hamilton Corp. Extrusion press. 2,778,495, 1-22-57, Cl. 207—9.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Automobile hood latch. 2,776,160, 1-1-57, Cl. 292—304.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Hood latch. 2,789,848, 4-23-57, Cl. 292—3.
- Krause, Norman R., to J. I. Case Co. Windrow turning apparatus. Re. 24,294, 3-26-57, Cl. 56—372.
- Krause, Norman R. Self-cleaning screens or filters. 2,783,856, 3-5-57, Cl. 183—53.
- Krause, Richard S.: *See*—
Sherman, William S., and Krause. 2,794,282.
- Krause, Walter J.: *See*—
Herron, Rolfe M., and Krause. 2,810,288.
- Krauss, Hermann W. Vents for sand blowing in core boxes and cast iron moulds. 2,789,326, 4-23-57, Cl. 22—13.
- Krauss-Maffei Aktiengesellschaft: *See*—
Emele, Günther W. 2,780,502.
Teichmann, Hermann. 2,810,159.
Van der Molen, Evert. 2,806,603.
- Krauss, Serge L., to C. G. Conn Ltd. Electronic oscillator for producing frequencies of musical tones. 2,806,953, 9-17-57, Cl. 250—27.
- Krauss, Werner, to Fuller Co. Material feed regulator. 2,802,698, 8-13-57, Cl. 302—29.
- Krausse, Spott C.: *See*—
Scholz, Charles F., and Krausse. 2,782,298.
- Krauszer, Adam, and R. E. Gagon, to Northrop Aircraft, Inc. Auto-memory clutch. 2,788,667, 4-16-57, Cl. 74—1.
- Kraut, Clyde Co., The: *See*—
Kauble, Howard B. 2,804,010.
Kauble, Howard B. 2,804,390.
- Kraut, Erich. Looseleaf book. 2,804,872, 9-3-57, Cl. 129—4.
- Kravitt, Irwin H. Paint brushes. 2,816,305, 12-17-57, Cl. 15—106.
- Kravitz, Harvey, and N. Lettvin. Means for vaccinating. 2,817,336, 12-24-57, Cl. 128—253.
- Kraynak, Andrew A.: *See*—
Brown, Scott W., and Kraynak. 2,816,314.
- Kreck, Joseph A., to the United States of America as represented by the Secretary of the Navy. Automatic printing telegraph receiving system. 2,805,282, 9-3-57, Cl. 178—69.
- Kreager, Edgar C.: *See*—
Geary, Eugene W., and Kreager. 2,792,312.
- Kreager, Richard M., and E. J. Leeson, to The B. F. Goodrich Co. Method for granular polymerization of vinyl chloride. 2,812,318, 11-5-57, Cl. 260—92.8.
- Krebs, Henry G.: *See*—
Gump, William S., Luthy, and Krebs. 2,812,365.

- Krebs, James N., to General Electric Co. Securing means for turbo-machine blading. 2,812,159, 11-5-57, Cl. 253-78.
- Krebs, John R.: *See*—
Bulkeley, William L., Harban, Krebs, and Ryant. 2,814,070.
- Tisnail, George F., Birkness, and Krebs. 2,816,751.
- Krebs, Kellogg, to Equipment Engineers, Inc. Hydraulic separating apparatus and method. 2,776,053, 1-1-57, Cl. 209-211.
- Krebs, Kellogg, to Centriclone Corp. Centrifugal classifier. 2,787,374, 4-2-57, Cl. 209-211.
- Krebs, Robert W., to Esso Research and Engineering Co. Production of hydrogen and coke. 2,805,177, 9-3-57, Cl. 23-212.
- Krebs, Theodor. Electric spray-gun. 2,811,391, 10-29-57, Cl. 299-97.
- Kreciglowa, Tadeusz, to Universal Converting Corp. Adjustable back rest. 2,812,013, 11-5-57, Cl. 155-162.
- Kreek, Petrus J.: *See*—
Vergers, Willem C. H. G., Kreek, and van Rijswijk. 2,807,953.
- Kreff, Hermann E. Lead-in seal for electrical discharge devices. 2,786,882, 3-26-57, Cl. 174-50.64.
- Kreger, Lawrence F. Machine for applying paint roller coverings to core tubing. 2,776,698, 1-8-57, Cl. 154-1.8.
- Kreh, Edward J., Jr., and C. M. Ladd, to Westinghouse Electric Corp. Container end structure. 2,805,789, 9-10-57, Cl. 220-67.
- Kreidel, Hans, and H. Kreidel, Jr. Hose clamp. 2,795,835, 6-18-57, Cl. 24-280.
- Kreidel, Hans, Jr.: *See*—
Kreidel, Hans, and H. Kreidel, Jr. 2,795,835.
- Kreider, Leonard C., and R. F. Nichols, to The B. F. Goodrich Co. Synthetic elastomeric polyester condensation polymers. 2,785,150, 3-12-57, Cl. 260-75.
- Kreidler, Alfred: *See*—
Hilber, Hanns. 2,804,865.
Hilber, Hanns. 2,815,835.
- Kreidler, Alfred. Apparatus for the production of tubular bodies with variable cross-section. 2,778,493, 1-22-57, Cl. 207-3.
- Kreidler, Alfred. Extrusion apparatus for thin-walled hollow tubing. 2,778,494, 1-22-57, Cl. 207-9.
- Kreidler, Alfred. Drawbench with a drawing chain rotating continuously in the same direction. 2,787,369, 4-2-57, Cl. 205-3.
- Kreidler, Alfred. Ratchet or free wheel devices. 2,804,956, 9-3-57, Cl. 192-45.
- Kreidler, Alfred, and H. Hilber, said Hilber assor. to said Kreidler. Kick starter device. 2,781,033, 2-12-57, Cl. 123-185.
- Kreis, Walter: *See*—
Stoll, Arthur, and Kreis. 2,776,963.
- Kreisler Corp.: *See*—
Coady, Marguerite S. 2,792,576.
- Kreissig, Ernst F. Running gear for rail vehicles. 2,792,791, 5-21-57, Cl. 105-416.
- Kreithen, Alexander. Power supply for portable receiver. 2,796,520, 6-18-57, Cl. 250-27.
- Kreitzer, Raymond E.: *See*—
Kader, Richard H., Kreitzer, and Kader. 2,806,635.
- Krejci, Joseph C., to Phillips Petroleum Co. Carbon black process. 2,781,247, 2-12-57, Cl. 23-209.4.
- Krekeler, Claude B.: *See*—
Bruestle, Armin O., Cartlidge, and Krekeler. 2,791,413.
Bruestle, Armin O., Cartlidge, and Krekeler. 2,791,414.
- Krekeler, Hans: *See*—
Schmetterling, Arie, and Krekeler. 2,785,209.
Schmetterling, Arie, and Krekeler. 2,785,210.
- Krell, Max W., and F. E. Johnson, to Eastman Kodak Co. Process for preparing benzalaniline-3-sulfonic acid compounds. 2,798,090, 7-2-57, Cl. 260-509.
- Kremer, Gilbert H. V.: *See*—
Lantz, Robert L., and Kremer. 2,782,235.
Lantz, Robert L., and Kremer. 2,803,648.
- Krems, Irving J.: *See*—
Gerecht, John F., Krems, and Weiss. 2,806,842.
Gerecht, John F., Krems, and Weiss. 2,806,844.
- Kremser, Johann. Scavenging air housing for internal combustion engines. 2,782,776, 2-26-57, Cl. 123-55.
- Kremser, Johann. Power take-off for wheeled or crawler tractors. 2,784,710, 3-12-57, Cl. 123-195.
- Kremser, Johann. Gear pump, particularly for obtaining a high-pressure feed. 2,789,512, 4-23-57, Cl. 103-126.
- Kremser, Johann. Device for adjusting the tension of belts. 2,795,135, 6-11-57, Cl. 73-144.
- Kreps, Robert W. F., J. J. Tjepkema, and P. L. Kooijman, to Shell Development Co. Alkyl aryl sulfonates. 2,796,429, 6-18-57, Cl. 260-501.
- Kresberg, Samuel. Selective beverage dispenser. 2,790,580, 4-30-57, Cl. 222-129.4.
- Kreske, Walter J. Folding bipod assembly. 2,807,904, 10-1-57, Cl. 42-94.
- Kress, Bernard H., to Quaker Chemical Products Corp. Process for the dimensional control of cellulose textile materials by applying polymeric acetals and products resulting therefrom. 2,785,949, 3-19-57, Cl. 8-116.
- Kress, Bernard H., to Quaker Chemical Products Corp. Process of improving the wet strength and dimensional stability of cellulose paper fibers and regenerated cellulose films by reacting them with acetals and products produced thereby. 2,785,995, 3-19-57, Cl. 117-118.
- Kress, Bernard H., to Quaker Chemical Products Corp. Compositions and method of treating textile materials. 2,785,996, 3-19-57, Cl. 117-139.4.
- Kress, Bernard H., to Quaker Chemical Products Corp. Acetal condensation products. 2,786,081, 3-19-57, Cl. 260-615.
- Kress, Bernard H., to Allied Chemical & Dye Corp. Heat-resistant finish compositions and vehicles therefor. 2,803,610, 8-20-57, Cl. 260-24.
- Kress, Bernard H., and E. Abrams, to Quaker Chemical Products Corp. Process for producing durable mechanical effects on cellulose fabrics by applying acetals and products resulting therefrom. 2,785,947, 3-19-57, Cl. 8-116.
- Kress, Bruce A., ½ to F. J. Broemeling. Gold pan. 2,797,809, 7-2-57, Cl. 209-447.
- Kress, George H.: *See*—
Reynolds, Francis W., and Kress. 2,797,179.
- Kress, Ralph, to Solar Aircraft Co. Balanced jet nozzle and cooling means therefor. 2,811,827, 11-5-57, Cl. 60-35.6.
- Kress, Ralph, to Solar Aircraft Co. Tail cone and resilient mounting therefor. 2,813,396, 11-19-57, Cl. 60-39.32.
- Kresser, Robert B. Tape dispenser. 2,792,184, 5-14-57, Cl. 242-55.5.
- Kressley, Leonard J.: *See*—
Frevel, Ludo K., and Kressley. 2,802,889.
- Kretschmar, Rudolph L., to National Steel Corp. Metal building element. 2,787,349, 4-2-57, Cl. 189-88.
- Kretschmer, Willi, to the Minister of Supply in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Propellant supply systems for jet reaction motors. 2,785,532, 3-19-57, Cl. 60-35.6.
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- Kretzer, Fred P., to The National Supply Co. Piston packing. 2,801,140, 7-30-57, Cl. 309-23.
- Kretzmer, Ernest R.: *See*—
Graham, Robert E., and Kretzmer. 2,802,954.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Square wave generator. 2,777,956, 1-15-57, Cl. 250-36.
- Kreuder, Norman L., to Burroughs Corp. Electrical impulse generator. 2,803,759, 8-20-57, Cl. 307-106.
- Kreutzberger, Alfred: *See*—
Grundmann, Christoph J., and Kreutzberger. 2,777,847.
- Kreutzler, Conrad O., to Fish Products Co. Direct current electro-fishing arrangement. 2,792,659, 5-21-57, Cl. 43-17.1.
- Kreuz, Alfred: *See*—
Hafele, Carl H., and Kreuz. 2,814,307.
- Krey, Wilhelm: *See*—
Spielberger, Georg, and Krey. 2,806,066.
- Kreysa, Frank J., to Chemo Puro Mfg. Corp. Hydroxy cinchonates and carboxylic acid derivatives thereof. 2,776,290, 1-1-57, Cl. 260-270.
- Kribs, Vernon D. Device for attaching a tubular antenna to a television receiver. 2,799,838, 7-16-57, Cl. 339-99.
- Krider, Merle M., and M. E. Wall, to the United States of America as represented by the Secretary of Agriculture. Partial acidic hydrolysis of steroidal saponins. 2,780,620, 2-5-57, Cl. 260-210.5.
- Krider, Merle M., T. C. Cordon, and M. E. Wall, to the United States of America as represented by the Secretary of Agriculture. Microbial hydrolysis of steroidal saponins. 2,784,144, 3-5-57, Cl. 195-32.
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- Kriebel, John E., Jr., to Spring Cover Mfg. Co., Inc. Spring cover. 2,796,254, 6-18-57, Cl. 267-87.
- Kriebel, John E., Jr., and M. K. Graham, to Airway Products, Inc. Conveyor and tire mounting apparatus with automatically adjusting mounting head. 2,817,394, 12-24-57, Cl. 157-1.24.
- Krieg, Eldon L.: *See*—
Kennedy, Myron S., Sr., and Krieg. 2,817,978.
- Kriegbaum, George M., J. H. Bornzin, and H. F. Bardwell, to International Harvester Co. Device for maintaining constant weight bales. 2,796,825, 6-25-57, Cl. 100-43.
- Krieger, Fred W., to Newman Brothers, Inc. Hand rail construction. 2,780,440, 2-5-57, Cl. 256-21.
- Krieger, Maurice H., and D. M. Ezorsky. Brush. 2,777,145, 1-15-57, Cl. 15-186.
- Krieger, William C. Collapsible and portable outdoor shelter. 2,781,766, 2-19-57, Cl. 135-4.
- Krier, Alexander O., J. W. Allen, and D. L. Williams, to Tawco Products Inc. Radish harvesting machine. 2,792,864, 5-21-57, Cl. 146-81.
- Kriesman, Sanford S., and W. E. Rosen, 12% to B. Granoff. Hair setting device. 2,777,451, 1-15-57, Cl. 132-36.
- Krikorian, Albert P. Reclining chair. 2,778,408, 1-22-57, Cl. 155-106.
- Krikorian, Albert P. Chair. 2,781,822, 2-19-57, Cl. 155-106.
- Krikorian, Albert P., to A. Lorenz. Chair. 2,801,675, 8-6-57, Cl. 155-106.
- Krimbel, Robert J. Article holder. 2,813,320, 11-19-57, Cl. 24-3.
- Krimm, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for preparing organic peracids. 2,813,896, 11-19-57, Cl. 260-502.

- Krimm, Heinrich, K. Hamann, and K. Bauer, to Farbenfabriken Bayer Aktiengesellschaft. Process of producing isonitrones. 2,784,182, 3-5-57, Cl. 260-239.
- Kring, Edward A., to Kringfisher Co. Fish lure. 2,787,076, 4-2-57, Cl. 43-42.16.
- Kringfisher Co.: See—
- Kring, Edward A. 2,787,076.
- Krischal, Hans G., to Esso Research and Engineering Co. Improvement in glycol-centered poly-ester preparation. 2,805,247, 9-3-57, Cl. 260-485.
- Krischer, Benton E. Urinal training device for little boys. 2,791,780, 5-14-57, Cl. 4-1.
- Krischenbaum, Isidor: See—
- Hakala, Thomas H., and Kirshenbaum. 2,818,439.
- Kristiansen, Svend H. Parallel guiding devices. 2,800,720, 7-30-57, Cl. 33-109.
- Kristensen, Ejnar D. Door jamb setter. 2,813,348, 11-19-57, Cl. 33-194.
- Kritscher, Andrew F., to United States Steel Corp. Apparatus for rolling tubes. 2,780,118, 2-5-57, Cl. 80-14.
- Kritzer, Richard W. Apparatus for making heat transfer coils. 2,811,204, 10-29-57, Cl. 164-87.
- Krivsky, William A., and E. K. Modl, to Union Carbide and Carbon Corp. Treatment of fumes containing suspended solids. 2,781,255, 2-12-57, Cl. 75-25.
- Krizikalla, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Red disazo dyestuff. 2,791,580, 5-7-57, Cl. 260-179.
- Kroczyński, Walter J., and S. B. Lawruszko. Ornament. 2,792,655, 5-21-57, Cl. 41-11.
- Kroeger, William J., to the United States of America as represented by the Secretary of the Army. Reaction means for rotating ammunition projectiles at low speeds. 2,793,592, 5-28-57, Cl. 102-51.
- Kroeger, William J., and G. E. Hirt, to the United States of America as represented by the Secretary of War. Combined electromagnetic fuze and electric detonator. 2,800,081, 7-23-57, Cl. 102-70.2.
- Kroeker, Sanford P.: See—
- Lovelady, Isaac W., and Kroeker. 2,783,854.
- Kroemer, John H.: See—
- Davidson, John T., and Kroemer. 2,787,464.
- Kroener, James F., and O. J. Gensley, to American Safety Table Co., Inc. Conveyor pressing and ironing apparatus. 2,782,536, 2-26-57, Cl. 38-11.
- Krogel, Christopher J. Porous article and method of making the same. 2,802,405, 8-13-57, Cl. 92-3.
- Krogen, Julius J. Power saw mounting for sawing plywood and like sheet material. 2,785,708, 3-19-57, Cl. 143-47.
- Kroger Co. The: See—
- Terrill, Flanery O. 2,808,157.
- Kroger, Marlin G.: See—
- Keizer, Eugene O., and Kroger. 2,785,303.
- Keizer, Eugene O., and Kroger. 2,810,825.
- Kroger, Marlin G., to Radio Corp. of America. Signal level control of noise cancellation tube conduction threshold. 2,803,700, 8-20-57, Cl. 178-7.3.
- Krogh, Kaare. Slipcover. 2,811,198, 10-29-57, Cl. 155-182.
- Krohe, Walter W.: See—
- Kaulen, Robert, and Krohe. 2,808,022.
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- Krohm, Fred A., to Productive Inventions, Inc. Windshield wiper blade assembly and method of assembling the components thereof. 2,782,442, 2-26-57, Cl. 15-245.
- Krohm, Fred A., to Productive Inventions, Inc. Windshield wiper assembly. 2,782,443, 2-26-57, Cl. 15-245.
- Krohm, Fred A., to Productive Inventions, Inc. Windshield wiper blade. 2,782,444, 2-26-57, Cl. 15-245.
- Krohm, Fred A., to Productive Inventions, Inc. Windshield wiper blade assembly and pressure device therefor. 2,782,445, 2-26-57, Cl. 15-245.
- Krohm, Fred A., to Productive Inventions, Inc. Windshield wiper blade unit and pressure unit therefor. 2,782,446, 2-26-57, Cl. 15-245.
- Krohm, Fred A., to Productive Inventions, Inc. Nozzle assembly. 2,793,912, 5-28-57, Cl. 299-73.
- Krohn, Arnold. Seam. 2,818,040, 12-31-57, Cl. 112-262.
- Krohne, Hans G., to American Machine & Foundry Co. Mouthpiece feeding and severing machine. 2,808,105, 10-1-57, Cl. 164-61.
- Kroll, Adolphe V., to Compagnie Geologique et Miniere des Ingenieurs et Industriels Belges "Geomines" Societe Par Actions a Responsabilite Limitee. Method of producing lithium salts from lithium minerals. 2,793,933, 5-28-57, Cl. 23-27.
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- Kroll, Ervin E. Inclinator. 2,805,489, 9-10-57, Cl. 33-213.
- Kroll, Everett R., and F. Farber, to Deere & Co. Platform adjusting means for sidehill harvesters. 2,780,903, 2-12-57, Cl. 56-209.
- Kroll, Harold J. Fluid agitator. 2,814,473, 11-26-57, Cl. 259-108.
- Kroll, Harry: See—
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- Kroll, Roland F. Chain saw attachment for operating rotatable tools. 2,783,794, 3-5-57, Cl. 144-35.
- Krom, Myron E.: See—
- Joel, Amos E., Jr., Krom, and Posin. 2,812,385.
- Krom, Myron E., and M. Posin, to Bell Telephone Laboratories, Inc. Line concentrator service observing circuit. 2,807,668, 9-24-57, Cl. 179-18.
- Kromer, Karl: See—
- Weise, Johannes, Hahn, Kromer, and Noack. 2,815,702.
- Kromer, Orlando W. Spray nozzle. Re. 24,353, 9-3-57, Cl. 299-121.
- Kromschroder, G., Aktiengesellschaft: See—
- Lucke, Werner, and Rings. 2,807,959.
- Vobbe, Wilhelm. 2,782,799.
- Warnecke, Wilhelm, and Rings. 2,799,357.
- Wetzel, Karl. 2,815,661.
- Kromsten, Carl B. Handsaw with blade-adjusting means. 2,788,036, 4-9-57, Cl. 145-33.
- Kron, Carl M., to Phillips Petroleum Co. Dust filter bag and filtering assembly. 2,805,731, 9-10-57, Cl. 183-43.
- Krone, Heinz, to Koppers Co., Inc. Latching apparatus for coke oven doors. 2,797,114, 6-25-57, Cl. 292-1.
- Krone, Howard C., and W. Meyer, to Wheaton Brass Works. Pilot controlled filling nozzle. 2,795,391, 6-11-57, Cl. 251-38.
- Krone, Martin. Auxiliary reflection securing means. 2,802,394, 8-13-57, Cl. 88-86.
- Kronhaus, Dina, and L. M. Lifschutz. Cargo carrying attachment for automobile. 2,777,625, 1-15-57, Cl. 224-42.43.
- Kronmiller, Carl G., to Minneapolis-Honeywell Regulator Co. Thermostats. 2,786,924, 3-26-57, Cl. 201-48.
- Kronner, William O.: See—
- Wemp, Ernest E. 2,797,780.
- Kronoff, Clarence R., and G. N. Peterson, to Crompton & Knowles Loom Works. Picking mechanism for loom. 2,808,074, 10-1-57, Cl. 139-142.
- Kronrad, Julius, and E. W. Kirkwood; said Kirkwood assor. to said Kronrad. Ventilator with movable louvers. 2,800,851, 7-30-57, Cl. 98-99.8.
- Kronsbein, Ruth (nee Bellmann): See—
- Bellmann, Eugen. 2,811,032.
- Kroon, Pieter J., to Westinghouse Electric Corp. Combustor basket structure. 2,778,192, 1-22-57, Cl. 60-39.32.
- Kroon, Reinout P., to Westinghouse Electric Corp. Thrust reversing device for jet engines. 2,803,944, 8-27-57, Cl. 60-35.54.
- Kropa, Edward L.: See—
- Wohnsiedler, Henry P., and Kropa. 2,784,166.
- Kroper, Hugo, W. Rau, and F. Wirth, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of monocyclic terpenes with para-structure from bicyclic terpenes. 2,792,436, 5-14-57, Cl. 260-675.5.
- Kropp Forge Co.: See—
- Brown, Victor, and Nelson. 2,778,755.
- Kropp, Roy A. 2,800,065.
- Nelson, John H. 2,784,681.
- Kropp, Joseph S. Temperature reporter attachment for telephones. 2,783,302, 2-26-57, Cl. 179-5.
- Kropp, Paul M., Jr., to General Electric Co. Adjustable control for automatic electric coffee maker or the like. 2,818,487, 12-31-57, Cl. 219-44.
- Kropp, Roy A., to Kropp Forge Co. Soil conditioner. 2,800,065, 7-23-57, Cl. 97-40.
- Kropp, Willis A., to International Business Machines Corp. Portable time stamp. 2,810,623, 10-22-57, Cl. 346-142.
- Krotz, Alvin S., and R. H. Hayes, to The B. F. Goodrich Co. Fluid sealing structure. 2,806,748, 9-17-57, Cl. 308-36.1.
- Krous, Peter, to R. Racine. Safety vehicle seat. 2,789,650, 4-23-57, Cl. 180-82.
- Krsek, George, and G. G. Hazen, to Merck & Co., Inc. Processes of preparing $\Delta^8(9)$ -3,11,20-triketo-17-hydroxy-21-acyloxy-pregnadiene. 2,811,537, 10-29-57, Cl. 260-397.45.
- Krussack, Eugene E. Mobile debarker for pulpwood. 2,791,250, 5-7-57, Cl. 144-208.
- Krueger, Albert F.: See—
- Joyce, Bradford T., and Krueger. 2,799,781.
- Krueger, Albert F., to Electronics Corp. of America. Ice detector. 2,816,233, 12-10-57, Cl. 250-83.3.
- Krueger, Alfred P., to Derby Sealers, Inc. Hand tape dispensers. 2,777,594, 1-15-57, Cl. 216-33.
- Krueger, Alfred P., to Derby Sealers Inc. Bag-tying machines. 2,787,102, 4-2-57, Cl. 53-198.
- Krueger, August G. Tissue cabinet. 2,805,112, 9-3-57, Cl. 312-242.
- Krueger, Gustave. Removable file support for file cabinets. 2,814,154, 11-26-57, Cl. 45-58.
- Krueger, Harold E.: See—
- Quinsey, Thomas E., and Krueger. 2,812,815.
- Krueger, Max E. Milk carton holder. 2,810,503, 10-22-57, Cl. 224-45.
- Krueger, Ralph C., to E. I. du Pont de Nemours and Co. Gas filter. 2,812,038, 11-5-57, Cl. 183-122.
- Krueger, Rudolph E., to Wallace O. Leonard, Inc. Pressure reducing valve. 2,816,561, 12-17-57, Cl. 137-81.
- Krueger Sentry Gauge Co.: See—
- Wilhelm, Joseph F. 2,797,577.
- Krueger, Theodore H., to Better Packages Inc. Dispenser for pressure sensitive tape. 2,788,944, 4-16-57, Cl. 242-55.5.
- Krueger, William F., to Sperry-Sun Well Surveying Co. Sub-surface pump. 2,808,111, 10-1-57, Cl. 166-101.

- Krueper, Harry J., Jr. Tie for concrete forms. 2,778,087, 1-22-57, Cl. 25-131.
- Kruft, John P.: *See*—
Kruft, Errol B., 2,779,059.
- Kruft, Heinrich. Needle dispensing box. 2,782,917, 2-26-57, Cl. 206-66.
- Kruft, John B., to Kruft Corp. Apparatus for controlled deposition of material. 2,779,059, 1-29-57, Cl. 18-30.
- Krug, Albert E.: *See*—
Lawlshe, Errol R., and Krug. 2,805,662.
- Krug, Hans D., to Continental Gummi-Werke Aktiengesellschaft. Method of preheating of vulcanizing articles of rubber or rubberlike material. 2,782,462, 2-26-57, Cl. 18-53.
- Krug, Hans-Dieter: *See*—
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Bauermeister, Heinrich A., and Krug. 2,797,440.
- Krug, Hans-Dietrich, and H. Bauermeister, to Firma Continental Gummi-Werke A. G. Arrangement for dielectric heating. 2,782,460, 2-26-57, Cl. 18-6.
- Krug, John E., to Servel, Inc. Refrigeration. 2,788,645, 4-16-57, Cl. 62-119.
- Krüger, August: *See*—
Sobisch, Johannes, and Krüger. 2,787,953.
- Kruger, Lew: *See*—
Kruger, Mandell M. 2,794,265.
- Kruger, Mandell M., to L. Kruger. Paint brush and roller cleaning appliance. 2,794,265, 6-4-57, Cl. 34-58.
- Kruger, Michael H., to A. L. Smith Iron Co. Latches. 2,794,664, 6-4-57, Cl. 292-129.
- Kruger, Michael H., to A. L. Smith Iron Co. Light diffusing system. 2,794,903, 6-4-57, Cl. 240-9.
- Kruihof, Jakob, L. J. G. Nys, and J. L. J. Donceel, to International Standard Electric Corp. Assembling arrangement for commutating mechanisms. 2,787,668, 4-2-57, Cl. 179-27.54.
- Kruizenga, Joseph H. Wick structure in lighter. 2,800,007, 7-23-57, Cl. 67-7.1.
- Krulwich, Lester S. Glass cutting apparatus. 2,814,163, 11-26-57, Cl. 49-52.
- Krumm, Klaus, to Ludwig Krumm A. G. Flexible receptacles such as purses and closure for the same. 2,785,721, 3-19-57, Cl. 150-29.
- Krumm, Ludwig, A. G.: *See*—
Krumm, Klaus. 2,785,721.
- Krumm, Thomas F. Body traction device. 2,815,022, 12-3-57, Cl. 128-84.
- Krummel, Elizabeth. Marking tape. 2,805,485, 9-10-57, Cl. 33-174.
- Krummel, Frederick J.: *See*—
Turner, John L., and Krummel. 2,779,830.
- Krupa, Victor, to Peerless Film Processing Corp. Film processing. 2,782,697, 2-26-57, Cl. 95-1.
- Krupp, Carroll P., to The E. F. Goodrich Co. Flexible hollow connection. 2,784,989, 3-12-57, Cl. 285-236.
- Krupp, Charles E.: *See*—
Peterson, William R., and Krupp. 2,790,605.
- Krupp, Helmar M., to Hartmann & Braun Aktiengesellschaft. Pressure- and temperature-compensation in magnetic gas analysers. 2,815,659, 12-10-57, Cl. 73-27.
- Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Differential injection rotary heater. 2,801,084, 7-30-57, Cl. 259-9.
- Kruppa, William J., and J. B. Rinckhoff, to American Cyanamid Co. Process of treating coal. 2,815,316, 12-3-57, Cl. 202-12.
- Kruschwitz, William F. Collection device. 2,791,976, 5-14-57, Cl. 109-52.
- Kruse, Arthur. Method and apparatus for the drawing of slivers. 2,775,858, 1-1-57, Cl. 57-51.
- Kruse, Carl W., and M. Schnitzer, to Phillips Petroleum Co. Heavy metal complexes of pyridine-2,5-dicarboxylic acid esters. 2,809,197, 10-8-57, Cl. 260-270.
- Kruse, Norman F., to Central Soya Co., Inc. Meal-treating process and apparatus. 2,776,894, 1-8-57, Cl. 99-98.
- Kruss, Samuel A., and L. E. Brown, to Stratoseal Mfg. Co. Lead-through terminals. 2,816,950, 12-17-57, Cl. 174-153.
- Kruszynski, Chester E. Leak-proof container. 2,801,041, 7-30-57, Cl. 229-14.
- Kruty, Margaret F.: *See*—
Wallingford, Vernon H., and Kruty. 2,786,055.
- Krutzsch, William C., Jr., to Worthington Corp. Angular contact thrust bearing with lubricating means. 2,804,357, 8-27-57, Cl. 308-168.
- Kryzer, Benjamin H., to The Lindsay Co. Control for water softening apparatus. 2,796,177, 6-18-57, Cl. 210-275.
- Kryzer, Benjamin H., and L. G. Lindsay, to The Lindsay Co. Control for water softeners. 2,789,697, 4-23-57, Cl. 210-140.
- Krzyszczuk, Edward. Fluid compressor. 2,807,217, 9-24-57, Cl. 103-103.
- Ksiazek, Frank T.: *See*—
Clark, Edwin L., and Ksiazek. 2,790,896.
- Kubacka, Joseph E., to General Motors Corp. Torsion spring seat-spring stiffener. 2,775,997, 1-1-57, Cl. 155-179.
- Kubacka, Joseph E., to General Motors Corp. Dual closure interlock for vehicle luggage and foldable top storage compartments. 2,800,361, 7-23-57, Cl. 296-76.
- Kubacka, Joseph E., and A. A. Limberg, to General Motors Corp. Roof rail weather strip for convertible type doors. 2,817,558, 12-24-57, Cl. 296-44.
- Kubelka, Alois: *See*—
Opletal, Robert, Svaty, and Kubelka. 2,802,488.
- Kubicek, Naci F., and R. C. Archibald, to Shell Development Co. Production of lighter hydrocarbons from petroleum oils involving hydrogenation and catalytic cracking. 2,792,336, 5-14-57, Cl. 196-49.
- Kubico, Michael A., R. N. MacDonald, R. L. Stearns, and F. A. Wolf, to E. I. du Pont de Nemours and Co. Stabilization of formaldehyde polymers with hydrazines. 2,810,708, 10-22-57, Cl. 260-45.9.
- Kubik, Paul P., and R. W. Schmid, to The Yale & Towne Mfg. Co. Knob retainer for tubular lock. 2,801,123, 7-30-57, Cl. 292-352.
- Kubis, Edward J.: *See*—
Baecker, Henry J., Kubis, and Liger. 2,809,906.
- Kubkowski, Edward J.: *See*—
Keller, Ernest, and Kubkowski. 2,795,660.
- Kubodera, Hisayoshi. Pelleter. 2,798,550, 7-9-57, Cl. 164-64.
- Kubovy, Joseph V.: *See*—
Bach, John W., Frisbie, and Kubovy. 2,795,186.
- Kuc, Anthony, Chester, and John Kuc. Wrench holder. 2,804,970, 9-3-57, Cl. 206-16.
- Kuc, John: *See*—
Kuc, Anthony, and J. Kuc. 2,804,970.
- Kucera, Henry T. Heat control apparatus controlled by outside temperature. 2,778,575, 1-22-57, Cl. 236-91.
- Kucera, Joseph B. Loader attachment. 2,798,627, 7-9-57, Cl. 214-510.
- Kuch, Frederick C., to Bell Telephone Laboratories, Inc. Electrical connector for printed wiring board. 2,811,700, 10-29-57, Cl. 339-17.
- Kuchas, Francis C., and V. E. Rosene, to Bell Telephone Laboratories, Inc. Service observing circuits. 2,816,965, 12-17-57, Cl. 179-175.2.
- Kuchenbecker, Morris W., to Marathon Corp. Collapsible carton. 2,798,656, 7-9-57, Cl. 229-41.
- Kuchenbecker, Morris W., to Marathon Corp. Dispensing package. 2,803,339, 8-20-57, Cl. 206-58.
- Kuchinsky, Saul: *See*—
Fitzpatrick, Arthur C., and Kuchinsky. 2,802,103.
- Kuchinsky, Saul, to Burroughs Corp. Means for indexing the electron beam in magnetron type beam switching tubes. 2,795,732, 6-11-57, Cl. 315-21.
- Kuchinsky, Saul, to Burroughs Corp. Protective device for vacuum tubes. 2,804,568, 8-27-57, Cl. 313-312.
- Kuchinsky, Saul, and E. D. Ayers, to Burroughs Corp. Feedback arrangements for beam switching tubes. 2,797,357, 6-25-57, Cl. 315-21.
- Küchler, Erich. Garter fastener. 2,797,465, 7-2-57, Cl. 24-247.
- Kuchler, Karl, and O. Behrendt, to Jagenberg-Werke Akt.-Ges. Method and apparatus for inserting closure parts into containers made of paper, cardboard or the like carton forming material. 2,814,240, 11-26-57, Cl. 93-55.1.
- Kuck, John H.: *See*—
Dell, Albert H., Kuck, and Sreb. 2,775,942.
- Kuckeberg, Christian W.: *See*—
Jauch, Robert J., and Kuckeberg. 2,794,679.
- Kuczun, Chester G., and P. A. Husman, to Laboratory for Electronics, Inc. Amplifier gain-stabilization. 2,781,423, 2-12-57, Cl. 179-171.
- Kudeck, Allen A.: *See*—
Jesza, Kenneth S., Kudeck, and Paalu. 2,798,583.
- Kuderna, Jerome G., to Shell Development Co. Polycyclic insecticidal compounds. 2,802,012, 8-6-57, Cl. 260-310.
- Kudlaty, Walter J.: *See*—
Flick, Francis S., and Kudlaty. 2,798,777.
- Kudzin, Stanley F., to E. I. du Pont de Nemours and Co. Preparation of phthalocyanine pigments. 2,799,595, 7-16-57, Cl. 106-288.
- Kuebler, Robert A., to General Electric Co. Exhaust machine head. 2,795,246, 6-11-57, Cl. 141-66.
- Kuechler, William L., to E. I. du Pont de Nemours and Co. Hydrolysis of polyvinyl esters. 2,783,218, 2-26-57, Cl. 260-91.3.
- Kueh, Carl N.: *See*—
Jansson, Børge L. J. R. 2,786,310.
- Kuehl, Frederick A., Jr., and C. H. Shunk, to Merck & Co., Inc. Intermediates for the preparation of 3,3-dimethyl-2,5-dioxo-pyrrolidine-4-propionic acid compounds and process. 2,783,247, 2-26-57, Cl. 260-343.6.
- Kuehlthau, Hugo L.: *See*—
Avery, Fred J. 2,797,831.
- Avery, Fred J., and Kuehlthau. 2,797,835.
- Avery, Fred J., and Kuehlthau. 2,816,676.
- Kuehn, Otto L. Water vehicle. 2,815,518, 12-10-57, Cl. 9-21.
- Kuehne, Oscar C. Melting furnace. 2,813,707, 11-19-57, Cl. 263-11.
- Kuehni, Hans P., to General Electric Co. Fluid compressor. 2,780,404, 2-5-57, Cl. 230-20.
- Kuenn, William W.: *See*—
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- Kuenn, William W., and E. F. Jones, to Owens-Corning Fiberglass Corp. Packaged insulating units and method of making same. 2,796,931, 6-25-57, Cl. 164-99.
- Kuennig, Robert W., to General Electric Co. Thyatron control circuit. 2,786,967, 3-26-57, Cl. 315-163.
- Kuentz, Roger. Knitting machine. 2,780,932, 2-12-57, Cl. 66-115.

- Kuenzi, Eugene A. Wheel dolly for trucks and buses. 2,812,086, 11-5-57, Cl. 214-333.
- Kuepfer, Matthew C., E. A. V. Horiak, and O. Holskey, to Hercules Motors Corp. Compression ignition internal combustion engine construction, including recessed pistons. 2,787,985, 4-9-57, Cl. 123-32.
- Kugelfischer Georg Schäfer & Co.: See—
Kömm, Nikolaus, 2,792,619.
- Kugler, Edwin R. Forks for lift trucks. 2,788,909, 4-16-57, Cl. 214-700.
- Kugler, Edwin R. Barrel lifting device. 2,789,858, 4-23-57, Cl. 294-81.
- Kugler, John T., to Air Products Co. Encapsulated ejection escape means for aircraft. 2,806,667, 9-17-57, Cl. 244-141.
- Kugler, Robert E.: See—
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- Kuhagen, Fred W., and A. D. Miller, to Birtman Electric Co. Food mixer. 2,798,696, 7-9-57, Cl. 259-1.
- Kuhar, Ludwig J., to The Singer Mfg. Co. Thread cutters for sewing machines. 2,781,012, 2-12-57, Cl. 112-252.
- Kuhar, Ludwig J., to The Singer Mfg. Co. Thread-cases for lock-stitch sewing machines. 2,817,307, 12-24-57, Cl. 112-231.
- Kuhar, William J., Jr. Bracket assembly for shelters. 2,816,559, 12-17-57, Cl. 135-7.1.
- Kuhary, Emery E.: See—
Sawyer, Frederick D., and Kuhary, 2,807,991.
- Kühas, Engelbert: See—
Arnold, Herbert, Brock, and Kühas, 2,785,202.
- Kuhlbars, Hermann: See—
Seulen, Gerhard, Kuhlbars, Detzel, and Wiedmann, 2,787,566.
- Kuhlschmidt, Donald, and C. O. Fowler, to Whirlpool-Seeger Corp. Intake and exhaust damper control for air conditioning apparatus. 2,801,582, 8-6-57, Cl. 98-94.
- Kuhlschmidt, Floyd E.: See—
Kuhlschmidt, Harold L., and F. E., and A. J., and A. Geiselman, 2,797,826.
- Kuhlschmidt, Harold L. and F. E., and A. J. and A. Geiselman, to Elberfeld Mfg. Co., Inc. Rear end loading platform support for brick trucks. 2,797,826, 7-2-57, Cl. 214-75.
- Kuhlik, Hattie B.: See—
Kuhlik, Jacob M., 2,783,310.
- Kuhlik, Jacob M., to H. B. Kuhlik. Traveling bag for sound recording and reproducing machines. 2,783,310, 2-26-57, Cl. 179-100.1.
- Kuhlman, Ora F., to Servomechanisms, Inc. Metallic film adjustable resistor and contact brush therefor. 2,794,892, 6-4-57, Cl. 201-55.
- Kuhlmann, Wilhelm, and G. Hahn, to Brabender o. H. Device for measuring the viscosity of liquid. 2,778,220, 1-22-57, Cl. 73-57.
- Kuhlmeier, Raymond J.: See—
Ricketts, Louis F., Kuhlmeier, and Watts, 2,792,056.
- Kuhm, Max: See—
Bücken, Curt, and Kuhm, 2,801,889.
- Kuhn, Albert: See—
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- Kuhn, Clarence W., to Cutler-Hammer, Inc. Protective switches. 2,803,722, 8-20-57, Cl. 200-124.
- Kuhn, Clarence W., and M. R. Swinehart, to Cutler-Hammer, Inc. Motor controller for use in explosive and corrosive atmospheres. 2,793,328, 5-21-57, Cl. 317-9.
- Kuhn, Edmund W., to Westinghouse Electric Corp. Partially bonded type "C" core. 2,806,212, 9-10-57, Cl. 336-210.
- Kuhn, Eugen, to Olympia Werke Aktiengesellschaft. Typing apparatus for business machines and the like. 2,780,169, 2-5-57, Cl. 101-96.
- Kuhn, Frank O. Electric switch. 2,800,538, 7-23-57, Cl. 200-34.
- Kuhn, George, to The Wayne Pump Co. Automatic resetting mechanism for computers. 2,778,471, 1-22-57, Cl. 192-138.
- Kuhn, George F.: See—
Dunn, Loyal T., and Kuhn, 2,801,399.
- Kuhn, Georges, and F. Liengme, to Mefina S. A. Clockwork for mechanical time fuses. 2,814,251, 11-26-57, Cl. 102-84.
- Kuhn, James O., to Bromo-Mint Co., Inc. Toy target. 2,817,531, 12-24-57, Cl. 273-102.1.
- Kuhn, John, to The Garrett Corp. All-purpose power and air conditioning system. 2,777,301, 1-15-57, Cl. 62-136.
- Kuhn, Joseph M., F. A. Sheldon, and M. Silverman, to The Sherwin-Williams Co. Stabilization of nylon threads and fabrics to sunlight. 2,790,734, 4-30-57, Cl. 117-138.5.
- Kühn, Karl: See—
Lindner, Fritz, and Kühn, 2,793,161.
- Kuhn, Manfred: See—
Haas, Anton, and Kuhn, 2,806,909.
- Kuhn, Otto, to Deutsche Kohlenbergbau-Leitung. Mine arch supports. 2,801,522, 8-6-57, Cl. 61-45.
- Kuhn, Richard: See—
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- Kuhn, Robert E.: See—
Rose, Werner P., and Kuhn, 2,792,587.
- Kuhn, William A., Jr., to Houdaille Industries, Inc. Seal for wings or moving vanes of dampers. 2,790,520, 4-30-57, Cl. 188-93.
- Kuhn, William E., to National Lead Co. Method and apparatus for casting refractory metals. 2,796,644, 6-25-57, Cl. 22-69.
- Kuhne, Bryan F.: See—
Busch, Richard E., and Kuhne, 2,800,074.
Fielder, Lloyd L., Jr., and Kuhne, 2,793,715.
- Kuhne, Bryan F., to Clary Corp. Platen control device. 2,797,791, 7-2-57, Cl. 197-114.
- Kuhnel, Paul: See—
Buchner, Karl, and Kuhnel, 2,810,680.
- Kuhner, Max H., to Riley Stoker Corp. Steam generating unit. 2,800,889, 7-30-57, Cl. 122-480.
- Kuhner, Max H., to Riley Stoker Corp. Burning wet materials. 2,808,035, 10-1-57, Cl. 122-240.
- Kuhnert, Alfred R., to Veb Zeiss Ikon Dresden. Cinematograph apparatus. 2,804,505, 8-27-57, Cl. 179-100.1.
- Kühni, Fritz, deceased, by M. Kühni-Rietmann, and F. H. Kühni, sole heirs. Columns for contacting liquids with gases or vapours. 2,807,451, 9-24-57, Cl. 261-114.
- Kühni, Fritz H.: See—
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- Kühni-Rietmann, Margrit: See—
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- Kuhn, Leopold K., to Eversharp, Inc. Safety razor blade magazine and replacement blade package for the same. 2,812,576, 11-12-57, Cl. 30-40.
- Kuhnle, Ernst. Price indicating apparatus for weighing scales. 2,793,025, 5-21-57, Cl. 265-29.
- Kuhns, Lawrence J., to Callery-Chemical Co. Monitoring of boranes. 2,805,132, 9-3-57, Cl. 23-232.
- Kuhr, Friedrich, to Siemens-Schuckertwerke Aktiengesellschaft. Hall generators of increased sensitivity. 2,814,015, 11-19-57, Cl. 323-63.
- Kuipers, George A., to the United States of America as represented by the United States Atomic Energy Commission. Vacuum gauge. 2,780,099, 2-5-57, Cl. 73-388.
- Kulick, Alden T., to Ford Motor Co. Variable flow hydraulic system. 2,793,500, 5-28-57, Cl. 60-52.
- Kulick, Frederick: See—
Kittel, Claude A., and Kulick, 2,789,273.
- Kulicke, Frederick W., Jr.: See—
Braunstein, Lee G., and Kulicke, 2,815,075.
- Kulicke, Robert M., and J. W. Jones. Picture frame. 2,777,232, 1-15-57, Cl. 40-155.
- Kulig, Constantine W., to Emhart Mfg. Co. Apparatus for assembling liquid dispensing container elements. 2,781,575, 2-19-57, Cl. 29-235.
- Kulik, Alphonse C., to United Shoe Machinery Corp. Rough rounding machines. 2,782,432, 2-26-57, Cl. 12-85.
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- Kulka, Marshall: See—
Van Stryk, Frederick G., and Kulka, 2,802,769.
- Kull, Francis R., to Standard Pressed Steel Co. Feeding and driving mechanism for hollow set screws. 2,806,494, 9-17-57, Cl. 144-32.
- Kull, Walter: See—
Himmelheber, Max, Steiner, and Kull, 2,796,094.
- Kullander, Henning E. Locating guard for electrical outlet receptacles. 2,815,144, 12-3-57, Cl. 220-3.4.
- Külleil, Nils E. G. Fuse for projectiles traversing gaseous and liquid mediums. 2,779,285, 1-29-57, Cl. 102-73.
- Kuller, James G., to Bendix Aviation Corp. Remote positioning apparatus. 2,815,478, 12-3-57, Cl. 318-467.
- Küller, Nils E. G., to Aktiebolaget Bofors. Fuze with clockworks. 2,808,001, 10-1-57, Cl. 102-84.
- Küller, Nils-Erik G., and K.-J. T. Thorildsson, to Aktiebolaget Bofors. Locking arrangement for singly and sequentially releasing ballistic missiles. 2,788,712, 4-16-57, Cl. 89-1.7.
- Kullgren, Gilbert V.: See—
Swartsswelter, Ernest E., and Kullgren, 2,810,424.
- Kullgren, Gilbert V., and D. M. Wilkinson, to The Aetna-Standard Engineering Co. Apparatus for heating and stretching fabrics. 2,807,096, 9-24-57, Cl. 34-45.
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- Küllmar, Heinrich, to Actien-Gesellschaft der Gerresheimer Glashüttenwerke vorm. Device for charging furnaces. 2,815,135, 12-3-57, Cl. 214-18.
- Kulmann, William, to Industrial Research Laboratories, Inc. Sound absorbing and correcting material and method of making same. 2,796,946, 6-25-57, Cl. 181-33.
- Kulo, Thomas E.: See—
Rogier, Clarence F., Kulo, Singer, and Nero, 2,804,737.
- Kulow, Thomas F., to Surface Combustion Corp. Fan apparatus. 2,788,171, 4-9-57, Cl. 230-119.
- Kulp, Victor E. Retainer for hearing aid cord. 2,802,249, 8-13-57, Cl. 24-81.
- Kultner, Holger A. Device for drawing or scribing circular lines. 2,804,688, 9-3-57, Cl. 33-27.
- Kulusic, Steve M. Universal drill jig. 2,817,253, 12-24-57, Cl. 77-62.
- Kumada, Makoto: See—
Kuriyagawa, Mamoru, and Kumada, 2,787,627.
- Kumagai, Tom T., to Hughes Aircraft Co. Direction sensing and displacement detection apparatus. 2,808,650, 10-8-57, Cl. 33-125.
- Kumich, Theodor F.: See—
Förster, Hans J. M., Kollmann, and Kümich, 2,806,387.

- Kumler, Joseph E., to Ranco Inc. Control apparatus for clothes dryers. 2,815,416, 12-3-57, Cl. 200-138.
- Kumm, Emerson L. Absorption refrigeration. 2,795,115, 6-11-57, Cl. 62-5.
- Kumm, Emerson L., to Propulsion Research Corp. Turbine method and system. 2,815,003, 12-3-57, Cl. 121-1.
- Kümmel, Fritz, to Siemens-Schuckertwerke Aktiengesellschaft. Capacitor-excited asynchronous alternators for single-phase loads. 2,777,983, 1-15-57, Cl. 321-58.
- Kummer, Oscar: *See*—
Felch, Edwin P., Israel, and Kummer. 2,808,509.
- Kummer, Oscar, to Bell Telephone Laboratories, Inc. Frequency setting and measuring system. 2,814,775, 11-26-57, Cl. 324-79.
- Kummer, Walter A., to E. F. Brewer Co. Riding attachment for power mowers. 2,800,189, 7-23-57, Cl. 180-11.
- Kummernan, Henri. Closure apparatus for a pit or like open spaces. 2,797,083, 6-25-57, Cl. 268-48.
- Kump, Henry, and W. F. Dietrichson, to American Car and Foundry Co. Automatic slack adjuster for railway brake rigging. 2,782,880, 2-26-57, Cl. 188-200.
- Kumpfer, Beverly D., to the United States of America as represented by the Secretary of the Army. Electronic tuning means. 2,794,151, 5-28-57, Cl. 315-40.
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- Kumpman, Daniel F. Fluid mixer. 2,812,168, 11-5-57, Cl. 261-71.
- Kumpula, John W.: *See*—
Hudson, Donald C., and Kumpula. 2,798,958.
- Kun, Ladislao: *See*—
Tannenbaum, Miklos, Kun, Soltesz, and Brück. 2,789,667.
- Kunce, Joseph W., to United States Rubber Co. Means for and method of making elastic cushion articles. 2,804,650, 9-3-57, Cl. 18-39.
- Kundiger, Donald G.: *See*—
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- Kundiger, Donald G., J. G. Peterson, and E. A. Ikenberry, to The Dow Chemical Co. Preparation of α -chloro- α -methyl aliphatic acids and acid-chlorides. 2,778,851, 1-22-57, Cl. 260-539.
- Kundiger, Donald G., and H. Pledger, Jr., to The Dow Chemical Co. Aluminum chloride-catalyzed reaction of tetrachloromethylpropane. 2,778,861, 1-22-57, Cl. 260-651.
- Kundiger, Donald G., and D. D. Wheeler, to The Dow Chemical Co. Chelates of hydroxyindanones. 2,786,069, 3-19-57, Cl. 260-429.
- Kundiger, Donald G., and J. G. Peterson, to The Dow Chemical Co. Method of preparing tribromomethylpropene. 2,788,376, 4-9-57, Cl. 260-654.
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- Kundiger, Donald G., and D. D. Wheeler, to The Dow Chemical Co. Method for preparing hydroxy-methyl-indanones. 2,802,875, 8-13-57, Cl. 260-590.
- Kundiger, Donald G., and H. Pledger, Jr., to The Dow Chemical Co. 3-(substituted-phenyl)-3-bromo-1,1-dichloro-2-methylpropenes. 2,813,131, 11-12-57, Cl. 260-651.
- Kundiger, Donald G., and H. Pledger, Jr., to The Dow Chemical Co. 3-(substituted-phenyl)-1,1,3,3-tetrachloro-2-methylpropenes. 2,813,132, 11-12-57, Cl. 260-651.
- Kundiger, Donald G., and J. H. Hennes, to The Dow Chemical Co. Alkyl 4,4,4-trichloro-3-hydroxy-orthobutyrates and method of preparing same. 2,814,647, 11-26-57, Cl. 260-615.
- Kung, Frederick E.: *See*—
Neubauer, Joseph A., Strain, Kung, and Dehn. 2,797,195.
- Kunik, I. Jordan: *See*—
Montgomery, Clarence G. 2,790,962.
- Kunik, I., Guy. 2,803,874.
- Kunik, Walter. Sealable container and method and apparatus for sealing the container. 2,795,348, 6-11-57, Cl. 220-27.
- Kunkel, Aloysius T. Metal window. 2,781,111, 2-12-57, Cl. 189-75.
- Kunnes, Herbert W., and F. J. Antonazzi, to Bendix Aviation Corp. Magnetic amplifier converter and limiter. 2,796,535, 6-18-57, Cl. 307-25.
- Kunreuther, Frederick: *See*—
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Zaalberg van Zelst, Ernest F. 2,795,509.
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- Kunz, Rudolph A., Jr. Stacking machine. 2,781,702, 2-19-57, Cl. 93-93.
- Kunz, William R., to the United States of America as represented by the Secretary of the Army. Fire control mechanism. 2,780,965, 2-12-57, Cl. 89-154.
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- Kunze, August, to Heberlein Patent Corp. Apparatus for crimping yarn. 2,790,298, 4-30-57, Cl. 57-34.
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- Kupchick, Edward. Expandable linkage with slotted tubular bearings for mounting coil springs. 2,785,531, 3-19-57, Cl. 59-79.
- Kuper, Rudolph. Masonry unit tilting machine. 2,800,992, 7-30-57, Cl. 198-33.
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Kupfrian, Wilbur J. 2,814,322.
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- Kupjack, Eugene J.: *See*—
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- Kupper, William H., to Royal McBee Corp. Typewriter or like machine carriage brake mechanism. 2,784,829, 3-12-57, Cl. 197-64.
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Dechary, Joseph M., Kupperman, and Thurber. 2,787,625.
- Kuprion, Arthur E. Photofinish apparatus and method. 2,785,945, 3-19-57, Cl. 346-107.
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- Kurianski, Stanislaw. Device for cutting ravioli and the like. 2,799,929, 7-23-57, Cl. 30-301.
- Kurilenko, Alexander. Passenger safety device for vehicles. 2,781,203, 2-12-57, Cl. 280-150.
- Kuris, Arthur: *See*—
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- Kuriyagawa, Mamoru, and M. Kumada, to Tokyo Shibaura Electric Co., Ltd. Process of preparing trialkylhalogenosilanes. 2,787,627, 4-2-57, Cl. 260-448.2.
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- Kurkjian, Yervant H. 2,797,836.
- Kurkjian, Yervant H. 2,811,270.
- Kurkjian, Yervant H. 2,811,271.
- Kurka, Francis A. Collapsible camping trailer. 2,783,079, 2-26-57, Cl. 296-23.
- Kurkechian, Edward M. Windshield wiper. 2,811,736, 11-5-57, Cl. 15-255.
- Kurkjian, Yervant H. Clog-preventing nursing nipple. 2,794,436, 6-4-57, Cl. 128-252.
- Kurkjian, Yervant H., to Kurk Products Co. Automatic nipple and sealing disc releasing means. 2,796,188, 6-18-57, Cl. 215-11.
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- Kurland, Joseph J.: *See*—
Kurland, Jerome J., Joseph J. Kurland, and Rosner. 2,803,693.
- Kurlandsky, Sam: *See*—
Coleman, Joseph J., and Kurlandsky. 2,808,352.
- Kurman, William T. Beach umbrella carrying case. 2,789,571, 4-23-57, Cl. 135-33.
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- Kuro, Richard A.: *See*—
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- Kuroda, Shigeyoshi, to Nippon Kokan K. K. (Nippon Steel Tube Co. Ltd.) Air preheater. 2,779,573, 1-29-57, Cl. 257-241.
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- Kurschner, Lloyd F. Plumb bobs. 2,803,067, 8-20-57, Cl. 33-216.
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- Kurti, Alexander, to the United States of America as represented by the Secretary of the Air Force. Means providing a gas tight joint for sheet metal pipes. 2,818,281, 12-31-57, Cl. 285-399.
- Kurtovich, Joseph. Electric drill with built-in chuck key. 2,807,732, 9-24-57, Cl. 310-50.
- Kurtz, Arthur E., to Wurster & Sanger, Inc. Apparatus and method for separating solids, solvents and gases. 2,778,123, 1-22-57, Cl. 34-32.
- Kurtz, John. Costumer. 2,789,703, 4-23-57, Cl. 211-171.
- Kurtz, Kerwin K., to American Cyanamid Co. Acrylonitrile polymerization. 2,793,199, 5-21-57, Cl. 260-85.5.
- Kurtz, Leonard D., and J. A. Stoltz, to J. A. Deknatel & Son, Inc. Minimal trauma surgical needle. 2,811,157, 10-29-57, Cl. 128-339.
- Kurtz, Lillian H.: *See*—
Mueller, Herman H. 2,809,840.
Mueller, Herman H. 2,809,841.
Mueller, Herman H. 2,809,843.
- Kurtz, Louis A.: *See*—
Adcock, Mack D., and Kurtz. 2,818,549.
- Kurtz, Louis A., to Hughes Aircraft Co. Balanced slot directional coupler. 2,817,063, 12-17-57, Cl. 333-10.
- Kurtz, Ralph W., to H. D. Boggs Co., Ltd. Casting apparatus. 2,790,997, 5-7-57, Cl. 18-26.
- Kurtzhals, Wallace: *See*—
Traisman, Edwin, and Kurtzhals. 2,817,590.
- Kurtzman, Allan H.: *See*—
Phillipsen, Harold. 2,804,416.
- Kurtzner, Edward T., Jr., to the United States of America as represented by the Secretary of the Navy. Pulse-beacon transmitter circuit. 2,791,692, 5-7-57, Cl. 250-36.
- Kurz, Dietrich: *See*—
Bensinger, Wolf-Dieter, and Kurz. 2,804,863.
- Kurz, Harry F., 25% to E. Hillman, Jr., and 25% to I. C. Stone. Hairpin. 2,791,226, 5-7-57, Cl. 132-50.
- Kurz, William E.: *See*—
Duray, Joseph P., and Kurz. 2,777,043.
- Kurzak, Joseph J. Fishhook removing device. 2,806,319, 9-17-57, Cl. 43-53.5.
- Kurzbin, Karl R., to Ryder Mfg. Co. Fish eviscerator. 2,775,785, 1-1-57, Cl. 17-3.
- Kürzeder, Alfons. Magnetic recorders. 2,777,698, 1-15-57, Cl. 274-4.
- Kurzenberger, Richard F.: *See*—
Farrington, Thayer B. and R. K., Dalzell, and Kurzenberger. 2,798,680.
- Kurzina, Stanley B., Jr., to Curtiss-Wright Corp. Engine starting device. 2,800,026, 7-23-57, Cl. 74-7.
- Kurzinski, Edward F.: *See*—
Bieniosek, Chester E., and Kurzinski. 2,807,508.
- Kus, Alvin P. Collapsible animal cage. 2,785,822, 3-19-57, Cl. 220-4.
- Kuscher, Jack J., to Charles Beseler Co. Photographic enlarger apparatus. 2,800,833, 7-30-57, Cl. 88-24.
- Kusel, Ernst: *See*—
Schneider, Max, and Kusel. 2,801,694.
- Kusel, Ernst, to Jagenberg-Werke Akt.-Ges. Roll cutting machines for movable webs of paper, cardboard or the like. 2,792,889, 5-21-57, Cl. 164-65.
- Kusel, Ernst, to Jagenberg-Werke Akt.-Ges. Device on a winding machine or the like for lowering ready wound rolls. 2,801,810, 8-6-57, Cl. 242-66.
- Kushion Kooler Corp.: *See*—
Kottemann, Otto A. 2,807,809.
- Kushmuk, Walter P.: *See*—
Billeter, Henry R., and Kushmuk. 2,777,259.
- Kushner, Samuel: *See*—
Bach, Frederick L., Jr., Brabander, and Kushner. 2,777,849.
Bach, Frederick L., Jr., and Kushner. 2,780,625.
Dalalain, Harry P., and Kushner. 2,807,617.
- Kushner, Samuel, F. L. Bach, and H. J. Brabander, to American Cyanamid Co. Substituted piperazines and method of preparing the same. 2,794,804, 6-4-57, Cl. 260-268.
- Kusiv, Daniel B.: *See*—
Buchanan, Stephen N., and Kusiv. 2,787,925.
- Kuskie, Elsmar L. Attachment for corn shellers. 2,781,138, 2-12-57, Cl. 214-83.26.
- Kusko, Alexander, to Hevi Duty Electric Co. Constant current regulator system. 2,787,732, 4-2-57, Cl. 315-179.
- Kusko, Alexander, to Hevi Duty Electric Co. Power distribution system. 2,787,733, 4-2-57, Cl. 315-189.
- Kuslich, John S. Fishing lure with up and down motion. 2,775,839, 1-1-57, Cl. 43-42.03.
- Kusner, Robert E., and E. P. Kawasaki, to Republic Steel Corp. Process of cooling reduced metallic material in carbonaceous gases. 2,810,632, 10-22-57, Cl. 75-0.5.
- Kusnetz, Charles. Construction for locking ejector pins. 2,800,693, 7-30-57, Cl. 22-94.
- Kusnetz, Harold A.: *See*—
Steinberg, David S., and Kusnetz. 2,788,093.
- Kusters, Eduard. Rolls for use in squeezing liquids from textiles and the like and a method of producing such rolls. 2,801,461, 8-6-57, Cl. 29-120.
- Kusters, Norbert L.: *See*—
MacMartin, Malcolm P., and Kusters. 2,812,447.
- Kustusch, Edmund, to P. W. Kustusch. Deformable locking strip in combination with conventional conical headed screw. 2,795,261, 6-11-57, Cl. 151-41.74.
- Kustusch, Paul W.: *See*—
Kustusch, Edmund. 2,795,261.
- Kuszniar, Phillip S. Electric razor. 2,780,863, 2-12-57, Cl. 30-34.
- Kut, Siegmund: *See*—
Katz, Siegfert, and Kut. 2,804,437.
- Kuta, Stanley C. Combination electric plug-socket and switch. 2,789,171, 4-16-57, Cl. 200-51.
- Kutik, Louis F. Brush. 2,783,490, 3-5-57, Cl. 15-187.
- Kutik, Louis F. Apparatus for molding plastic material. 2,783,501, 3-5-57, Cl. 18-42.
- Kutik, Louis F. Brush. 2,794,201, 6-4-57, Cl. 15-187.
- Kutik, Martin J.: *See*—
Kobler, Richard, and Kutik. 2,801,292.
- Kuts, Mathew, to The B. F. Goodrich Co. Cutting closely spaced incisions in rubber sheet material. 2,803,302, 8-20-57, Cl. 164-17.
- Kutscha, Alois. Self-loading and unloading refuse vehicle body. 2,800,237, 7-23-57, Cl. 214-522.
- Kuttan, Karel: *See*—
Hubálek, Karel and J., Pinkas, Zák, Zert, and Kuttan. 2,804,004.
- Kuttner, Warner L., G. Collins, T. A. Thomson, and V. J. Smith. Means for distributing discrete material in ships' holds and the like. 2,786,720, 3-26-57, Cl. 302-19.
- Kutz & Schulze Zahnradfabrik: *See*—
Köhne, Friedrich W. 2,811,790.
- Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Aircraft control apparatus. 2,780,426, 2-5-57, Cl. 244-77.
- Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,786,973, 3-26-57, Cl. 318-19.
- Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Jet engine fuel and nozzle area control apparatus. 2,790,303, 4-30-57, Cl. 60-35.6.
- Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Condition responsive control device. 2,814,688, 11-26-57, Cl. 200-81.5.
- Kutzler, Robert J., and D. G. Taylor, to Minneapolis-Honeywell Regulator Co. Attitude indicating apparatus. 2,807,794, 9-24-57, Cl. 340-27.
- Kutzsche, Armin: *See*—
Zerweck, Werner, Stachel, and Kutzsche. 2,805,250.
- Kuykendall, Roy L.: *See*—
Martin, Warren R., and Kuykendall. 2,802,272.
- Kuyvenhoven, Willem A.: *See*—
Poldervaart, Jacob, Kuyvenhoven, van den Dool, and 't Hart. 2,805,138.
- Kuzina, Stephen, to J. T. Baker Chemical Co. Spout. 2,796,205, 6-18-57, Cl. 222-464.
- Kuzma, Thomas P. Replaceable scriber point. 2,809,437, 10-15-57, Cl. 33-149.
- Kuzmack, John A., to I-T-E Circuit Breaker Co. Starting circuit for mechanical rectifiers. 2,782,380, 2-19-57, Cl. 321-48.
- Kuzmak, Paul B.: *See*—
Retz, William B., and Kuzmak. 2,779,447.
- Kuzmick, Joseph N., and D. W. Bell, to Raybestos-Manhattan, Inc. Manufacture of abrasive products. 2,780,534, 2-5-57, Cl. 51-298.
- Kuzminski, Henry W.: *See*—
Marschka, Frank D., Veith, and Kuzminski. 2,807,517.
- Kuzmitz, Frank V., to Bendix Aviation Corp. Tailpipe or afterburning control for turbojet engines. 2,789,417, 4-23-57, Cl. 60-35.6.

- Lacy-Hulbert, Cyril. Electric heating elements. 2,804,532, 8-27-57, Cl. 219-20.
- Lacy, Lester Y., to Bell Telephone Laboratories, Inc. Frequency dividing electrical circuit. 2,789,217, 4-16-57, Cl. 250-27.
- Lacy Mfg. Co.: See—
Cadwell, Ralph K. 2,805,321.
- Lacy, William L. Slats for Venetian blinds. 2,813,580, 11-19-57, Cl. 160-173.
- Ladd, Conrad M.: See—
Kreh, Edward J., Jr., and Ladd. 2,805,789.
- Ladd, Horace F.: See—
Christian, Moss B., and Ladd. 2,784,106.
- Ladd, John. Sonic protector for ears. 2,784,407, 3-12-57, Cl. 2-3.
- Laden, Max H., and H. Hertwig, to Swift & Co. Agitator for viscous liquids. 2,809,021, 10-8-57, Cl. 259-107.
- Ladenburg, Kurt, B. F. Duesel, and T. I. Fand, to Nepera Chemical Co., Inc. Process for the preparation of therapeutic compounds. 2,776,287, 1-1-57, Cl. 260-256.
- Ladenchuk, Joseph S.: See—
Gendron, Albert, and Ladenchuk. 2,809,625.
- Ladish Co.: See—
Harnes, Oren B. 2,811,903.
Kessler, Joseph S. 2,780,483.
Kessler, Joseph S. 2,789,844.
Kessler, Joseph S. 2,805,837.
- Ladner, Oscar L.: See—
Tadinger, Paul. 2,797,727.
- Lado, Anthony L., to Rome Grader Corp. Power transmission device. 2,811,139, 10-29-57, Cl. 121-63.
- Ladyman, Edward J. Suction cup construction. 2,812,614, 11-12-57, Cl. 45-137.
- Laemmel, Arthur E., to Polytechnic Institute of Brooklyn. Oscillographic impedance indicators. 2,818,546, 12-31-57, Cl. 324-58.
- Laemmel, Arthur E., to Polytechnic Institute of Brooklyn. Impedance measuring devices. 2,818,547, 12-31-57, Cl. 324-58.
- Laemmle, David C.: See—
Bebry, Peter P., and Laemmle. 2,798,231.
- Laemmle, David C., to Beby Bedding Corp. Bed construction with swivable mattress section. 2,812,523, 11-12-57, Cl. 5-13.
- Laemmle, George J., Jr., to Jefferson Chemical Co., Inc. Recovery of morpholine from aqueous solutions thereof. 2,776,972, 1-8-57, Cl. 260-247.
- Laemmle, George J., Jr., to Jefferson Chemical Co., Inc. Process of producing morpholine from diethanolamine. 2,777,846, 1-15-57, Cl. 260-247.
- Lafaye, Hilton J., to The Goodyear Tire & Rubber Co. Rim structure. 2,817,383, 12-24-57, Cl. 152-409.
- Laferte, Albert A.: See—
Moon, Clifford G., and Laferte. 2,796,086.
- Laferte, Albert A., to Draper Corp. Filling feeler for looms. 2,782,808, 2-26-57, Cl. 139-270.
- Laffan, Kenneth J., and L. G. Robinson. Windshield wiper for a curved windshield. 2,777,150, 1-15-57, Cl. 15-245.
- Lafferre, William F., to Laman Valve Co. Deep well pump travelling valve. 2,810,353, 10-22-57, Cl. 103-235.
- Lafferre, William F., to Laman Valve Co. Traveling valve. 2,818,030, 12-31-57, Cl. 103-225.
- Lafferty, Grant J.: See—
Hodge, Edward B., and Lafferty. 2,803,584.
- Lafferty, James M., to General Electric Co. Plastic electrode structure for electron tubes. 2,777,084, 1-8-57, Cl. 313-80.
- Lafferty, James M., to General Electric Co. Tri-color cathode ray image reproducing tube. 2,777,088, 1-8-57, Cl. 315-21.
- La Fleur, Albert M.: See—
Logan, Donald G., and La Fleur. 2,801,470.
- La Fleur, Arthur E. Plastic bag making machine. 2,815,063, 12-3-57, Cl. 154-1.
- Laffey, Roy D. Chance controlled game device. 2,794,643, 6-4-57, Cl. 273-138.
- La Forest, Louis Z., and R. Kobler, to McGraw-Edison Co. Translating machines. 2,799,733, 7-16-57, Cl. 179-100.4.
- La Forge, Louis H., Jr., to Eitel-McCullough, Inc. Method of making metalized ceramic structures for vacuum tube envelopes. 2,780,561, 2-5-57, Cl. 117-62.
- La Forge, Louis H., Jr., to Eitel-McCullough, Inc. Metalized ceramic structure for vacuum tube envelopes and method of making the same. 2,798,577, 7-9-57, Cl. 189-36.5.
- La Forte, Michael J., to Vaughan Mfg. Co. Wall type can opener. 2,802,258, 8-13-57, Cl. 30-9.
- La France, Donald S.: See—
Hearne, George W., La France, and Shokal. 2,809,185.
- Lafyatis, Paul G., and J. A. Zaslowky, to Olin Mathieson Chemical Corp. Production of alkylene chlorohydrins. 2,788,350, 4-9-57, Cl. 260-358.
- La Gaine Scandale: See—
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- Lagarde, Auguste E., to Societe Preparation Industrielle des Combustibles. Device for separating solid products into a plurality of size grades. 2,786,573, 3-26-57, Cl. 209-104.
- Lagerdahl, Ann E. Educational device. 2,797,499, 7-2-57, Cl. 35-31.
- Lagervall, Otto L. Tube grip joint. 2,815,972, 12-10-57, Cl. 287-54.
- La Gorce, Gerald A. and P. D. Disposable bag toilet. 2,801,426, 8-6-57, Cl. 4-142.
- La Gorce, Paul D.: See—
La Gorce, Gerald A. and P. D. 2,801,426.
- La Goy, Brian. Paint spraying machine. 2,783,708, 3-5-57, Cl. 101-115.
- Lagrange, Pierre. Puncture-warning device. 2,794,343, 6-4-57, Cl. 73-390.
- La Greca, Angelo: See—
Di Lizio, Alexander, and La Greca. 2,798,148.
- Laham, George K. Non-refillable bottles. 2,786,592, 3-26-57, Cl. 215-28.
- La Haye, Paul G., to Nordberg Mfg. Co. Ball injector valve. 2,793,079, 5-21-57, Cl. 299-107.6.
- Lahde, Reinhard N., to the United States of America as represented by the Secretary of the Navy. High speed launching device. 2,792,755, 5-21-57, Cl. 89-1.7.
- La Hood, Louis. Detachable service tray for automobile doors. 2,784,041, 3-5-57, Cl. 311-22.
- Lahr, Gilbert M.: See—
La Belle, Jack E., Lahr, and Hanson. 2,818,359.
- Lahr, Peter W.: See—
Seyfried, Arthur W., and Lahr. 2,815,194.
- Lahti, Arvo A.: See—
Sink, Robert L., Lahti, MacDonald, and Patrick. 2,818,557.
- Lahti, Arvo A., to Consolidated Electrodynamics Corp. Electrostatic voltmeter. 2,780,780, 2-5-57, Cl. 324-109.
- Laib, Heinrich: See—
Friederich, Herbert, Laib, and Henkel. 2,789,141.
Reppe, Walter, Friederich, Lautenschlager, and Laib. 2,809,976.
- Laib, Willy: See—
Hägele, Karl, and Laib. 2,808,819.
- Laidig, John F.: See—
Berger, Uriah S., and Laidig. 2,803,744.
- Laine, Edward A., to Allegheny Ludlum Steel Corp. Apparatus for handling coils. 2,780,985, 2-12-57, Cl. 100-14.
- Laine, Tauno O. Method and apparatus for frost research. 2,795,082, 6-11-57, Cl. 47-58.
- Laine, Thomas H. Cartridge hand loading tool. 2,817,262, 12-24-57, Cl. 86-23.
- Laing, Bertha V. Reading material support. 2,780,027, 2-5-57, Cl. 45-82.
- Laing, Gordon F., to Economy Fuse and Mfg. Co. Heater element fuse. 2,787,684, 4-2-57, Cl. 200-123.
- Laing, Orlie W. Automatic garage door opening mechanism. 2,818,250, 12-31-57, Cl. 268-74.
- Lair, James O.: See—
Fuller, Revilo, and Lair. 2,782,535.
- Lair, Julien J. B., and P. S. Selvaggi, to International Telephone and Telegraph Corp. Automatic lock-on circuit. 2,776,424, 1-1-57, Cl. 343-7.3.
- L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude: See—
Arnaud, Robert. 2,791,673.
Bonnaud, Henri. 2,805,511.
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Etienne, Alfred. 2,817,216.
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- Laird, Alan D. K., to The Regents of the University of California. Fluid absorption comparator. 2,805,339, 9-3-57, Cl. 250-43.5.
- Laird, Hubert C., and K. E. B. Bredtschneider, to Crane Co. Valve repair and shutoff structure. 2,815,038, 12-3-57, Cl. 137-328.
- Laird, Owen A. Toy water wheel. 2,787,863, 4-9-57, Cl. 46-41.
- Laithwaite, Eric R.: See—
Kilburn, Tom, Williams, and Laithwaite. 2,807,728.
- Laitur, Michael R., to Ford Motor Co. Vehicle seat cushion. 2,781,084, 2-12-57, Cl. 155-179.
- Laity, Frank A.: See—
Laity, John J., Sr., J. J. Laity, Jr., F. A., and S. J. 2,812,023.
- Laity, John J., Jr.: See—
Laity, John J., Sr., J. J. Laity, Jr., F. A., and S. J. 2,812,023.
- Laity, John J., Sr., J. J. Laity, Jr., F. A., and S. J. Laity, II. Foldable door or partition. 2,812,023, 11-5-57, Cl. 160-199.
- Laity, Samuel J., II: See—
Laity, John J., Sr., J. J. Laity, Jr., F. A., and S. J. 2,812,023.
- La Jeunesse, Russell S., 1/2 to H. R. Carlson. Honing rotor for internal cylinders. 2,813,383, 11-19-57, Cl. 51-184.3.
- La Judice, Frank P., to the United States of America as represented by the Secretary of the Navy. Rotor balance wheel. 2,804,774, 9-3-57, Cl. 73-455.
- Lajza, Edward: See—
Knipfer, Stearl E., and Lajza. 2,784,779.
- Lakata, George A. Vehicle support stand. 2,800,971, 7-30-57, Cl. 180-19.
- Lakatos, Eduard, K. Schneglbberger, H. Grenne, and J. Heyna, to Kalle & Co. Aktiengesellschaft. Coating process for regenerated cellulose foils. 2,784,116, 3-5-57, Cl. 117-144.
- Lake, Douglas E., to The Dow Chemical Co. Apparatus for distributing falling liquid in thin films. 2,793,017, 5-21-57, Cl. 261-112.
- Lake Erie Engineering Corp.: See—
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Hoffmann, Otto. 2,783,728.

- Lake Erie Machinery Corp.: *See*—
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- Lake, Orson W., and C. F. Amering, to Eastman Kodak Co. Method of preparing a lithographic printing plate. 2,794,388, 6-4-57, Cl. 101—149.2.
- Lake, William C.: *See*—
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- Lake, William C., to Pan American Petroleum Corp. Treatment of hydrocarbon synthesis catalyst. 2,794,039, 5-28-57, Cl. 260—449.6.
- Lake, William C., to Pan American Petroleum Corp. Partial oxidation of hydrocarbons. 2,801,259, 7-30-57, Cl. 260—452.
- Lake, William C., to Pan American Petroleum Corp. Process for partial oxidation of hydrocarbons. 2,801,260, 7-30-57, Cl. 260—452.
- Lake, William C., and G. M. Rambosek, to Pan American Petroleum Corp. Process for conducting partial oxidation of hydrocarbons. 2,810,739, 10-22-57, Cl. 260—449.6.
- Lakeshort Mfg. Co.: *See*—
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- Lakeside Engineering Corp.: *See*—
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- Lakeside Laboratories, Inc.: *See*—
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Biel, John H. 2,802,007.
- Lakey, Arthur B., to Kingsbury Machine Works, Inc. Spherical bearing. 2,785,022, 3-12-57, Cl. 308—160.
- Lakin, Paul C.: *See*—
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- Lakins, Franklin D.: *See*—
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- Lakso, Eino E., to Nashua Corp. Automatic power-driven tape serving machine. 2,776,833, 1-8-57, Cl. 271—2.4.
- Lakso, Eino E., to Sterling Drug Inc. Apparatus for foiling or packaging. 2,777,265, 1-15-57, Cl. 53—194.
- La Lande, William A., Jr., and I. Mockrin, to The Pennsylvania Salt Mfg. Co. Iron-fluorine compound. 2,776,205, 1-1-57, Cl. 75—53.
- Lally Column Co.: *See*—
Donahue, John S., and Strehan. 2,816,435.
- La Londe, Peter T. Vehicle hoisting and towing dolly. 2,808,160, 10-1-57, Cl. 214—86.
- Laloue, Murray J. Coating cooking vessels and method of coating. 2,796,863, 6-18-57, Cl. 117—167.
- La Magneto Belge S. A.: *See*—
Choppinet, Joseph H. G. 2,805,050.
- Laman Valve Co.: *See*—
Lafferre, William F. 2,810,353.
Lafferre, William F. 2,818,030.
- La Manna, Richard J.: *See*—
Scully, John F., and La Manna. 2,813,261.
- La Manna, Richard J., to Monroe Calculating Machine Co. Means for connecting a calculator with a printer or other recording means. 2,789,758, 4-23-57, Cl. 235—60.4.
- Lamar, Charles C., to Harper-Wyman Co. Venturi tube with air shutter. 2,815,070, 12-3-57, Cl. 158—118.
- Lamarthe, Alfred E. Closure for receptacles. 2,817,379, 12-24-57, Cl. 150—10.
- Lamason, William H., to American Viscose Corp. Apparatus for drying sheet material. 2,812,594, 11-12-57, Cl. 34—121.
- Lamb, Anthony H., and E. F. Adams, to Weston Electrical Instrument Corp. Electrical recording apparatus. 2,778,708, 1-22-57, Cl. 346—74.
- Lamb, Arnold W.: *See*—
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- Lamb, Douglas J.: *See*—
Kingsbury, Chadwick B., and Lamb. 2,813,393.
- Lamb Electric Co., The: *See*—
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- Lamb, F. Jos., Co.: *See*—
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- Lamb, Francis X., to Weston Electrical Instrument Corp. Electrical instrument. 2,782,371, 2-19-57, Cl. 324—156.
- Lamb-Grays Harbor Co., Inc.: *See*—
Hanson, Victor E. 2,785,928.
- Lamb, James J., to Sperry Rand Corp. Semi-conductive devices. 2,793,331, 5-21-57, Cl. 317—235.
- Lamb, John M., to Co-Operative Industries, Inc. Flexible wave guide. 2,785,382, 3-12-57, Cl. 333—95.
- Lamb, Marvin G., and J. H. Wall. Television set repair stand. 2,793,426, 5-28-57, Cl. 29—288.
- Lamb, Miles A., to Chicago Pump Co. Diffuser tube. 2,815,943, 12-10-57, Cl. 261—122.
- Lamb, Miles A., and J. J. Klein, to Chicago Pump Co. Sewage digestion process. 2,786,025, 3-19-57, Cl. 210—2.
- Lambach, Fritz, and W. Siegel, to Robert Reiner, Inc. Clutch and brake control for knitting machine. 2,779,448, 1-29-57, Cl. 192—144.
- Lambach, Fritz, and W. Siegel, to Robert Reiner Inc. Warp knitting machine. 2,786,344, 3-26-57, Cl. 66—86.
- Lambach, Fritz, and A. Lombardi, to Robert Reiner Inc. Take-up device for knitting machines. 2,811,028, 10-29-57, Cl. 66—147.
- Lambe, Wendell B., A. R. Smith, and H. Otani, to Chemical Construction Corp. Phosphoric acid manufacture. 2,807,521, 9-24-57, Cl. 23—165.
- Lambeck, Raymond P., to United Aircraft Corp. Pitch lock with mechanical latch. 2,796,137, 6-18-57, Cl. 170—160.21.
- Lambeck, Raymond P., and N. B. Newton, to United Aircraft Corp. Feathering detent. 2,791,283, 5-7-57, Cl. 170—160.32.
- Lambeck, Raymond P., and N. B. Newton, to United Aircraft Corp. Pitch lock with hydraulic latch. 2,796,138, 6-18-57, Cl. 170—160.21.
- Lambeck, Raymond P., and A. V. Pond, to United Aircraft Corp. Feathering override for variable pitch propeller. 2,809,702, 10-15-57, Cl. 170—160.2.
- Lamberson, Jack L., Jr.: *See*—
Anderson, Roy E., Lamberson, Russell, and Smart. 2,806,429.
- Lambert Brake Corp.: *See*—
Dasse, Lester F. 2,778,452.
Ishoy, Albert D. 2,786,560.
Kershner, Osborn A. 2,791,295.
Matrau, Virgil A. 2,811,234.
Parrett, Dent. 2,786,561.
Zindler, Roger R. 2,799,366.
- Lambert, Bruno A., to G. F. McMurray. Drapery hook inserter. 2,789,287, 4-23-57, Cl. 1—47.
- Lambert, Charles G., to The Peabody Seating Co., Inc. Furniture. 2,801,683, 8-6-57, Cl. 155—194.
- Lambert, Clifford H., and E. J. Davies, to The Eastern Malleable Iron Co. Auxiliary power unit for vehicles. 2,789,234, 4-16-57, Cl. 290—1.
- Lambert, Donald P.: *See*—
Hewitt, Maurice C. P., and Lambert. 2,786,631.
Lambert, Donald R., and D. P. 2,786,630.
- Lambert, Donald R., and D. P., to Powers-Samas Accounting Machines Ltd. Record-controlled statistical machines. 2,786,630, 3-26-57, Cl. 235—61.6.
- Lambert Engineering Co.: *See*—
Wells, Willis L. 2,778,275.
- Lambert, Harrison R.: *See*—
Ehrlinger, Robert J., and Lambert. 2,793,293.
- Lambert, Harry L., to Royal McBee Corp. Tilt compensator for typewriter or like machine carriages. 2,781,884, 2-19-57, Cl. 197—82.
- Lambert, Harry L., to Royal McBee Corp. Ribbon spool assembly for typewriter or like machines. 2,809,738, 10-15-57, Cl. 197—175.
- Lambert, Harry L., and W. O. Mosher, to Royal McBee Corp. Operation controlling mechanism for electric motor operated typewriting or like machines. 2,802,163, 8-6-57, Cl. 318—460.
- Lambert, Harry L., and C. B. Spong, to Royal McBee Corp. Carriage retarding mechanism for typewriters or like machines. 2,808,144, 10-1-57, Cl. 197—183.
- Lambert, Harry L., and W. O. Mosher, to Royal McBee Corp. Operation controlling mechanism for typewriters or like machines. 2,810,466, 10-22-57, Cl. 197—17.
- Lambert, Henri J. M., and G. P. Mongin. Cabinet structure. 2,793,093, 5-21-57, Cl. 312—292.
- Lambert, Mahlon W. Portable lamp and reel. 2,802,932, 8-13-57, Cl. 240—73.
- Lambert, Paula A.: *See*—
Lambert, Richard. 2,807,405.
- Lambert, Pol C. J., to Union Chimique Belge S. A. Extraction of boleko oil. 2,800,492, 7-23-57, Cl. 260—412.2.
- Lambert, Ray. Radio noise control devices. 2,791,686, 5-7-57, Cl. 250—20.
- Lambert, Reuben B. Flashlight casing. 2,780,722, 2-5-57, Cl. 240—10.66.
- Lambert, Richard, 1/2 to P. A. Lambert. Collapsible containers. 2,807,405, 9-24-57, Cl. 229—41.
- Lambert, Robert D.: *See*—
Jones, Dwight E., and Lambert. 2,805,694.
- Lambert, Roger E., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de St. Gobain, Chauny & Cirey. Method of and tank furnace for making glass. 2,808,446, 10-1-57, Cl. 13—6.
- Lambert, Roger E., and M. Dubesset, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method for bending articles of glass or other thermoplastic materials. 2,817,928, 12-31-57, Cl. 49—84.
- Lambert, Walter C., and P. Robine, Jr. Hot chocolate dispensing machine. 2,796,200, 6-18-57, Cl. 222—129.4.
- Lamberton, Jean: *See*—
Perrin, Rene, and Lamberton. 2,794,730.
- Lamberton, Ralph E., to The Jaeger Machine Co. Compressor control system. 2,789,755, 4-23-57, Cl. 230—5.
- Lambertsen, Christian J. Oxygen admission valve for oxygen re-breathing apparatus. 2,781,043, 2-12-57, Cl. 128—142.
- Lambie, James M.: *See*—
Armstrong, Leland R., Henry, Lambie, and Youngs. 2,789,338.
- Lambiotte & Co.: *See*—
Coutor, Charles. 2,801,265.
- Lamborn, Bayard T., to Hercules Powder Co. Improved process for the preparation of lower fatty acid esters of cellulose. 2,807,612, 9-24-57, Cl. 260—227.
- Lamborn, Bayard T., to Hercules Powder Co. Chlorite bleaching in the presence of a nitrogen compound employed as a corrosion inhibitor. 2,810,717, 10-22-57, Cl. 260—230.
- Lamborn, Bayard T., to Hercules Powder Co. Lower fatty acid acylation of cellulose and catalyst therefor. 2,816,887, 12-17-57, Cl. 260—227.
- Lamborn, Bayard T., to Hercules Powder Co. Preparation of cellulose esters. 2,816,888, 12-17-57, Cl. 260—230.

- Lambrecht, Joseph A., to Union Carbide Corp. N-substituted bicyclo-(2.2.1)-5-heptene-2,3-dicarboximides. 2,813,877, 11-19-57, Cl. 260-326.
- Lambrecht, Joseph A., to Union Carbide Corp. Aryl halogen substituted dioxanes and dioxins and processes. 2,816,898, 12-17-57, Cl. 260-340.7.
- Lambrecht, Joseph A., to Union Carbide Corp. Aralkyl carbinoles. 2,816,930, 12-17-57, Cl. 260-592.
- Lambuth, Alan L.: *See*—
Ash, Jacob R., and Lambuth. 2,817,639.
- Lamellen- und Kupplungsbau August Haussermann: *See*—
Hausserman, Kurt A. 2,813,607.
- Lamesch, Armand, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de St. Gobain, Chauny & Cirey. Apparatus for grinding the bottom surface of a ribbon of glass. 2,809,479, 10-15-57, Cl. 51-209.
- Laminex Co.: *See*—
Bihaly, Lajos. 2,811,121.
- Lamm, Perry L. Tool for shortening watch band spring bars. 2,800,817, 7-30-57, Cl. 81-6.
- Lamm, Raymond R., to The Patent and Licensing Corp. Adhesive. 2,803,611, 8-20-57, Cl. 260-27.
- Lamm, Uno, to Allmanna Svenska Elektriska Aktiebolaget. Anode tube for high voltage ionic valves. 2,801,357, 7-30-57, Cl. 313-313.
- Lamm, Uno, to Allmanna Svenska Elektriska Aktiebolaget. Saturable core reactor system. 2,818,545, 12-31-57, Cl. 323-89.
- Lamm, William R. Candle applicator. 2,792,699, 5-21-57, Cl. 67-6.
- Lamman, V. J.: *See*—
Casady, Cecil A., and Wood. 2,803,133.
- Lammer, Ernst, and H. Mehring, to Aktiengesellschaft für Unternehmungen der Eisen- und Stahlindustrie. Drive for vehicles, especially for rail vehicles, with hydraulic power transmission. 2,811,863, 11-5-57, Cl. 74-472.
- Lammerz, G. E. E., to Aktiengesellschaft für Unternehmungen der Eisen- und Stahlindustrie. Three speed transmission. 2,786,365, 3-26-57, Cl. 74-677.
- Lamond, Robert C., to American Engineering Co. Steering gear controls. 2,780,917, 2-12-57, Cl. 60-52.
- La Monica, Frank, to The United Tool & Die Co. Hydraulic tracer control. 2,803,095, 8-20-57, Cl. 51-100.
- La Montagne, Marshall J. Puzzle. 2,794,645, 6-4-57, Cl. 273-156.
- Lamort, E. & M., Fils: *See*—
De Gail, Marc L. 2,778,231.
- Lamothe, Armand V. Holder for telephone directory. 2,779,650, 1-29-57, Cl. 312-246.
- Lamoureux, Gilbert J., to Western Electric Co., Inc. Device for gaging strip material and indicating excessive variations in width and camber thereof. 2,796,965, 6-25-57, Cl. 192-127.
- Lamouria, Lloyd H., to The Regents of the University of California. Fruit spreading apparatus. 2,818,160, 12-31-57, Cl. 198-33.
- Lampe, Altman W., to International Business Machines Corp. Constant current circuit. 2,807,773, 9-24-57, Cl. 323-4.
- Lampe, Louis B.: *See*—
Gundlach, George P., and Lampe. 2,779,118.
- Lampert, Murray A.: *See*—
Goldstein, Ladislav, Lampert, and Heney. 2,817,045.
- Lampheer, George S., to Northrop Aircraft, Inc. Clamp-lock swivel elbow. 2,777,714, 1-15-57, Cl. 285-98.
- Lampheer, Jean K.: *See*—
Kammerer, Archer W., Jr. 2,809,016.
- Lamphier, Walter C., to Sprague Electric Co. Electrical capacitors. 2,806,985, 9-17-57, Cl. 317-258.
- Lamphier, Walter C., and P. H. Netherwood, to Sprague Electric Co. Electrical condensers. 2,808,357, 10-1-57, Cl. 154-80.
- Lampke, Arthur R., 1/2 to A. Feyes. Gear operated power wrench. 2,808,749, 10-8-57, Cl. 81-57.
- Lamson Paragon Ltd.: *See*—
Garwood, Victor W. 2,790,529.
- Lamy, Richard C., to International Business Machines Corp. Magnetic core storage device. 2,814,792, 11-26-57, Cl. 340-174.
- Lancashire Dynamo & Crypto Ltd.: *See*—
Woosley, Edward. 2,813,392.
- Lancaster, Ralph, and N. Slater, to Benrus Watch Co., Inc. Hinged claw watch bracket. 2,780,400, 2-5-57, Cl. 224-4.
- Lancaster, Robert A.: *See*—
Freeland, Everett L., and Lancaster. 2,801,555.
- Lancaster, Talbot A., to Plastic Film Corp. Composite moisture-proof plasticized fabric and method of making the same. 2,813,052, 11-12-57, Cl. 154-95.
- Lance, General W. A. Refrigeration heat exchange circuit. 2,791,891, 5-14-57, Cl. 62-117.55.
- Lance, George M., to The Warner & Swasey Co. Pilot valve. 2,802,456, 8-13-57, Cl. 121-45.
- Lance, Irwin R. and I. R., II. Window mounting. 2,777,175, 1-15-57, Cl. 20-52.2.
- Lance, Irwin R., II: *See*—
Lance, Irwin R. and I. R., II. 2,777,175.
- Lancellotti, Dante, to Uncas Mfg. Co. Display box. 2,813,622, 11-19-57, Cl. 206-45.19.
- Land, Edwin H., to Polaroid Corp. Projection system for stereoscopic images. 2,788,707, 4-16-57, Cl. 88-24.
- Land, Edwin H., to Polaroid Corp. Print-receiving elements for diffusion transfer reversal processes and film assemblies embodying said elements. 2,789,054, 4-16-57, Cl. 96-29.
- Land, Edwin H., to Polaroid Corp. Method of protectively treating and mounting photographic prints. 2,798,021, 7-2-57, Cl. 154-118.
- Land, Edwin H., to Polaroid Corp. Photographic transfer process utilizing the reducing action of a developer for producing a colored photographic transfer image. 2,802,735, 8-13-57, Cl. 96-29.
- Land, Edwin H., and W. A. Shurcliff, to Polaroid Corp. Apparatus and method for indicating the position and motion of phenomena in space. 2,778,017, 1-22-57, Cl. 343-7.7.
- Land, Edwin H., and M. Green, to Polaroid Corp. Methods for washing and protecting photographic silver images. 2,794,740, 6-4-57, Cl. 96-29.
- Land, Harry A.: *See*—
Bechman, William O., Land, Baker, and Hennig. 2,780,319.
- Landa, Arthur J., and F. H. McDonald, to Remington Arms Co., Inc. Multiple work feeler safety control. 2,780,812, 2-12-57, Cl. 1-106.
- Landau, Ralph, to Chempatents, Inc. Preparation of ethylene oxide using alkyl silicones and silanes as carbon dioxide repressant. 2,785,186, 3-12-57, Cl. 260-348.5.
- Landau, Ralph, to Mid-Century Corp. Process for the preparation of tri-isopropylbenzene. 2,814,652, 11-26-57, Cl. 260-671.
- Landau, Ralph, and A. Saffer, to Chempatents, Inc. Process for the preparation of ethylene oxide. 2,814,628, 11-26-57, Cl. 260-348.5.
- Landdeck, Roland, to Enger-Kress Co. Stitchless billfolds. 2,781,810, 2-19-57, Cl. 150-38.
- Landeck, Emil: *See*—
Amrhein, Heinz, and Landeck. 2,806,329.
- Lande, Robert W., H. T. Hayes, J. R. Deen, and T. J. Johnson, to Gilfillan Bros., Inc. Composite video system using unblanking voltage developed from triggers bracketing the video train. 2,796,603, 6-18-57, Cl. 343-11.
- Landell, Ernest, to St. Regis Paper Co. Double gusseted valve bags. 2,811,300, 10-29-57, Cl. 229-62.5.
- Landell, Ernest, to St. Regis Paper Co. Double gusseted bag with symmetrical valve. 2,811,301, 10-29-57, Cl. 229-62.5.
- Landell, Stanford, to General Motors Corp. Molding retainer. 2,788,100, 4-9-57, Cl. 189-88.
- Landell, Stanford, to General Motors Corp. Wheel cover. 2,804,346, 8-27-57, Cl. 301-37.
- Landell, Stanford, to General Motors Corp. Wheel cover. 2,815,986, 12-10-57, Cl. 301-37.
- Lander, James G., to Diamond Alkali Co. Adhesive compositions and related method. 2,788,285, 4-9-57, Cl. 106-80.
- Landers, James D. Awning. 2,788,548, 4-16-57, Cl. 20-57.5.
- Landers, Mary M.: *See*—
Brown, Jack L., and Landers. 2,779,735.
- Landert, Heinrich. Hydraulic door opener. 2,808,256, 10-1-57, Cl. 268-64.
- Landes, John T.: *See*—
Vanier, John J., and Landes. 2,799,407.
- Landes, Lewis G., and P. J. Davitto, to Meco, Inc. Convergence unit for picture receiving tubes. 2,791,709, 5-7-57, Cl. 313-77.
- Landes Mfg. Co.: *See*—
Landesberg, Benjamin. 2,787,981.
- Landesberg, Benjamin, to Landes Mfg. Co. Aquarium. 2,787,981, 4-9-57, Cl. 119-5.
- Landgraf, Jacob T., to H. D. Hudson Mfg. Co. Hanging hopper with adjustably suspended feeding trough. 2,789,534, 4-23-57, Cl. 119-52.
- Landgraf, Jacob T., to H. D. Hudson Mfg. Co. Poultry feeder. 2,808,028, 10-1-57, Cl. 119-53.
- Landgraf, William B.: *See*—
Grovenmiller, Dale A., and Landgraf. 2,805,406.
- Landi, Maurice: *See*—
Denby, Jack, and Landi. 2,778,653.
- Landin, Carl A., to The Hart Mfg. Co. Electric switch. 2,780,691, 2-5-57, Cl. 200-67.
- Landis, Alfred R., to James R. Kearney Corp. Predetermined torque release wrench. 2,803,979, 8-27-57, Cl. 81-52.5.
- Landis & Cyr, A. G.: *See*—
Galavics, Franz. 2,804,269.
- Landis, Earle H. Door latch. 2,804,329, 8-27-57, Cl. 292-170.
- Landis, Frank S. Stringing device. 2,799,405, 7-16-57, Cl. 214-5.5.
- Landis, George G., and H. S. Payne, to The Lincoln Electric Co. Apparatus for submerged arc welding. 2,778,910, 1-22-57, Cl. 219-130.
- Landis, George G., and J. E. Carroll, to The Lincoln Electric Co. Method of arc welding. 2,784,301, 3-5-57, Cl. 219-137.
- Landis, George G., and H. S. Payne, to The Lincoln Electric Co. Combined electrode feed conduit and driving means therefor. 2,790,925, 4-30-57, Cl. 314-69.
- Landis, George G., and J. E. Carroll, to The Lincoln Electric Co. Arc-welding electrode and method of arc welding. 2,810,064, 10-15-57, Cl. 219-137.
- Landis & Gyr, A. G.: *See*—
Pudelko, Richard, and Tobler. 2,781,975.
- Springer, Berthold. 2,784,374.
- Von Kotschubey, Nikolaus, Bugmann, and Maurer. 2,789,028.

- Landis Machine Co.: *See*—
Eigenbrode, Glenn S. 2,781,586.
- Landis Tool Co.: *See*—
Balsiger, Harold E. 2,782,573.
Balsiger, Harold E. 2,782,778.
Balsiger, Harold E. 2,787,870.
Balsiger, Harold E. 2,815,611.
Happel, William E. 2,809,472.
Hopkins, Cecil W. 2,816,301.
Jones, Alvin J. 2,801,499.
Jones, Alvin J., and Balsiger. 2,782,565.
Jones, Alvin J., and Balsiger. 2,799,977.
Jones, Alvin J., and Boller. 2,814,919.
Jones, Alvin J., Tolbert, and Shuman. 2,809,471.
Mentzer, Charles R., and Flohr. 2,814,917.
Moeltzner, Ernst F. W. 2,808,147.
Mouer, Earl W. 2,813,385.
- Landman, Paul, to International Cigar Machinery Co. Scrap ejector device. 2,815,868, 12-10-57, Cl. 214-1.
- Landman, Robert S., Jr. Chimney support. 2,804,766, 9-3-57, Cl. 72-95.
- Lando Products, Inc.: *See*—
Klenz, Karl A. 2,796,926.
Klenz, Karl A. 2,806,524.
- Landon, Marion E.: *See*—
Landon, Walter S. 2,808,224.
- Landon, Vernon D., to Radio Corp. of America. Color television synchronization. 2,802,045, 8-6-57, Cl. 178-5.4.
- Landon, Vernon D., and A. W. Vance, to Radio Corp. of America. Television deflection system circuitry. 2,817,788, 12-24-57, Cl. 315-27.
- Landon, Walter S., deceased, by M. E. Landon, administratrix, to Detroit Controls Corp. Slow-opening fuel control valve. 2,808,224, 10-1-57, Cl. 251-51.
- Ladow, Irwin S. Angle measuring instrument. 2,812,590, 11-12-57, Cl. 33-212.
- Landqvist, Nils D., to Rydboholms Aktiebolag. Device for advancing shrinkable and stretchable materials such as textile fabrics. 2,804,459, 2-5-57, Cl. 271-2.2.
- Landreth, Herschel J. Lathe work center. 2,809,044, 10-8-57, Cl. 279-2.
- Landrey, Leo K.: *See*—
Engelman, Joseph H., Haddad, and Landrey. 2,802,130.
- Landrum, Billy F.: *See*—
Errede, Louis A., and Landrum. 2,777,005.
- Landry, Adolphus H. Head motion for looms. 2,818,085, 12-31-57, Cl. 139-79.
- Landry, Arthur B. Jalousie window and removable screen. 2,813,314, 11-19-57, Cl. 20-62.
- Landry, Henry J. Convertible crib and play-yard constructions. 2,781,527, 2-19-57, Cl. 5-99.
- Landry, Henry J. Combined table and folding chair. 2,805,706, 9-10-57, Cl. 155-123.
- Landry, Henry J. Folding play-yard. 2,816,295, 12-17-57, Cl. 5-99.
- Landry, William J., to J. C. Hockery, trustee for H. J. Talge and F. L. Talge. Squeeze-pierce can opener. 2,804,682, 9-3-57, Cl. 30-15.2.
- Landsiedel, Florence E.: *See*—
Landsiedel, Walter W. 2,801,047.
- Landsiedel, Walter W., deceased, by F. E. Landsiedel, executrix, to Sperry Rand Corp. Type and add rack mechanism for calculating machines. 2,801,047, 7-30-57, Cl. 235-60.31.
- Landsverk, Ole G. Quartz fiber dosimeter. 2,793,298, 5-21-57, Cl. 250-83.3.
- Landwerlen, Richard G.: *See*—
Morrill, Elliott, and Landwerlen. 2,776,268.
- Lane, Alton W. Boat. 2,791,981, 5-14-57, Cl. 114-57.
- Lane, Arnold W., to General Electric Co. Portable electric light. 2,790,893, 4-30-57, Cl. 240-10.61.
- Lane, Arthur C., to The British Thomson-Houston Co., Ltd. 2,785,364.
- Lane, Claude A.: *See*—
Kaiser, Harold R., Lane, and Shockency. 2,784,396.
- Lane, Clayton A., to The Edison Swan Electric Co. Ltd. Apparatus for effecting controlled relative displacement between relatively movable parts. 2,811,018, 10-29-57, Cl. 60-97.
- Lane Co., Inc. The: *See*—
Bibby, Ralph D. 2,812,787.
- Lane, David W. J., and D. F. Heath, to Pest Control Ltd. O,O'-dialkyl S(alkyl sulfoxyethyl) phosphorothiolates as pesticides. 2,791,599, 5-7-57, Cl. 260-461.
- Lane, Earl W., to Rohm & Haas Co. Quaternary ammonium compounds of polymers of the cumarone-indene class. 2,806,019, 9-10-57, Cl. 260-81.
- Lane, Earl W., to Rohm & Haas Co. Quaternary ammonium compounds. 2,807,614, 9-24-57, Cl. 260-247.
- Lane, Earl W., to Rohm & Haas Co. Quaternary ammonium compounds. 2,810,720, 10-22-57, Cl. 260-247.7.
- Lane, Earl W., to Rohm & Haas Co. Quaternary ammonium compounds. 2,810,721, 10-22-57, Cl. 260-247.7.
- Lane, Earl W., and W. D. Niederhauser, to Rohm & Haas Co. Isomeric trichloroethoxyhexenes. 2,787,643, 4-2-57, Cl. 260-614.
- Lane, Earl W., and W. D. Niederhauser, to Rohm & Haas Co. Alkoxypentenyl sulfonates. 2,789,133, 4-16-57, Cl. 260-513.
- Lane, Eugene G.: *See*—
Bremer, Harris B., Lane, Scott, and Peterson. 2,813,692.
- Lane, Jack. Rotary advertising sign. 2,803,901, 8-27-57, Cl. 40-39.
- Lane, John D. System for telephone answering and recording and for message recording and reproducing. 2,784,254, 3-5-57, Cl. 179-6.
- Lane, Lloyd H.: *See*—
Lanneau, Keith P., and Lane. 2,798,956.
- Lane, Robert B., and B. R. Alsobrook, to Rohr Aircraft Corp. Sealed flexible duct joint. 2,781,205, 2-12-57, Cl. 285-106.
- Lane, Robert E.: *See*—
Frost, Frederick H., and Lane. 2,780,563.
- Lane, Sanford A., and L. L. Bauer, to Gendron Wheel Co. Invalid folding chair mechanism. 2,810,429, 10-22-57, Cl. 155-140.
- Lane, Stanley S. Combined stool, ladder, high chair and ironing board. 2,814,334, 11-26-57, Cl. 155-41.
- Lane, Thomas D. Underfoot foot warmer. 2,781,439, 2-12-57, Cl. 219-19.
- Lane, Trent: *See*—
Gladrow, Elroy M., and Lane. 2,786,037.
- Lane-Wells Co.: *See*—
Bender, Ralph E., Branum, Buck, and Oliphant. 2,806,535.
- Lan-Elec Ltd.: *See*—
Sartain, Ernest L. 2,795,280.
- Lang, Adolf. Fuse attachment. 2,788,423, 4-9-57, Cl. 200-121.
- Lang, Albert, to Rudiger-Lang Co. Pivoted bender and resilient back-up plate for folding edge of wire screen. 2,813,570, 11-19-57, Cl. 153-20.
- Lang, Andrew R. Diffractometer. 2,805,341, 9-3-57, Cl. 250-53.
- Lang, Andrew R. Diffractometer. 2,805,342, 9-3-57, Cl. 250-53.
- Lang, Andrew R. Diffractometer. 2,805,343, 9-3-57, Cl. 250-53.
- Lang, Heinrich, to Durex, S. A. Four-stroke cycle internal combustion engines. 2,810,373, 10-22-57, Cl. 123-75.
- Lang, Joseph B. Automobile top carrier for skis. 2,782,973, 2-26-57, Cl. 224-42.1.
- Lang, Jules, and E. Widmer, to G. Buehler. Inlet device for pneumatic transport conduit. 2,818,306, 12-31-57, Cl. 302-57.
- Lang, Karl A., to Lindberg Engineering Co. Multiple chamber induction furnace. 2,805,271, 9-3-57, Cl. 13-29.
- Lang, Karl F., P. Damm, and J. Turowski, to Rutgerswerke-Aktiengesellschaft. Method of producing crystalline naphthalene. 2,790,017, 4-23-57, Cl. 260-674.
- Lang, Kenneth R.: *See*—
Knauth, John P., and Lang. 2,779,384.
- Lang, Matthew, to Frederic B. Stevens, Inc. Automatic two-way transfer. 2,806,577, 9-17-57, Cl. 198-20.
- Lang, Murray J., to Refrigeration Package Spacers, Inc. Refrigeration package. 2,787,407, 4-2-57, Cl. 229-6.
- Lang, Robert J.: *See*—
Morbeck, Robert C., and Lang. 2,810,004.
- Langa, Morris M. Plaited braid for fabric trim. 2,810,133, 10-22-57, Cl. 2-278.
- Langbein, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Azo-dyestuffs insoluble in water. 2,783,225, 2-26-57, Cl. 260-176.
- Langberg, Samuel, J. E. Cohen, and B. E. Gumpertz, to Dispensers, Inc. Automatic changeover apparatus. 2,785,317, 3-12-57, Cl. 307-64.
- Langdon, Jesse D. Check valves and spout couplings. 2,787,282, 4-2-57, Cl. 137-218.
- Langdon, Jesse D. Cushioned valve and seat. 2,794,614, 6-4-57, Cl. 251-52.
- Langdon, Jesse D. Traps with vacuum breaker. 2,800,139, 7-23-57, Cl. 137-216.2.
- Langdon, Jesse D. Plunger actuator-packer. 2,815,678, 12-10-57, Cl. 74-303.
- Langdon, Jesse D. Check valve and spout coupling. 2,817,354, 12-24-57, Cl. 137-218.
- Langdon, William K., to Wyandotte Chemicals Corp. Vapor phase synthesis of carbon-substituted pyrazines and piperazines. 2,813,869, 11-19-57, Cl. 260-268.
- Lange, Carl W., Jr.: *See*—
Lange, Carl W., Sr. 2,803,246.
- Lange, Carl W., Sr., to C. W. Lange, Jr. Optical instruments which teach mental perception of visual impressions. 2,803,246, 8-20-57, Cl. 128-76.5.
- Lange, Edward H. Electric conduction control element utilizing conductor-insulator composite. 2,795,746, 6-11-57, Cl. 317-235.
- Lange, Elmer A. Pressure hand loader for shot shell. 2,809,550, 10-15-57, Cl. 86-23.
- Lange, Gunther: *See*—
Berger, Johannes, and Lange. 2,777,362.
Lismann, Helmut, Jahn, and Lange. 2,780,138.
- Lange, Gunther, to C. Zeiss. Lens system for a photographic objective. 2,780,139, 2-5-57, Cl. 88-57.
- Lange, Günther, to Carl Zeiss of Heidenheim a. d. Brenz. Gauss type photographic objective containing two outer collective and two inner dispersive members. 2,799,207, 7-16-57, Cl. 88-57.
- Lange, Gunther, to C. Zeiss. Interchangeable lens system for photographic purposes. 2,816,482, 12-17-57, Cl. 88-57.

- Lange, Gus. Knockdown sawhorse. 2,812,219, 11-5-57, Cl. 304-5.
- Lange, Harold T., to Sporlan Valve Co., Inc. Refrigerant expansion valve mechanism. 2,786,336, 3-26-57, Cl. 62-8.
- Lange, Hermann, and K. Henkel, to Böhme Fettchemie G. m. b. H. Composition for preventing textile materials from becoming electrically charged. 2,790,764, 4-30-57, Cl. 252-8.7.
- Lange, Morris: *See*—
Dobrin, Alvin R., and Lange. 2,777,584.
- Lange, Richard, Jr., to Hodes-Lange Corp. Method and apparatus for cleaning ampoules with the aid of ultrasonic vibration. 2,814,575, 11-26-57, Cl. 134-1.
- Lange, Robert V.: *See*—
Cusick, Charles S., and Lange. 2,782,576.
- Lange, Theodore G.: *See*—
Kiecker, Ervin A., and Lange. 2,777,218.
- Lange, Warren D.: *See*—
Martin, William, and Lange. 2,786,173.
- Langel, Gérard A., to The United States Time Corp. Self-winding watch movement. 2,810,255, 10-22-57, Cl. 58-82.
- Langenberg, Earl W. Box feeder. 2,776,742, 1-8-57, Cl. 198-221.
- Langenstein and Schemann A.-G.: *See*—
Brauer, Willi, and Oeckl. 2,784,619.
- Langer, Alois, and C. R. Wilson, to Westinghouse Electric Corp. Electrodeposition of uranium oxide. 2,784,486, 3-12-57, Cl. 29-195.
- Langer, Arthur W., Jr.: *See*—
Thompson, Charles E., Stewart, and Langer. 2,791,541.
- Langer, George O., to Radio Corp. of America. Switching circuit. 2,799,013, 7-9-57, Cl. 340-213.
- Langer, Jean L., to Gendron Freres S. A. Pressure lubricating system for machine-tool slides or the like. 2,788,862, 4-16-57, Cl. 184-6.
- Langer, Nicholas: *See*—
Fener, Alfred. 2,802,086.
- Fener, Alfred, and Langer. 2,796,913.
- Langer, Stanley H.: *See*—
Ebling, Irving N., and Langer. 2,785,192.
- Langer, Stanley H., to Westinghouse Electric Corp. Process for curing glycidyl polyethers and products produced thereby. 2,809,184, 10-8-57, Cl. 260-47.
- Langer, Steven. Plaster composition for use in collapsible tubes. 2,779,682, 1-29-57, Cl. 106-109.
- Langer, Theodore W., to The Texas Co. Extreme pressure lubricant. 2,785,130, 3-12-57, Cl. 252-37.2.
- Langerheim, Wilhelm. Locking method for clamping devices of mine road walling. 2,793,719, 5-28-57, Cl. 189-36.
- Langevin, Lloyd P. Apparatus for counting objects by weight. 2,796,250, 6-18-57, Cl. 265-30.
- Langevin, Lloyd P. Scales. 2,798,717, 7-9-57, Cl. 265-29.
- Langevin, Robert A., to Clevite Corp. Photo-sensitive device. 2,806,929, 9-17-57, Cl. 201-63.
- Langford, Frank W.: *See*—
Tucker, Edwin W., Semark, and Langford. 2,810,007.
- Langhans, Otto W.: *See*—
Baves, Ross, Langhans, and Greenspan. 2,802,782.
- Langheek, Richard, to Wilhelm Sihh, Jr., K.-G. Spring for telescopic antennae. 2,814,367, 11-26-57, Cl. 189-26.
- Langlois, Gordon E., and P. E. Fischer, to California Research Corp. Process for the production of high boiling propylene polymers employing liquid phosphoric acid catalyst. 2,814,655, 11-26-57, Cl. 260-683.15.
- Langlois, Roland E.: *See*—
Chang, Nai C., and Langlois. 2,812,795.
- Langmuir, Robert V.: *See*—
Robinson, Charles F., Langmuir, Brubaker, and Perkins. 2,780,729.
- Langmuir, Robert V., to Consolidated Electrodynamics Corp. Mass spectrometry. 2,780,728, 2-5-57, Cl. 250-41.9.
- Langmuir, Robert V., to General Electric Co. Mass spectrometer. 2,806,955, 9-17-57, Cl. 250-41.9.
- Langridge, Arthur: *See*—
Peter, Leslie H., Langridge, and Gumm. 2,783,418.
- Langsdorf, Alexander S., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Ion beam collimator. 2,814,728, 11-26-57, Cl. 250-49.5.
- Langsfeld, William P., to Turco Products, Inc. Method and apparatus for selectively removing metal from a metal part. 2,802,726, 8-13-57, Cl. 41-43.
- Langston, Charles H. Combined pipe threading and reaming machine having a reversible speed reduction unit. 2,810,141, 10-22-57, Cl. 10-87.
- Langston, Gladstone H. Pipe handling device. 2,778,671, 1-22-57, Cl. 294-95.
- Langstroth, Hall. Fluid actuated switch. 2,777,029, 1-8-57, Cl. 200-83.
- Langtry, Edwin R., and W. L. Doney, to Ford Motor Co. Vehicle seat latch mechanism. 2,789,621, 4-23-57, Cl. 155-5.
- Langvand, Ivar L., to The Babcock & Wilcox Co. Fluid cooled wall. 2,808,816, 10-8-57, Cl. 122-235.
- Langworthy, William P. Annealing process for magnetic material. 2,779,699, 1-29-57, Cl. 148-122.
- Lanham, Edward H., to Northern Electric Co., Ltd. Signaling systems. 2,800,646, 7-23-57, Cl. 340-213.
- Lanham, Michael J.: *See*—
Atkins, Bernard R., Maer, and Lanham. 2,783,405.
- Lanham, William M., to Union Carbide and Carbon Corp. Production of (olefinically unsaturated acyloxy) haloalkoxy phosphorus compounds. 2,791,574, 5-7-57, Cl. 260-89.3.
- Lanham, William M., and P. L. Smith, to Union Carbide Corp. Preparation of octaalkylpyrophosphoramides. 2,810,757, 10-22-57, Cl. 260-545.
- Lanier, Reginald S., to Washington Machine & Tool Works, Inc. Work driver. 2,777,352, 1-15-57, Cl. 82-41.
- Lanigan, John J. Crane. 2,812,071, 11-5-57, Cl. 212-59.
- Lankford, Arman L. Floor beam recess form for foundations. 2,776,463, 1-8-57, Cl. 25-118.
- Lankford, Harry G. Packaged disassembled article. 2,809,746, 10-15-57, Cl. 206-46.
- Lankford, Harry G. Aerial bomb. 2,815,713, 12-10-57, Cl. 102-2.
- Lankford, Jonathan D., J. G. Tripp, L. H. Brakel, and G. D. Gould; said Lankford, Tripp, and Brakel assors, to the United States of America as represented by the Secretary of the Interior, and said Gould assor, to California Research Corp. Destructive distillation of hydrocarbonaceous materials. 2,812,288, 11-5-57, Cl. 202-16.
- Langman, Robert W.: *See*—
Simanek, Edward J., and Langman. 2,815,094.
- Lannan, Patrick E., and C. E. Freese, to Westinghouse Electric Corp. Temperature responsive control device. 2,782,290, 2-19-57, Cl. 219-20.
- Lannan, Patrick E., and M. L. Snedeker. Two band long line superheterodyne tuner using two modes of resonance for oscillator line. 2,804,544, 8-27-57, Cl. 250-20.
- Lanneau, Keith P., to Esso Research and Engineering Co. Method for segregating aromatic hydrocarbons. 2,790,016, 4-23-57, Cl. 260-674.
- Lanneau, Keith P., to Esso Research and Engineering Co. Mass spectrometer. 2,803,516, 10-1-57, Cl. 250-41.9.
- Lanneau, Keith P., and B. Hodge, to Esso Research and Engineering Co. Continuous recording refractometer. 2,780,131, 2-5-57, Cl. 88-14.
- Lanneau, Keith P., and E. M. Charlet, to Esso Research and Engineering Co. Apparatus for determining differences in refractive index. 2,783,676, 3-5-57, Cl. 88-14.
- Lanneau, Keith P., and L. H. Lane, to Esso Research and Engineering Co. Ion resonance mass spectrometer. 2,798,956, 7-9-57, Cl. 250-41.9.
- Lannefors, Lennart, to Allmanna Svenska Elektriska Aktiebolaget. Speed regulator for asynchronous motors. 2,789,264, 4-16-57, Cl. 318-229.
- Lannen, Joseph P., to Micro-Poise Engineering and Sales Co. Automatic universal balance testing machine. 2,792,725, 5-21-57, Cl. 77-5.
- Lannert, Paul, to B. E. Pollock. List finders. 2,785,489, 3-19-57, Cl. 40-104.
- Lanning, Walter C., to Sperry Rand Corp. Gating circuit. 2,802,202, 8-6-57, Cl. 340-174.
- Lanning, Walter C., to Sperry Rand Corp. Binary arithmetic computer circuit. 2,805,020, 9-3-57, Cl. 235-61.
- Lanning, Walter C., to Sperry Rand Corp. Private line voice communication system. 2,810,122, 10-15-57, Cl. 340-345.
- Lanning, William C., to Phillips Petroleum Co. Process and catalyst for hydrogenation of kerosene to remove color and fluorescence. 2,793,986, 5-28-57, Cl. 196-35.
- Lapeyre, Fernand S., and J. M., to The Peelers Co. Liquid flotation conveyor for shrimp and the like. 2,815,117, 12-3-57, Cl. 198-213.
- Lapeyre, James M.: *See*—
Lapeyre, Fernand S., and J. M. 2,815,117.
- Lanphier, Charles H., to Sangamo Electric Co. Capacitative commutator. 2,790,955, 4-30-57, Cl. 333-24.
- Lans, Irwin L., to Metalweld Machinery Co. Degreaser. 2,783,975, 3-5-57, Cl. 257-2.
- Lansing, Herbert S. Article for playing games with the blind. 2,779,599, 1-29-57, Cl. 273-143.
- Lansing, Horace L., to Poor & Co. Frozen rail joints. 2,785,862, 3-19-57, Cl. 238-243.
- Lansing, Horace L., to Poor & Co. Rail joint. 2,793,816, 5-28-57, Cl. 238-43.
- Lansky, Zdenek J., and G. Riske, to Stewart-Warner Corp. Gas modulating and shutoff valve mechanism. 2,783,946, 3-5-57, Cl. 236-48.
- Lansky, Zdenek J., and G. Riske, to Stewart-Warner Corp. Pilot controlled safety valve mechanism. 2,801,642, 8-6-57, Cl. 137-65.
- Lanspeary, Robert M.: *See*—
Christensen, William, and Lanspeary. 2,809,571.
- Lanteri, Albert C., to The Texas Co. Corrosion prevention. 2,785,089, 3-12-57, Cl. 117-97.
- Lantinberg, David. Packaging of dished articles. 2,812,856, 11-12-57, Cl. 206-65.
- Lantz, Alpha D.: *See*—
Sheadel, John M., and Lantz. 2,806,897.
- Lantz, Robert L., and G. H. V. Kremer, to Compagnie Francaise des Matieres Colorantes. Preparation of C-nitrosodiarylamines. 2,782,235, 2-19-57, Cl. 260-576.
- Lantz, Robert L., and P. M. J. Obellianne, to Compagnie Francaise des Matieres Colorantes S. A. R. L. Oxidation dyeing with aniline-4-sulfamic acid. 2,783,121, 2-26-57, Cl. 8-32.
- Lantz, Robert L., and G. H. V. Kremer, to Compagnie Francaise des Matieres Colorantes. Method of preparation of sulphamic aromatic acids. 2,803,648, 8-20-57, Cl. 260-500.
- Lantz, Walter, Productions, Inc.: *See*—
Garity, William E. 2,776,594.
- Garity, William E. 2,781,096.

- Lanz, Heinrich, Aktiengesellschaft: *See*—
Knolle, Wilhelm. 2,796,140.
- Lanza, Conrad: *See*—
Buehrle, William E., Jr., and Lanza. 2,790,166.
- Lanza, Richard L. Bath tub seat. 2,813,276, 11-19-57, Cl. 4-185.
- Lanzendoerfer, Erich: *See*—
Heimberg, Karl, and Lanzendoerfer. 2,802,731.
- Lanzone, William L. Steering column construction. 2,792,719, 5-21-57, Cl. 74-493.
- La Orange, Joseph W.: *See*—
Milliger, Max L., and La Orange. 2,811,396.
- La Pere, Clarence A. Combined mud-guard and stone deflector for truck two-wheel assembly. Re. 24,339, 7-23-57, Cl. 280-152.
- Lapeyre, Emile M.: *See*—
Lapeyre, Fernand S., J. M., and E. M. 2,778,055.
- Lapeyre, Fernand S., J. M., III, and E. M., to The Peelers Co. Machine for peeling shrimp. 2,778,055, 1-22-57, Cl. 17-2.
- Lapeyre, Fernand S. and J. M., to The Peelers Co. Apparatus for peeling and separating shrimp. 2,785,435, 3-19-57, Cl. 17-2.
- Lapeyre, James M.: *See*—
Lapeyre, Fernand S. and J. M. 2,785,435.
- Lapeyre, James M. Self connecting circuit interruptor devices. 2,802,083, 8-6-57, Cl. 200-168.
- Lapeyre, James M., III: *See*—
Lapeyre, Fernand S., J. M., and E. M. 2,778,055.
- Lapham, Sidney D. Hand truck. 2,779,492, 1-29-57, Cl. 214-383.
- Lapham, Sidney D. Castored roller with self-laying track. 2,810,151, 10-22-57, Cl. 16-18.
- Lapin, Milton A.: *See*—
Hudson, Gilbert. 2,816,550.
- Lapin Products, Inc.: *See*—
Knowles, Edward R. 2,789,313.
- Lapin, Stanley P.: *See*—
Niederman, Bernard, and Lapin. 2,799,832.
- Lapin, Zevverly L., to Development Research, Inc. Explosion-proof low-pressure containers. 2,795,350, 6-11-57, Cl. 220-44.
- La Plante, James F., and D. E. Carney, to Libbey-Owens-Ford Glass Co. Apparatus for supplying batch materials to a glass furnace. 2,804,981, 9-3-57, Cl. 214-23.
- La Point, James P. Delayed action voltage controlled mercury switch. 2,786,120, 3-19-57, Cl. 200-152.
- Lapointe, Alfred. Child's wagon with obstacle clearing guard. 2,816,772, 12-17-57, Cl. 280-87.01.
- Lapointe Machine Tool Co., The: *See*—
Bonname, Oliver W. 2,789,686.
- Laponite Machine Tool Co., The: *See*—
Bonname, Oliver W. 2,813,462.
- Laporte Chemicals Ltd.: *See*—
Hack, Kenneth M., and Wood. 2,791,491.
- Lappala, Risto P., to Bjorksten Research Laboratories, Inc. Flame resistant material. 2,816,415, 12-17-57, Cl. 57-145.
- Lappin, Gerald R.: *See*—
Bell, Alan, and Lappin. 2,787,551.
Bell, Alan, and Lappin. 2,798,083.
Bell, Alan, and Lappin. 2,805,135.
Bell, Alan, and Lappin. 2,808,416.
- Lappin, Gerald R., and M. R. Brimer, to Eastman Kodak Co. Process for making N,N-dialkyl-p-aminophenol. 2,776,313, 1-1-57, Cl. 260-574.
- Lappin, Gerald R., and C. E. Tholstrup, to Eastman Kodak Co. 1-phenyl-3-pyrazolidinediones as antioxidants for fats and oils. 2,801,254, 7-30-57, Cl. 260-398.5.
- Lappin, Gerald R., and J. W. Thompson, to Eastman Kodak Co. Stabilization of motor fuels. 2,811,429, 10-29-57, Cl. 44-71.
- Lappin, Lester S., to Radio Corp. of America. Metering circuit. 2,816,268, 12-10-57, Cl. 332-39.
- Lappin, Milton L., and P. I. Zandberg. Dental press. 2,775,790, 1-1-57, Cl. 18-33.
- Lappin, Richard J., R. I. Anderson, and I. T. Wurn, to The Brunswick-Balke-Collender Co. Folding bleacher. 2,815,541, 12-10-57, Cl. 20-1,126.
- Lappin, Robert L., and L. Zaiger. Shredder unit. 2,789,604, 4-23-57, Cl. 146-92.
- Lappin, Robert L., and L. Zaiger. Power driven can opener. 2,803,873, 8-27-57, Cl. 30-4.
- Lapsensohn, Jacob: *See*—
Lapsensohn, Lewis, R., and J. 2,798,833.
- Lapsensohn, Lewis, R., and J.; said R. and J. Lapsensohn assors, to said L. Lapsensohn. Sheet metal composition material. 2,798,833, 7-9-57, Cl. 154-45.9.
- Lapsensohn, Richard: *See*—
Lapsensohn, Lewis, R., and J. 2,798,833.
- Lapsley, Rhea P., to The Okonite Co. Electric cable system. 2,787,651, 4-2-57, Cl. 174-32.
- Lapsley, Robert: *See*—
Bolster, Ronald H., and Lapsley. 2,814,371.
- Lapsley, Robert, to Clark Equipment Co. Transmission. 2,789,448, 4-23-57, Cl. 74-732.
- Lapsley, Robert, to Clark Equipment Co. Mechanism for materials handling machines. 2,798,626, 7-9-57, Cl. 214-140.
- Lapsley, Robert, to Clark Equipment Co. Vehicle drive means. 2,807,935, 10-1-57, Cl. 60-53.
- Lapuyade, Robert H., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Protective arrangement for sealed or gas-tight batteries. 2,802,980, 8-13-57, Cl. 320-36.
- Larabell, Wilfred J., to General Motors Corp. Fastener for floor coverings. 2,779,048, 1-29-57, Cl. 16-4.
- Laraque, Roland. Piston for internal combustion engine. 2,787,505, 4-2-57, Cl. 309-14.
- Laraque, Roland. Piston for a combustion engine. 2,816,528, 12-17-57, Cl. 123-41.38.
- Larborn, Ake O. Johannes: *See*—
Gustafson, Carl H. E., and Larborn. 2,776,556.
- Larchar, Arthur W., and D. C. Pease, to E. I. du Pont de Nemours & Co. Product and process of polymerizing ethylene. 2,816,883, 12-17-57, Cl. 260-94.9.
- Lardelli, Otto, to Aktiengesellschaft, Brown, Boveri & Cie. Disconnect switch. 2,781,426, 2-12-57, Cl. 200-48.
- Lardin, Arthur R., to McLean Development Laboratories, Inc. Electromagnetic trip. 2,778,226, 1-22-57, Cl. 74-2.
- Lardin, Arthur R., to McLean Development Laboratories, Inc. Fluid operative system and apparatus. 2,802,338, 8-13-57, Cl. 60-97.
- Larrew, John J., to General Electric Co. Phase comparator. 2,796,556, 6-18-57, Cl. 315-166.
- Large, Phillip M. Auxiliary automobile lighting device. 2,808,502, 10-1-57, Cl. 240-8.2.
- Large, William E., to Westinghouse Electric Corp. Interval timer. 2,785,346, 3-12-57, Cl. 317-142.
- Large, William E., to Westinghouse Electric Corp. Photoelectric control circuit. 2,795,737, 6-11-57, Cl. 315-156.
- Large, William E., to Westinghouse Electric Corp. Electric discharge apparatus. 2,806,142, 9-10-57, Cl. 250-27.
- Large, William E., C. B. Stadium, and E. C. Hartwig, to Westinghouse Electric Corp. Electric discharge apparatus. 2,792,528, 5-14-57, Cl. 315-252.
- Lari, Ray V. Pressure packaging system for liquids. 2,816,690, 12-17-57, Cl. 222-92.
- Larin, Marcel. Bubble gum. 2,802,298, 8-13-57, Cl. 46-8.
- Larive, Henri, and P. D. Collet, to Eastman Kodak Co. Method for preparing cyanine bases. 2,798,066, 7-2-57, Cl. 260-240.7.
- Larive, Henri, and J. P. Sarrot, to Eastman Kodak Co. Reduction of 2-nitroso-5-diethylaminotoluene. 2,811,555, 10-29-57, Cl. 260-580.
- La Riviere, Philip D., and S. K. Ichiki, to the United States of America as represented by the Secretary of the Navy. Radiographic method and means for detecting activity-bearing particulate matters. 2,790,908, 4-30-57, Cl. 250-65.
- Lark-Horowitz, Karl, and R. M. Whaley, to Purdue Research Foundation. Alloys and rectifiers made thereof. 2,801,376, 7-30-57, Cl. 317-239.
- Larkin, Daniel C. Seat cover. 2,807,314, 9-24-57, Cl. 155-182.
- Larkin, John W. Rear wheel stabilizer for motor vehicles. 2,798,736, 7-9-57, Cl. 280-124.
- Larkin, Kenneth T.: *See*—
Beveridge, Harold N., Freedman, and Larkin. 2,776,370.
- Larkin, Oscar L.: *See*—
Benson, Walter L., and Larkin. 2,780,899.
- Larkin Packer Co.: *See*—
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Nelson, Wayne F. 2,812,820.
- Larkin, Walter, to Fidelity Co., Inc. Transfer bit dial construction for circular knitting machines. 2,784,579, 3-12-57, Cl. 66-41.
- Larkin, Walter, to Fidelity Machine Co., Inc. Circular knitting machines. 2,785,552, 3-19-57, Cl. 66-41.
- Larkin, Walter, to Fidelity Machine Co., Inc. Flexible hose. 2,788,804, 4-16-57, Cl. 138-55.
- La Roque, Joseph E., and C. E. Impey, to Vapor Heating Corp. Multiple boiler control system. 2,780,206, 2-5-57, Cl. 122-448.
- Laros, Inc.: *See*—
Rickert, Barbara B. 2,805,422.
- La Rose, Royal J., and E. P. Clause. Method for mechanically handling sugar cane stalks during harvesting. 2,799,984, 7-23-57, Cl. 56-51.
- Larrabee, Edward W. Liquid dispensing device. 2,780,396, 2-5-57, Cl. 222-539.
- Larrabee, Edward W. Disposable liquid dispensing device. 2,780,397, 2-5-57, Cl. 222-539.
- Larrecq, Anthony J., R. S. Lynch, and G. P. Cushing, to Power Generators Ltd. Catapult device. 2,799,988, 7-23-57, Cl. 60-85.6.
- Larroca, Ramon G. Crossword puzzle structure. 2,782,530, 2-26-57, Cl. 35-71.
- Larsen, Carl H., to American Machine & Foundry Co. Self leveling storing and dispensing apparatus. 2,812,104, 11-5-57, Cl. 220-93.
- Larsen, Earl, to Delson Candy Co. Carton folding machine. 2,808,766, 10-8-57, Cl. 93-49.
- Larsen, Einer W.: *See*—
Birchler, Robert O., and Larsen. 2,790,359.
- Larsen, Einer W., to Western Electric Co., Inc. Vibrating apparatus. 2,784,598, 3-12-57, Cl. 74-26.
- Larsen, Einer W., to Western Electric Co., Inc. Device for winding conductors around terminals. 2,793,419, 5-28-57, Cl. 29-33.
- Larsen, Elmer V.: *See*—
Crowley, John L., Swift, and Larsen. 2,817,198.

- Larsen, Finn J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,794,946, 6-4-57, Cl. 321-1.5.
- Larsen, Gordon, to Heywood-Wakefield Co. Drop-leaf table with pivoted support legs. 2,799,547, 7-16-57, Cl. 311-63.
- Larsen, Grayland T.: See—
- Tuttle, Charles D., and Larsen. 2,805,642.
- Larsen, Harvey E., to Steger Products Mfg. Corp. Buffing process. 2,780,041, 2-5-57, Cl. 51-281.
- Larsen, Jens D., to Borg-Warner Corp. Shield for drive mechanisms. 2,793,512, 5-28-57, Cl. 64-4.
- Larsen, Milner E. Safety plow hitch. 2,805,869, 9-10-57, Cl. 280-452.
- Larsen, Oscar F.: See—
- Friberg, Nelson R., and Larsen. 2,813,611.
- Larsen, Paul V., to Electric Steel Foundry Co. Dipper door structure. 2,788,907, 4-16-57, Cl. 214-145.
- Larsen, Robert S. Support and housing for panel boards. 2,810,618, 10-22-57, Cl. 312-312.
- Larsen, Roy L., to Minneapolis-Honeywell Regulator Co. Motor drive circuit for electrical measuring apparatus. 2,777,103, 1-8-57, Cl. 318-207.
- Larsen, Thomas C. Ground irrigator. 2,790,403, 4-30-57, Cl. 111-7.1.
- Larsen, Tore. Work tables, particularly ironing boards. 2,814,892, 12-3-57, Cl. 38-126.
- Larsen, Walter C., J. E. Ganshert, and W. Waniellista, to Minnesota Mining & Mfg. Co. Tape stapling. 2,788,625, 4-16-57, Cl. 53-198.
- Larsh, Almon E., Jr.: See—
- Ghiorso, Albert, and Larsh. 2,784,910.
- Larsh, Everett P.: See—
- Voegel, Max. 2,808,552.
- Larson, Adolph J., to Contur Abrasive Co., Inc. Abrasive articles and holders therefor. 2,781,618, 2-19-57, Cl. 51-197.
- Larson, Albin L. Rotary disc cutter for railroad trackway. 2,786,320, 3-26-57, Cl. 56-230.
- Larson, Alpheus W. Memo pad and pencil holder. 2,787,084, 4-2-57, Cl. 45-5.
- Larson, Alvin, to Unique Balance Co., Inc. Adjustable load carrying device. 2,780,457, 2-5-57, Cl. 267-1.
- Larson, Alvin K., to Unique Balance Co., Inc. Sash balance connector. 2,793,389, 5-28-57, Cl. 16-197.
- Larson, Andrew D., to A. Stein & Co. Belt package. 2,806,590, 9-17-57, Cl. 206-46.
- Larson, Arthur. Anchor. 2,784,815, 3-12-57, Cl. 189-92.
- Larson, Charles O. Folding table leg bracket. 2,796,268, 6-18-57, Cl. 287-14.
- Larson, Charles O. Slotted manual bending tool. 2,800,818, 7-30-57, Cl. 81-15.
- Larson, Charles O. Tool holder. 2,805,777, 9-10-57, Cl. 211-60.
- Larson, Charles O. Garden tool stand. 2,815,863, 12-10-57, Cl. 211-60.
- Larson, Christian C., to Farnsworth Research Corp. Jump compensation for continuous motion film projector. 2,818,466, 12-31-57, Cl. 178-7.2.
- Larson, Donald E.: See—
- Larson, Victor S., and D. E. 2,803,486.
- Larson, Edwin L. Can opener for key strip cans. 2,797,019, 6-25-57, Cl. 220-47.
- Larson, Elbert W.: See—
- Gillis, Randall, Larson, and Stine. 2,790,299.
- Larson, Ernest D., and H. H. Nichols, to United States Steel Corp. Monolithic liner and method of construction. 2,801,099, 7-30-57, Cl. 266-43.
- Larson, Ernest J.: See—
- Phelan, James E., Maridh, and Larson. 2,803,223.
- Larson, Gustav. Spring clip. 2,792,654, 5-21-57, Cl. 40-125.
- Larson, Harold A., to Phillips Petroleum Co. Carbon black process and apparatus. 2,809,098, 10-8-57, Cl. 23-209.4.
- Larson, Harold A., and W. H. Rushford, to Phillips Petroleum Co. Process and apparatus for production of carbon black. 2,785,053, 3-12-57, Cl. 23-209.4.
- Larson, Harold A., and W. R. King, to Phillips Petroleum Co. Feeding mechanism. 2,786,232, 3-26-57, Cl. 18-1.
- Larson, Harold A., and L. C. Keaton, to Phillips Petroleum Co. Cyclone separator feeder and method for feeding carbon black. 2,788,267, 4-9-57, Cl. 23-314.
- Larson, John D. Tobacco smoke filter. 2,792,841, 5-21-57, Cl. 131-208.
- Larson, John D. Method of producing synthetic topsoil. 2,797,985, 7-2-57, Cl. 71-8.
- Larson, Kenneth R., and G. M. Walraven, to Snap-On Tools Corp. Pre-set torque indicating wrench. 2,792,734, 5-21-57, Cl. 81-52.5.
- Larson, Lester M.: See—
- Hermann, Edward C., Larson, and Price. 2,805,185.
- Larson, Lester L. Tow trailer for tractor. 2,776,063, 1-1-57, Cl. 214-334.
- Larson, Madonna L.: See—
- Larsson, Ernst A. 2,802,580.
- Larson, Paul R.: See—
- Korte, Alfred C., Szwargulski, Jeep, and Larson. 2,803,384.
- Larson, Richard C. Method of making an electron tube. 2,791,480, 5-7-57, Cl. 316-19.
- Larson, Robert, and R. Shoemaker, to Du Kane Corp. Phonograph brake mechanism. 2,777,541, 1-15-57, Cl. 188-74.
- Larson, Roy E. Tool holder. 2,811,365, 10-29-57, Cl. 279-110.
- Larson, Victor J., to Hercules Powder Co. Coating compositions containing chlorinated rubber and method of forming same. 2,798,056, 7-2-57, Cl. 260-3.3.
- Larson, Victor S., and D. E. Larson. Hook for logging arch cable. 2,803,486, 8-20-57, Cl. 294-78.
- Larson, Wesley S.: See—
- Richardson, Henry M., and Larson. 2,775,911.
- Larson, Wilfred L., to Switchcraft, Inc. Mixer unit for a plurality of incoming signals. 2,783,397, 2-26-57, Cl. 307-156.
- Larsson, Börje I., and K. M. Nordfors, to Aktiebolaget Bofors. Control systems for the aiming of guns. 2,792,688, 5-21-57, Cl. 60-97.
- Larsson, Carl A. R., to Telefonaktiebolaget L. M. Ericsson. Time-marking device for charging telephone calls. 2,817,573, 12-24-57, Cl. 346-17.
- Larsson, Ernst A., deceased; M. L. Larson, administratrix of said E. A. Larson, to The Ohio Brass Co. Car couplers. 2,802,580, 8-13-57, Cl. 213-45.
- Larsson, Ernst A., to The Ohio Brass Co. Automatic coupler with release. 2,802,581, 8-13-57, Cl. 213-45.
- Larsson, Gustaf: See—
- Allander, Claes, Wallin, and Larsson. 2,790,508.
- Larssall, Sten W. Grating mats for floors. 2,784,464, 3-12-57, Cl. 20-78.6.
- La Salle Steel Co.: See—
- Moore, Eldon B., Nachtman. 2,788,301.
- Nachtman, Elliot S. 2,789,069.
- See, Theodore S., and Frommelt. 2,810,189.
- La Salle, Thomas: See—
- Perec, John, and La Salle. 2,791,429.
- Lasater, John A., and T. A. Deakins, to Combustion Engineering, Inc. Pipe cleaning apparatus with novel up-ending wheel. 2,778,164, 1-22-57, Cl. 51-9.
- Lasch, Albert, and A. Stroebel, to Werner & Pfleiderer Maschinenfabriken und Ofenbau. Screw conveyor. 2,778,482, 1-22-57, Cl. 198-213.
- Laschenski, Joseph E., to Philco Corp. Motion converter. 2,797,583, 7-2-57, Cl. 74-10.85.
- Laser, William F., to City National Bank and Trust Co. of Chicago, as trustee. Self-contained cartridge type rotary seal with floatably mounted sealing members. 2,797,939, 7-2-57, Cl. 286-11.
- Lashbrook, Thomas E., to General Motors Corp. Blade investment casting process. 2,793,412, 5-28-57, Cl. 22-196.
- Lashley, Charles J. W. Shuttlecocks. 2,815,956, 12-10-57, Cl. 273-106.
- Lasinski, Theodore M.: See—
- Pick, Joseph R., and Lasinski. 2,806,564.
- Laskauskas, Joseph, to Joy Mfg. Co. Swivel coupling. 2,789,682, 4-23-57, Cl. 198-95.
- Lasker, Walter M. Net manufacturing machine. 2,795,785, 6-18-57, Cl. 1-2.
- Laskow, Luke L., and F. D. Kiewel, to Minneapolis Brewing Co. Illuminated advertising medium. 2,791,852, 5-14-57, Cl. 40-130.
- Laskowski, Donald E., to Armour Research Foundation of Illinois Institute of Technology. 2,4,6-trinitrobenzoate ester-addition compound indicator. 2,809,116, 10-8-57, Cl. 106-19.
- Lasky, William N., and N. N. Tenner. Chinning bar attachment. 2,817,523, 12-24-57, Cl. 272-62.
- La Spirotechnique: See—
- Gagnan, Emile. 2,792,831.
- La Spirotechnique, Societe Anonyme: See—
- Alinat, Jean, and Chauvin. 2,798,940.
- Lassen, Carl C., Jr. Liner attachment. 2,813,610, 11-19-57, Cl. 197-113.
- Lassiter, Frederic H. Cellophane packaging and method. 2,814,382, 11-26-57, Cl. 206-46.
- Lassiter, Harmon B. Portable lifting apparatus. 2,804,979, 9-3-57, Cl. 212-59.
- Lasslo, Andrew: See—
- Hatton, Roger E., and Lasslo. 2,780,642.
- Lassy, Carl O. Slide fixture. 2,779,219, 1-29-57, Cl. 77-63.
- Lassy, Carl O. Tap chuck. 2,785,903, 3-19-57, Cl. 279-51.
- Lassy, Carl O. Drilling and tapping vise. 2,786,372, 3-26-57, Cl. 77-63.
- Last, Bernard, and C. C. Reiff, to Rockwell Mfg. Co. Coupling. 2,783,063, 2-26-57, Cl. 284-17.
- Laster, Edward C., Sr., and T. L. Menge, Sr. Sump pump. 2,795,197, 6-11-57, Cl. 103-262.
- Laswell, Glenn E., to Westinghouse Electric Corp. Automatic safety device for incandescent lamp exhaust systems. 2,801,644, 8-6-57, Cl. 137-388.
- Latate, Bernard. Means for atomizing liquid. 2,785,926, 3-19-57, Cl. 299-141.
- La Tendresse, Philip E. Retractive loader. 2,788,139, 4-9-57, Cl. 214-141.
- La Tendresse, Philip E. Loader with swivel clam gripper. 2,788,143, 4-9-57, Cl. 214-147.
- Latessa, Donato P.: See—
- Thomson, Gordon G., and Latessa. 2,808,689.
- Latham, Allen E.: See—
- Toti, Andrew J., and Latham. 2,788,066.
- Latham, Allen, Jr., to General Electric Co. Water heating and demineralizing apparatus. 2,777,814, 1-15-57, Cl. 204-301.
- Latham, Allen, Jr., and F. E. Reed, Jr., to The Badger Mfg. Co. Heat transfer unit and distillation apparatus embodying same. 2,793,988, 5-28-57, Cl. 202-187.

- Lather, Carl, and H. H. Sitron. Portable dental device. 2,788,000, 4-9-57, Cl. 128-62.1.
- Lathouwers, Franciscus J. M., to Hartford National Bank and Trust Co., as trustee. Coil system employing at least one high-frequency coil having a premagnetized rod-shaped core. 2,781,496, 2-12-57, Cl. 336-110.
- Lathrop, Harold F., to Amana Refrigeration, Inc. Room air conditioner. 2,811,022, 10-29-57, Cl. 62-129.
- Lathrop, Harold F., to Amana Refrigeration, Inc. Condenser air circulation system for air conditioning units. 2,811,023, 10-29-57, Cl. 62-140.
- Lathrop, Harold F., to Amana Refrigeration, Inc. Deflector vane. 2,811,093, 10-29-57, Cl. 98-40.
- Lathrop, Harry D., and E. E. Hageline, to The Lathrop-Paulson Co. Inverting apparatus. 2,813,644, 11-19-57, Cl. 214-130.
- Lathrop, Henry T.: See—
Williams, Donald E., Hertzler, and Lathrop. 2,793,378.
- Lathrop-Paulson Co., The: See—
Hageline, Emil E. 2,787,913.
- Lathrop, Harry D., and Hageline. 2,813,644.
- Lathrop, Robert P., and L. K. Hyde, to Baldwin-Lima-Hamilton Corp. Offset yield strength testing apparatus. 2,775,886, 1-1-57, Cl. 73-88.
- Latimer, Robert W.: See—
Zel, Joe, and Latimer. 2,793,760.
- La Torre, Joseph. Driving and setting tool for blind fasteners. 2,789,597, 4-23-57, Cl. 144-32.
- Latoszynski, Jerzy A. L.: See—
Hughes, John O. P., Frankel, and Latoszynski. 2,807,480.
- Latour, André, to Etablissements Merlin & Gerin. Face-on-face contact pair for circuit breakers. 2,777,921, 1-15-57, Cl. 200-170.
- Latour, André, to Etablissements Merlin & Gerin. Arc extinguishing chamber. 2,783,336, 2-26-57, Cl. 200-147.
- Latour, André, to Etablissements Merlin & Gerin. Protecting device for end-on-end contact tubes in circuit breakers. 2,811,613, 10-29-57, Cl. 200-146.
- Latour, André, to Etablissements Merlin & Gerin. Circuit breakers of the kind having a magnetic blow-out. 2,815,418, 12-3-57, Cl. 200-147.
- Latour, William A.: See—
Kyame, George J., and Latour. 2,810,163.
- Latrobe Steel Co.: See—
Palmer, Francis M. 2,807,123.
- Latrouell, Harry E. Junction boxes for space heaters. 2,788,178, 4-9-57, Cl. 237-32.
- Latta, Edward, and B. Jones, to Redmond Co., Inc. Electric windshield wiper apparatus. 2,810,294, 10-22-57, Cl. 74-75.
- Latter, Bruce B., to General Electric Co. Refrigerating apparatus having automatic defrosting. 2,780,924, 2-12-57, Cl. 62-4.
- Lattimore, Richard J. Temporary anchor for fire hose. 2,814,507, 11-26-57, Cl. 285-23.
- Lattin, Leonard E. Cam operated electric shaver. 2,799,925, 7-23-57, Cl. 30-43.
- Lattner, Emert J., and H. H. McLeland. Fertilizer spreader. 2,805,796, 9-10-57, Cl. 222-244.
- Laturski, Thaddeus S., and S. D. Degorski, to The Page-O-Matic Co. Loose-leaf sheet turning device. 2,794,281, 6-4-57, Cl. 40-52.
- Latzen, Josef. Ball and socket joint. 2,811,377, 10-29-57, Cl. 287-90.
- Laub, Herman, III, 15% to R. E. Geauque. Pallet loading machine. 2,815,870, 12-10-57, Cl. 214-6.
- Laubach, Gerald D.: See—
Agnello, Eugene J., and Laubach. 2,788,354.
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Pinson, Ellis R., Jr., and Laubach. 2,794,763.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. Reduction of steroid peroxides. 2,794,033, 5-28-57, Cl. 260-397.2.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. 8(14)-pregnenes and process. 2,802,014, 8-6-57, Cl. 260-397.45.
- Laubach, Gerald D., and E. C. Schreiber, to Chas. Pfizer & Co., Inc. Hydroxylated ergosterol. 2,807,632, 9-24-57, Cl. 260-397.2.
- Laube, Hans, to H. Laube and B. S. Good. Motion pictures with synchronized odor emission. 2,813,452, 11-19-57, Cl. 88-16.
- Laube, Herbert L.: See—
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- Laubender, Ludwig: See—
Augsburger, Franz, and Laubender. 2,814,178.
- Lau Blower Co., The: See—
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Wentling, William H. 2,776,088.
- Lauck, Harry C. Slicing machine. 2,806,500, 9-17-57, Cl. 146-151.
- Lauck, John A., to Borg-Warner Corp. Pressure loaded pump. 2,793,595, 5-28-57, Cl. 103-126.
- Lauck, John A., to Borg-Warner Corp. Thermostatic fan drive. 2,811,956, 11-5-57, Cl. 123-41.12.
- Lauder, Alfred E. Carburetors. 2,791,409, 5-7-57, Cl. 261-71.
- Lauderdale, Donald M., and S. Katz. System for remote proportional control of aircraft attitude. 2,810,533, 10-22-57, Cl. 244-14.
- Lauer, David L. Conduit flow control system. 2,778,531, 1-22-57, Cl. 222-75.
- Laufer, Louis, and M. Gutchto, to the United States of America as represented by the Secretary of the Navy. Method of preparing cysteinylglycine. 2,799,670, 7-16-57, Cl. 260-112.
- Lauffe, Charles W., and C. L. Altenburger, to National Steel Corp. Alloy steel. 2,797,991, 7-2-57, Cl. 75-123.
- Laug, Ernst, to Socony-Mobil Co., Inc. Non-staining metal working lubricant. 2,811,489, 10-29-57, Cl. 252-34.7.
- Laughlin, Joseph: See—
Rockhill, William E., and Laughlin. 2,807,109.
- Laughlin, Myron P. Fountain cleaning device with detergent supply. 2,779,961, 2-5-57, Cl. 15-130.
- Laughter, D. Robert: See—
Duckro, John E. 2,812,051.
- Laughton, George W. Bark-peeling device having revolving endless-carrier-mounted cutters driven by planetary gears. 2,779,363, 1-29-57, Cl. 144-208.
- Lauler, Louis J., and M. T. Thorsson, to Fairbanks, Morse & Co. Remote indicator for scales. 2,780,800, 2-5-57, Cl. 340-187.
- Launay, Pierre, to R. K. Price Associates, Inc. Punching hand-tool. 2,798,555, 7-9-57, Cl. 164-121.
- Launder, Ernie L., to H. & L. Tooth Co. Sectional retainer pin having inwardly and outwardly facing shoulders thereon. 2,798,403, 7-9-57, Cl. 85-8.3.
- Launder, Ernie L., to H. & L. Tooth Co. Detachable retaining means for digging teeth. 2,807,105, 9-24-57, Cl. 37-142.
- Laurel Plastics, Inc.: See—
Crawford, Joseph V. 2,787,045.
- Laureldale Engineering Co.: See—
Curtis, Earl W., and J. E. 2,784,683.
- Laurence, Edgar A., and F. L. von Brecht, to Aerojet-General Corp. Fuel. 2,815,270, 12-3-57, Cl. 52-5.
- Laurence, Lawton L., to Black, Sivalls & Bryson, Inc. Method of and apparatus for recovering desirable hydrocarbon liquids from high pressure wells. 2,801,207, 7-30-57, Cl. 196-7.
- Laurenty, Francois. Valve. 2,795,390, 6-11-57, Cl. 251-5.
- Laurie, Jesse T.: See—
Westphal, Armin W., Laurie, and Irwin. 2,815,184.
- Laurie, William A., to Monsanto Chemical Co. Aminoplasts. 2,804,442, 8-27-57, Cl. 260-45.2.
- Laurila, Erkki A., to Aktiengesellschaft für Unternehmungen der Eisen- und Stahlindustrie. Permanent magnet separator. 2,785,801, 3-19-57, Cl. 209-223.
- Lauring, Edgar A. Flame resistant fiberboard. 2,813,046, 11-12-57, Cl. 117-72.
- Lauritsen, Charles C., to the United States of America as represented by the Secretary of the Navy. Rocket projector. 2,791,941, 5-14-57, Cl. 89-1.7.
- Lauritsen, Charles C., to the United States of America as represented by the Secretary of the Navy. Rocket projector. 2,809,559, 10-15-57, Cl. 89-1.7.
- Lautenbacher, Adolphe. Electrical lighting equipment for automobiles. 2,779,896, 1-29-57, Cl. 315-83.
- Lautenbacher, Anton, and J. Plank. Automatic levelling device. 2,795,892, 6-18-57, Cl. 45-139.
- Lautenbacher, Hans: See—
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Brendel, Theodor, and Lautenbacher. 2,784,646.
- Lautenberger, Elmer W., to General Electric Co. Capacitor discharge ignition system. 2,799,809, 7-16-57, Cl. 317-83.
- Lautenberger, Elmer W., and R. W. Holmes, to General Electric Co. Multiple ignitor capacitor ignition system. 2,790,935, 4-30-57, Cl. 315-180.
- Lautenschlager, Hans: See—
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Reppe, Walter, Friederich, Lautenschlager, and Laib. 2,809,976.
- Lauterbach, Norman E., to Ritter Co., Inc. Footrest. 2,785,737, 3-19-57, Cl. 155-172.
- Lauterbach, Norman E., to Ritter Co., Inc. Dental unit. 2,810,196, 10-22-57, Cl. 32-23.
- Lautsch, Willy: See—
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- Lautz, Carl F.: See—
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Boehm, Eric G., and Lautz. 2,815,829.
- Lautzenhiser, Argyle G., to General Motors Corp. Electric switch. 2,806,918, 9-17-57, Cl. 200-113.
- Lauve, Henry D. S., to General Motors Corp. Magnetic attaching means for a sunshade. 2,802,693, 8-13-57, Cl. 296-97.
- Lauxmann, Hans H., to H. Reichle, d. b. a. Putnam Specialties. Clutch. 2,791,303, 5-7-57, Cl. 192-38.
- Lava, Vittorio. Balancing closure for windows, doors, partitions and the like. 2,794,016, 6-11-57, Cl. 20-42.
- Laval, Claude C., Jr. Motor controlled increment drive system. 2,794,944, 6-4-57, Cl. 318-470.
- Laval, Claude C., Jr. Sampling apparatus. 2,809,805, 10-15-57, Cl. 253-1.4.
- Laval, Claude C., Jr. Earth sampling tool. 2,809,806, 10-15-57, Cl. 253-1.4.
- Laval, Claude Jr. Stepped progression borehole camera apparatus. 2,812,697, 11-12-57, Cl. 95-11.
- Laval, Michel J. A. Method of treating knitted goods containing shrinkable fibres, and products thereof. 2,805,463, 9-10-57, Cl. 28-76.

- Lavallée, Paul L.: *See*—
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- Lavan, Albert M.: *See*—
Wagner, Harold B., and Lavan. 2,788,562.
- Lavanchy, Andre C.: *See*—
Payne, Robert E., and Lavanchy. 2,796,173.
- Lavanchy, Patricia B., to Permacel Tape Corp. Pressure sensitive adhesive tape and method of making same. 2,795,515, 6-11-57, Cl. 117-72.
- Laverdisse, Edmond, to Les Glaceries de la Sambre, Societe Anonyme. Glass grinding and polishing method and apparatus. 2,780,038, 2-5-57, Cl. 51-110.
- Laverdisse, Edmond, to Les Glaceries de la Sambre, Societe Anonyme. Arrangement for controlling the tools of glass grinding and/or polishing machines. 2,815,612, 12-10-57, Cl. 51-112.
- Lavers, Albert W.: *See*—
Pressing, Robert W., and Lavers. 2,804,271.
- Lavery, John J. Smoking pipe. 2,798,497, 7-9-57, Cl. 131-215.
- Lavery, Charles A., to National Tank Co. Glycol tower separator. 2,787,451, 4-2-57, Cl. 261-3.
- Laviana, Lawrence J., to M. H. Rhodes, Inc. Preset timer. 2,778,418, 1-22-57, Cl. 161-1.
- Laviana, Lawrence J., to M. H. Rhodes, Inc. Telephone index and call timer. 2,780,016, 2-5-57, Cl. 40-104.
- Laviana, Lawrence J., to M. H. Rhodes, Inc. Switch assembly for timers. 2,789,168, 4-16-57, Cl. 200-35.
- Laviano, Don. Combined fitting and cutting device. 2,814,092, 11-26-57, Cl. 29-69.
- Lavieri, Daniel C., and W. J. Hawley, to Pratt & Whitney Co., Inc. Tracer control for machine tools. 2,814,239, 11-26-57, Cl. 90-62.
- Lavoie Laboratories, Inc.: *See*—
Gilbert, Alfred J., Jr. 2,790,884.
- Law, Harold B., to Radio Corp. of America. Color television cameras. 2,797,257, 6-25-57, Cl. 178-54.
- Law, Harold B., to the United States of America as represented by the Secretary of the Army. Method of making fine mesh screens. 2,805,986, 9-10-57, Cl. 204-11.
- Law, Harold B., to Radio Corp. of America. Cathode ray tube. 2,806,165, 9-10-57, Cl. 313-82.
- Law, Harold B., J. E. Evans, and N. Rynn, to Radio Corp. of America. Electron-sensitive photographic plate. 2,797,331, 6-25-57, Cl. 250-49.5.
- Law, Preston D., and V. L. D. D'Adrian, to Flex-O-Lite Mfg. Corp. Production of free-flowing glass beads. 2,794,301, 6-4-57, Cl. 49-84.
- La Warre, Robert W.: *See*—
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- Lawick, Julius J. Door operating mechanism. 2,789,636, 4-23-57, Cl. 160-188.
- Lawler, John J., to Ajax Buff Co. Method of making cloth buffs. 2,806,332, 9-17-57, Cl. 51-193.
- Lawler, Joseph A., to Blue M. Electric Co. Liquid bath arrangement. 2,813,189, 11-12-57, Cl. 219-38.
- Lawlor, Francis E.: *See*—
Barr, John T., and Lawlor. 2,778,850.
Storin, Gordon K., Lawlor, and Casciani. 2,814,602.
- Lawlor, John J. Screen for automobile windows. 2,776,709, 1-8-57, Cl. 160-378.
- Lawlor, Joseph P., to General Filter Co. Multicell filter apparatus. Re. 24,275, 2-12-57, Cl. 210-144.
- Lawlor, Joseph P. Flow indicator for filter apparatus. 2,814,950, 12-3-57, Cl. 73-216.
- Lawlor, Reed C.: *See*—
Wiens, Jacob H. 2,798,115.
Wiens, Jacob H. 2,798,116.
- Lawlor, William. Sanitary shields for spring water drinking dispensers. 2,811,272, 10-29-57, Cl. 215-100.
- Lawn Barber Corp.: *See*—
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Miller, William M. 2,795,916.
- Lawn-Gro, Inc.: *See*—
Fancil, Robert C. 2,793,074.
- Lawrence, Richard B.: *See*—
Boehme, Robert M., and Lawrence. 2,795,132.
- Lawrence, Richard B., and J. R. Roehrig, to National Research Corp. High-vacuum device. 2,784,373, 3-5-57, Cl. 324-33.
- Lawrence Brothers, Inc.: *See*—
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- Lawrence, Edward A., and P. Becher, to Colgate-Palmolive Co. Hydrolysis of castor oil. 2,801,257, 7-30-57, Cl. 260-415.
- Lawrence, Ernest O., to the United States of America as represented by the United States Atomic Energy Commission. Low voltage ion source. 2,785,311, 3-12-57, Cl. 250-41.9.
- Lawrence, Ernest O., to the United States of America as represented by the United States Atomic Energy Commission. Ion producing mechanism. 2,789,229, 4-16-57, Cl. 250-41.9.
- Lawrence, Ernest O., to Chromatic Television Laboratories, Inc. Electron focusing structure. 2,793,317, 5-21-57, Cl. 315-21.
- Lawrence, Henry C.: *See*—
Butler, George D., and Lawrence. 2,806,758.
- Lawrence Holdings (Overseas) Ltd.: *See*—
Lawrence, John W. 2,806,445.
- Lawrence, James C.: *See*—
Phillips, William I., and Lawrence. 2,781,535.
- Lawrence, John D. Electrical wiring device. 2,779,012, 1-22-57, Cl. 339-269.
- Lawrence, John R., to The Washburn Co. Double grid broiler, toaster or the like, and method of making same. 2,809,580, 10-15-57, Cl. 99-402.
- Lawrence, John W., to Lawrence Holdings (Overseas) Ltd. Tinning apparatus for strip metal. 2,806,445, 9-17-57, Cl. 118-69.
- Lawrence, Joseph D., Jr., to Sperry Rand Corp. Bi-directional parallel magnetic amplifier. 2,809,302, 10-8-57, Cl. 307-88.
- Lawrence, Kenneth M., and W. K. Rickel, to Geophysical Research Corp. Shot-hole drilling apparatus. 2,809,014, 10-8-57, Cl. 255-35.
- Lawrence, Leland E., to Allen-Bradley Co. Short stroke electro-magnetic actuator. 2,817,729, 12-24-57, Cl. 200-104.
- Lawrence, Leslie J., Sr. Fuel and air mixing valve. 2,798,705, 7-9-57, Cl. 261-44.
- Lawrence, Lewis W.: *See*—
Masters, Joseph H., Lawrence, and Masters. 2,796,203.
- Lawrence, Lewis W., and J. H. and E. L. Masters, to Masters Planter Co. Vibratory mechanism for material distributors. 2,796,202, 6-18-57, Cl. 222-233.
- Lawrence, Owen N., to Joseph Lucas Ltd. Means for controlling the speed of jet-propelled air craft, missiles or other aerial bodies by regulating the fuel supplied thereto in accordance with shock waves produced by the motion thereof. 2,796,730, 6-25-57, Cl. 60-35.6.
- Lawrence Paper Co., The: *See*—
White, Roger L. 2,809,775.
- Lawrence, Ralph E., to Ralston Mfg. Co. Sinkers for fish lines. 2,801,491, 8-6-57, Cl. 43-43.13.
- Lawrence, Richard L., to Cellulastic Corp. Closure arrangement for thin walled rigid plastic vial. 2,790,576, 4-30-57, Cl. 220-42.
- Lawrence, Robert W., to Hercules Powder Co. Initiating device and method of manufacture. 2,777,389, 1-15-57, Cl. 102-28.
- Lawrence, Walter P., and A. C. Salisbury. Multistage process bleaching of alkaline process wood pulps including an acid sour between two terminal alkaline hypochloride stages. 2,805,118, 9-3-57, Cl. 8-105.
- Lawrence, William J., M. M. and J. C. Kinley, said Lawrence assor. to said M. M. Kinley. Tools for cutting flexible lines. 2,794,619, 6-4-57, Cl. 255-34.
- Lawrence, William W.: *See*—
Haynes, Munro K., Lawrence, and Whitney. 2,800,280.
- Lawrenow, Edward A. Fluid operated predetermined load release torque wrench. 2,816,468, 12-17-57, Cl. 81-52.4.
- Lawrie, George C.: *See*—
Stovall, John R., Jr., Lawrie, and Craig. 2,779,217.
- Lawruszko, Stephen B.: *See*—
Kroczyński, Walter J., and Lawruszko. 2,792,655.
- Lawry, Clinton C., and B. A. Wells, to General Electric Co. Engine acceleration control system employing fuel flow, nozzle area, and temperature variations. 2,805,543, 9-10-57, Cl. 60-35.6.
- Lawry, Clinton C., and B. A. Wells, to General Electric Co. Control system having dynamic limit controls. 2,805,546, 9-10-57, Cl. 60-39.28.
- Lawser, John J., to Proctor Electric Co. Adjustable thermostatic control mechanism. 2,796,492, 6-18-57, Cl. 200-139.
- Lawshe, Errol R., and A. E. Krug, to Becton, Dickinson and Co. Syringe assembly. 2,805,662, 9-10-57, Cl. 128-216.
- Lawson, Alexander: *See*—
Rimington, Claude, Lawson, Searle, and Morley. 2,815,349.
- Lawson, E. P., Co., Inc.: *See*—
Seybold, Frederick W. 2,783,843.
- Seybold, Frederick W., and Herman. 2,798,967.
- Lawson, Frank L., to Candell & Johnson. Pivotally mounted guard for tractor chain and supporting rollers. 2,780,500, 2-5-57, Cl. 305-9.
- Lawson, Gottfrid C. Venetian blind bottom rail. 2,812,022, 11-5-57, Cl. 160-173.
- Lawson, Gustaf R., and K. C. Johnson, to General Electric Co. Portable auto trouble lamp. 2,784,305, 3-5-57, Cl. 240-8.18.
- Lawson, Gustaf R., and G. B. Benander, to General Electric Co. Toggle switch with shock absorber. 2,798,914, 7-9-57, Cl. 200-67.
- Lawson, Ivar S. Device for making measured indications on metal ribbon. 2,781,816, 2-19-57, Cl. 153-2.
- Lawson, Jerome J., to American Cyanamid Co. Process for thiamine purification. 2,801,245, 7-30-57, Cl. 260-256.6.
- Lawson, Robert B.: *See*—
Locke, Ralph S., Lawson, and Green. 2,784,062.
- Lawson, Robert H., to Scott & Williams, Inc. Knitting machine. 2,783,629, 3-5-57, Cl. 66-13.
- Lawson, Robert H., to Scott & Williams, Inc. Knitting machine. 2,783,630, 3-5-57, Cl. 66-149.
- Lawson, Robert H., to Scott & Williams Inc. Knitting machine. 2,797,566, 7-2-57, Cl. 66-24.
- Lawson, Robert H., and P. W. Bristow, to Scott & Williams, Inc. Knitting machine and method. 2,780,931, 2-12-57, Cl. 66-14.
- Lawson, Robert H., and S. R. Shelmire, to Scott & Williams, Inc. Apparatus for crinkling yarn. 2,812,569, 11-12-57, Cl. 28-1.

- Lawson, Shelby D., to Phillips Petroleum Co. Preparation of carbon black feed stocks and their conversion to carbon black. 2,794,710, 6-4-57, Cl. 23—209.4.
- Lawson, William A.: *See*—
Oldfield, James R., and Lawson. 2,798,006.
- Lawton, Oscar S., to Phillips-Jones Corp. Fabric particularly adapted for the manufacture of collars and the like. 2,811,177, 10-29-57, Cl. 139—385.5.
- Lawver, James E.: *See*—
Cook, Charles C., Jr., and Lawver. 2,782,923.
- Lawyer, James E., to International Minerals & Chemical Corp. Method for beneficiating potash materials. 2,805,768, 9-10-57, Cl. 209—11.
- Lawyer, James E., to International Minerals & Chemical Corp. Beneficiation of nonmetallic minerals. 2,805,769, 9-10-57, Cl. 209—11.
- Lawyer, James E., to International Minerals & Chemical Corp. Method of beneficiating multicomponent ore. 2,805,770, 9-10-57, Cl. 209—127.
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- Lax, Leona, to Sarong, Inc. Pantie girdle. 2,779,023, 1-29-57, Cl. 2—43.
- Lay, H. W., & Co., Inc.: *See*—
Smith, Horace L., Jr. 2,812,254.
- Lay, Samuel C. Broom. 2,781,538, 2-19-57, Cl. 15—174.
- Lay, Walter H., to C. W. Kandle. Mobile derrick for supporting verticle earth drills. 2,812,162, 11-5-57, Cl. 255—19.
- Layden, Lawrence M.: *See*—
Anderson, Nelson E., and Layden. 2,778,099.
- Layne, Joseph L., to Viewlex, Inc. Adjustable seat and swing. 2,793,679, 5-28-57, Cl. 155—58.
- Layne, Leo. Intercepting fuel distributor. 2,783,747, 3-5-57, Cl. 123—31.
- Layne, Leo. Engine fuel control system and apparatus. 2,809,621, 10-15-57, Cl. 123—119.
- Layte, Ralph R., and R. Wolk, to Purolator Products, Inc. Wound filter element. 2,816,665, 12-17-57, Cl. 210—494.
- Layton, Jack. Tankless coil water heater. 2,797,069, 6-25-57, Cl. 257—248.
- Lazarr, Thaddeus R. L., to Western Electric Co., Inc. Apparatus for molding material. 2,783,500, 3-5-57, Cl. 18—19.
- La-Z-Boy Chair Co.: *See*—
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Knabusch, Edward M., and Shoemaker. 2,779,392.
Knabusch, Edward M., and Shoemaker. 2,779,393.
Knabusch, Edward M., and Shoemaker. 2,781,823.
Knabusch, Edward M., and Shoemaker. 2,817,388.
- Lazier, Allan C., to Northrop Aircraft, Inc. Holding means for a manually operated hand tool. 2,787,302, 4-2-57, Cl. 144—32.
- Lazisky, Laura. Applicator for powders and liquids. 2,800,673, 7-30-57, Cl. 15—118.
- Lazott, Wesley E.: *See*—
Pozerycki, John W., Lazott, Flint, and Smith. 2,783,830.
Spang, Carl E., and Lazott. 2,784,448.
Spang, William F., and Lazott. 2,817,873.
- Lazzereschi, Carl E.: *See*—
Lazzereschi, Edward and C. E. 2,796,854.
Lazzereschi, Edward, and C. E. 2,813,661.
- Lazzereschi, Edward and C. E. Variable two speed engine control. 2,796,854, 6-25-57, Cl. 123—102.
- Lazzereschi, Edward, and C. E. Liquid-dispensing apparatus with multiple-speed controls. 2,813,661, 11-19-57, Cl. 222—63.
- Lea, Luke, Jr. Rock drills. 2,789,789, 4-23-57, Cl. 255—51.
- Leach, Albert E.: *See*—
Harbour, Albert S., and Leach. 2,800,805.
- Leach Brothers, Inc.: *See*—
Eckhardt, Owen S., and Knapp. 2,818,412.
- Leach, Byron E.: *See*—
Peterson, Durey H., and Leach. 2,779,705.
- Leach, Clayton B., to General Motors Corp. Engine interior ventilation system. 2,782,775, 2-26-57, Cl. 123—41.86.
- Leach, Clayton B., to General Motors Corp. Camshaft and fuel pump drive gear. 2,792,820, 5-21-57, Cl. 123—195.
- Leach, Harold H.: *See*—
Alford, Andrew, and Leach. 2,798,217.
- Leach, Hugh K., to The Murray Corp. of America. Washing machines. 2,813,413, 11-19-57, Cl. 63—12.
- Leach, James H.: *See*—
Evans, John G., Leach, and Meals. 2,786,734.
- Leach, John M. Endless conveyors. 2,808,146, 10-1-57, Cl. 198—189.
- Leadbetter, Gilbert E. Conduit and method of making same. 2,782,805, 2-26-57, Cl. 138—74.
- Leaf Brands, Inc.: *See*—
Spurlock, William H., Edmonds, and Evanson. 2,810,997.
- Leahy, Elizabeth P. and O. A. Spool system for deployment of parachutes from aircraft. 2,801,062, 7-30-57, Cl. 244—147.
- Leahy, John M.: *See*—
Beckner, Marshall H., and Leahy. 2,780,382.
- Leahy, Osmond A.: *See*—
Leahy, Elizabeth P. and O. A. 2,801,062.
- Leake, Frank H. Fishing rod support. 2,797,851, 7-2-57, Cl. 224—42.45.
- Leake, James A. Ash tray and receptacle. 2,801,020, 7-30-57, Cl. 220—4.
- Leal, Fred. Self-adjusting ham clamp. 2,792,866, 5-21-57, Cl. 146—218.
- Leaman, Wilbur K.: *See*—
Coonrad, Harry L., and Leaman. 2,786,876.
Coonrad, Harry L., Leaman, and Rope. 2,795,633.
- Leaming, Morrell Q., to Crown Zellerbach Corp. Coating roller doctoring means. 2,797,661, 7-2-57, Cl. 118—262.
- Leap, Gordon A., and D. M. Kaltenbacher, to Bendix Aviation Corp. Balanced demodulator in a balanced modulating system. 2,801,335, 7-30-57, Cl. 250—27.
- Lear, Earl B., to Chicago Pneumatic Tool Co. Boom actuating motor and locking means. 2,799,249, 7-16-57, Cl. 121—39.
- Lear, Earl B., and G. E. Hepola, to Chicago Pneumatic Tool Co. Lock for endless track. 2,796,301, 6-18-57, Cl. 305—1.
- Lear, Inc.: *See*—
Demetriou, Kimon C., and Fave. 2,814,744.
Eklund, Harry N. 2,778,986.
Hinsdale, James G. 2,815,455.
Lear, William P., and Barish. 2,800,024.
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Le Hew, George A. 2,779,175.
Mangel, Fred B. 2,816,183.
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- Lear, Joseph D., to Silver Creek Precision Corp. Aerosol generator. 2,778,679, 1-22-57, Cl. 299—63.
- Lear, Max M., Jr., to Monarch Electric Corp. Composite fuse link. 2,780,696, 2-5-57, Cl. 200—135.
- Lear, Max M., Jr., to Monarch Electric Corp. Electric fuse assembly. 2,810,042, 10-15-57, Cl. 200—131.
- Lear, Max M., Jr., to Monarch Electric Corp. Delay action fuse link and method of making. 2,810,043, 10-15-57, Cl. 200—135.
- Lear, William P., and E. F. O'Brien, to Lear, Inc. Instrument aid for aircraft radio navigation. 2,778,004, 1-15-57, Cl. 340—27.
- Lear, William P., and T. Barish, to Lear, Inc. Rate gyroscope with torsional suspension. 2,800,024, 7-23-57, Cl. 74—5.
- Learn, Clyde G., to E. I. du Pont de Nemours and Co. Process for coating nonfibrous organic sheet material. 2,808,340, 10-1-57, Cl. 117—47.
- Leary, Robert F.: *See*—
Nelson, Joseph F., Leary, and Welch. 2,800,465.
- Leas, Arnold M., to Ashland Oil & Refining Co. Process for separating waxes from oil. 2,799,623, 7-16-57, Cl. 196—18.
- Lease, Ralph D. Thrust bearing structure. 2,778,696, 1-22-57, Cl. 308—160.
- Leasia, John D., to The Budd Co. Work handling means for presses. 2,802,381, 8-13-57, Cl. 78—99.
- Leath, William J., and F. E. Bobo, Jr., to Patentex, Inc. Composite yarn. 2,778,187, 1-22-57, Cl. 57—140.
- Leathercraft, Inc.: *See*—
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- Leatherman, Earl W., to Goodyear Aircraft Corp. Fabric lacing edge. 2,795,830, 6-18-57, Cl. 24—141.
- Leathers, Clarence H.: *See*—
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- Leathers, L. M., Sons: *See*—
Smith, Lloyd B., and Leathers. 2,785,836.
- Leathers, Leon M.: *See*—
Smith, Lloyd B., and Leathers. 2,785,836.
- Leathers, Stephen R. and L. P. Sharon. Eraser holding attachment for pencils. 2,785,655, 3-19-57, Cl. 120—38.
- Leathers, Ward, and H. A. Panissidi, to International Business Machines Corp. Hydraulic drive and braking system. 2,799,994, 7-23-57, Cl. 60—53.
- Leavens, William B., Jr. Drier apparatus for printed sheets and means for loading same. 2,785,787, 3-19-57, Cl. 198—102.
- Leavenworth Steel, Inc.: *See*—
Haynes, William J. 2,776,684.
- Leavin, Samuel B., $\frac{1}{2}$ to W. H. Leavin, and $\frac{1}{2}$ to J. Aversa. Cosmetics applicator. 2,789,304, 4-23-57, Cl. 15—184.
- Leavin, William H.: *See*—
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- Leavitt, Julian J.: *See*—
Scalera, Mario, and Leavitt. 2,792,306.
- Leavitt, Julian J., to American Cyanamid Co. Optical bleaching compositions containing tertiary amino substituted 2-aryl aryleneazoles. 2,793,192, 5-21-57, Cl. 252—301.2.
- Leavitt, Julian J., and R. S. Long, to American Cyanamid Co. 6-amino-7,8-benzocarboxytrils. 2,781,345, 2-12-57, Cl. 260—288.
- Leb, Anton, H. Lidl, R. Gager, E. Muntean, E. Schauenstein, E. Keintzel, and K. Bolz, to Ryk-Gulden Lomborg, Chemische Fabrik G. m. b. H. X-ray method of digestive enzyme diagnosis using protected core of contrast agent. 2,801,203, 7-30-57, Cl. 167—95.
- Lebanon Steel Foundry: *See*—
Cowles, Roderick J., and Dubitzky. 2,803,859.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Process of beneficiating ores. 2,783,886, 3-5-57, Cl. 209—211.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Process for the manufacture of defluorinated phosphatic material. 2,795,484, 6-11-57, Cl. 23—108.
- Le Beau, Rée V., to Midwest Rubber Reclaiming Co. Rubber reclaimers and process for producing same. 2,783,213, 2-26-57, Cl. 260—2.3.

- Lebedeff, Yurii E.: See—
Von Stein, Paul W., and Lebedeff. 2,816,008.
- Lebedeff, Yurii E., and W. C. Klein, to American Smelting and Refining Co. Method of purifying of metallic indium. 2,797,159, 6-25-57, Cl. 75-84.
- Lebedeff, Yurii E., and W. H. Wetherill, to American Smelting and Refining Co. Method for increasing the germanium content of oxidic germanium-arsenic-zinc-containing material. 2,814,562, 11-26-57, Cl. 75-103.
- Lebeis, Edward H., Jr.: See—
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- Lebeis, Edward H., Jr., to Houdry Process Corp. Disengaging solids from lift gas. 2,786,722, 3-26-57, Cl. 302-62.
- Lebeis, Edward H., Jr., to Houdry Process Corp. Manufacture of gel beads. 2,813,836, 11-19-57, Cl. 252-448.
- Leber, Felix. Combination switch. 2,813,948, 11-19-57, Cl. 200-98.
- Lebeson, Herman. Method for processing fruits and the like. 2,783,153, 2-26-57, Cl. 99-129.
- Le Blanc, Ernest J. Loose pick shearing device for looms. 2,811,987, 11-5-57, Cl. 139-291.
- Leblond, André, to Compagnie Generale de Telegraphie Sans Fil. Magnetron tubes having adjustable frequency. 2,799,803, 7-16-57, Cl. 315-39.73.
- Le Blond, R. K., Machine Tool Co., The: See—
Meyer, Walter R., and Siekmann. 2,807,973.
Meyer, Walter R. and Siekmann. 2,807,974.
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- Lebocey, Bernard J. E., to D. I. Glossbrenner. Electro-mechanical lubricant distributor. 2,780,312, 2-5-57, Cl. 184-26.
- Lebocey, Bernard J. E. Yarn clearer for knitting machines. 2,804,761, 9-3-57, Cl. 66-163.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Lubricating seal for cables. 2,815,969, 12-10-57, Cl. 286-16.
- Lebowitz, Robert A., to Polytechnic Research & Development Co., Inc. Wide range oscillator. 2,778,941, 1-22-57, Cl. 250-36.
- Le Bus, Franklin L., Sr. Double acting overshot apparatus. 2,803,488, 8-20-57, Cl. 294-102.
- Le Bus, Franklin L., Sr., to The Wash Overshot and Spear Engineers, Inc. Drill collar retrieving mechanism. 2,804,151, 8-27-57, Cl. 166-103.
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- Le Caine, Hugh, to National Research Council. Intensity control device for electrical musical instrument. 2,809,547, 10-15-57, Cl. 84-126.
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- Lecca, Marguerite: See—
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- Lecher, Hans Z.: See—
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Whitehouse, Karl C., and Lecher. 2,799,701.
- Lechevalier, Hubert A.: See—
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- Lechtenberg, Leo J., to Briggs & Stratton Corp. Cooling system for air cooled internal combustion engine. 2,796,053, 6-18-57, Cl. 123-41.65.
- Lechtenberg, Leo J., to Briggs & Stratton Corp. Magneto internal combustion engine. 2,796,453, 6-18-57, Cl. 123-146.5.
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- Leck, George W., to Radio Corp. of America. Frequency modulation with gas cell control. 2,782,374, 2-19-57, Cl. 332-19.
- Leck, Robert F.: See—
Boicey, James H., and Leck. 2,810,668.
- Leckenby, Harry N. Horizontal blade weeding hoe. 2,787,204, 4-2-57, Cl. 97-68.
- Leckie, Janet: See—
Sell, Henry B., and Leckie. 2,779,681.
- Leckner, Walter J. Anchor for decoy ducks. 2,813,363, 11-19-57, Cl. 43-3.
- Le Clair, Camille C. S., to Tecalemit Ltd. Liquid or lubricant injectors. 2,785,770, 3-19-57, Cl. 184-7.
- Le Clair, Camille S., to The Parker Appliance Co. Apparatus for refueling in flight. 2,797,936, 7-2-57, Cl. 284-12.
- Le Clerc, Bruno M. J., to Compagnie des Machines Bull (Societe Anonyme). Pulse reshaper. 2,806,139, 9-10-57, Cl. 250-27.
- Le Clercq, Leon J., to Gladding, McBean & Co. Means and method of grinding polygonal articles. 2,787,871, 4-9-57, Cl. 51-110.
- Lecluyse, Edouard: See—
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- Lecluyse, Edouard, and A. Quinche, to Unitubo S. A. Apparatus for printing on plastic surfaces. 2,802,412, 8-13-57, Cl. 101-36.
- Le Comte, Corstiaan, to North American Philips Co., Inc. Device for producing a voltage varying linearly with the sine of an input angle. 2,797,864, 7-2-57, Cl. 235-61.
- Le Corre, Joseph: See—
Cardot, Jean, and Le Corre. 2,790,994.
Cardot, Jean, and Le Corre. 2,792,591.
- Lecton, Frank J., to Monsanto Chemical Co. Grinding wheels. 2,793,105, 5-21-57, Cl. 51-298.
- Lectromatic Devices, Inc.: See—
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- Le Dain, Harvey J.: See—
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- Ledbetter, Jerry T.: See—
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- Leddy, Roy C. Key case. 2,800,941, 7-30-57, Cl. 150-40.
- Leder, Joseph: See—
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- Lederer, Albrecht M., to Swift & Co. Cheese manufacture. 2,816,036, 12-10-57, Cl. 99-116.
- Lederer, Edgar, J. M. Asselineau, and H. Bloch, to Ciba Pharmaceutical Products, Inc. Acylated products. 2,802,819, 8-13-57, Cl. 260-210.
- Lederer, Ernest A., to Westinghouse Electric Corp. Cathode. 2,777,086, 1-8-57, Cl. 313-193.
- Lederer, Harold G., to R. M. Hollingshead Corp. Corrosion-inhibited quaternary ammonium compositions. 2,786,797, 3-26-57, Cl. 167-30.
- Lederer, Karl M., to Weston Electrical Instrument Corp. Instruments with permanent magnet cores. 2,808,567, 10-1-57, Cl. 324-151.
- Lederer, Lester C. Digging machine. 2,801,012, 7-30-57, Cl. 214-138.
- Ledgerwood, Joe. Mailbox structure. 2,781,964, 2-19-57, Cl. 232-17.
- Ledgerwood, Leroy W., Jr., to Esso Research and Engineering Co. Momentum pellet impact drilling apparatus. 2,807,442, 9-24-57, Cl. 255-61.
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- Ledinegg, Max, to Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau. Gas-turbine. 2,782,000, 2-19-57, Cl. 253-39.15.
- Ledinegg, Max, 1/2, to Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau. Gas turbine having means for cooling the stator. 2,812,156, 11-5-57, Cl. 253-39.1.
- Le Donne, Vincent. Hair trimming template. 2,781,048, 2-12-57, Cl. 132-45.
- Leduc, Jean F. Push cart type ice rink resurfacing machine. 2,795,870, 6-18-57, Cl. 37-13.
- Leduc, René. Plural annular coaxial combustion chambers. 2,787,120, 4-2-57, Cl. 60-39.69.
- Leduc, René. Hydraulic servo-system. 2,804,753, 9-3-57, Cl. 60-97.
- Ledwith, Walter A., to United Aircraft Corp. Blade locking device. 2,786,648, 3-26-57, Cl. 253-77.
- Lee, Albert F. Cannula. 2,813,531, 11-19-57, Cl. 128-350.
- Lee, Arthur L., to Pittsburgh Consolidation Coal Co. Hydraulically controlled transmission. Re. 24,327, 6-11-57, Cl. 74-360.
- Lee, Bernard, to Vickers Inc. Self-saturating reactor circuit. 2,780,770, 2-5-57, Cl. 323-89.
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- Lee, Bernard, to Vickers Inc. Self-saturating reactor circuits. 2,780,772, 2-5-57, Cl. 323-89.
- Lee, Burton D., to The Texas Co. Method and apparatus for analysis of seismographic records. 2,800,639, 7-23-57, Cl. 340-15.
- Lee, Chester M. Wall attached folding table. 2,817,571, 12-24-57, Cl. 312-313.
- Lee, Chi-Yuan: See—
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- Lee, Cornelia D. Child's coaxer feeding vessel. 2,781,650, 2-19-57, Cl. 65-15.
- Lee, David F., to Electric & Musical Industries Ltd. Synchronising circuit arrangements. 2,785,807, 3-12-57, Cl. 250-36.
- Lee, Donald H., to Burroughs Corp. Magnetic switching element driver circuits. 2,782,324, 2-19-57, Cl. 307-88.
- Lee, Donald H., to Burroughs Corp. Counter circuit. 2,807,748, 9-24-57, Cl. 315-8.5.
- Lee, Donald H., to Burroughs Corp. Resettable variable radix counter. 2,808,535, 10-1-57, Cl. 315-8.5.
- Lee, Donald H., to Burroughs Corp. Code typer. 2,810,785, 10-22-57, Cl. 178-79.
- Lee, Donald H., to Burroughs Corp. Code typer. 2,810,903, 10-22-57, Cl. 340-348.
- Lee, Donovan H. Bar gripping means for use in the production of prestressed concrete. 2,783,024, 2-26-57, Cl. 254-29.
- Lee, Doran M., and G. Ruoff. Folding play pens. 2,814,051, 11-26-57, Cl. 5-99.
- Lee, Edison G., and H. P. Brush, to Diamond Alkali Co. Method of inhibiting waxy deposits in oil wells and compositions therefor. 2,805,200, 9-3-57, Cl. 252-8.55.
- Lee, Edward C., to the United States of America as represented by the Secretary of the Army. Sear device for an automatic firearm. 2,776,600, 1-8-57, Cl. 89-136.
- Lee, Edward C., to the United States of America as represented by the Secretary of the Army. Sear device for an automatic firearm. 2,776,601, 1-8-57, Cl. 89-136.
- Lee, Edward C., to the United States of America as represented by the Secretary of the Army. Sear device for an automatic firearm. 2,805,605, 9-10-57, Cl. 89-136.
- Lee, Edward L. Husking machine. 2,792,005, 5-14-57, Cl. 130-5.

- Lee Engineering Co.: *See*—
Gambardella, Carmine J. 2,796,150.
- Lee, Ferman N., and H. G. Shaw, to United Shoe Machinery Corp. Heel seat fitting machines. 2,798,235, 7-9-57, Cl. 12—31.5.
- Lee Foundation For Nutritional Research: *See*—
Lee, Royal. 2,784,960.
- Lee, Frank H., Co., The: *See*—
Trimpert, Raymond J. 2,776,435.
- Lee, Geo. H., Co.: *See*—
Smith, James T. 2,800,425.
- Lee, George H., to The Glacier Metal Co. Ltd. Centrifugal oil cleaners. 2,799,448, 7-16-57, Cl. 233—24.
- Lee, George H., to Albion Motors Ltd. Valve mechanism for an engine. 2,813,520, 11-19-57, Cl. 123—90.
- Lee, Grover C. Gun sight. 2,817,904, 12-31-57, Cl. 33—58.
- Lee, Harold J., to Cody Gas Co. Insertable stopper valve. 2,780,244, 2-5-57, Cl. 138—94.
- Lee, Harry E.: *See*—
Browning, Randolph M., and Lee. 2,818,003.
- Lee, James W.: *See*—
Papanoli, Michael E., and Lee. 2,778,341.
Papanoli, Michael E., and Lee. 2,785,658.
- Lee, John, and A. Ziering, to Hoffmann-La Roche Inc. Piperidine derivatives and preparation thereof. 2,798,073, 7-2-57, Cl. 260—294.3.
- Lee, John, and A. Ziering, to Hoffmann-La Roche Inc. Heterocyclic esters and the preparation thereof. 2,802,822, 8-13-57, Cl. 260—239.
- Lee, John A., H. A. Barclay, and M. O. Johnson, to Socony Mobil Oil Co., Inc. Tool for fracturing earth formations. 2,776,014, 1-1-57, Cl. 166—177.
- Lee, John B.: *See*—
Noyes, Elliot F., De Salvo, and Lee. 2,777,381.
- Lee, John C., to Mr. Robot, Inc. Pump. 2,804,023, 8-27-57, Cl. 103—149.
- Lee, John G., to United Aircraft Corp. Fluid flow measuring device. 2,779,193, 1-29-57, Cl. 73—194.
- Lee, John G., and R. C. Mulready, to United Aircraft Corp. Multi-unit ramjet. 2,782,593, 2-26-57, Cl. 60—35.6.
- Lee, John G., and C. B. Smith, to Chance Vought Aircraft, Inc. Supersonic flight control device. 2,805,031, 9-3-57, Cl. 244—42.
- Lee, John W. Free center device. 2,798,396, 7-9-57, Cl. 82—33.
- Lee, Ling H. Closure for receptacle. 2,804,225, 8-27-57, Cl. 215—43.
- Lee, Luther E. Pump. 2,802,424, 8-13-57, Cl. 103—49.
- Lee, Lyman S., and K. A. Ray, to Jack & Heintz, Inc. Reversible overrunning clutch. 2,797,783, 7-2-57, Cl. 192—43.
- Lee, Malcolm J. Control for power lift means regulating depth of tractor propelled implements. 2,804,005, 8-27-57, Cl. 97—46.07.
- Lee, Norman E., to the United States of America as represented by the Secretary of the Army. Seal and shock mount. 2,803,372, 8-20-57, Cl. 220—46.
- Lee, Oscar C. Rodent exterminating apparatus. 2,783,581, 3-5-57, Cl. 43—124.
- Lee, Patrick. Anti-kickback work feeding pusher saw attachment. 2,788,032, 4-9-57, Cl. 143—51.
- Lee, Patrick. Safety attachment to power saws. 2,799,303, 7-16-57, Cl. 143—51.
- Lee, Paul A. Support for a table knife. 2,789,349, 4-23-57, Cl. 30—296.
- Lee, Paul H.: *See*—
Powell, Robert W., and Lee. 2,777,812.
- Lee, Pete E., and W. D. Hussey. Transport for mobile irrigation apparatus. 2,791,442, 5-7-57, Cl. 280—410.
- Lee, Pyungtoo W., and B. L. Weller, to Vitramon Inc. Methods for making composite electric circuit components. 2,779,975, 2-5-57, Cl. 18—47.5.
- Lee, Ray E.: *See*—
Ernst, Wentworth A., Parr, Evans, and Lee. 2,813,047.
Sunderlin, Joseph E., and Lee. 2,814,737.
- Lee, Richard M. Micro-pin socket. 2,799,011, 7-9-57, Cl. 339—256.
- Lee, Robert A., to The Keleket X-Ray Corp. X-ray apparatus. 2,813,204, 11-12-57, Cl. 250—239.
- Lee, Robert E. Remote control for electrical generators. 2,803,795, 8-20-57, Cl. 322—28.
- Lee, Royal, to Lee Foundation For Nutritional Research. Reduction of metallic sulfide ores. 2,784,960, 3-12-57, Cl. 266—24.
- Lee, Sen L. Device for regulating the speed of vehicles. 2,816,617, 12-17-57, Cl. 180—82.1.
- Lee, Thomas O., to Premier Thread Co. Bowstring kit package. 2,803,337, 8-20-57, Cl. 206—47.
- Lee, Walter. Work holding clamp and grill jig. 2,814,218, 11-26-57, Cl. 77—62.
- Lee, Wesley B., 50% to B. C. Spivey, and 50% to L. Spivey, Jr. Pie mold. 2,780,163, 2-5-57, Cl. 99—375.
- Lee, William M., to The Pennsylvania Salt Mfg. Co. Control of trash fish. 2,790,267, 4-30-57, Cl. 43—124.
- Lee, William M., and L. P. Muller, to Pennsalt Chemical Corp. Treatment of plastics. 2,805,964, 9-10-57, Cl. 117—139.5.
- Lee, William S., to the United States of America as represented by the Secretary of the Navy. Pulse switching apparatus. 2,817,772, 12-24-57, Cl. 307—88.5.
- Lee, Wing W. Telescopically adjustable garment hanger. 2,800,261, 7-23-57, Cl. 223—94.
- Leebardt, Alfred A.: *See*—
Kovacs, Julius P., and Leebardt. 2,816,663.
- Leebow, Albert A., to Berkeley Industries. Garment hanger support. 2,791,335, 5-7-57, Cl. 211—113.
- Leebrick, John R.: *See*—
Frank, Charles E., and Leebrick. 2,816,913.
Frank, Charles E., and Leebrick. 2,816,914.
- Leece-Neville Co., The: *See*—
Gilchrist, Albert D. 2,781,486.
Gilchrist, Albert D. 2,795,715.
Hallidy, William M. 2,789,265.
- Leech, Laurence A., to Millars' Machinery Co. Ltd. Belt conveyor. 2,792,101, 5-14-57, Cl. 198—57.
- Leech, Robert R., to The Ducon Co. Apparatus and process for collecting fine particles. 2,811,222, 10-29-57, Cl. 183—25.
- Leeds, Harry R., to The Perma-Stamp Products Corp. Process for making micro-reticulated material. 2,777,824, 1-15-57, Cl. 260—2.5.
- Leeds, Laurence M., to General Electric Co. Wave generation circuits. 2,797,317, 6-25-57, Cl. 250—27.
- Leeds and Northrop Co.: *See*—
Baum, Frederick J., Jr. 2,788,702.
Bristol, Edward S. 2,806,192.
Connor, John A. 2,808,546.
Davis, Elwood T. 2,797,291.
Davis, Elwood T. 2,804,268.
Hance, Richard J., Spengel, Vandeventer, and Steinbright. 2,815,500.
Machler, Raymond C. 2,813,203.
Pfaffhausen, Herbert L. 2,793,815.
Scutt, Edwin D. 2,784,912.
Vandeventer, David. 2,808,549.
- Leeds, Winthrop M.: *See*—
Baker, Benjamin P., and Leeds. 2,806,111.
- Leeds, Winthrop M., to Westinghouse Electric Corp. Circuit interrupter. 2,780,699, 2-5-57, Cl. 200—150.
- Leeds, Winthrop M., to Westinghouse Electric Corp. Circuit interrupters. 2,806,110, 9-10-57, Cl. 200—145.
- Leef, Charles R.: *See*—
Greene, Lawrence P., Leef, and Fellers. 2,799,160.
- Leek, Wayne E., C. H. Morse, and C. C. Webb, to Remington Arms Co., Inc. Machine gun. 2,782,688, 2-26-57, Cl. 89—199.
- Leeman, Jan N. J., and F. J. Fontein, to Stamicarbon N. V. Process for separating mixture of solid particles into fractions by means of a hydrocyclone. 2,817,441, 12-24-57, Cl. 209—211.
- Leeming, Lloyd R. Cleaning brush and scraper for elongated cylindrical work items. 2,807,814, 10-1-57, Cl. 15—111.
- Leens, André. Multiple combination display installation. 2,783,519, 3-5-57, Cl. 24—255.
- Leeper, Harold M., to Monsanto Chemical Co. Promoting reaction of butyl rubber and carbon black with halogen. 2,806,833, 9-17-57, Cl. 260—41.5.
- Leeper, William W. Connector for uniting coaxial cables. 2,805,399, 9-3-57, Cl. 333—6.
- Leermakers, John A.: *See*—
Yutzy, Henry C., and Leermakers. 2,716,030.
- Lees, James, and Sons Co.: *See*—
Ballard, Hyde W. 2,797,711.
Brennan, William J. 2,806,283.
Ebersold, William. 2,784,414.
Ebersold, William. 2,784,688.
Janney, Thomas T., and Patterson. 2,807,283.
Janney, Thomas T., and Smith. 2,804,835.
Lyle, Charles. 2,783,776.
McNitt, John. 2,818,034.
Nowicki, Henry F. 2,800,149.
Smith, John E. 2,782,741.
Smith, John E. 2,782,905.
- Lees, Thomas M.: *See*—
Sobin, Ben A., English, Lees, and Routien. 2,787,580.
Tanner, Fred W., Jr., Lees, and Routien. 2,785,104.
Tanner, Fred W., Jr., Lees, and Routien. 2,796,379.
- Leesemann, Charles J. G., to Esso Research and Engineering Co. Fractionation process. 2,785,112, 3-12-57, Cl. 202—49.
- Leeson, Edward J.: *See*—
Kreager, Richard M., and Leeson. 2,812,318.
- Leeth, Ashby L. Apparatus for repairing tires. 2,814,830, 12-3-57, Cl. 18—18.
- Le Fave, Gene M.: *See*—
Demetriou, Kimon C., and Le Fave. 2,814,744.
- LeFave, Gene M. Cleavage of polysulfones. 2,784,210, 3-5-57, Cl. 260—464.
- Lefcourt, Stanley W., and R. Mayer, to Sylvania Electric Products Inc. Induction flash welder. 2,798,927, 7-9-57, Cl. 219—9.5.
- Le Febvre Corp.: *See*—
Drommer, William L. 2,792,944.
- Le Febvre, Alfred L., and H. D. Rice, to Stanley Home Products, Inc. Construction for brush or the like. 2,781,537, 2-19-57, Cl. 15—146.
- Le Febvre, Alfred L., A. O. Johnson, and D. M. Small, to Stanley Home Products, Inc. Connecting device. 2,797,968, 7-2-57, Cl. 306—19.
- Le Febvre, Alfred L., and M. C. Bailey, to Stanley Home Products, Inc. Dispenser. 2,798,230, 7-9-57, Cl. 4—227.
- Lefebvre, Frank J.: *See*—
Volckening, Lloyd I., and Lefebvre. 2,801,002.
Volckening, Lloyd I., O'Meara, and Lefebvre. 2,783,877.

- Lefebvre, Frank J., to Ivers-Lee Co. Sealed package. 2,793,743, 5-28-57, Cl. 206-46.
- Lefebvre, Maurice L.: *See—*
Vanier de Saint Aunay, Rene M. H. and Lefebvre. 2,813,864.
- Lefebvre, Paul A. Folding camp tent. 2,793,646, 5-28-57, Cl. 135-1.
- Lefere Forge & Machine Co.: *See—*
Lefere, Maurice P. 2,804,790.
- Lefere, Maurice P., to Lefere Forge & Machine Co. Method and apparatus for forging. 2,804,790, 9-3-57, Cl. 78-9.
- Leff, Cecil, and L. M. Jodoin, to Lear, Inc. Switching device. 2,814,679, 11-26-57, Cl. 200-11.
- Leff, Cecil, and G. H. Janson, to Lear, Inc. Electromagnetic fluid mixture clutch. 2,815,106, 12-3-57, Cl. 192-21.5.
- Leff, Morris. Cervical shield. 2,818,064, 12-31-57, Cl. 128-127.
- Leffer, Frederick W., to Universal Oil Products Co. Process and apparatus for the conversion of hydrocarbonaceous substances. 2,785,110, 3-12-57, Cl. 196-52.
- Lefferdink, Theodore B.: *See—*
Stanton, George W., Lefferdink, and Spence. 2,790,700.
- Leffingwell Chemical Co.: *See—*
Allison, John R., and Hewitt. 2,813,014.
- Leffingwell, Wallace B., and C. W. Weesner, to Sharon Steel Corp. Method of making deep drawing stainless steel. 2,808,353, 10-1-57, Cl. 148-12.
- Leffler, Nils G., to Svenska Cellulosa Aktiebolaget. Log-centering feed mechanism for debarking machine. 2,794,466, 6-4-57, Cl. 144-247.
- Leffler, Robert: *See—*
Negrin, David A., and Leffler. 2,799,846.
- Leffie, Frank M., to Baljak Corp. High speed feeding mechanism for folding box machines. 2,805,060, 9-3-57, Cl. 271-11.
- Lefke, Harry. Tire spreader. 2,784,937, 3-12-57, Cl. 25-50.3.
- Le Foll, Jean: *See—*
Meulien, Henri L. P., Baraut, and Le Foll. 2,814,930.
- Le Foll, Jean, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Aerodynamic valve arrangement. 2,795,931, 6-18-57, Cl. 60-39.77.
- Le Foll, Jean, and J. H. Bertin, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Pulse jet engines with a rearwardly opening air inlet. 2,812,635, 11-12-57, Cl. 60-35.6.
- Leffrancois, Philip A., to The M. W. Kellogg Co. Improved method of preparing alumina. 2,787,522, 4-2-57, Cl. 23-143.
- Leffrancois, Philip A., to The M. W. Kellogg Co. Molybdenum oxide catalyst production. 2,794,005, 5-28-57, Cl. 252-465.
- Leffrancois, Philip A., E. W. Riblett, and W. P. Burton, to The M. W. Kellogg Co. Reactions catalyzed by platinum or palladium catalysts. 2,777,805, 1-15-57, Cl. 196-50.
- Leffrancois, Philip A., E. W. Riblett, and W. P. Burton, to The M. W. Kellogg Co. Group 111 metal compound promoted platinum or palladium catalyst. 2,814,599, 11-26-57, Cl. 252-466.
- Leffrancois, Philip A., W. P. Burton, and E. W. Riblett, to The M. W. Kellogg Co. Method of preparing a catalyst. 2,818,393, 12-31-57, Cl. 252-466.
- Leftwich, Robert G. Insect destroyer. 2,799,116, 7-16-57, Cl. 43-113.
- Legat, Robert C., to The G. E. Prentice Mfg. Co. Yieldable belt connection. 2,794,226, 6-4-57, Cl. 24-163.
- Legat, Robert C., to G. E. Prentice Mfg. Co. Belt connection. 2,807,849, 10-1-57, Cl. 24-74.
- Legat, Robert C., to G. E. Prentice Mfg. Co. Belt connection. 2,807,851, 10-1-57, Cl. 24-170.
- Legat, Robert C., to The G. E. Prentice Mfg. Co. Key support. 2,808,718, 10-8-57, Cl. 70-456.
- Legat, Robert C., to The G. E. Prentice Mfg. Co. Automatic lock slider for fasteners. 2,810,945, 10-29-57, Cl. 24-205.14.
- LeGate, Clifford W. Newspaper type chase. 2,785,630, 3-19-57, Cl. 101-394.
- LeGate, Clifford W. Matrix register and trimmer. 2,785,747, 3-19-57, Cl. 164-45.
- Legatski, Theodore W., and J. W. Tooke, to Phillips Petroleum Co. Method for testing natural gas. 2,783,640, 3-5-57, Cl. 73-23.
- Leger, Marcel A.: *See—*
Turpin, Raphael M., and Leger. 2,808,458.
- Legeza, Thomas B.: *See—*
Eskin, Samuel G., and Legeza. 2,811,312.
Eskin, Samuel G., and Legeza. 2,815,035.
- Legeza, Thomas B., to The Dole Valve Co. Thermostatically operated valve. 2,811,313, 10-29-57, Cl. 236-34.
- Legeza, Thomas B., and E. E. Modes, to The Dole Valve Co. Room air conditioner control circuit. 2,778,197, 1-22-57, Cl. 62-4.
- Legg, Lawrence E. Means for clearing carbon grounds. 2,777,042, 1-8-57, Cl. 219-19.
- Leggat, John W., to General Motors Corp. Means permitting lower and unobstructive vehicle floor construction. 2,809,707, 10-15-57, Cl. 180-73.
- Legge, George D., to General Motors Corp. Ash tray. 2,812,097, 11-5-57, Cl. 220-18.
- Legge, Walter G. Floor brush. 2,796,621, 6-25-57, Cl. 15-202.
- Leggett, Jasper R.: *See—*
Garvin, Walter W., and Leggett. 2,801,794.
- Legler, Raymond W. Vapor degreaser. 2,816,065, 12-10-57, Cl. 202-170.
- Legnani, Gianfranco: *See—*
Chiovato, Luigi, and Legnani. 2,817,879.
- Lego, Hallie G., to Worldsbest Industries, Inc. Clothes drier. 2,794,556, 6-4-57, Cl. 211-178.
- Lego, John H.: *See—*
Allen, Richard C., and Lego. 2,807,704.
- Le Gore, William M. Variable stroke fluid drive mechanism. 2,816,507, 12-17-57, Cl. 103-16.
- Le Grand, Pierre E., G. R. Pease, and T. E. Kihlgren, to The International Nickel Co., Inc. Coated electrode particularly suited for welding dissimilar metals. 2,798,824, 7-9-57, Cl. 117-206.
- Legros, Robert G. Distant control device for rotatingly positioning a shaft on precise preset positions. 2,802,978, 8-13-57, Cl. 318-467.
- Lehane, Timothy J.: *See—*
Gillick, Laurence H., and Lehane. 2,801,801.
- Lehane, Timothy J., and W. M. Smith, to Vapor Heating Corp. Heating system for railway car. 2,791,381, 5-7-57, Cl. 237-5.
- Lehde, Henry C., to Control Instrument Co. Torque transmitting device. 2,807,734, 9-24-57, Cl. 310-103.
- Lehde, Henry C., to Control Instrument Co. Latitude correction systems for stable element. 2,813,430, 11-19-57, Cl. 74-5.4.
- Lehde, John W., Jr.: *See—*
Better, Bernard R., and Lehde. 2,791,304.
- Lehder, Robert. Fire extinguisher tree decoration device. 2,800,187, 7-23-57, Cl. 169-26.
- Le Hew, George A., to Lear, Inc. Friction disc for a slipping type clutch. 2,779,175, 1-29-57, Cl. 64-80.
- Lehigh Valley Coal Sales Co.: *See—*
Birch, Charles K. 2,780,187.
- Lehman, Charles F., Jr., $\frac{1}{2}$ to A. Bronston. Writing instrument. 2,782,764, 2-26-57, Cl. 120-102.
- Lehman, Charles F., Jr., and D. A. McAninch. Clarinet and like wind instrument. 2,789,455, 4-23-57, Cl. 84-382.
- Lehman, George A. Barrel lock for rifles. 2,817,172, 12-24-57, Cl. 42-1.
- Lehman, Harry H.: *See—*
Brooks, Frank M. 2,788,915.
- Lehman, Herbert A., to Barber Greene Co. Crowding speed adapter drive train for tractors. 2,795,286, 6-11-57, Cl. 180-53.
- Lehman, Irvin H. Liquid metering device. 2,795,359, 6-11-57, Cl. 222-249.
- Lehman, Samuel K.: *See—*
Thomas, Louis G. L., and Lehman. 2,815,683.
Thomas, Louis G. L., and Lehman. 2,815,922.
- Lehmann, Ernest Henry, to The Haloid Co. Prevention of undercutting of latent xeroradiographic images. 2,802,949, 8-13-57, Cl. 250-65.
- Lehmann, Herbert G., to Casco Products Corp. Steam pressing iron. 2,777,224, 1-15-57, Cl. 38-77.
- Lehmann, J. M., Co., Inc.: *See—*
Linden, Gosta R. 2,781,541.
Linden, Gosta R. 2,805,028.
- Lehmann, Willi, to Westinghouse Electric Corp. Method of forming a uniform layer of luminescent material on a surface. 2,798,821, 7-9-57, Cl. 117-21.
- Lehmann, Wolfgang: *See—*
Kleiner, Helmut, and Lehmann. 2,779,686.
Kleiner, Helmut, and Lehmann. 2,800,417.
Reinartz, Kurt, Graulich, Lehmann, and Kleiner. 2,780,562.
- Lehmberg, William H.: *See—*
Cammagna, Frank T., Foggett, and Lehmberg. 2,783,474.
- Lehn & Fink Products Corp.: *See—*
Obladen, Albert, and Deutsch. 2,817,622.
- Lehner, William L.: *See—*
Carlsen, Carl F., and Lehner. 2,779,385.
- Lehning, J. Philip, to International Harvester Co. Method for making serrated-head bolts. 2,814,059, 11-26-57, Cl. 10-27.
- Lehovec, Kurt, to the United States of America as represented by the Secretary of the Army. Photon modulation in semiconductor. 2,776,367, 1-1-57, Cl. 250-7.
- Lehovec, Kurt, to Sprague Electric Co. Multiple junction transistor unit. 2,779,877, 1-29-57, Cl. 250-211.
- Lehovec, Kurt, to Sprague Electric Co. Transistor construction. 2,792,539, 5-14-57, Cl. 317-235.
- Lehovec, Kurt, to Sprague Electric Co. Transistor construction. 2,795,743, 6-11-57, Cl. 317-235.
- Lehr Brothers: *See—*
Lehr, Leo. 2,816,777.
- Lehr, Carlton G.: *See—*
Amsden, Chester C., and Lehr. 2,811,670.
Kline, Jack, and Lehr. 2,817,790.
- Lehr, Carlton G., and E. M. Sparrow, to the United States of America as represented by the Secretary of the Army. Cooling means. 2,818,237, 12-31-57, Cl. 257-263.
- Lehr, Donald H., to C. Howard Hunt Pen Co. Broad stroke pen. 2,796,047, 6-18-57, Cl. 120-111.
- Lehr, Leo, to Lehr Brothers. Implement hitch. 2,816,777, 12-17-57, Cl. 280-456.
- Lehr, Philip N., and G. W. O'Brien, to Dictograph Products Co., Inc. Telephone switch mechanism. 2,802,904, 8-13-57, Cl. 179-99.

- Lehre, Otto, to Sterling Plastics Co. Calculator. 2,797,047, 6-25-57, Cl. 235-74.
- Lehrer, Erwin, and K. Buschmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetylene by incomplete combustion of hydrocarbons. 2,812,374, 11-5-57, Cl. 260-679.
- Lehrer, Norman H., to Tung-Sol Electric Inc. Ion chamber amplifier tube. 2,811,660, 10-29-57, Cl. 313-54.
- Lehrer, William M.: *See—*
- Briggs, Lloyd A., Lehrer, and Eisner. 2,786,401.
- Eisner, Burton D., Miller, and Lehrer. 2,783,697.
- Lehrke, Roger A. Cable protector. 2,812,380, 11-5-57, Cl. 174-41.
- Lehr, Maurice L. Projection strip easel. 2,803,164, 8-20-57, Cl. 88-24.
- Leibensberger, Harry W. Film splicer and marker. 2,775,995, 1-1-57, Cl. 154-421.
- Leibing, William E. Piston for fuel injection pumps. 2,790,685, 4-30-57, Cl. 309-12.
- Leibinger, Ludwig, and H. G. Frank. Biopsy punch. 2,778,357, 1-22-57, Cl. 128-2.
- Leibow, Saul. Combination cigarette dispenser, support and lighter. 2,782,910, 2-26-57, Cl. 206-414.
- Leibow, Saul. Spoon packet. 2,812,577, 11-12-57, Cl. 30-324.
- Leibowitz, Jack R.: *See—*
- Jacobs, Harold, Leibowitz, and Ramsa. 2,803,569.
- Leibundgut, Alfred, to Gebrüder Buhler. Racking rod loading apparatus for alimentary paste products. 2,800,088, 7-23-57, Cl. 107-14.
- Leicester, Lovell & Co., Ltd.: *See—*
- Collinson, Harold A. 2,789,098.
- Leich Electric Co.: *See—*
- Safarik, Edgar R. 2,812,387.
- Leichensring, Max. Window-operated vehicle door lock. 2,788,966, 4-16-57, Cl. 268-122.
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- Froehlich, Kurt, Grieshaber, and Leichtfuss. 2,810,375.
- Leigh, Albert: *See—*
- Roxburgh, Albert, and Leigh. 2,794,886.
- Leigh, Robert L., to Air Control Products, Inc. Air distributing register. 2,811,096, 10-29-57, Cl. 98-106.
- Leigh, Theodore M., to Link-Belt Speeder Corp. Control lever mechanisms. 2,803,972, 8-27-57, Cl. 74-531.
- Leightner, Donald B., and R. R. Hayes, to Reliance Electric & Engineering (Canada) Ltd. Transformer tank. 2,816,947, 12-17-57, Cl. 174-18.
- Leighton, Francis, to Aeroquip Corp. Flexible fluid line coupling. 2,778,661, 1-22-57, Cl. 285-110.
- Leiman, Marcel J. Diamond polishing adjusting device and dop. 2,817,194, 12-24-57, Cl. 51-229.
- Leinweber, Robert L., to The Ajax Mfg. Co. Automatic transfer mechanism for forging machines and the like. 2,796,616, 6-25-57, Cl. 10-12.
- Leiper, John W. G., and T. I. Watkins, to Boots Pure Drug Co., Ltd. Piperazine carbondisulphide complex antelmintic compositions and method of using same. 2,814,583, 11-26-57, Cl. 167-53.
- Leippe, Richard M., to Westinghouse Electric Corp. Magnetic shunt structure for induction meters. 2,813,252, 11-12-57, Cl. 324-137.
- Leirer, Gordon H., to International Harvester Co. Fuel tank and baffle assembly. 2,806,622, 9-17-57, Cl. 220-5.
- Leirer, Walter. Cutting machine for cutting extruded plastics. 2,798,548, 7-9-57, Cl. 164-48.
- Leis, Donald G.: *See—*
- Mills, Edward J., Jr., and Leis. 2,788,373.
- Leiser, John E. Fishing bobber. 2,775,843, 1-1-57, Cl. 43-44.95.
- Leishman, Leroy J.: *See—*
- Yerkovich, Simon. 2,811,251.
- Leishman, Le Roy J. Transmission of colored television images. 2,790,025, 4-23-57, Cl. 178-54.
- Leishman, Le Roy J. X-ray spot film devices. 2,817,766, 12-24-57, Cl. 250-66.
- Leishman, Le Roy J., and S. Yerkovich. Radiographic devices. 2,811,648, 10-29-57, Cl. 250-66.
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- Leistensnider, George F., to Johns-Manville Corp. Polychloroprene-palm oil packing composition. 2,813,084, 11-12-57, Cl. 260-23.7.
- Leister, Robert E., to Westinghouse Electric Corp. Frequency-shift transmitter. 2,785,310, 3-12-57, Cl. 250-36.
- Leitenberger, William C.: *See—*
- Portzer, Lloyd B., and Leitenberger. 2,814,590.
- Leith, Martin L., Jr. Electromagnetic pipe line clean-out means. 2,812,921, 11-12-57, Cl. 254-134.5.
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- Tobiasz, Albin T. 2,786,240.
- Leitner, Karl, to General Refractories Co. Arc furnace roof. 2,814,476, 11-26-57, Cl. 263-46.
- Leitner, Robert T., and J. M. Jaytanie, to Technical Appliance Corp. Wide band high gain antennas. 2,799,018, 7-9-57, Cl. 343-814.
- Leitz, Ernst, A.-G., Optische Werke: *See—*
- Wagner, Adam. 2,800,063.
- Leitz, Ernst, G. m. b. H.: *See—*
- Frenk, Helmuth. 2,793,441.
- Jensen, Kurt. 2,811,895.
- Leitz, Ernst, G. m. b. H.: *See—Continued*
- Leitz, Ludwig, Engelmann, and Schneider. 2,791,937.
- Leitz, Ludwig, and Klemann. 2,789,461.
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- Malfeld, Otto. 2,804,687.
- Mandler, Walter. 2,817,270.
- Meinecke, Gunther, and Jung. 2,809,572.
- Nightingall, Theodore C., and Luz. 2,816,478.
- Weissenberg, Gustav. 2,799,779.
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- Le Jeune, Frank H., to Kelsey-Hayes Co. Rim. 2,788,050, 4-9-57, Cl. 152-410.
- Le Jeune, Louis L. Adjustable column. 2,812,834, 11-12-57, Cl. 189-42.
- Lekberg, Robert D., and R. F. Hornbeck, to Chemlek Laboratories, Inc. Process for preparing calcium pantothenate. 2,809,213, 10-8-57, Cl. 260-534.
- Leker, James E., to Staley Milling Co. Method and apparatus for coating feed. 2,806,788, 9-17-57, Cl. 99-2.
- Lekkerkerker, Arie, to American Enka Corp. Manufacture of artificial viscose products. 2,787,517, 4-2-57, Cl. 18-54.
- Le Lan, Armand M., to Societe Anonyme H. Ernault-Batignolles. Devices for the control of the feed motion of the tool-carriage of a machine tool. 2,801,617, 8-6-57, Cl. 121-41.
- Leland-Gifford Co.: *See—*
- Hirvonen, Eric J. 2,781,672.
- Leland Stanford Junior University, The, Board of Trustees of the: *See—*
- Chodorow, Marvin. 2,813,996.
- Field, Lester M. 2,808,532.
- Field, Lester M., and Watkins. 2,800,602.
- Pearson, Paul A. 2,818,527.
- Tien, Ping K., and Field. 2,800,606.
- Leleu, Jean: *See—*
- Séon, Marius, and Leleu. 2,782,226.
- Lelij, Anton: *See—*
- Schrenk, Hans A., and Lelij. 2,814,833.
- Leliter, Chester P., to Allis-Chalmers Mfg. Co. Moldboard mounting for motor graders. 2,799,099, 7-16-57, Cl. 37-156.
- Lello, Herbert F., to General Telephone Laboratories, Inc. Dial with finger directing indicia. 2,810,790, 10-22-57, Cl. 179-90.
- Lelong, Georges. Adjustable chairs. 2,807,311, 9-24-57, Cl. 155-115.
- Lema, Richard J., to Evans Case Co. Fishing lure. 2,812,609, 11-12-57, Cl. 43-42.28.
- Lemaigre-Voreaux, Pierre, to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude Paz & Silva. Gas absorbent material. 2,794,932, 6-4-57, Cl. 313-178.
- Lemaire, Louis: *See—*
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- Lemaire, Paul, and P. Derreumaux. Ring and traveller device for spinning and twisting frames. 2,786,325, 3-26-57, Cl. 57-119.
- Lemaire Tool & Mfg. Co.: *See—*
- Blackington, Robert C. 2,786,379.
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- Lembo, Joseph A. Method and apparatus for facilitating the neutralizing of permanent wave solution. 2,807,269, 9-24-57, Cl. 132-7.
- Lembo, Juan J. Time switch and speed variator for electric motors. 2,798,195, 7-2-57, Cl. 318-349.
- Lemeac-Vigneau, Gerard: *See—*
- Schwerin, Andre K. 2,807,725.
- Lemert, Eva R.: *See—*
- Sherrill, John F. 2,795,981.
- Lemieux, Joseph F., Jr. Tiltable roping spool stand. 2,799,131, 7-16-57, Cl. 57-54.
- Lemieux, Raymond U., to National Research Council. Production of ustilic acids. 2,809,205, 10-8-57, Cl. 260-406.
- Lemke, Charles H., to E. I. du Pont de Nemours and Co. Thermal production of sodium. 2,789,047, 4-16-57, Cl. 75-66.
- Lemke, Charles H., to E. I. du Pont de Nemours and Co. Production of sodium carbide. 2,802,723, 8-13-57, Cl. 23-208.
- Lemkey, Franklin D. Air filter. 2,809,715, 10-15-57, Cl. 183-69.
- Lemm, Hans-Peter, to Schloemann Aktiengesellschaft. Roller bed arrangement of zig-zag mill train. 2,796,163, 6-18-57, Cl. 198-20.
- Lemmens, Hendrikus J., to North American Philips Co., Inc. Method of making supply cathodes and supply cathodes manufactured by means of these methods. 2,786,259, 3-26-57, Cl. 29-25.14.
- Lemmer, Clarence G., to Electro Refractories & Abrasives Corp. Crucibles for metal melting. 2,801,839, 8-6-57, Cl. 263-48.

- Lemmers, Eugene, to General Electric Co. Fluorescent lamp fixture and circuit. 2,795,692, 6-11-57, Cl. 240—51.11.
- Lemmers, Eugene, and A. Kovach, to General Electric Co. Modifiable lamp construction. 2,805,354, 9-3-57, Cl. 313—193.
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- Lemmon, Norman E.: *See*—
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- Lemmon, Walter S., and M. L. MacAdam, to Radio Industries Corp. Multiple transmitter-antenna switching system. 2,777,960, 1-15-57, Cl. 307—115.
- Le Monde Corset Co.: *See*—
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- Lempke, Harry R. Portable knockdown shelter for ice fishing. 2,780,471, 2-5-57, Cl. 280—12.
- Lena, Adolph J., to Allegheny Ludlum Steel Corp. Process for producing stainless steel. 2,799,602, 7-16-57, Cl. 148—12.
- Lenahan, Joseph W., to Research Corp. Gas cleaning apparatus. 2,788,037, 4-9-57, Cl. 183—89.
- Lenel, Paul-Otto, to Imperial Chemical Industries Ltd. Condensation of dialkyl succinates. 2,803,644, 8-20-57, Cl. 260—468.
- Lenert, Joseph J.: *See*—
Barker, Orrin W., and Lenert. 2,818,002.
- Leng, Geoffrey, to Marconi's Wireless Telegraph Co. Ltd. Cathode ray tubes. 2,788,468, 4-9-57, Cl. 315—22.
- Lenger, Elma L. Disposable bib. 2,783,472, 3-5-57, Cl. 2—49.
- Leonglet, Jeanne-Francoise, nee Fischer. Knitting apparatus. 2,812,650, 11-12-57, Cl. 66—60.
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- Lenhard, Robert H.: *See*—
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- Lenhart, George B., to The Wilson Rubber Co. Dipping apparatus. 2,814,069, 11-26-57, Cl. 18—1.
- Lenherr, Chester F., to White Castle System, Inc. Apparatus for producing rounded dough bodies for the formation of bakery rolls and buns. 2,781,732, 2-19-57, Cl. 107—4.
- Leniz, Joe A., to Leniz Tool Mfg. Co., Inc. Thimble screw driver. 2,788,817, 4-16-57, Cl. 145—50.
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- Lenk, Johannes. Self-feeding paint brush or the like. 2,785,425, 3-19-57, Cl. 15—128.
- Lenk, Walter, to Barmer Maschinenfabrik Aktiengesellschaft. Thread tensioning apparatus for twisting spindles. 2,796,225, 6-18-57, Cl. 242—147.
- Lenkeit, Willy W.: *See*—
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- Lenker, Earl A. Machine for cutting road surfaces. 2,817,275, 12-24-57, Cl. 94—39.
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- Lennard, Paul M. Closure for access openings in closed housings. 2,803,370, 8-20-57, Cl. 220—24.
- Lennartz, Walter. Covering of artificial material. 2,780,262, 2-5-57, Cl. 150—39.
- Lenneis, Franz, and E. Korner. Safety locks for lighters. 2,812,202, 11-5-57, Cl. 292—129.
- Lenney, James F.: *See*—
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- Lenning, Alvar, to Ab. Inreco. Mercury relay of impulse type. 2,778,900, 1-22-57, Cl. 200—112.
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- Lennon, John V. Protective device for playing fields. 2,785,897, 3-19-57, Cl. 273—25.
- Lennon, John W.: *See*—
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- Lennon, Walter E.: *See*—
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- Lennon, William J.: *See*—
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- Lennox, Forrest R.: *See*—
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- Lennox, Thomas C., to General Electric Co. Time delay control system. 2,779,899, 1-29-57, Cl. 317—141.
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- Lenoir, Michel, to Petercem, Societe Anonyme. Thermostat. 2,815,417, 12-3-57, Cl. 200—138.
- Lens, Georges X., to International Standard Electric Corp. Combined code recorder and selector. 2,807,376, 9-24-57, Cl. 214—11.
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- Lent, Constantin P. Helicopter blades and thrust augmentors therefor. 2,782,861, 2-26-57, Cl. 170—135.4.
- Lent, Constantin P. Saucer-shaped aircraft. 2,801,058, 7-30-57, Cl. 244—12.
- Lentjes, Carl G.: *See*—
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- Lentz, Irvin R., and D. B. Van Dolah, to Swift & Co. Poultry picking method. 2,782,457, 2-26-57, Cl. 17—45.
- Lentz, John J., to International Business Machines Corp. Electronic circuit. 2,796,521, 6-18-57, Cl. 250—27.
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- Lenz, Emory W., and W. C. Riester, to Trico Products Corp. Power unit and window system incorporating the same. 2,804,297, 8-27-57, Cl. 268—125.
- Lenz, Emory W., and W. C. Riester, to Trico Products Corp. Window operator. 2,818,251, 12-31-57, Cl. 268—125.
- Lenz, Frank B., and W. W. Haerther, Jr. Oil filter. 2,792,116, 5-14-57, Cl. 210—94.
- Lenz, Otto A. Transversely moving piston clutch. 2,798,580, 7-9-57, Cl. 192—60.
- Lenzi, Lucy. Hair curlers. 2,797,692, 7-2-57, Cl. 132—34.
- Leo, Herbert T., and C. C. Taylor. Pectinic acid composition and method of making the same. 2,801,178, 7-30-57, Cl. 99—132.
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- Leon, Louis. Curl clip. 2,799,281, 7-16-57, Cl. 132—46.
- Leonard, Daniel C., to E. Long Ltd. Mine dump skip. 2,790,569, 4-30-57, Cl. 214—741.
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- Leonard, Eugene: *See*—
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- Leonard, Eugene, to Underwood Corp. Controlled pulse generator. 2,789,224, 4-16-57, Cl. 250—36.
- Leonard, Frederick, and F. E. Anderson, to Warner-Lambert Pharmaceutical Co. Tetrahydro-4-oxo-3-furan-thiocarboxamides. 2,788,751, 4-9-57, Cl. 260—347.2.
- Leonard, George H. Electro-mechanical counter. 2,781,172, 2-12-57, Cl. 235—132.
- Leonard, Henderson G. Scaffolding. 2,787,716, 4-2-57, Cl. 304—17.
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- Leonard, Louis H., Jr., and J. R. Bourne, to Carrier Corp. Unitary purge arrangement for absorption refrigeration systems. 2,809,497, 10-15-57, Cl. 62—5.
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- Leonard, Nathaniel N., to Claude C. Slate & Associates. Reflector target. 2,778,010, 1-15-57, Cl. 343—18.
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- Leonard, Reid H., to Heyden Newport Chemical Corp. Method of converting levulinic acid into alpha angelica lactone. 2,809,203, 10-8-57, Cl. 260—343.6.
- Leonard, Wallace O., Inc.: *See*—
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- Leonard Window Corp.: *See*—
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- Leonardi, Samuel. Double catch fish hook. 2,808,678, 10-8-57, Cl. 43—44.8.
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- Leotta, Samuel S.: *See*—
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- Lepley, Allen E., to Thompson Products Inc. Alternator control system. 2,811,651, 10-29-57, Cl. 290-4.
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- Lerch, Brooke W., to Western Electric Co., Inc. Apparatus for providing a striped covering on a wire. 2,811,746, 11-5-57, Cl. 18-13.
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- Lerch, Robert L., to Armstrong Corp. Co. Resilient tile. 2,802,797, 8-13-57, Cl. 260-25.
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- Lerner, Herman B., to Lerner Plastics Mfg. Co. Container. 2,778,525, 1-22-57, Cl. 220-60.
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- Lerner, Louis L., to Allied Home Products Corp. Washing and waxing composition. 2,780,554, 2-5-57, Cl. 106-10.
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- Les Laboratoires Francais de Chimiotherapie: *See*—
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- Les Laboratoires Gobey: *See*—
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- Leshner, Carl E., to Leshner and Associates, Inc. Process of making a flowable solid ore-carbon mass. 2,794,728, 6-4-57, Cl. 75-4.
- Leshner, Kenneth W., to General Motors Corp. Hydraulic lash adjuster. 2,812,750, 11-12-57, Cl. 123-90.
- Leshner, Robert B., and C. E. Greene, to The Monarch Machine Tool Co. Automatic cycle machine tool. 2,814,007, 11-19-57, Cl. 318-39.
- Leshin, Joseph, to Park & Tilford Distillers Corp. Cocktail shakers. 2,791,467, 5-7-57, Cl. 299-97.
- Leslie, James H. Jr. TV antenna mast. 2,804,950, 9-3-57, Cl. 189-15.
- Lesigne, Henri L., to Compagnie Industrielle des Telephones. Telephone connections for party lines. 2,783,306, 2-26-57, Cl. 179-17.
- Leslie, Donald J. Swimming pool water level control system. 2,809,752, 10-15-57, Cl. 210-127.
- Leslie, Edward S., to Radio Corp. of America. Switching device. 2,807,692, 9-24-57, Cl. 200-172.
- Leslie, Harry A., P. L. Douglas, and E. C. Thies, to Citrus Equipment Corp. Citrus oil extraction process. 2,799,218, 7-16-57, Cl. 100-37.
- Leslie, James D., to General Motors Corp. Rotary bolt door latch. 2,796,276, 6-18-57, Cl. 292-280.
- Leslie, James D., R. M. Fox, and L. E. Muller, to General Motors Corp. Vehicle body with built-in ventilation system. 2,807,201, 9-24-57, Cl. 98-2.
- Leslie, John D., to Siemens Brothers & Co. Ltd. Contact spring supports. 2,805,306, 9-3-57, Cl. 200-166.
- Leslie, John H., II, to Signode Steel Strapping Co. Power operated strap dispenser. 2,779,410, 1-29-57, Cl. 164-48.
- Leslie, Victor A. Tire painting device. 2,800,874, 7-30-57, Cl. 118-301.
- Lesniak, Frank G., and W. A. Stubbe, to Masonite Corp. Self unloading apparatus. 2,781,137, 2-12-57, Cl. 214-16.6.
- Lesparré, Jean N., M. B. Medlock, Jr., and C. E. Morris, to Armour and Co. White sauce base. 2,811,452, 10-29-57, Cl. 99-144.
- Less, Joseph W., to One-In-Hand Tie Co. Pre-tied neckties and methods for making the same. 2,804,627, 9-3-57, Cl. 2-150.
- Lessen, Martin: *See*—
Karlby, Henning, and Lessen. 2,784,551.
- Lesser, David K., to Hercules Powder Co. Coating composition for metals. 2,798,015, 7-2-57, Cl. 148-6.16.
- Lesser, David K., to Hercules Powder Co. Coating composition for metals. 2,798,016, 7-2-57, Cl. 148-6.16.
- Lesser, David K., to Hercules Powder Co. Coating composition for metals. 2,798,017, 7-2-57, Cl. 148-6.16.
- Lesser, David K., to Hercules Powder Co. Coating composition. 2,809,119, 10-8-57, Cl. 106-170.
- Lessley, William E. Vertically adjustable lavatory. 2,817,094, 12-24-57, Cl. 4-170.
- Lessman, Gerhard, to De Vry Corp. Clutch for slide projectors. 2,784,817, 3-12-57, Cl. 192-28.
- Lester, Burton R., to General Electric Co. Binary digital computing and counting apparatus. 2,781,447, 2-12-57, Cl. 250-27.
- Lester, George E., and W. Artificial denture structures. 2,799,932, 7-23-57, Cl. 32-2.
- Lester, Gerd: *See*—
Vicario, Pierino. 2,778,919.
- Lester, John T.: *See*—
Ake, Paige W., and Lester. 2,779,950.
- Lester, Margaret M., and J. P. English, to American Cyanamid Co. Preparation of sulfanilamidopyridazine. 2,790,798, 4-30-57, Cl. 260-239.7.
- Lester, Ray F., to Crouse-Hinds Co. Lighting unit. 2,777,942, 1-15-57, Cl. 240-11.2.
- Lester, Ray F., to Crouse-Hinds Co. Explosion proof fluorescent lighting unit. 2,794,113, 5-28-57, Cl. 240-1.2.
- Lester, Ray F., to Crouse-Hinds Co. Lighting unit. 2,813,970, 11-19-57, Cl. 240-11.2.
- Lester, Robert R., to Kansas City Terminal Warehouse Co. Portable dehydrator. 2,776,723, 1-8-57, Cl. 183-4.
- Lester, Seleg: *See*—
Gerard, Merwin, Lester, and Nemeth. 2,796,869.
- Lester, Stephen: *See*—
Ireland, James R., and Lester. 2,797,161.
- Lester, William: *See*—
Lester, George E., and W. 2,799,932.
- Lester, William A.: *See*—
Wilson, Ben L., and Lester. 2,788,222.
- Lester, William H.: *See*—
Allen, Wendell P., and Lester. 2,791,729.
- Lester, William M.: *See*—
Cooksley, Ralph D., and Lester. 2,804,102.
- Lesti, Arnold, to International Standard Electric Corp. Electronic switching apparatus for telephone systems. 2,785,230, 3-12-57, Cl. 179-18.
- Lesti, Arnold, to International Telephone and Telegraph Corp. Decoder for pulse code modulation systems. 2,807,715, 9-24-57, Cl. 250-27.
- Leston, Theodore I., to Eutectic Welding Alloys Corp. Self-fluxing silver alloy filler metal. 2,777,767, 1-15-57, Cl. 75-157.5.
- Leston, Theodore I., to Eutectic Welding Alloys Corp. Protector enamel for high temperature metal treating processes. 2,806,801, 9-17-57, Cl. 106-84.
- Le Suer, William M.: *See*—
Norman, George R., Le Suer, and Mastin. 2,794,041.
Norman, George R., Le Suer, and Mastin. 2,802,856.

- Les Veaux, John F., and E. F. Orwoll, to Food Machinery and Chemical Corp. Sand-grain core insecticidal composition. 2,777,795, 1-15-57, Cl. 167-42.
- Le Szeu, Anastasia S. Reweaving needles. 2,781,957, 2-19-57, Cl. 223-102.
- LeTourneau, Robert G. Self-cleaning chains and supporting sprockets. 2,784,836, 3-12-57, Cl. 198-203.
- LeTourneau, Robert G. Heavy-duty self-propelled tree saw. 2,787,298, 4-2-57, Cl. 143-43.
- LeTourneau, Robert G., and C. C. Roe. Selectively reversible motor control for electrically driven tractor. 2,787,331, 4-2-57, Cl. 180-6.5.
- LeTourneau-Westinghouse Co.: See—
Clark, Ralph B., and Hyler. 2,817,426.
Clark, Ralph B., Hyler, and Whaley. 2,817,427.
Spannhake, Ernst W. 2,780,065.
- Letsche, Albert: See—
Jungmans, Helmut, and Letsche. 2,786,326.
- Letter, Joseph D. Stone cutting machine. 2,792,825, 5-21-57, Cl. 125-21.
- Letterman, Charles B., to Underwood Corp. Carriage shock absorbing device. 2,800,989, 7-30-57, Cl. 197-66.
- Letterman, Charles B., to Underwood Corp. Impression control for typewriting machine. 2,818,152, 12-31-57, Cl. 197-17.
- Letterman, Charles B., and A. E. Amos, to Underwood Corp. Proportional letter feed mechanism for typewriting machines. 2,818,154, 12-31-57, Cl. 197-84.
- Lettvin, Norman: See—
Kravitz, Harvey, and Lettvin. 2,817,336.
- Leubner, Gerhard W., J. L. R. Williams, and C. C. Unruh, to Eastman Kodak Co. Light-sensitive polymeric stilbazoles and quaternary salts thereof. 2,811,510, 10-29-57, Cl. 260-67.5.
- Leuenberger, Gottfried, to Ad. Schulthess & Co. A. G. Device for the automatic dispensation of detergents, particularly for use with fully automatic washing machines. 2,782,621, 2-26-57, Cl. 68-17.
- Leuenberger, Gottfried, to Ad. Schulthess & Co. A. G. Control for automatic washing machines. 2,788,850, 4-16-57, Cl. 161-1.
- Leupe, Louis E.: See—
Pedersen, Edvard M., Leupe, and Balzer. 2,811,886.
- Leupold, Curt W. Apparatus for cutting sanitary napkins. 2,789,593, 4-23-57, Cl. 143-38.
- Leupold, Henry G., to United Electric Controls Co. Indicating control. 2,797,272, 6-25-57, Cl. 200-56.
- Leupold, Karl: See—
Tripmacher, Richard, and Leupold. 2,783,990.
- Leupold & Stevens Instruments, Inc.: See—
Stevens, John C. 2,817,237.
- Leuthold, Otto. Tumbler switch. 2,792,464, 5-14-57, Cl. 200-67.
- Lev, Harry. Ventilated uniform cap. 2,814,046, 11-26-57, Cl. 2-181.6.
- Lev, Harry. Mounting device with cap. 2,814,047, 11-26-57, Cl. 2-195.
- Leval, Gaston. Sealing and carrying device. 2,788,169, 4-9-57, Cl. 229-52.
- Le Van, Ambrose E., to American Machine and Metals, Inc. Instruments. 2,785,696, 3-19-57, Cl. 137-85.
- Le Van, Ambrose E., P. W. Harland and R. D. Waite, to American Machine and Metals, Inc. Instrument dial illuminator. 2,789,206, 4-16-57, Cl. 240-2.1.
- Levander, Einar G. V. Protective and feeding arrangement for rolled picture of text strips. 2,788,594, 4-16-57, Cl. 40-86.
- Levendoski, Alfred E.: See—
Holloway, Robert L., Strauss, and Levendoski. 2,776,138.
- Leven, Samuel, to Joy Mfg. Co. Continuous mining apparatus of the pivoted cutter bar type. 2,818,243, 12-31-57, Cl. 262-29.
- Levenson, Norton J.: See—
Berlin, Aaron S., Kline, Levenson, and Shaw. 2,796,021.
- Lever Brothers Co.: See—
Anson, Mortimer L., and Pader. 2,785,155.
Anson, Mortimer L., and Pader. 2,802,737.
Anson, Mortimer L., and Pader. 2,802,738.
Anson, Mortimer L., and Pader. 2,813,024.
Anson, Mortimer L., and Pader. 2,813,025.
Anson, Mortimer L., and Pader. 2,813,794.
Coetzer, Louis, and Wainwright. 2,802,793.
East, Edward, and Green. 2,809,090.
Eckardt, Wolfgang M. J., and Preisinger. Re. 24,373.
Galliver, George B., and Holmes. 2,813,027.
Hurt, Norman A. 2,802,848.
Hurt, Norman A. 2,810,735.
Le Vier, Bill J., and Kohn. 2,792,349.
Schramm, Charles H., and Walling. 2,797,239.
Scott, Alan D. 2,813,831.
V. D. Gracht, Willebrord J. F. de R. 2,785,978.
- Lever, Reginald F.: See—
Davis, Michael, and Lever. 2,809,905.
- Leverenz, Humboldt W., to Radio Corp. of America. Semiconductor devices and their manufacture. 2,813,817, 11-19-57, Cl. 148-33.
- Leverenz, Roy F. Reinforced plastic article. 2,794,756, 6-4-57, Cl. 154-43.
- Leverenz, Roy F. Method of manufacturing a laminated article. 2,802,766, 8-13-57, Cl. 154-110.
- Leverett, Hollis M., L. R. Travis, and M. R. Thorburn, to American Optical Co. Vision testing set. 2,795,993, 6-18-57, Cl. 88-20.
- Leverett, Miles C.: See—
Fermi, Enrico, and Leverett. 2,813,070.
- Levering, William C.: See—
Hauck, Paul A., and Levering. 2,807,349.
- Le Vesconte, Lester B. Backflow preventing means for receptor connected ends of soil pipes. 2,793,371, 5-28-57, Cl. 4-76.
- Levey, Fred'k H., Co., Inc.: See—
Brodie, George R. 2,787,955.
Brodie, George R. 2,797,098.
Brodie, George R. 2,804,693.
Stobb, Anton R. 2,788,741.
- Levey, Harold A., Sr.: See—
Simmons, Mack E., and Levey. 2,800,905.
- Levi, David L.: See—
Gross, Philipp, and Levi. 2,785,973.
- Levi, Roberto, to North American Philips Co., Inc. Method of making a dispenser cathode. 2,813,807, 11-19-57, Cl. 117-224.
- Levie, Allan. Method of permanently waving human hair. 2,794,440, 6-4-57, Cl. 132-7.
- Levie, Nola D., to McClintock Mfg. Co. Ruffling machine for making rubber greens. 2,818,038, 12-31-57, Cl. 112-132.
- Le Vier, Bill J., and M. Kohn, to Lever Brothers Co. Soap cake. 2,792,349, 5-14-57, Cl. 252-134.
- Levin, Carl A., and R. W. Quirk, to Ditto, Inc. Clamp releasing means for rotary duplicating machine. 2,804,014, 8-27-57, Cl. 101-132.5.
- Levin, David. Suds-proportioning nozzle. 2,797,133, 6-25-57, Cl. 299-84.
- Levin, Harold. Adjustable crib side. 2,804,631, 9-3-57, Cl. 5-100.
- Levin, Harry, to The Texas Co. Extreme pressure lubricant compositions. 2,796,404, 6-18-57, Cl. 252-47.5.
- Levin, Isaac H., and H. A. Lorenz, to Independent Engineering Co., Inc. Method and apparatus for pumping volatile liquids and recovering vapors in connection with the pumping operation. 2,785,544, 3-19-57, Cl. 62-122.
- Levin, Robert H.: See—
Fonken, Gunther S., Levin, and McIntosh. 2,778,842.
Lyttle, Douglas A., and Levin. 2,794,814.
Magerlein, Barney J., McIntosh, and Levin. 2,791,585.
- Levin, Robert H., A. V. McIntosh, Jr., and G. B. Spero, to The Upjohn Co. 3,21-disubstituted-5,7,9(11)-pregnatrien-20-ones. 2,813,106, 11-12-57, Cl. 260-397.45.
- Levin, William: See—
Foresta, Dominick G., and Levin. 2,779,307.
- Levine, Aaron J. Portable pipe cleaning device. 2,803,843, 8-27-57, Cl. 15-104.3.
- Levine, Arnold M., to International Telephone and Telegraph Corp. Color television receiver. 2,786,886, 3-26-57, Cl. 178-5.4.
- Levine, Arnold M., to International Telephone and Telegraph Corp. Compador control system. 2,795,650, 6-11-57, Cl. 179-15.6.
- Le Vine, Frankel, and H. Nadler. Channel control apparatus for use with a television set. 2,798,948, 7-9-57, Cl. 250-20.
- Levine, Harvey, to General Electric Co. Household mixer chassis. 2,781,467, 2-12-57, Cl. 310-254.
- Levine, Irving E.: See—
Toland, William C., and Levine. 2,776,323.
- Levine, Louis M., to Mejur Corp. Device for filling measured quantity of milk or other liquid. 2,779,351, 1-29-57, Cl. 137-256.
- Levine, Paul. Lamp shade covers. 2,799,774, 7-16-57, Cl. 240-108.
- Levine, Samuel J., to General Electric Co. Air conditioning unit and control. 2,808,488, 10-1-57, Cl. 200-140.
- Levine, Seymour S.: See—
Herbert, William J., McCown, and Levine. 2,786,182.
- Levinger, Joseph S., M. B. Sampson, A. H. Snell, and R. G. Wilkinson, to the United States of America as represented by the United States Atomic Energy Commission. Radiation system. 2,781,309, 2-12-57, Cl. 204-193.
- Levinson, Benjamin L., to Royal Electric Co., Inc. Illuminated display device. 2,816,378, 12-17-57, Cl. 40-130.
- Levinson, Louis L., Jr. Rolled sleeve finishing machine. 2,811,291, 10-29-57, Cl. 223-73.
- Levis, Robert R., and R. M. Ring, to Hickok Mfg. Co., Inc. Packaging and display devices. 2,788,123, 4-9-57, Cl. 206-75.
- Levit, Edward C., to Whirlpool-Seeger Corp. Combined dishwashing machine and disposal unit. 2,802,477, 8-13-57, Cl. 134-104.
- Levitan, Leo, and R. L. Perkins. Portable and adjustable stand. 2,805,905, 9-10-57, Cl. 311-39.
- Levitin, Martin A.: See—
Cunningham, George L., and Levitin. 2,785,098.
- Levitin, Michael J. Furniture display rack. 2,805,776, 9-10-57, Cl. 211-27.
- Levitt, Bennie: See—
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- Levitt, Irving and B. Shelf bracket. 2,778,505, 1-22-57, Cl. 211-136.
- Levitt, Semond, to Fruehauf Trailer Co. Plastic liners and plastic ceiling liner for trailers. 2,791,463, 5-7-57, Cl. 296-28.

- Levitz, Herman B., and J. M. Dunston. Machinery trailer for a mobile shop. 2,811,111, 10-29-57, Cl. 104-126.
- Levkoff, David, $\frac{1}{4}$ to E. S. Levkoff, $\frac{1}{4}$ to H. S. Levkoff, and $\frac{1}{4}$ to E. L. Sennet. Cartons. 2,786,621, 3-26-57, Cl. 229-28.
- Levkoff, Evelyn S.: *See*—
Levkoff, David. 2,786,621.
- Levkoff, Henry S.: *See*—
Levkoff, David. 2,786,621.
- Levonian, Puzani V.: *See*—
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- Levy, Abram, Jr. Work clamping device. 2,782,819, 2-26-57, Cl. 144-290.
- Levy, Charles A.: *See*—
Roman, John, and Levy. 2,780,181.
- Levy, Edward M., and M. A. Rheinstrom, to Reflector-Hardware Corp. Display and merchandise supports. 2,810,539, 10-22-57, Cl. 248-223.
- Levy, Ernest, Jr., to Sorensen & Co., Inc. Dual regulating circuit. 2,785,370, 3-12-57, Cl. 321-2.
- Levy, Francis X.: *See*—
Pellerin, Norvin L., Phillips, and Levy. 2,779,937.
- Levy, Joseph, to Nopco Chemical Co. 2,813,100, 11-12-57, Cl. 260-293.2.
- Levy, Joseph, and G. A. Bernotsky, to Nopco Chemical Co. Improved hydrogenation process. 2,776,293, 1-1-57, Cl. 260-293.2.
- Levy, Lester: *See*—
Rothstein, Milton, Rossoff, Levy, Dirnbach, and De Witt. 2,786,926.
- Levy, M. Frank: *See*—
Scheer, Walter E., and Levy. 2,798,875.
- Levy, Marilyn, and H. Schulze, to the United States of America as represented by the Secretary of the Army. Photothermographic substance. 2,799,582, 7-16-57, Cl. 96-94.
- Levy, Marion L., to The National Radiator Co. Universal foot for blower assembly. 2,808,981, 10-8-57, Cl. 230-133.
- Levy, Maurice M.: *See*—
Chubb, Alexander A., and Levy. 2,779,821.
- Levy, Morris: *See*—
Kahn, David, and Levy. 2,811,948.
- Levy, Morris. Fire alarms. 2,817,734, 12-24-57, Cl. 200-142.
- Levy, Morris D.: *See*—
Kahn, David, and Levy. 2,807,237.
- Levy, Paul W., to the United States of America as represented by the United States Atomic Energy Commission. Crystal dosimeter. 2,800,589, 7-23-57, Cl. 250-83.
- Levy, Sidney, to Sylvania Electric Products Inc. Method of metallizing the screen of a cathode ray tube. 2,792,315, 5-14-57, Cl. 117-33.5.
- Lew, Henry Y., to California Research Corp. Preparation of aminocarboxylic acids. 2,804,474, 8-27-57, Cl. 260-534.
- Lew, Robert B. Multi-color machine for printing fabrics. 2,789,498, 4-23-57, Cl. 101-181.
- Lew, Robert B. Perforated plastic adhesive tape bandage. 2,807,262, 9-24-57, Cl. 128-156.
- Lewandowski, Edward A. Fishing rod holder. 2,781,958, 2-19-57, Cl. 224-5.
- Lewellen, Darcy E., and E. F. Lewellen. Control for spinning frame. 2,785,527, 3-19-57, Cl. 57-93.
- Lewellen, Emmons F.: *See*—
Lewellen, Darcy E., and E. F. 2,785,527.
- Lewenstein, Moses J., and U. Weiss, said Weiss assor. to said Lewenstein. Morphine derivative. 2,806,033, 9-10-57, Cl. 260-285.
- Lewin, Gerhard: *See*—
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- Lewin, Gerhard, to Westinghouse Electric Corp. Cathode. 2,785,332, 3-12-57, Cl. 313-328.
- Lewin, Henry. Tobacco leaf stacker. 2,789,704, 4-23-57, Cl. 214-6.
- Lewis, Addeline B. Clothespin caddy. 2,779,372, 1-29-57, Cl. 150-1.8.
- Lewis, Albert M. Food steamer. 2,786,932, 3-26-57, Cl. 219-38.
- Lewis, Allen H., to California Research Corp. Detergent cyclohexyl-cyclohexyl benzene sulfonic acids and their alkali metal salts. 2,787,638, 4-2-57, Cl. 260-505.
- Lewis, Arthur J., to The Baird Machine Co. Ratchet drive mechanism. 2,778,467, 1-22-57, Cl. 192-50.
- Lewis, Arthur J., III, to The Autoyre Co. Abrasive finishing machine. 2,801,498, 8-6-57, Cl. 51-70.
- Lewis, Arthur J., III, to The Autoyre Co. Abrasive finishing machine. 2,807,915, 10-1-57, Cl. 51-70.
- Lewis, Benjamin F., to Bell Telephone Laboratories, Inc. Multiparty identification system. 2,806,091, 9-10-57, Cl. 179-36.
- Lewis, Carl A. Connection for structural members. 2,808,137, 10-1-57, Cl. 189-36.
- Lewis, Carl W., to General Motors Corp. Forming an engine water jacket core. 2,807,847, 10-1-57, Cl. 22-194.
- Lewis, Clark H. Vent plug structure. 2,786,881, 3-26-57, Cl. 136-177.
- Lewis, Clement Y.: *See*—
Naylor, Joseph F., and Lewis. 2,784,685.
- Lewis, Daniel W.: *See*—
Frost, Lawrence W., Gainer, and Lewis. 2,802,017.
- Lewis, Dewey S. Adjustable hanger. 2,788,132, 4-9-57, Cl. 211-94.5.
- Lewis, Dola T., $\frac{1}{2}$ to U. Lewis. Latch mechanism. 2,781,567, 2-19-57, Cl. 24-128.
- Lewis, Donald A., Jr. Sky lookout chair. 2,807,089, 9-24-57, Cl. 33-69.
- Lewis, Donald B., to General Motors Corp. Air cleaner assembly. 2,778,444, 1-22-57, Cl. 183-13.
- Lewis, Donald B., to General Motors Corp. Air cleaner. 2,781,861, 2-19-57, Cl. 183-15.
- Lewis, Donald W. Injector for rocket motor. 2,808,701, 10-8-57, Cl. 60-35.6.
- Lewis, Douglas G., to Heather Filters Ltd. Fluid filters. 2,802,544, 8-13-57, Cl. 183-44.
- Lewis, Edward V.: *See*—
Dalton, Bruce H., and Lewis. 2,796,226.
- Lewis, Edwin S.: *See*—
Crawford, Carl F., Ford, and Lewis. 2,795,784.
- Lewis, Ellis: *See*—
Lytton, Marion R., Wielicki, and Lewis. 2,776,946.
- Lewis, Ellis, Jr., to American Viscose Corp. Molding composition. 2,781,326, 2-12-57, Cl. 260-14.
- Lewis, Elmer. Poultry watering and feeding device. 2,795,209, 6-11-57, Cl. 119-63.
- Lewis Engineering Co., The: *See*—
Knudsen, Knud J. 2,802,988.
- McCall, Clarence I. 2,794,062.
- Lewis, Ernest B. Piezoelectric apparatus. 2,805,340, 9-3-57, Cl. 250-53.
- Lewis, Ernest D., to E. I. du Pont de Nemours and Co. Process for producing a vaporized mixture of aluminum and titanium halides. 2,790,704, 4-30-57, Cl. 23-87.
- Lewis, Everett W.: *See*—
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- Cier, Harry E., Lewis, and Watson. 2,812,302.
- Lewis, Floyd H., Jr., to Greydan Mig. Co. Display sign. 2,794,153, 5-28-57, Cl. 315-248.
- Lewis, Frank. Cooling tower. 2,791,408, 5-7-57, Cl. 261-24.
- Lewis, Frank D., to The General Radio Co. Apparatus for frequency interpolation. 2,786,140, 3-19-57, Cl. 250-36.
- Lewis, Frederick J., Jr., and J. F. Quinlan, to the United States of America as represented by the Secretary of the Navy. Armored garment for lower torso. 2,790,973, 5-7-57, Cl. 2-2.5.
- Lewis, Frederick M., to General Electric Co. Process for preparing solid elastic organopolysiloxanes. 2,810,705, 10-22-57, Cl. 260-37.
- Lewis, George G., to Sperry Rand Corp. Sickle knife drive mechanism. 2,791,085, 5-7-57, Cl. 56-296.
- Lewis, George P. Illuminated novelty pins. 2,785,288, 3-12-57, Cl. 240-10.61.
- Lewis, George W. Pumping mechanisms. 2,801,594, 8-6-57, Cl. 103-350.
- Lewis, George W., Jr., and D. E. Rhodes, to the United States of America as represented by the United States Atomic Energy Commission. Metal extraction process. 2,812,233, 11-5-57, Cl. 23-14.5.
- Lewis, Harold R. Hydraulic brake mechanism. 2,812,832, 11-12-57, Cl. 188-90.
- Lewis, Harry: *See*—
Betteridge, Walter, and Lewis. 2,815,283.
- Lewis, Harry. Safety cap. 2,793,777, 5-28-57, Cl. 215-9.
- Lewis, Harry B. Refrigerated drink dispensing assembly. 2,803,118, 8-20-57, Cl. 62-141.
- Lewis, Herbert C., to Collins Radio Co. Peak voltage regulator. 2,782,862, 2-19-57, Cl. 323-45.
- Lewis, Herbert T., Jr.: *See*—
Meder, Arthur A., Jr., and Lewis. 2,815,654.
- Lewis, Homer D. Grinding apparatus. 2,809,478, 10-15-57, Cl. 51-206.
- Lewis, Irving R., Jr.: *See*—
Henderson, John A., Lewis, and Scott. 2,815,113.
- Lewis, Jean L., and C. F. Macy, to the United States of America as represented by the Secretary of the Army. Process for the manufacture of unicellular products from polyvinyl chloride and butadiene-acrylonitrile. 2,788,333, 4-9-57, Cl. 260-2.5.
- Lewis, John R., and K. O. Blanchard, to Hercules Powder Co. Improvement in the vacuum dehydration of thermosetting resins prepared by the reaction of a phenol, and aldehyde, and substantially petroleum hydrocarbon-insoluble pine wood resin in aqueous medium. 2,806,609, 9-10-57, Cl. 260-25.
- Lewis, John R., and P. R. Dickinson. Automatic waste bowl flusher. 2,813,274, 11-19-57, Cl. 4-12.
- Lewis, John T. Piston rod aligning and checking fixture. 2,797,485, 7-2-57, Cl. 33-46.
- Lewis, Joseph W., Jr.: *See*—
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- Lewis, Larry. Auxiliary spring device for motor vehicles. 2,788,987, 4-16-57, Cl. 280-124.
- Lewis, Norman, to Bymart-Tintair, Inc. Windowed package with label insert. 2,789,689, 4-23-57, Cl. 206-45.31.
- Lewis, Oscar. Fruit and vegetable cutter and grater. 2,786,503, 3-26-57, Cl. 146-171.
- Lewis, Raymond M., to Polymers, Inc. Ornamental decoration. 2,808,854, 10-8-57, Cl. 139-383.
- Lewis, Richard N., to Olin Mathieson Chemical Corp. Hydrazine recovery. 2,780,531, 2-5-57, Cl. 23-312.
- Lewis, Richard N., to Olin Industries, Inc. Dehydration of hydrazine by distillation with a substituted hydroxybenzene. 2,785,113, 3-12-57, Cl. 202-42.

- Lewis, Richard O. Floating work table. 2,782,661, 2-26-57, Cl. 77-63.
- Lewis, Robert C., to The Calidyne Co. Vibration generator. 2,810,842, 10-22-57, Cl. 310-27.
- Lewis, Robert E., to the United States of America as represented by the Secretary of the Air Force. Instrument illumination. 2,810,363, 10-22-57, Cl. 116-129.
- Lewis, Robert R., to Westinghouse Electric Corp. Dynamic-braking control. 2,802,162, 8-6-57, Cl. 318-368.
- Lewis, Robert R., to Westinghouse Electric Corp. Bridge-transition motor-control. 2,806,194, 9-10-57, Cl. 318-95.
- Lewis, Roger E., to Weston Electrical Instrument Corp. Recorder. 2,778,709, 1-22-57, Cl. 346-121.
- Lewis, Ronald W. J.: *See*—
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- Lewis, Roy E. Refrigerators. 2,800,381, 7-23-57, Cl. 312-274.
- Lewis-Shepard Co.: *See*—
Hastings, Russell, Jr. 2,784,280.
White, Charles S., and Garbarino. 2,817,485.
- Lewis, Thomas E., Jr., to United States Steel Corp. Sluggish-positioner for ball-making machines. 2,800,814, 7-30-57, Cl. 78-17.
- Lewis, Uzzell: *See*—
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- Lewis, Walter E., and S. C. Jordan, to General Electric Co. Electric range with automatic griddle attachment. 2,785,266, 3-12-57, Cl. 219-20.
- Lewis, Warren J., and E. F. Huston, to The Ohio Brass Co. Expander nut having three surfaces of different inclination. 2,783,673, 3-5-57, Cl. 85-24.
- Lewis, Warren K., Jr.: *See*—
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- Lewis, Willard D., to Bell Telephone Laboratories, Inc. Microwave channel dropping filter pairs. 2,816,270, 12-10-57, Cl. 333-9.
- Lewis, William E. Apparatus for ruling negatives in the photolithographic art. 2,799,937, 7-23-57, Cl. 33-76.
- Lewis, William G.: *See*—
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- Lewis, William G., C. R. Mayo, and B. J. Wolfe, to The Haloid Co. Electrophotographic microfilm enlarger. 2,816,493, 12-17-57, Cl. 95-17.
- Lewis, William H.: *See*—
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- Lewis, William H., to Joint Saw Co. Pavement cutting apparatus. 2,782,017, 2-19-57, Cl. 262-20.
- Lewis, William M., Jr., and H. D. Frazier, to Pacific Semiconductor, Inc. Glass sealed semiconductor rectifier. 2,815,474, 12-3-57, Cl. 317-236.
- Lewis, William R.: *See*—
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- Lewis, William R. Tool for contracting culvert bands. 2,787,442, 4-2-57, Cl. 254-79.
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- Leybold's, E. Nachfolger: *See*—
Ziock, Klaus. 2,779,533.
- Leyden, Arthur F., Jr.: *See*—
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- Leyer, Albert, and L. Burgerstein. Driving device for belts. 2,776,576, 1-8-57, Cl. 74-242.9.
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- Leyse Aluminum Co.: *See*—
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- Leystra, Peter. Copper fitting reamer. 2,795,980, 6-18-57, Cl. 77-75.
- Lezberg, Erwin A., and A. M. Lord, to the United States of America as represented by the Secretary of the Navy. Apparatus for the preparation of metal powder. 2,795,819, 6-18-57, Cl. 18-24.
- L'Heureux, Phillaus. Ratchet lever hand grease gun. 2,792,154, 5-14-57, Cl. 222-259.
- Lhota, Robert A., to Schmieg Industries, Inc. Air washing and cleaning apparatus. 2,796,241, 6-18-57, Cl. 261-24.
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- Li, Yao T. Motion transmitting means for pressure devices. 2,781,665, 2-19-57, Cl. 74-18.1.
- Liaaen, Nils J. Controllable pitch propeller. 2,777,525, 1-15-57, Cl. 170-160.19.
- Liach, Angelo R. Electric connector. 2,787,772, 4-2-57, Cl. 339-99.
- Liakhoff, Leonide: *See*—
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- Liang, Robert T. W.: *See*—
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Boicey, James H. 2,783,176.
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Carson, Frank J., and White. 2,814,164.
Caswall, Robert D. 2,777,173.
Clark, George V. 2,795,086.
Colbert, William H., and Morgan. 2,808,351.
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Gaiser, Romey A. 2,779,690.
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Sharp, Donald E. 2,800,175.
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- Libby, Edward W., to Bank of America National Trust and Savings Assn. Actuator for a plurality of carburetors. 2,811,862, 11-5-57, Cl. 74-471.
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- Liberty, Eugene M.: *See*—
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- Liberty Mfg. Corp.: *See*—
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- Libman, Max L., to Kessler Products Co., Inc. Threshold with readily removable sealing means. 2,794,220, 6-4-57, Cl. 20-64.
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Haseloff, Fritz. 2,805,023.
Koch, Werner. 2,806,984.
Koppelman, Floris. 2,782,359.
Krahl, Gottfried, and Böhm. 2,798,123.
Leopold, Otto. 2,805,305.
Mempel, Rudolf, and Schultz. 2,803,507.
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- Lichtenberger, Harley, to Whirlpool-Seeger Corp. Refrigerator evaporator. 2,776,551, 1-8-57, Cl. 62-126.
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- Lichtenberger, James F. Block puzzles. 2,788,975, 4-16-57, Cl. 273-132.
- Lichtenfels, Ira W., to General Electric Co. Grounding and open circuit protection for series motors. 2,807,770, 9-24-57, Cl. 318-547.
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Slough, Jack M., and Lichtenstein. 2,808,243.
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- Lichtgarn, James, to Otis Elevator Co. Moving stairway panneling. 2,785,286, 3-12-57, Cl. 240-2.
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- Lickteig, Albert F., Sr.: *See*—
- Lickteig, Albert F., Jr., and A. F. Lickteig, Sr. 2,797,917.
- Lidberg, Artur R. Improved mould for moulding concrete poles and the like. 2,797,466, 7-2-57, Cl. 25-118.
- Liddell, Robert W., Jr., to Hagan Corp. Method of treating sea water. 2,782,162, 2-19-57, Cl. 210-23.
- Liddell, William, to Imperial Chemical Industries Ltd. Metering pump tester. 2,795,950, 6-18-57, Cl. 73-3.
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- Liddecker, Valentine E. Anti-loading carburetor attachment. 2,808,102, 10-1-57, Cl. 158-38.
- Lidén, Odd G. A. Tent. 2,789,570, 4-23-57, Cl. 135-1.
- Lidén, Sten O., A. R. Petré, and J. S. Swenson, to Telefonaktiebolaget L M Ericsson. Apparatus for indicating and localizing leaks in gas-pressure protected cables. 2,788,658, 4-16-57, Cl. 73-40.5.
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- Leb, Anton, Lidl, Gager, Muntean, Schauenstein, Keintzel, and Bolz. 2,801,203.
- Lidov, Rex E.: *See*—
- Bluestone, Henry, Soloway, Hyman, and Lidov. 2,782,238.
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- Danish, Albert A., and Lidov. 2,804,420.
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- Liebelt, Howard E. Beverage maker and dispenser. 2,783,794, 3-5-57, Cl. 99-295.
- Lieberman, David. Poultry coops. 2,805,644, 9-10-57, Cl. 119-22.
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- Lieberman, Leon J. Clad metal. 2,814,095, 11-26-57, Cl. 29-191.2.
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- Liebhart, Max, and A. Bellinger, Staffell (Lahn), and E. Brückner, to Gebuder Netzach. Screening device having a rotating sieve drum. 2,804,975, 9-3-57, Cl. 209-287.
- Liebhich, John C., to Gendron Wheel Co. Invalid wheel chair having reversible drive and caster wheels. 2,782,835, 2-26-57, Cl. 155-30.
- Liebig, Edward O., to Baker & Co., Inc. Dental prosthetic device. 2,781,579, 2-19-57, Cl. 32-5.
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- Liebling, Rose. Toilet seat. 2,808,874, 10-8-57, Cl. 155-131.
- Liebman, Arno J., to Centriblast Corp. Centrifugal abrading machine. 2,782,564, 2-26-57, Cl. 51-9.
- Liebmann, Reinhold, to Olympia Werke A. G. Variable escapement mechanism for typewriters. 2,794,530, 6-4-57, Cl. 197-84.
- Liebowitz, Benjamin. Transistors. 2,813,326, 11-19-57, Cl. 29-25.3.
- Liebowitz, Simon. Sketching aid head attachment. 2,796,666, 6-25-57, Cl. 33-64.
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- Lief, Milton, to Chromcraft Corp. Fastener for metallic tubular furniture. 2,789,842, 4-23-57, Cl. 285-188.
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- Lieff, Morris, to The Patent and Licensing Corp. Construction clip. 2,780,850, 2-12-57, Cl. 24-73.
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- Andrews, David H., Liegey, Nozick, and Treitel. 2,780,803.
- Liehe, Hubert J., to Standard Oil Co. Lithium soap grease containing rust and copper corrosion inhibitors. 2,812,306, 11-5-57, Cl. 252-33.6.
- Lien, Arthur P.: *See*—
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- Lien, Jesse R., to the United States of America as represented by the Secretary of the Navy. Super-regenerative receiver. 2,790,165, 4-23-57, Cl. 343-6.5.
- Lienau, Carl C., and J. C. Patterson, Jr. Alarm system for swimming pools. 2,783,459, 2-26-57, Cl. 340-258.
- Liene, Hubert J., and W. L. Hayne, Jr., to Standard Oil Co. Lubricant grease composition containing surface esterified organic siliceous organophilic solid thickener. 2,805,994, 9-10-57, Cl. 252-28.
- Liengme, Francis: *See*—
- Kuhn, Georges, and Liengme. 2,814,251.
- Liepmann, Hans W., and A. Koshko, to California Institute Research Foundation. Means of measuring fluid velocity. 2,813,424, 11-19-57, Cl. 73-204.
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- Kronhaus, Dina, and Lifschutz. 2,777,625.
- Lifsey, Robert J. Television antenna rotating servosystem. 2,794,162, 5-28-57, Cl. 318-265.
- Lifson, William E.: *See*—
- Duncan, Gordon W., Lifson, and Haworth. 2,784,067.
- Liftainer System Co.: *See*—
- King, Byron W. 2,815,163.
- Lifton, Lewis. Handles for brief cases and luggage. 2,780,330, 2-5-57, Cl. 190-57.
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- Liger, Andrew W.: *See*—
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- Ligett, Waldo B., C. N. Wolf, and R. D. Closson, to Ethyl Corp. N-phenyl maleamic esters. 2,779,704, 1-29-57, Cl. 167-30.
- Ligett, Waldo B., R. D. Closson, and C. N. Wolf, to Ethyl Corp. Fungicidal compositions. 2,785,102, 3-12-57, Cl. 167-33.
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- Hackney, Edward J., Faucette, and Darkis. 2,805,671.
- Ligh, David R. Driving arrangement and motor overload protection. 2,785,369, 3-12-57, Cl. 318-475.
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- Light House, Inc.: *See*—
- Dodge, Robert J. 2,818,543.
- Parker, Huling H. 2,799,849.
- Light, James W.: *See*—
- Bodem, Roy C., and Light. 2,811,951.
- Light, Leon H.: *See*—
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- Light, Leon H., to North American Philips Co., Inc. Circuit arrangement for converting a lower D. C. voltage into a higher D. C. voltage. 2,791,739, 5-7-57, Cl. 321-2.
- Light Products, Inc.: *See*—
- Martin, Algy E., and Lorimor. 2,777,415.
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- Lightbourn, Salvador. Feed guide for printing equipment. 2,800,078, 7-23-57, Cl. 101-415.
- Lightfoot, Edwin N., Jr., and R. J. Taylor, to Chas. Pfizer & Co., Inc. Recovery and purification of vitamin B₁₂. 2,787,578, 4-2-57, Cl. 167-81.
- Lightfoot, Richard O., and J. M. Ulanovsky, to Paddock Pool Equipment Co. Fluid flow control apparatus. 2,790,461, 4-30-57, Cl. 137-635.
- Lightfoot, William J.: *See*—
- Lukes, James J., Lightfoot, and Montgomery. 2,792,435.
- Lightning & Transients Research Institute, Inc.: *See*—
- Newman, Morris M. 2,791,684.
- Lightolier, Inc.: *See*—
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- Ligon, Elmer R., to W. S. Dickey Clay Mfg. Co. Method and apparatus for forming plastic joints on clay pipe. 2,779,056, 1-29-57, Cl. 18-4.
- Liguori, Alfred T., to Delva Plastics, Inc. Ball point pen cartridge adapter. 2,778,336, 1-22-57, Cl. 120-8.
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- Liittjohann, Joseph M. Gizzard cutter. 2,793,391, 5-28-57, Cl. 17-11.
- Like, Ralph M., to Noma Lites, Inc. Phonograph tone arm restoring mechanism. 2,780,466, 2-5-57, Cl. 274-14.
- Likens, James R. Produce loading apparatus. 2,815,853, 12-10-57, Cl. 198-233.
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- Liljenberg, Harry A., to Modern Tool & Die Co. Seed and fertilizer spreader. 2,817,457, 12-24-57, Cl. 222-42.
- Liljengren, Curtis P., to T & C Aircraft Corp. Seat construction. 2,802,516, 8-13-57, Cl. 155-163.
- Liljengren, Curtis P., to T & C Aircraft Corp. Arm rest construction. 2,802,518, 8-13-57, Cl. 155-198.
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- Lill, Etchison G., to Motor Wheel Corp. Knife bar for reel type lawn mower. 2,786,321, 3-26-57, Cl. 56-289.
- Lilleman, Royal H., to Gardner-Denver Co. Piston construction. 2,792,265, 5-14-57, Cl. 309-10.
- Lillis, Stephen M., to Victor Mfg. & Gasket Co. Method of making cement bound asbestos paper. 2,791,159, 5-7-57, Cl. 92-39.
- Lillis, Stephen M., and J. C. Toman, to Victor Mfg. & Gasket Co. Cork asbestos elastomer sheet. 2,799,578, 7-16-57, Cl. 92-3.
- Lilliston Implement Co.: *See*—
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Nobles, Joe C., and Rietz. 2,813,391.
Phillips, John T., Jr. 2,788,628.
- Lillquist, Arvid E., to Cutler-Hammer, Inc. Electromagnets. 2,813,232, 11-12-57, Cl. 317-164.
- Lillquist, Torsten O., to General Motors Corp. Wheel slip control system. 2,806,149, 9-10-57, Cl. 290-17.
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Beillard, Jean Q. 2,791,531.
- Bird, Harold L., Jr., Stark, and Van Abeele. 2,806,024.
- Flynn, Edwin H., and Murphy. 2,812,323.
- Jones, Reuben G. 2,785,177.
- Kornfeld, Edmund C. 2,792,405.
- Kornfeld, Edmund C., Kline, and Fornefeld. 2,796,419.
- Kornfeld, Edmund C., Kline, and Morrison. 2,809,974.
- Mills, Jack. 2,812,363.
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- Pohland, Albert. 2,778,835.
- Pohland, Albert. 2,793,212.
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- Porter, Herschel D. 2,780,628.
- Shepard, Edwin R., and Gerzon. 2,798,094.
- Taggart, John K., and Coffey. 2,786,566.
- Zapapas, James R., and Thompson. 2,798,024.
- Lily-Tulip Cup Corp.: *See*—
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- Limb, Frank. Compound movement rotary chamber mills. 2,798,675, 7-9-57, Cl. 241-175.
- Limbach, David R. Adjustable hospital carriage. 2,818,315, 12-31-57, Cl. 311-5.
- Limberg, Alfons A.: *See*—
Kubacka, Joseph E., and Limberg. 2,817,558.
- Limberger, Walter, to Messrs. Dr. Böger K. G. Device for photographic reproduction. 2,783,016, 2-26-57, Cl. 248-363.
- Limerick, Donald A., and O. L. Wylie, Jr., to Shell Development Co. Hydrolysis of isopropyl esters with acid from higher alcohol hydrolysate. 2,776,324, 1-1-57, Cl. 260-639.
- Limonard, Gijsbertus W., to American Enka Corp. Spin pot chamber. 2,811,014, 10-29-57, Cl. 57-76.
- Lin, Hung C., to Radio Corp. of America. Stabilizing means for semi-conductor circuits. 2,802,071, 8-6-57, Cl. 179-175.
- Linander, Nils O., to Aktiebolaget Akermans Gjuteri & Mechaniska Verkstad. Control conduit mounting in drive shaft of excavating machines. 2,791,285, 5-7-57, Cl. 180-6.58.
- Lincoln, Charles C., Jr. Door construction. 2,791,809, 5-14-57, Cl. 20-35.
- Lincoln, Clovis W.: *See*—
Gold, Robert M., and Lincoln. 2,815,737.
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- Lincoln, Clovis W., P. B. Zeigler, and J. J. Verbrugge, to General Motors Corp. Windshield wiper. 2,779,199, 1-29-57, Cl. 74-70.
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- Lincoln, Clovis W., P. B. Zeigler, J. J. Verbrugge, and J. A. Olson, to General Motors Corp. Safety switch. 2,792,463, 5-14-57, Cl. 200-61.54.
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- Lincoln, Clovis W., P. V. Wysong, Jr., and R. A. Malone, to General Motors Corp. Mechanical follow-up mechanism. 2,802,371, 8-13-57, Cl. 74-388.
- Lincoln Electric Co.: *See*—
Eppich, John E. 2,795,841.
- Landis, George G., and Carroll. 2,784,301.
- Landis, George G., and Carroll. 2,810,064.
- Landis, George G., and Payne. 2,778,910.
- Landis, George G., and Payne. 2,790,925.
- Payne, Harold S. 2,776,363.
- Stringham, Leonidas K., and Jerabek. 2,814,579.
- Lincoln, Frank H., Jr.: *See*—
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- Lincoln, Frank H., Jr., and J. A. Hogg, to The Upjohn Co. Steroids. 2,813,860, 11-19-57, Cl. 260-239.55.
- Lincoln, Henry A.: *See*—
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- Lincoln, Hubert L.: *See*—
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- Lincoln, James: *See*—
Drewitt, James G. N., and Lincoln. 2,799,664.
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- Lincoln, James, to British Celanese Ltd. Organic processes for manufacture of polyetheresters. 2,799,665, 7-16-57, Cl. 260-47.
- Lincoln, James, to British Celanese Ltd. Condensation polymers and intermediates therefor. 2,807,606, 9-24-57, Cl. 260-75.
- Lincoln, John C., and S. G. Blumensadt, to The Universal Wire Spring Co. Wire bending machine. 2,783,782, 3-5-57, Cl. 140-71.
- Lincoln Laboratories, Inc.: *See*—
Kipnis, Frank. 2,801,201.
- Lincoln Park Industries, Inc.: *See*—
Delaney, John E. 2,810,200.
- Lincoln, Roland L. Heat exchanger. 2,813,698, 11-19-57, Cl. 257-2.
- Lind Industries, Inc.: *See*—
Lind, Otto H. 2,813,537.
- Lind, Otto H., to Lind Industries, Inc. Aromatic beverage bar. 2,813,537, 11-19-57, Cl. 137-353.
- Linda, Frank R. Method of packaging wax and the like. 2,777,480, 1-15-57, Cl. 141-11.
- Lindahl, Per-Erik, G. Elfving, and K.-H. Mattson, to Aktiebolaget Haglund & Soner. Apparatus for emergency power transfer. 2,783,393, 2-26-57, Cl. 307-64.
- Lindars, Herman. Time control apparatus. 2,799,811, 7-16-57, Cl. 317-141.
- Lindars, Herman. Automatic weighing apparatus. 2,801,819, 8-6-57, Cl. 249-46.
- Lindauer, Joseph L., Jr. Pizza pie cutter. 2,801,663, 8-6-57, Cl. 146-147.
- Lindbeck, Laurel B. Land leveling machine. 2,786,285, 3-26-57, Cl. 37-169.
- Lindberg, Edward J. Dynamo electric generators. 2,782,328, 2-19-57, Cl. 310-112.
- Lindberg Engineering Co.: *See*—
Dustman, Herman C. 2,777,041.
Edstrand, Elmer W. 2,816,334.
Lang, Karl A. 2,805,271.
Stevenson, Cary H. 2,809,223.
Tegarden, John E. 2,783,815.
- Lindberg, Erik O. H., to Svenska Ackumulator Aktiebolaget Jungner. Self-closing venting devices for electric storage batteries and the like. 2,813,142, 11-12-57, Cl. 136-178.
- Lindberg, Fritz L. Screw holder for screw drivers. 2,789,601, 4-23-57, Cl. 145-52.
- Lindberg, Richard C.: *See*—
Lullo, James L. 2,799,118.
- Lindberg, Roy: *See*—
Hart, Herbert F., Lindberg, and Hoop. 2,803,187.
- Lindberg, William S.: *See*—
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- Lindblom, Erik D. Method of manufacturing blade rings for radial flow elastic fluid machines. 2,800,706, 7-30-57, Cl. 29-156.8.
- Lindblom, Frank W., to Welsh Mfg. Co. Bridge and nose pad structure for an ophthalmic mounting. 2,783,681, 3-5-57, Cl. 88-43.
- Lindblom, Frank W., to Welsh Mfg. Co. Ophthalmic mounting. 2,811,896, 11-5-57, Cl. 88-47.
- Lindblom, Robert O.: *See*—
Ellis, David A., and Lindblom. 2,807,518.
Kaeding, Warren W., and Lindblom. 2,805,263.
- Lindbloom, William A., to General Telephone Laboratories, Inc. Cord type switchboard using register-senders. 2,817,713, 12-24-57, Cl. 179-27.
- Linde, Leonard J., to Allis-Chalmers Mfg. Co. Hinged panel cooperating with switchgear cubicle for operator's protection. 2,790,112, 4-23-57, Cl. 317-103.

- Linde, Leonard J., to Allis-Chalmers Mfg. Co. Circuit breaker having switch arm mounted on fluid conducting bearing. 2,816,993, 12-17-57, Cl. 200—148.
- Lindecker, Joseph B.: *See—*
- Sorensen, Carl P. 2,800,569.
- Lindell, Sigurd I., to S & C Electric Co. Circuit interrupter construction. 2,816,978, 12-17-57, Cl. 200—114.
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- Lindell, Sigurd I., to S & C Electric Co. Circuit interrupting means. 2,816,983, 12-17-57, Cl. 200—114.
- Lindell, Sigurd I., to S & C Electric Co. Circuit interrupter construction. 2,816,984, 12-17-57, Cl. 200—114.
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- Lindeman, Myrl A.: *See—*
- Wright, J. Randle, and Lindeman. 2,817,966.
- Lindemann, Herbert, and E. Stirnemann, to Lonza Elektrizitätswerke und Chemische Fabriken Aktiengesellschaft. Method of producing cellular resin bodies. 2,795,008, 6-11-57, Cl. 18—48.
- Lindemann, Howard C., and D. Mindheim. Slub detecting and locating apparatus. 2,798,912, 7-9-57, Cl. 200—61.14.
- Lindemann, Howard C., and D. Mindheim. Spindle stop. 2,803,106, 8-20-57, Cl. 57—88.
- Lindemann, Lawrence J. Fish lure. 2,788,603, 4-16-57, Cl. 43—26.2.
- Lindemann, Waldemar. Bundling and packeting press. 2,811,100, 10-29-57, Cl. 100—98.
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- Linden, Erik G., to the United States of America as represented by the Secretary of the Army. Spark generation. 2,805,366, 9-3-57, Cl. 315—240.
- Linden, Gosta R., to J. M. Lehmann Co., Inc. Adjustments of a scraper blade in a roller mill. 2,781,541, 2-19-57, Cl. 15—256.5.
- Linden, Gosta R., to J. M. Lehmann Co., Inc. Adjustments of rollers in a roller grinding mill. 2,805,028, 9-3-57, Cl. 241—159.
- Linden, Gustave B.: *See—*
- Gaspar, Bela, and Linden. 2,778,813.
- Linden, Henry R.: *See—*
- Pettyjohn, Elmore S., and Linden. 2,807,528.
- Linden, Warren E., and W. E. Lennon, to Utica Drop Forge & Tool Corp. Polishing device for deeply curved surfaces. 2,802,311, 8-13-57, Cl. 51—140.
- Lindenberger, Theodore. Vibration translating apparatus. 2,792,456, 5-14-57, Cl. 179—100.41.
- Lindenblad, Nils E., to Radio Corp. of America. Room temperature conditioner. 2,779,171, 1-29-57, Cl. 62—129.
- Lindenblad, Nils E., to Radio Corp. of America. Thermoelectric dehumidifier. 2,779,172, 1-29-57, Cl. 62—140.
- Lindenblad, Nils E., to Radio Corp. of America. Electron discharge devices of the growing wave type. 2,784,339, 3-5-57, Cl. 315—3.5.
- Lindenblad, Nils E., to Radio Corp. of America. Dual slot wide band antenna. 2,791,769, 5-7-57, Cl. 343—770.
- Lindenblad, Nils E., to Radio Corp. of America. Thermoelectric element alloy. 2,793,243, 5-21-57, Cl. 136—5.
- Lindenblad, Nils E., to Radio Corp. of America. High frequency device. 2,802,136, 8-6-57, Cl. 315—3.6.
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- Lindenmann, Adolf: *See—*
- Stoll, Arthur, Jucker, and Lindenmann. 2,800,476.
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- Linder, Ernest G., to the United States of America as represented by the Secretary of the Air Force. High energy bombardment-induced-conductivity control of electrical circuits. 2,801,389, 7-30-57, Cl. 332—68.
- Linder, Friedrich: *See—*
- Herlach, Fritz, and Linder. 2,801,573.
- Linder, Fritz: *See—*
- Dörzbach, Eugen, and Linder. 2,801,953.
- Linder, Ernest G., to Radio Corp. of America. Apparatus employing radioactive isotopes. 2,810,850, 10-22-57, Cl. 313—54.
- Linder, Ernest G., to Radio Corp. of America. Gas discharge device utilizing controlled electron trapping. 2,813,992, 11-19-57, Cl. 313—161.
- Linderoth, Erik T. Electrostatic dust separators. 2,787,334, 4-2-57, Cl. 183—7.
- Lindert, Albert W.: *See—*
- Brehm, Allen E., and Lindert. 2,796,408.
- Lindert, Albert W., to Standard Oil Co. Stabilized diester lubricant. 2,792,346, 5-14-57, Cl. 252—46.7.
- Linde's Eismaschinen Aktiengesellschaft: *See—*
- Wucherer, Johannes, and Becker. 2,784,572.
- Lindesmith, John L.: *See—*
- Boyden, Robert E., and Lindesmith. 2,783,939.
- Lindesmith, John L., to Clary Corporation. Readout gating and switching circuit for electronic digital computer. 2,793,806, 5-28-57, Cl. 235—61.
- Lindewald, Torsten. Method for storing oxidizable organic products in a gastight storage chamber having an inert gas atmosphere therein. 2,789,059, 4-16-57, Cl. 99—189.
- Lindgren, Carl G., to Vibro-Plus Corp. Apparatus for spreading surfacing materials. 2,789,485, 4-23-57, Cl. 94—46.
- Lindgren, Egon R.: *See—*
- Johnson, Glenn D., and Lindgren. 2,800,300.
- Lindgren, Frank A., and R. C. Lundquist, to Goodman Mfg. Co. Continuous mining machine having a movable cutting head and movable conveying mechanism. 2,788,201, 4-9-57, Cl. 262—9.
- Lindgren, Robert W. Subsoil cultivating device. 2,788,731, 4-16-57, Cl. 97—47.89.
- Lindhagen, Teodor I.: *See—*
- Nilsson, Hans R., and Lindhagen. 2,804,260.
- Lindhagen, Teodor I., and H. R. Nilsson, to Svenska Rotor Maskiner Aktiebolag. Elastic fluid actuated power systems. 2,782,596, 2-26-57, Cl. 60—39.61.
- Lindhagen, Teodor I., and H. R. Nilsson, to Svenska Rotor Maskiner Aktiebolag. Elastic fluid actuated power systems. 2,799,253, 7-16-57, Cl. 121—70.
- Lindhagen, Teodor I., and H. R. Nilsson, to Svenska Rotor Maskiner Aktiebolag. Cooling of machine structures. 2,801,792, 8-6-57, Cl. 230—210.
- Lindhagen, Teodor I., and H. R. Nilsson, to Svenska Rotor Maskiner Aktiebolag. Rotary positive displacement engine with helically grooved cooled rotors. 2,808,813, 10-8-57, Cl. 121—70.
- Lindheim, Ottar. Speed indicators. 2,810,362, 10-22-57, Cl. 116—116.
- Lindholm, Donald W.: *See—*
- Kalal, Gerald W., and Lindholm. 2,817,889.
- Lindinger, Alfred: *See—*
- Tanner, Lawrence S., and Lindinger. 2,793,569.
- Lindlar, Herbert: *See—*
- Isler, Otto, Lindlar, Montavon, Ruegg, and Zeller. 2,806,885.
- Lindley, Frederick A., to Smith-Meeker Engineering Co. Land mass trainer. 2,788,588, 4-16-57, Cl. 35—10.4.
- Lindley, Ross C. Dental platens for orientating and holding castings. 2,786,272, 3-26-57, Cl. 32—32.
- Lindley, Mack O., to Bendix Aviation Corp. Locking mechanism for retractable aircraft landing gear. 2,808,810, 10-8-57, Cl. 121—40.
- Lindner, Fritz, and K. Kühn, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for recovering vitamin B₆. 2,793,161, 5-21-57, Cl. 167—81.
- Lindner, Herbert, G. m. b. H.: *See—*
- Schultze, Kurt H. 2,799,178.
- Schultze, Kurt H. 2,808,731.
- Lindquist, August B., Jr.: *See—*
- Dorman, Stephen C., and Lindquist. 2,791,605.
- Lindquist, Elmer W., to Dreyer Co. Refractory roller furnace conveyor system. 2,788,957, 4-16-57, Cl. 263—6.
- Lindsay, Allen R. Electrolytic marking device. 2,798,849, 7-9-57, Cl. 204—22.4.
- Lindsay Co., The: *See—*
- Kryzer, Benjamin H. 2,796,177.
- Kryzer, Benjamin H., and Lindsay. 2,789,697.
- Lindsay, Lynn G.: *See—*
- Lindsay, Lynn G. 2,778,799.
- Lindsay, Griffith W., to Buckeye Iron & Brass Works. Vertical vent fitting. 2,781,941, 2-19-57, Cl. 220—44.
- Lindsay, Harvey B. Point detonating fuze. 2,808,000, 10-1-57, Cl. 102—73.
- Lindsay, James B., to Kahle Engineering Co. Grid winding machine. 2,778,386, 1-22-57, Cl. 140—71.5.
- Lindsay, James B., to Radio Corp. of America. Blocking oscillator circuit. 2,816,230, 12-10-57, Cl. 250—36.
- Lindsay, James B., and D. A. Morelli, said Morelli assor. to R. B. Glasco. Pressure gauge. 2,813,427, 11-19-57, Cl. 73—411.
- Lindsay, Kenneth L.: *See—*
- DePree, David O., and Lindsay. 2,801,154.
- Lindsay, Lynn G.: *See—*
- Kryzer, Benjamin H., and Lindsay. 2,789,597.
- Lindsay, Lynn G., to The Lindsay Co. Water softening apparatus. 2,778,799, 1-22-57, Cl. 210—24.
- Lindsay, Maurice E. Cotton picking spindle. 2,787,109, 4-2-57, Cl. 56—50.
- Lindsay Ripe Olive Co.: *See—*
- Kagley, William H., and Milam. 2,813,561.
- Kagley, William H., and Milam. 2,816,587.
- Kagley, William H., Wylie, and Webster. 2,805,951.
- Lindsay, Wallace R. Automatic adjustable partition machine. 2,802,408, 8-13-57, Cl. 93—37.
- Lindsay, Wallace R., and R. F. Stewart, to Inman Mfg. Co., Inc. Duplex automatic setting-up machine. 2,794,373, 6-4-57, Cl. 93—51.
- Lindsey, Robert J., to American Steel Foundries. Hydraulic press circuit. 2,811,838, 11-5-57, Cl. 60—97.
- Lindsey, Walter F. Device for evaluating the sensitivity of an optical system utilizing the Foucault knife edge test. 2,777,355, 1-15-57, Cl. 88—14.
- Lindstaedt, Frank F., S. A. Melbostad, and F. S. Wright: *See—*
- Melbostad assor. to said Lindstaedt. Bag filling and weighing machine. 2,781,994, 2-19-57, Cl. 249—46.
- Lindstrom, Eddie G., to California Research Corp. Production of alkyl hydroperoxides. 2,803,661, 8-20-57, Cl. 260—610.

- Lindstrom, Harold R.: *See*—
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- Lindström, Helge E.: *See*—
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- Lindstrom, Hugo: *See*—
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- Lindström, Hugo, to Allmanna Svenska Elektriska Aktiebolaget. Induction heating. 2,805,309, 9-3-57, Cl. 219—10-51.
- Lindstrom, John, to The Viking Tool & Machine Corp. Two-cycle internal combustion engine. 2,792,818, 5-21-57, Cl. 123—71.
- Lindstrom, Oscar H., to Geo. A. Hormel & Co. Hog stomach opener and washer. 2,791,800, 5-14-57, Cl. 17—43.
- Lindvall, Nils B.: *See*—
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- Lindvig, Philip E., to E. I. du Pont de Nemours and Co. Process for preparing urea-formaldehyde solid foam. 2,789,095, 4-16-57, Cl. 260—2.5.
- Line, Russel E.: *See*—
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- Line Scale Co., Inc.: *See*—
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- Olson, Wallace F., and Martin. 2,810,397.
- Linear, Inc.: *See*—
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- Lineberry, Dewey D., and G. W. Reigel, to National Cylinder Gas Co. Process for simultaneously gelatinizing and catalytically modifying starch suspensions. 2,783,167, 2-26-57, Cl. 127—33.
- Linen Thread Co. Ltd., The: *See*—
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- Lines, Anthony H., to D. Napier & Son Ltd. Apparatus for spark machining. 2,786,128, 3-19-57, Cl. 219—145.
- Lines, Carl H., to Avco Mfg. Corp. Vertically adjustable rotary dishrack for domestic dishwasher. 2,799,285, 7-16-57, Cl. 134—158.
- Lines, Jerry J. Swivel sander. 2,781,617, 2-19-57, Cl. 51—195.
- Lines, Raydon A. Post hole digger. 2,817,497, 12-24-57, Cl. 255—69.
- Ling, Jap K.: *See*—
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- Lingal, Harry J., T. E. Browne, Jr., and A. P. Strom, to Westinghouse Electric Corp. Circuit interrupters. 2,798,922, 7-9-57, Cl. 200—148.
- Lingal, Harry J., J. Sandin, and R. Hauser, to Westinghouse Electric Corp. Circuit interrupters. 2,809,252, 10-8-57, Cl. 200—108.
- Lingard, Russel S. Swimming pool cover. 2,788,849, 4-16-57, Cl. 160—188.
- Lingenbrink, Hermann E. F. C.: *See*—
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- Lingg, Thomas R. Waste handling device. 2,791,374, 5-7-57, Cl. 232—433.
- Lingley, Robert C., to MacGregor Instrument Co. Hypodermic and like syringes, needles for use therewith and connections therebetween. 2,806,473, 9-17-57, Cl. 128—218.
- Link Aviation, Inc.: *See*—
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- Smith, Robert L., and Kittredge. 2,787,842.
- Willford, Edward A. 2,812,408.
- Link-Belt Co.: *See*—
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- Davis, Ralph P. 2,806,262.
- Davis, Ralph P. 2,814,844.
- Erickson, Willard E. 2,788,904.
- Haaff, George W. 2,793,920.
- Harvengt, Edmond. 2,776,752.
- Huber, Albert L. 2,776,059.
- Jeffras, Homer L., Sr. 2,796,972.
- Leigh, Theodore M. 2,803,972.
- Musschoot, Albert, and Davis. 2,818,162.
- Rausch, John P. 2,795,343.
- Richard, Joseph J. 2,791,474.
- Uhrich, Morris B., and Miller. 2,798,592.
- Link, Charles T., Jr., to Elgin Sweeper Co. Material compacting mechanism. 2,788,737, 4-16-57, Cl. 100—233.
- Link, Charles T., Jr., to Elgin Sweeper Co. Street sweeping machine with compacting means in the dirt box thereof and a method of sweeping. 2,789,067, 4-16-57, Cl. 134—6.
- Link, Harold S., and K. J. Stodden, to United States Steel Corp. Microscope attachment for projecting rating chart into field of vision. 2,790,347, 4-30-57, Cl. 88—14.
- Link, Herbert B.: *See*—
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- Link, Karl P.: *See*—
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- Robertson, Alice O. and D. N., and Link. 2,779,762.
- Robertson, Alice O. and D. N., and Link. 2,779,768.
- Link, Karl P., to Wisconsin Alumni Research Foundation. Warfarin-alkali metal derivatives and processes of preparing the same. 2,777,859, 1-15-57, Cl. 260—343.2.
- Link, Karl P., to Wisconsin Alumni Research Foundation. Warfarin sodium rodenticidal composition. 2,783,177, 2-26-57, Cl. 167—46.
- Link, Ralph I.: *See*—
Godlewski, Edmund E., and Link. 2,797,842.
- Link, Richard L. Portable sawmill lifting and dogging apparatus. 2,783,791, 3-5-57, Cl. 143—92.
- Linke, Gerhard, to N. V. Tema. Oscillatory mill with air separation. 2,778,577, 1-22-57, Cl. 241—47.
- Linke, Johannes, to Machine Tool Works Oerlikon, Administration Co. Devices for automatically disintegrating the emptied ammunition belts of automatic weapons. 2,803,169, 8-20-57, Cl. 89—33.
- Linker Machines, Inc.: *See*—
Demarest, Daniel D. 2,800,681.
- Demarest, Daniel D., Perkins, Karius, and Berendt. 2,775,784.
- Demarest, Daniel D., Perkins, Karius, and Berendt. 2,791,797.
- Links, Heinrich K., to Daimler-Benz Aktiengesellschaft. Fuel injection pump. 2,777,390, 1-15-57, Cl. 103—38.
- Links, Heinrich K., to Daimler-Benz Aktiengesellschaft. Injection unit for combustion engines. 2,778,351, 1-22-57, Cl. 123—139.
- Linn, Carl B.: *See*—
Hervert, George L., and Linn. 2,810,003.
- Vesely, Jerome A., and Linn. 2,809,921.
- Linn, Carl B., to Universal Oil Products Co. Condensation of aromatic hydrocarbon derivatives with carbohydrates and related materials. 2,798,079, 7-2-57, Cl. 260—345.7.
- Linn, Carl B., to Universal Oil Products Co. Condensation of hydrocarbons with carbohydrates and related materials. 2,798,098, 7-2-57, Cl. 260—618.
- Linn, Carl B., to Universal Oil Products Co. Di-(alkylaryl)-desoxy-hexitols. 2,798,099, 7-2-57, Cl. 260—618.
- Linn, Carl B., to Universal Oil Products Co. Diarylated ketoses. 2,798,100, 7-2-57, Cl. 260—618.
- Linn, Carl B., to Universal Oil Products Co. Production of resins from formaldehyde and reaction product of phenol and alginic acid. 2,806,007, 9-10-57, Cl. 260—17.2.
- Linn, Frank F. Vehicle axle. 2,784,964, 3-12-57, Cl. 267—11.
- Linneman, Fred. Boat trailer with boat clamping means. 2,777,712, 1-15-57, Cl. 280—414.
- Linnert, Arthur, and G. Short. Pneumatic delivery box. 2,810,937, 10-29-57, Cl. 19—75.
- Linnert, George E., and W. C. Clarke, Jr., to Armco Steel Corp. Stainless steel castings. 2,784,083, 3-5-57, Cl. 75—125.
- Linneweh, Kurt: *See*—
Pölguter, Franz, Pöhlant, and Linneweh. 2,792,600.
- Linney, Albert T., and J. H. King. Vizor cap. 2,787,791, 4-9-57, Cl. 2—197.
- Linotype Gesellschaft mit beschränkter Haftung: *See*—
Debus, Karl. 2,816,488.
- Debus, Karl. 2,816,649.
- Linotype and Machinery Ltd.: *See*—
Harris, Walter. 2,788,553.
- Linscott, Durand C. Sanitary sump pump. 2,795,193, 6-11-57, Cl. 103—93.
- Linsell, Herman O. Cart or hand truck for moving furniture. 2,782,947, 2-26-57, Cl. 214—373.
- Linskey, John J., and E. H. Call. Resilient cover for vise jaw. 2,778,257, 1-22-57, Cl. 81—38.
- Linsley, John F., and B. G. Wheeler, to Cutler-Hammer, Inc. Braking control systems for direct current motors. 2,818,542, 12-31-57, Cl. 318—377.
- Linstedt, William F., to Ready-To-Bake Foods, Inc. Carton lining machine. 2,803,174, 8-20-57, Cl. 93—36.01.
- Lintner, Carl J., Jr., to The Upjohn Co. Tri-sulfa aluminum salts. 2,776,970, 1-8-57, Cl. 260—239.65.
- Linton, Earl M. Fishhook. 2,782,548, 2-26-57, Cl. 43—37.
- Lintott, John, to Maycrete Ltd. Paneled building wall construction. 2,792,595, 5-21-57, Cl. 20—4.
- Lints, Ronald V.: *See*—
Ness, Irving S., Lints, and Petterson. 2,782,130.
- Lintzen, Franz: *See*—
Husung, Ernest, and Lintzen. 2,792,931.
- Linville, John G., to Bell Telephone Laboratories, Inc. Branching circuit. 2,777,115, 1-8-57, Cl. 333—8.
- Linville, John G., to Bell Telephone Laboratories, Inc. Active transducer. 2,788,496, 4-9-57, Cl. 333—80.
- Linville, Eugene H.: *See*—
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- Linwood, William H., Jr., and B. V. Holland. Pastry mailing container. 2,784,895, 3-12-57, Cl. 229—14.
- Linzell, Cecil J., to Crawford & Co. (Tottenham) Ltd. Collets. 2,817,535, 12-24-57, Cl. 279—55.
- Lion, Kurt S. Electric system and method. 2,800,622, 7-23-57, Cl. 321—38.
- Lionel Corp., The: *See*—
Beger, Richard E. 2,778,508.
- Bonanno, Joseph L. 2,799,119.
- Digirolamo, John V. M. 2,817,183.
- Pettit, Frank. 2,813,648.
- Stellpflug, August W., and Tait. 2,778,289.
- Zion, Moses. 2,779,133.
- Lionweld Ltd.: *See*—
Mudd, Derek P. 2,798,284.
- Lipari, Michael. Container attachment for providing a compartmental dispensing receptacle. 2,793,776, 5-28-57, Cl. 215—6.
- Lipari, Michael. Compartmental dispensing receptacle. 2,807,384, 9-24-57, Cl. 215—11.
- Lipari, Michael. Receptacles. 2,813,649, 11-19-57, Cl. 215—11.

- Lipe, Clarence H., Jr., to Alamance Industries, Inc. Yarn tension device. 2,793,823, 5-28-57, Cl. 242-147.
- Lipe-Rollway Corp.: See—
Harney, Bernard C., and Lakins. 2,781,574.
Root, Robert S. 2,796,964.
Spase, Charles B. 2,801,722.
Spase, Charles B., and Root. 2,788,876.
- Lipetzky, August J. Plant protecting attachments for cultivators. 2,805,614, 9-10-57, Cl. 97-188.
- Lipfert, Donald E., to The E. Inghram Co. Motor of regulated output torque. 2,801,352, 7-30-57, Cl. 310-49.
- Lipinski, Johann, to Alex. Friedmann Kommanditgesellschaft. Dispenser for lubricants. 2,817,462, 12-24-57, Cl. 222-212.
- Lipkin, Daniel M., to Sperry Rand Corp. Pulse type transverse magnetic amplifier. 2,811,652, 10-29-57, Cl. 307-88.
- Lipkin, Daniel M., to Sperry Rand Corp. Modified pulse type transverse magnetic amplifier with progressive signal growth. 2,814,733, 11-26-57, Cl. 307-88.
- Lipkin, Moses K., to Sun Oil Co. Refining sulfonates. 2,808,430, 10-1-57, Cl. 260-504.
- Lipkind, Henry, A. I. Sherer, and M. H. Zara, to L. Sonneborn Sons, Inc. Surfacing materials. 2,785,988, 3-19-57, Cl. 106-109.
- Lipkind, Henry, A. I. Sherer, and M. H. Zara, to L. Sonneborn Sons, Inc. Substantially waterproof surfacing materials. 2,791,511, 5-7-57, Cl. 106-109.
- Lipman, Elmer. Liquid dispenser. 2,814,419, 11-26-57, Cl. 222-207.
- Lipman, Leonard M., to Warner Mfg. Corp. Screens, parts therefor and methods for producing said screens. 2,778,100, 1-22-57, Cl. 29-509.
- Lipman, Leonard M., to Warner Mfg. Corp. Window frames and parts. 2,794,522, 6-4-57, Cl. 189-75.
- Lippard, Herman I. Tag printing device. 2,777,387, 1-15-57, Cl. 101-111.
- Lippe, Fritz, assor. of part interest to R. Koster. Production of sintered building material. 2,776,120, 1-1-57, Cl. 263-8.
- Lippelt, Hans B. Housed animal stalls having automatically operating release means. 2,787,983, 4-9-57, Cl. 119-110.
- Lippert, Erhard M., R. L. Schultz, and A. V. Neyfeldt, to Victor Adding Machine Co. Motor switch operating mechanism for calculating machines. 2,792,176, 5-14-57, Cl. 235-62.
- Lippert, Ralph E., and E. J. Raut, to The Andrew Jergens Co. Article-manipulating apparatus for packaging machines. 2,779,453, 1-29-57, Cl. 198-33.
- Lippiatt, Roy E.: See—
Major, Seeley L., and Lippiatt. 2,800,336.
- Lippincott, Haines H. Demountable pistons for prime movers. 2,785,935, 3-19-57, Cl. 309-14.
- Lippincott, Leander H.: See—
Holstebro, Kaye B., and Lippincott. 2,815,623.
- Lippincott, Samuel B.: See—
Muessig, Clifford W., and Lippincott. 2,816,944.
- Lippincott & Smith: See—
Comb, David M. 2,786,642.
- Lipplach, Alexander M., to Collins Radio Co. Axial blower with flow control stator. 2,810,512, 10-22-57, Cl. 230-114.
- Lippman, Aaron H.: See—
Lippman, Jerome, and Lorence. Re. 24,312.
- Lippman, Aaron H. and J. Self-adjusting piston for soap dispenser. 2,815,994, 12-10-57, Cl. 309-23.
- Lippman, Alfred, Jr., to The Commonwealth Engineering Co. of Ohio. Method of making a glass seal. 2,813,375, 11-19-57, Cl. 49-81.
- Lippman, Alfred, Jr., to The Commonwealth Engineering Co. of Ohio. Method of sealing a port in a glass object. 2,814,100, 11-26-57, Cl. 29-530.
- Lippman, Jerome: See—
Lippman, Aaron H. and J. 2,815,994.
- Lippman, Jerome, and R. W. Lorence, $\frac{1}{2}$ to J. Lippman and $\frac{1}{2}$ to A. H. Lippman. Soap dispenser. Re. 24,312, 5-7-57, Cl. 222-181.
- Lippmann, Arthur W., to Lippmann Engineering Works. Gyrratory crusher with sealing ring. 2,787,424, 4-2-57, Cl. 241-216.
- Lippmann Engineering Works: See—
Lippmann, Arthur W. 2,787,424.
- Lips, Theodor M. A., and W. L. Vervest, to North American Phillips Co., Inc. Shaft-positioning device. 2,814,771, 11-26-57, Cl. 318-469.
- Lipschultz, Melvin: See—
Joffe, Morris H., and Lipschultz. 2,776,119.
- Lipschutz, Frank K., to Louisville Cap Corp. Insulated cap. 2,803,827, 8-27-57, Cl. 2-195.
- Lipschutz, Frank K., to Louisville Cap Corp. Shape-retaining cap. 2,803,828, 8-27-57, Cl. 2-195.
- Lipscomb, Lindsey I., to Esso Research and Engineering Co. Coring device. 2,807,439, 9-24-57, Cl. 255-14.
- Lipscomb, Robert D., to E. I. du Pont de Nemours and Co. Bis-cyclohexadienones and process therefor. 2,794,051, 5-28-57, Cl. 260-586.
- Lipscomb, Willis L. Direct-indirect reversible luminaire. 2,777,053, 1-8-57, Cl. 240-78.
- Lipscomb, Willis L. Collapsible horizontal ring luminaire. 2,801,331, 7-30-57, Cl. 240-78.
- Lipsey, Henry: See—
Kohl, Everard F., and Lipsey. 2,790,219.
- Lipski, Richard A. Training attachments for stringed instruments. 2,782,670, 2-26-57, Cl. 84-283.
- Lipsky, Marcus: See—
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- Liptay, John M. Fume hood. 2,779,265, 1-29-57, Cl. 98-115.
- Lipton, Saul S. Reversible mop head and frame therefor. 2,782,441, 2-26-57, Cl. 15-229.
- Lipton, Thomas J., Co., Inc.: See—
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Bennett, Arthur J. 2,796,930.
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- Liquid Carbonic Corp., The: See—
Vogel, Edward J. 2,798,145.
Vogel, Edward J. 2,799,769.
- Liquidometer Corp., The: See—
Figueira, Joseph J. 2,785,385.
Wickesser, Arthur. 2,785,384.
- Lis, Stephen W.: See—
Hensgen, Bernard T., Van Dolah, Patterson, and Lis. 2,795,790.
- Lisbon, Julius E. Cooking device. 2,817,286, 12-24-57, Cl. 99-423.
- Lisciani, Constantine, to The Protectoseal Co. Pressure relief valve structure. 2,781,778, 2-19-57, Cl. 137-540.
- Lisec, Frank W. Automatic water fountain for poultry. 2,781,024, 2-12-57, Cl. 119-80.
- Lisherness, Hillman A., to Forster Mfg. Co., Inc. Slotting apparatus for clothespin machines. 2,782,816, 2-26-57, Cl. 144-9.
- Lisi, Frank A. Collapsible chair. 2,789,623, 4-23-57, Cl. 155-139.
- Liska, Raymond H., to The Cleveland Universal Jig Co. Mechanism for imparting rotary motion to index tables and the like. 2,784,612, 3-12-57, Cl. 74-393.
- Liska, Raymond H., to The Cleveland Universal Jig Co. Mechanism for imparting rotary motion to index tables and the like. 2,788,534, 4-16-57, Cl. 74-393.
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- Liska, Raymond H., to The Cleveland Universal Jig Co. Mechanism for imparting rotary motion to index tables and the like. 2,788,673, 4-16-57, Cl. 74-393.
- Liskey, George W. Motor vehicle frame gauge. 2,798,296, 7-9-57, Cl. 33-46.
- Liskowski, Casimer S. Dental articulator. 2,797,483, 7-2-57, Cl. 32-32.
- Lisle Corp.: See—
Brooks, Thomas E. 2,780,115.
- Lisovicz, Edward J.: See—
Broderick, Nicholas E., and Lisovicz. 2,792,515.
- List, Adolph P. Battery switch. 2,786,921, 3-26-57, Cl. 200-161.
- List, Hildegard, nee Biedermann, to Hercules Powder Co. Process for the production of hydroxylamines. 2,795,611, 6-11-57, Cl. 260-563.
- Lister, Charles A., to Square D Co. High voltage contactor. 2,790,878, 4-30-57, Cl. 200-147.
- Lister, Ernest J.: See—
Roberts, George R., and Lister. 2,779,547.
- Lister, R. A., & Co. Ltd.: See—
Spencer, Charles H. 2,790,283.
- Liston, Earl C., to Howry-Berg Steel & Iron Works, Inc. Supporting devices for elevating conveyors. 2,813,618, 11-19-57, Cl. 198-121.
- Liston, Sol. Continuous automatic dough making means. 2,791,405, 5-7-57, Cl. 259-54.
- Liszak, Eugene J., to F. L. Jacobs Co. Method of making a hollow article. 2,795,844, 6-18-57, Cl. 29-458.
- L'Italian, Yvon J., and M. C. Rebstock, to Parke, Davis & Co. Methylaminopropiophenone compounds and methods for producing same. 2,802,865, 8-13-57, Cl. 260-501.
- Litchfield, George A., Jr., to Forstmann Woolen Co. Automatic weft replenishing loom. 2,777,473, 1-15-57, Cl. 139-232.
- Litchfield, George A., Jr., to Forstmann Woolen Co. Automatic weft replenishing loom. 2,777,474, 1-15-57, Cl. 139-232.
- Lithio, Clarence N., to Rapinwax Paper Co. Apparatus for heat-sealing a labeling band to a wrapping strip. 2,790,480, 4-30-57, Cl. 154-16.
- Lithium Corp. of America, Inc.: See—
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- Litman, Bernard, to American Bosch Arma Corp. Variable inductor. 2,786,186, 3-19-57, Cl. 336-119.
- Litman, Harry: See—
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- Litsheim, Peder O. Seizing for life boat covers. 2,811,728, 11-5-57, Cl. 9-1.
- Litster, Alexander A.: See—
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- Littau, George, $\frac{1}{2}$ to A. C. Cotney, Jr. Fishing rod supporting means. 2,810,981, 10-29-57, Cl. 43-16.
- Littell, Ruddy: See—
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- Litterall, Inc.: See—
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- Littig, Edward J. Exercising stand for bicycles. 2,805,860, 9-10-57, Cl. 272-73.

- Little, Arthur D., Inc.: *See*—
 Ayars, Edward M., Jr., and Little. 2,801,460.
 Baldwin, Stephen P., and Wood. 2,792,094.
 Feick, George, III. 2,808,318.
 Harford, Charles G. 2,816,051.
 Kinckley, Richard B. 2,785,536.
 Sauer, Charles W. 2,786,078.
 Zimmermann, Francis J. 2,776,069.
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 Heckert, Richard E., and Little. 2,794,824.
 Little, Ernest L., Jr., and W. J. Middleton, to E. I. du Pont de Nemours and Co. Amino-halogenodicyanopyridines and their preparation. 2,790,805, 4-30-57, Cl. 260—294.9.
- Little, Frank L., Jr. Automobile hanging desk or table. 2,818,317, 12-31-57, Cl. 311—21.
- Little, Harold E.: *See*—
 Little, Leslie E., and H. E. 2,815,165.
- Little, John D.: *See*—
 Du Rose, Arthur H., and Little. 2,782,152.
 Du Rose, Arthur H., and Little. 2,782,153.
 Du Rose, Arthur H., and Little. 2,782,154.
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- Little, John M., to American Grease Stick Co. Device for cleaning and lubricating rubber. 2,784,434, 3-12-57, Cl. 15—121.2.
- Little, John R., Jr.: *See*—
 Clark, Eugene F., and Little. 2,802,355.
- Little, John W., Co.: *See*—
 Little, Peter K. 2,818,006.
- Little, Leslie E., Sr., and H. E. to Bemis Bro. Bag Co. Bag. 2,815,166, 12-3-57, Cl. 229—62.5.
- Little, Peter K., to John W. Little Co. Disk inserting machine. 2,818,006, 12-31-57, Cl. 93—55.1.
- Little, Reuel W. Automatic tree injector. 2,795,899, 6-18-57, Cl. 47—57.5.
- Little, Reuel W. Tree injector. 2,803,924, 8-27-57, Cl. 47—57.5.
- Little, Robert K. Device for cleaning a coffee maker. 2,782,440, 2-26-57, Cl. 15—213.
- Little, Steven M., to the United States of America as represented by the Secretary of the Navy. Rocket launcher. 2,802,399, 8-13-57, Cl. 89—1.7.
- Little, Thomas B., to Northeastern Paper Products Ltd. Apparatus for transporting materials in a liquid carrier. 2,811,393, 10-29-57, Cl. 302—14.
- Little, Thomas H., to Multi-Products, Inc. Brake control valve mechanism. 2,803,425, 8-20-57, Cl. 251—257.
- Little, William G. Combination lipstick holder. 2,796,873, 6-25-57, Cl. 132—79.
- Littleton, Jesse T., to Corning Glass Works. Method of shaping a glass article. 2,795,084, 6-11-57, Cl. 49—84.
- Littleton, Leonidas R. Thermostatic mixing valve. 2,792,178, 5-14-57, Cl. 236—12.
- Littmann, Martin F., to Armco Steel Corp. Magnetic material and process of making it. 2,783,170, 2-26-57, Cl. 148—120.
- Litton, Charles V., to Litton Industries, Inc. Magnetron tuner device. 2,799,802, 7-16-57, Cl. 315—39.61.
- Litton, Charles V., to Litton Industries, Inc. Magnetron tuner device. 2,800,609, 7-23-57, Cl. 315—39.61.
- Litton, Charles V., and P. W. Crapuchettes, to Litton Industries, Inc. Tunable magnetrons. 2,806,178, 9-10-57, Cl. 315—39.61.
- Litton Industries, Inc.: *See*—
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 Litton, Charles V. 2,799,802.
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- Litwin, Arthur J. 2,776,412.
- Litwin, John. Fishing lure. 2,802,294, 8-13-57, Cl. 43—42.22.
- Litzenberg, David P. Motor driven pumps. 2,814,254, 11-26-57, Cl. 103—87.
- Liu, Tien-Shih: *See*—
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- Livadary, John P. Intraloop multicircuit coupling. 2,806,092, 9-10-57, Cl. 179—100.1.
- Livermont, Frank W. Hand-operated impact torque wrench. 2,776,588, 1-8-57, Cl. 81—52.3.
- Livermont, Frank W., to Tubing Seal Cap, Inc. Die construction. 2,781,016, 2-12-57, Cl. 113—16.
- Livers, Carlos B., to Bendix Aviation Corp. Follow-up mechanism for hydraulic motor valve. 2,799,250, 7-16-57, Cl. 121—41.
- Livers, Harold F., to M. C. Harter. Pipe beveling machine. 2,813,342, 11-19-57, Cl. 33—21.
- Liversidge, Charles: *See*—
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- Livingood, James S., Jr., to Drewry Photocolor Corp. Apparatus for making photographic color print. 2,791,173, 5-7-57, Cl. 101—13.0.
- Livingston, Clifton W. Method of mining ores in situ by leaching. 2,818,240, 12-31-57, Cl. 262—3.
- Livingston, Gideon E., to Argenta Products Co. Process of manufacturing synthetic pearl essence. 2,807,858, 10-1-57, Cl. 23—70.
- Livingston, Herschel N., to Minneapolis-Honeywell Regulator Co. Voltage ratio measuring apparatus. 2,790,146, 4-23-57, Cl. 324—140.
- Livingston, Herschel N., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,798,986, 7-9-57, Cl. 317—6.
- Livingston, John A. Process for the production of nodular iron. 2,792,300, 5-14-57, Cl. 75—130.
- Livingston, Joseph L. Building wall construction. 2,793,403, 5-28-57, Cl. 20—4.
- Livingston, Milton S., to Zenith Radio Corp. Television cabinet with retractable speaker on top wall. 2,789,158, 4-18-57, Cl. 178—5.8.
- Livingston, Penn P. Trench cutting tool. 2,797,503, 7-2-57, Cl. 37—80.
- Livingston Tool Co.: *See*—
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 Harmes, Oren B., and Stewart. 2,813,694.
- Ljungberg, Ture A. Steel measuring tapes. 2,814,881, 12-3-57, Cl. 33—138.
- Ljungström, Åke B., to Aktiebolaget Rosenblads Patent. Plate type heat exchanger. 2,787,446, 4-2-57, Cl. 257—245.
- Ljungstrom, Fredrik, to Svenska Skifferolje Aktiebolaget. Recovering sub-surface bituminous deposits by creating a frozen barrier and heating in situ. 2,777,679, 1-15-57, Cl. 262—3.
- Ljungström, Fredrik, to Svenska Skifferolje Aktiebolaget. Method of recovering oil and gases from non-consolidated bituminous geological formations by a heating treatment in situ. 2,780,450, 2-5-57, Cl. 262—3.
- Ljungström, Fredrik, to Svenska Skifferolje Aktiebolaget. Device for recovering fuel from subterranean fuel-carrying deposits by heating in their natural location using a chain heat transfer member. 2,789,805, 4-23-57, Cl. 262—3.
- Llewellyn, William L.: *See*—
 Dreisonstok, Richard H., and Llewellyn. 2,802,284.
- Llewellyn, David M.: *See*—
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- Llopi, Salvadore S. Portable spraying means. 2,815,984, 12-10-57, Cl. 299—88.
- Lloyd, Billy E., to Allied Chemical & Dye Corp. Separation of methanol from aqueous formaldehyde. 2,798,033, 7-2-57, Cl. 202—39.5.
- Lloyd, Edward C. Thermopile. 2,811,568, 10-29-57, Cl. 136—4.
- Lloyd, F. H., & Co. Ltd.: *See*—
 Duff, Robin A. 2,816,401.
- Lloyd, Roaland H. Clam shell loader. 2,787,390, 4-2-57, Cl. 214—147.
- Lloyd, Stanley M., to Western Electric Co., Inc. Three-phase liquid rheostat. 2,814,706, 11-26-57, Cl. 201—57.
- Lloyd, Thomas W. Portable wheel-assembly hoist. 2,792,139, 5-14-57, Cl. 214—147.
- Lloyd, Wayne B.: *See*—
 Gilbert, Lynford W., and Lloyd. 2,795,441.
- Lloyd, William E., and L. A. Harriman, to Armour and Co. Method of treating egg whites. 2,776,214, 1-1-57, Cl. 99—161.
- Lloyd, William H., to Pacific Union Metal Co. Portable equipment for making concrete piles. 2,794,231, 6-4-57, Cl. 25—30.
- Lloyd, William H., F. A. Disinger, and J. R. Hayden, to General Motors Corp. Heat exchangers. 2,778,606, 1-22-57, Cl. 257—2.
- Lo, Arthur W.: *See*—
 Rajchman, Jan A., Lo, and Briggs. 2,803,812.
- Lo, Arthur W., to Radio Corp. of America. Magnetic control systems. 2,818,555, 12-31-57, Cl. 340—174.
- Lo, Arthur W., to Radio Corp. of America. Magnetic system. 2,818,556, 12-31-57, Cl. 340—174.
- Lo, Yuen T.: *See*—
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- Loam, Fay and H. Dovetail, countersinking tool for dowel connections. 2,811,187, 10-29-57, Cl. 145—114.5.
- Loam, Harry: *See*—
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- Lobachewski, Julian. Film holders. 2,813,471, 11-19-57, Cl. 95—100.
- Lobanoff, Arkady A., to General Motors Corp. Windshield mounting channel. 2,812,558, 11-12-57, Cl. 20—56.4.
- Lobanoff, Arkady A., to General Motors Corp. Tilting seat back lock. 2,815,796, 12-10-57, Cl. 155—152.
- Löbbecke, Armin D.: *See*—
 Löbbecke, Wilhelm. 2,816,728.
- Löbbecke, Wilhelm, to Gewerkschaft Eisenhütte Westfalen. Flexible conveyor having successively shiftable sections for long face mining. 2,781,888, 2-19-57, Cl. 198—109.
- Löbbecke, Wilhelm, deceased; A. D. Löbbecke, administrator. Hydraulic pit props. 2,816,728, 12-17-57, Cl. 248—354.
- Löbbecke, Ernst: *See*—
 Becker, Ernst, and Löbbecke. 2,794,631.
- Lobby, Joseph, to American Cyanamid Co. Process for beta-diethylaminopropiophenone. 2,816,929, 12-17-57, Cl. 260—570.5.
- Lobdell, Alban J., to Monsanto Chemical Co. Production of melamine. 2,776,286, 1-1-57, Cl. 260—249.7.
- Lobel, Simon. Durable tubular rubber mat. 2,800,688, 7-30-57, Cl. 20—78.3.
- Lober, Friedrich: *See*—
 Freytag, Helmut, Lober, Wegler, and Peter. 2,815,336.
- Lobo, Walter E., to The M. W. Kellogg Co. Conversion of hydrocarbons. 2,817,690, 12-24-57, Cl. 260—679.
- Lobosco, Roscoe R.: *See*—
 Hackman, Robert L., Lobosco, and Helmbrecht. 2,806,127.

- Lobozzo, Samuel. Rock deflector for dual wheels. 2,799,515, 7-16-57, Cl. 280-158.
- Locatelli, Ercole. Apparatus for processing individual cheese rations. 2,777,124, 1-8-57, Cl. 99-243.
- Locher, Ramuald B. Water fowl decoy. 2,816,383, 12-17-57, Cl. 43-3.
- Locher, Ross E., to Zinsco Electrical Products. Circuit breaker. 2,787,682, 4-2-57, Cl. 200-116.
- Locher, Ross E., to Zinsco Electrical Products. Circuit breaker. 2,802,080, 8-6-57, Cl. 200-116.
- Lo Cicero, Joseph C., and R. T. Johnson, to Rohm & Haas Co. Preparation of formamides. 2,793,211, 5-21-57, Cl. 260-294.
- Lo Cicero, Joseph C., and R. T. Johnson, to Rohm & Haas Co. Process for converting alcohols to chlorides. 2,817,686, 12-24-57, Cl. 260-613.
- Lock, John H. Fuel pump. 2,803,195, 8-20-57, Cl. 103-152.
- Lock, Robert L., and N. L. Nilsson, to Anderson Brass Works. Non-electrolyzing connection for dissimilar metals and conductor clamp embodying the same. 2,791,623, 5-7-57, Cl. 174-94.
- Lock, Tom, to Painton & Co. Ltd. Electrical instruments having rotary operating members. 2,815,422, 12-3-57, Cl. 201-56.
- Lockard, Lorin A.: *See*—
Vanalstyne, Earl M. 2,782,770.
- Locke, Arthur P., and F. Messer, to Crookes-Barnes Laboratories, Inc. Silver protein. 2,785,153, 3-12-57, Cl. 260-114.
- Locke, Arthur P., and F. Messer, to Crookes-Barnes Laboratories, Inc. Process of producing a stable silver protein composition. 2,785,154, 3-12-57, Cl. 260-114.
- Locke, Donald C. Lamp mount for automotive vehicles. 2,783,367, 2-26-57, Cl. 240-52.1.
- Locke, Loyal V., to The Huffman Mfg. Co. Dispensers. 2,801,027, 7-30-57, Cl. 222-74.
- Locke, Peachie S., $\frac{1}{2}$ to H. A. McClellan. Dangle chair for hospital beds. 2,802,220, 8-13-57, Cl. 5-327.
- Locke, Ralph S., R. L. Lawson, and H. C. Green, to Diamond Springs Lime Co. Lime process. 2,784,062, 3-5-57, Cl. 23-188.
- Locke, Ronald S.: *See*—
Walker, Eric E., Foggon, Locke, and Shaw. 2,782,127.
- Locke Steel Chain Co., The: *See*—
Onulak, Eugene W. 2,793,536.
- Locke, William B., Sr. Tool gage. 2,805,481, 9-10-57, Cl. 33-143.
- Locke, William B., Sr., and K. M. Everly, said Everly assor. to said Locke, Sr. Indexing table. 2,796,776, 6-25-57, Cl. 74-822.
- Lockett, John J. Fish hook extractor. 2,795,887, 6-18-57, Cl. 43-53.5.
- Lockett, Leslie J.: *See*—
Walker, Alec H. B., and Lockett. 2,802,158.
- Lockett, Leslie J., to Westinghouse Brake & Signal Co. Ltd. Dry plate rectifiers. 2,799,815, 7-16-57, Cl. 317-324.
- Lockhart, Marshall L., deceased, to The Compule Corp. Hypodermic syringes. 2,809,635, 10-15-57, Cl. 128-218.1.
- Lockhart, Robert K., to Radio Corp. of America. Cross talk reduction system for color receivers. 2,795,643, 6-11-57, Cl. 178-5.4.
- Lockhart, Robert K., to Radio Corp. of America. Color demodulation. 2,816,952, 12-17-57, Cl. 178-5.4.
- Lockhart, Stanford C., to The Goodyear Tire & Rubber Co. Brake deflection compensator. 2,801,712, 8-6-57, Cl. 188-72.
- Lockheed Aircraft Corp.: *See*—
Bailey, Donald S. 2,779,998.
Beach, James B. 2,802,398.
Bonza, Louis F., and Mueller. 2,784,926.
Borger, James C. 2,814,539.
Bradley, Arthur. 2,796,882.
Christensen, Edwin V., and Scott. 2,802,648.
Clark, Grady E. 2,788,685.
Dahn, Thomas M., and Holloway. 2,811,691.
Danielson, Henry C. 2,779,555.
Detweiler, James I., and Thompson. 2,781,207.
Ford, James B. 2,814,210.
Harp, Dallas S., and Richolt. 2,802,453.
Hawkins, Willis M., Jr., and Frost. 2,807,429.
Howland, Walter L. 2,814,198.
Johnson, Clarence L. 2,791,385.
Johnson, Clarence L. 2,794,608.
Kastan, Howard. 2,791,386.
Kilpatrick, Robert H., and Stovall. 2,789,204.
Kilpatrick, Robert H., and Stovall. 2,808,501.
Knight, Frank J. 2,782,635.
Lovick, Edward, Jr. 2,783,440.
Ludwig, Boyd E., and Merrill. 2,807,780.
Martin, William R., and Zboril. 2,814,800.
Montgomery, Jack L. 2,802,396.
Mozley, Paul F., and Sipple. 2,797,174.
Perry, Donald O. 2,794,609.
Price, Nathan C. 2,780,424.
Price, Nathan C., and Hawkins. 2,802,333.
Ralston, William P., and Boehme. 2,783,003.
Simon, Eli, and Thomas. 2,780,350.
Simon, Eli, and Thomas. 2,798,054.
Simon, Eli, and Thomas. 2,802,795.
Simon, Eli, and Thomas. 2,811,493.
Simon, Eli, Thomas, and Wiegand. 2,782,423.
Sullivan, George C. 2,808,624.
Thomas, Frank W. 2,802,240.
- Lockingen, Lloyd S.: *See*—
Browning, Iben, and Lockingen. 2,782,682.
- Lock Joint Pipe Co.: *See*—
Kennison, Hugh F. 2,805,683.
Kraus, Edward W., and Farr. 2,795,026.
- Locklair, Earl E., and H. J. Portzer, to Union Carbide Corp. Process and apparatus for separating gas mixtures. 2,812,645, 11-12-57, Cl. 62-123.
- Lockman, Carl J., to Aktiebolaget Rosenblads Patenter. Evaporation of sulphite waste liquor. 2,786,518, 3-26-57, Cl. 159-47.
- Lockman, Carl J., to Aktiebolaget Rosenblads Patenter. Surface type evaporator employing channel switching for cleaning purposes. 2,788,065, 4-9-57, Cl. 159-20.
- Lockman, Carl J., and S. Jenssen, to Rosenblad Corp. Utilization of heat from condensate in indirectly steam heated multi-stage evaporators. 2,796,120, 6-18-57, Cl. 159-47.
- Lockmiller, Sam O. Automatic steering mechanism. 2,791,167, 5-7-57, Cl. 97-47.02.
- Lockport Mills, Inc.: *See*—
Cole, Thomas D. 2,782,839.
- Lockwood, Arlie F. Magnetic tank patching device. 2,781,939, 2-19-57, Cl. 220-24.
- Lockwood, Warren H. Tierable nesting receptacle. 2,782,936, 2-26-57, Cl. 211-126.
- Loconti, Joseph D., to the United States of America as represented by the Secretary of the Army. Temperature indicators. 2,799,167, 7-16-57, Cl. 73-356.
- Lodding Engineering Corp.: *See*—
Goyette, Francis H., and Grenier. 2,803,499.
Krasnow, Leonard L. 2,815,052.
- Lode, Tenny: *See*—
Goodell, John D., and Lode. 2,808,578.
- Loder, Donald J., to E. I. du Pont de Nemours and Co. Production of cyclohexylsulfamates by amide interchange. 2,804,472, 8-27-57, Cl. 260-500.
- Lodge, Dennis, L. H. Thompson, and J. S. Storey, to Iivac Ltd. Cold-cathode gas-discharge tubes and circuits therefor. 2,815,470, 12-3-57, Cl. 315-84.6.
- Lodge, Frank, and J. Wardleworth, to Imperial Chemical Industries Ltd. Dye stuffs of the anthrapyrimidine series. 2,778,831, 1-22-57, Cl. 260-261.
- Lodge & Shipley Co., The: *See*—
Hudson, Holland R., and Pabst. 2,806,552.
Van Coney, Raymond T., and Nolte. 2,811,141.
- Lodvick, George D., and W. L. Martignoni. Cable supported chair. 2,816,597, 12-17-57, Cl. 155-2.
- Loeb, George A.: *See*—
Weingart, Richard I. N., Loeb, and Wagner. 2,795,185.
- Loeb, Leo. Non-fragile thermometers. 2,795,140, 6-11-57, Cl. 73-371.
- Loeb, Morris. Closure fastener. 2,792,244, 5-14-57, Cl. 292-75.
- Loebel, Fred A., and R. Ewing, to Cleaver-Brooks Co. Combination steam-electric oil heater. 2,783,354, 2-26-57, Cl. 219-39.
- Loebenstein, Harry A. Trolling tackle. 2,786,296, 3-26-57, Cl. 43-43.12.
- Loebner, Egon E., to Sylvania Electric Products Inc. Electroluminescent device. 2,817,783, 12-24-57, Cl. 313-108.
- Loebstein, Heinrich: *See*—
Engelhard, Noe N., and Loebstein. 2,811,078.
- Loeck, Günther F. E., to W. & L. E. Gurley. Erecting eyepiece affording variable magnification. 2,804,802, 9-3-57, Cl. 88-32.
- Loeey, Joseph, Jr. Control means for cooling of dressing diamond or the like. 2,781,035, 2-12-57, Cl. 125-11.
- Loedding, Alfred C., to Unexcelled Chemical Corp. Shaped propellant charges for solid-fuel rocket type motors. 2,816,418, 12-17-57, Cl. 60-35.6.
- Loeffler, Alvin F., E. J. Stramowski, and W. J. Weinfurt, to McGraw-Edison Co. Counter. 2,810,522, 10-22-57, Cl. 235-117.
- Loeffler, Edmund J. Hair clipper cleaning and sterilizing device. 2,788,536, 4-16-57, Cl. 15-4.
- Loeffler, John R., to General Electric Co. Thyatron motor control limit circuit. 2,778,982, 1-22-57, Cl. 318-257.
- Loehr, Robert W., to Westinghouse Electric Corp. Luminaire. 2,778,929, 1-22-57, Cl. 240-25.
- Loertscher, Gottfried: *See*—
Rieder, Ernst. 2,811,112.
- Loesch, Carl A.: *See*—
Davis, Charles J., Michaels, and Loesch. 2,788,906.
Michaels, John I., Davis, and Loesch. 2,791,341.
- Loesch, Friedrich A., to Maschinenfabrik Turner Aktiengesellschaft. Electrical integrating and registering means for leather area measuring machines. 2,803,882, 8-27-57, Cl. 33-123.
- Loetscher, Martin B. Combined letter and envelope. 2,805,815, 9-10-57, Cl. 229-92.1.
- Loewenthal, Henry J., and J. E. Staats, to General Electric Co. Incinerator. 2,783,723, 3-5-57, Cl. 110-18.
- Loewy Engineering Co. Ltd., The: *See*—
Norman, Eric. 2,782,919.
Norman, Eric. 2,782,920.
Norman, Eric. 2,782,921.
Wutscher, Theodor F. 2,788,861.
- Lo Faro, Thomas. Device for freezing ice cream and ices. 2,779,167, 1-29-57, Cl. 62-114.

- Löffler, Johannes. Glasses containing oxides of rare earth metals. 2,805,166, 9-3-57, Cl. 106-47.
- Löffler, Walther. Valved catch basin. 2,796,988, 6-25-57, Cl. 210-135.
- Lofthus, Leroy A., and R. E. Prentice, to Hycon Mfg. Co. Valve. 2,812,776, 11-12-57, Cl. 137-625.27.
- Löfgren, Bror Erik, to AB Svenska Flaktfabriken. Method for heat recovery. 2,805,047, 9-3-57, Cl. 257-71.
- Lofgren, Edward J., and F. Fairbrother, Jr., to the United States of America as represented by the United States Atomic Energy Commission. Ion beam receiver. 2,781,452, 2-12-57, Cl. 250-41.9.
- Lofgren, Gustaf E.: See—
- Stevens, Henry W., Lofgren, Brown, and Beede. 2,804,166.
- Lofgren, Gustaf E., to Electrolux Corp. Suction nozzles for vacuum cleaners. 2,815,525, 12-10-57, Cl. 15-417.
- Lofgren, Letcher A.: See—
- Fisher, Evan D., and Lofgren. 2,789,469.
- Löfgren, Nils M., and B. J. Lundqvist, to Aktiebolaget Astra, Apotekarnes Kemiska Fabrik. Amyl-glycine-anilides. 2,790,829, 4-30-57, Cl. 260-562.
- Löfgren, Nils M., and B. J. Lundqvist, deceased (J. A. and G. E. Lundqvist, heirs of said B. J. Lundqvist), to Aktiebolaget Astra Apotekarnes Kemiska Fabrik. Alkyl alaninamides. 2,794,835, 6-4-57, Cl. 260-562.
- Lofquist, Ralph J., and E. O. Milligan, to Elem Corp. Air washer. 2,810,481, 10-22-57, Cl. 209-466.
- Löfqvist, Bengt E. R., and B. Berggren, to Sandvikens Jernverks Aktiebolag. Packing sleeve for rock drills. 2,790,624, 4-30-57, Cl. 255-64.
- Loft, Arne, to General Electric Co. Photoelectric flame detector. 2,797,336, 6-25-57, Cl. 250-239.
- Loftheim, Tor B. Devices for removing dust and other impurities from air, funnel smoke and other gases, especially gases from chemical and electrochemical manufactories. 2,780,309, 2-5-57, Cl. 183-77.
- Loftus Engineering Corp.: See—
- Guthrie, James M. 2,791,191.
- Guthrie, James M. 2,811,623.
- Sobek, Alfred S. 2,790,230.
- Loftus, Hugh J.: See—
- Fernandez, John J. 2,785,804.
- Logan, Donald G., and A. M. La Fleur. Dental articulator attachment. 2,801,470, 8-6-57, Cl. 32-32.
- Logan, Frank G., and D. W. Rau, to Vickers Inc. Magnetic particle coupling device with nickel and nickel-coated iron particles. 2,809,732, 10-15-57, Cl. 192-21.5.
- Logan, Hugh H. Wash fountain. 2,775,774, 1-1-57, Cl. 4-166.
- Logan, Hugh H. Emergency shower. 2,778,031, 1-22-57, Cl. 4-152.
- Logan, John A., and E. K. L. Haffner. Heating means for billet containers of metal extrusion presses. 2,792,482, 5-14-57, Cl. 219-10.71.
- Logan, John W., to Westinghouse Air Brake Co. Snow blower control systems. 2,784,928, 3-12-57, Cl. 246-428.
- Logan, Maurus C., to The Thomas & Betts Co. Electrical split-tee connector. 2,811,706, 10-29-57, Cl. 339-276.
- Logan, Roger L., to Kessler Chemical Co., Inc. Oxidation of fatty acids. 2,777,865, 1-15-57, Cl. 260-413.
- Logan, Samuel R., to North American Aviation, Inc. Joint seal. 2,801,061, 7-30-57, Cl. 244-135.
- Logan, William W., to Thomas A. Edison, Inc. Multistation remotely-controlled phonographic system. 2,777,012, 1-8-57, Cl. 179-6.
- Logan, William W., to McGraw-Edison Co. Dictation recording system. 2,801,291, 7-30-57, Cl. 179-100.1.
- Logan, William W., to McGraw-Edison Co. Dictation recording machines and systems. 2,816,177, 12-10-57, Cl. 179-100.1.
- Logemann, Willy: See—
- Capraro, Vittorio, Logemann, and Cantone. 2,786,050.
- Logli, Aldo. Accordion. 2,800,826, 7-30-57, Cl. 84-376.
- Logue, James A.: See—
- Vincent, Harvard B., and Logue. 2,785,820.
- Lohans, Walter H. Body supporting member. 2,815,798, 12-10-57, Cl. 155-182.
- Lohman, Frederick R. Rapid soldering ring stick. 2,803,210, 8-20-57, Cl. 113-111.
- Lohmann, Helmut: See—
- Paul, Karl F., and Lohmann. 2,785,780.
- Lohnes, Howard E., to Hallmark Cards, Inc. Power unit for animated objects. 2,797,527, 7-2-57, Cl. 46-103.
- Lohr, Arthur D., and M. A. Taves, to Hercules Powder Co. Preparation of dihydropyrenols. 2,799,715, 7-16-57, Cl. 260-528.
- Lohr, Ernst, Jr., and K. Pocket knife. 2,808,646, 10-8-57, Cl. 30-159.
- Lohr, Hubert. Inspection glass for liquid level indicators. 2,792,710, 5-21-57, Cl. 73-330.
- Lohr, Karl: See—
- Lohr, Ernst, Jr., and K. 2,808,646.
- Lohr, Lester J., to General Aniline & Film Corp. Process of purifying crude 2-pyrrolidone. 2,802,777, 8-13-57, Cl. 202-42.
- Lohr, Raymond J., to Louis Marx & Co., Inc. Toy flying rotors. 2,802,299, 8-13-57, Cl. 46-83.
- Lohr, Raymond J., to Louis Marx & Co., Inc. Drinking toy. 2,802,301, 8-13-57, Cl. 46-123.
- Lohrey, Clarence R., to Kaiser Steel Corp. Production of metallurgical coke. 2,787,585, 4-2-57, Cl. 202-33.
- Lohs, Willi, and W. Paul, to Siemens & Halske Aktiengesellschaft. Impulse storage device for signaling systems. 2,815,402, 12-3-57, Cl. 179-16.
- Lohs, Willy, to Siemens & Halske, Aktiengesellschaft. Rotary switch with shock absorbing drive. 2,808,460, 10-1-57, Cl. 179-27.51.
- Loibl, Robert B., Jr. Apparatus for producing insecticidal vapor. 2,816,394, 12-17-57, Cl. 43-129.
- Loimann, Anton, to Arwa-Feinstumpfwirkerei G. m. b. H. Flat hosiery machine. 2,799,150, 7-16-57, Cl. 66-110.
- Lojczyk, John, to Marloc Enterprises Ltd. Adjustable wrench. 2,814,226, 11-26-57, Cl. 81-112.
- Loken, Bjarte: See—
- Dauben, Hyy J., Jr., Ringold, and Loken. 2,802,825.
- Lokey, Robert L. Disc type lawn edger. 2,782,584, 2-26-57, Cl. 56-25.4.
- Lokken, John C.: See—
- Tveter, Elmer C., and Lokken. 2,797,808.
- Lomax, Clarence E., to Automatic Electric Laboratories, Inc. Intercommunication systems. 2,776,340, 1-1-57, Cl. 179-1.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Paystation system. 2,791,634, 5-7-57, Cl. 179-6.3.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Selector 11 level. 2,800,533, 7-23-57, Cl. 179-18.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Toll switching telephone system. 2,801,286, 7-30-57, Cl. 179-27.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Automatic telephone systems provided with restricted party lines. 2,817,712, 12-24-57, Cl. 179-18.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Indicating systems. 2,817,714, 12-24-57, Cl. 179-41.
- Lombard, Adrian A., and C. L. Johnson, to Rolls-Royce Ltd. Gas turbine engines with speed control mechanism. 2,785,848, 3-19-57, Cl. 230-114.
- Lombard Corp.: See—
- Mitchell, George A., and Gayetsky. 2,813,959.
- Wells, Sheldon E. 2,776,695.
- Lombard Governor Corp.: See—
- Ibelle, Howard D., and Smith. 2,810,409.
- Lombard, Herman G., deceased; P. Lombard, executrix, to J. Lombard. Fishing line casting apparatus. 2,808,043, 10-1-57, Cl. 124-20.
- Lombard, José S. Humidifying device. 2,801,892, 8-6-57, Cl. 312-31.
- Lombard, Julius: See—
- Lombard, Herman G. 2,808,043.
- Lombard, Pauline: See—
- Lombard, Herman G. 2,808,043.
- Lombardi, Anthony: See—
- Lambach, Fritz, and Lombardi. 2,811,028.
- Lombardi, Vincent. Knitted fabric. 2,777,311, 1-15-57, Cl. 66-201.
- Lombardi, William A. Brush mat or the like. 2,805,437, 9-10-57, Cl. 15-171.
- Lombardo, Joseph and P. P., and T. Dunleavy. Football game board and projector. 2,801,853, 8-6-57, Cl. 273-94.
- Lombardo, Louis M. Terrazzo finishing machine. 2,793,476, 5-28-57, Cl. 51-177.
- Lombardo, Peter P.: See—
- Lombardo, Joseph and P. P., and Dunleavy. 2,801,853.
- Lomholdt, Donald G. Fountain toothbrush. 2,795,000, 6-11-57, Cl. 15-138.
- Lompre, Noah: See—
- Karjala, Emil, and Lompre. 2,784,992.
- Londat Aetz Fabric Co.: See—
- Weisberg, Harry. 2,812,999.
- London, Jack. Apparatus for drying bowling pins. 2,788,586, 4-16-57, Cl. 34-107.
- Loneragan, J. E., Co.: See—
- Smith, Ronald V. 2,792,015.
- Smith, Ronald V. 2,815,040.
- Lones, Dain B., to Air-O-Fan Products Corp. Automatic washing apparatus. 2,788,009, 4-9-57, Cl. 134-102.
- Lones, Wesley O.: See—
- Rawls, Vaughn, and La Warre. 2,788,851.
- Loney, John W., to United Shoe Machinery Corp. Machines for assembling shoe bottom units. 2,784,431, 3-12-57, Cl. 12-60.
- Long, Alan G., and J. S. Hunt, to G. N. R. D. Patent Holdings Ltd. Production of steroid compounds. 2,818,414, 12-31-57, Cl. 260-397.45.
- Long, Albert E., to the United States of America as represented by the Secretary of Interior. Means for orienting diamonds in hard vector directions in diamond bits and tools. 2,817,885, 12-31-57, Cl. 22-122.
- Long, Andrew, F. N. Taylor, and A. Blacklock, to Dewrance & Co., Ltd. Method and apparatus for powdered metal deposition by oxy-fuel gas flame. 2,786,779, 3-26-57, Cl. 117-22.
- Long, Bernard, to Compagnies Reunies des Glaces & Verres Speciaux du Nord de la France. Improvements in apparatus for the continuous drawing of glass sheets. 2,780,032, 2-5-57, Cl. 49-17.
- Long, Charles A. Interlocking wall structure. 2,787,812, 4-9-57, Cl. 20-4.
- Long, Charlie J., and J. M. Helms. Stop motion for drafting mechanisms. 2,800,686, 7-30-57, Cl. 19-165.
- Long, Clyde W. Knitting basket. 2,780,399, 2-5-57, Cl. 223-107.

- Long Construction Co.: *See*—
 Long, Marshall. 2,804,674.
 Long, Crawford G., $\frac{1}{2}$ to G. W. Nicholson. Animal trap. 2,805,513, 9-10-57, Cl. 43—38.
 Long, Daniel S. Splash guard flap for automotive vehicles. 2,782,053, 2-19-57, Cl. 280—154.5.
 Long, Dennis J. G., to The Distillers Co. Ltd. Production of pimelic acid. 2,800,507, 7-23-57, Cl. 260—537.
 Long, Donald R., to The Borden Co. Urea formaldehyde condensation product. 2,810,710, 10-22-57, Cl. 260—71.
 Long, E., Ltd.: *See*—
 Leonard, Daniel C. 2,790,569.
 Long, Earl D.: *See*—
 Hall, Howard S., Long, and Yeich. 2,795,687.
 Long, Edwin L., to River Raisin Paper Co. Carton. 2,811,296, 10-29-57, Cl. 229—16.
 Long, George, and S. C. Rustad, to General Mills, Inc. Puffing gun indexing mechanism. 2,792,772, 5-21-57, Cl. 99—238.
 Long, George, and T. Tsuchiya, to General Mills, Inc. Puffing gun shock absorbing system. 2,817,284, 12-24-57, Cl. 99—238.
 Long, George B., to General Motors Corp. Cooking vessel with stirrer. 2,778,613, 1-22-57, Cl. 259—122.
 Long, George B., to General Motors Corp. Domestic appliance. 2,782,292, 2-19-57, Cl. 219—35.
 Long, George E. Grade line stakes. 2,780,869, 2-12-57, Cl. 33—74.
 Long, Henry A., B. L. Taylor, and J. C. Wise, to Marquardt Aircraft Co. Surge limiter. 2,813,672, 11-19-57, Cl. 230—114.
 Long, James, to Fairbanks, Morse & Co. Auxiliary load support. 2,780,179, 2-5-57, Cl. 105—199.
 Long, James H. Triple-tilt antenna. 2,800,658, 7-23-57, Cl. 343—846.
 Long, Jasper: *See*—
 Wade, Charles E., Long, and Newcomb. 2,814,025.
 Long, John R., to Shuford Mills, Inc. Speed control for winding machines. 2,803,107, 8-20-57, Cl. 57—95.
 Long, John R., to Shuford Mills, Inc. Variable speed drive. 2,810,296, 10-22-57, Cl. 74—230.17.
 Long, John R., to Dyco Color Corp. Process for producing photographic multicolor images. 2,814,565, 11-26-57, Cl. 96—12.
 Long, Lawrence H.: *See*—
 Coleman, Richard A., and Long. 2,795,253.
 Long Mfg. Co., Inc.: *See*—
 Atkinson, Wallace E. 2,813,295.
 Long, Marshall, to Long Construction Co. Double head reinforcing rod for pre-stress concrete. 2,804,674, 9-3-57, Cl. 25—164.
 Long, Miles H.: *See*—
 Keen, Alexis W., Hugger, Higgins, Kane, and Long. 2,786,237.
 Long, Miles H., to United States Rubber Co. Method for making shoes. 2,795,822, 6-18-57, Cl. 18—59.
 Long, Paul J., and H. E. Schultze, to General Motors Corp. Shock absorber with liquid cooling. 2,785,774, 3-19-57, Cl. 188—88.
 Long, Paul J., Jr.: *See*—
 Malone, Stephen P., and Long. 2,790,659.
 Wilson, Russell W., Miller, and Long. 2,789,726.
 Long, Philip H. Venetian blinds with adjustable spacing slats. 2,776,708, 1-8-57, Cl. 160—169.
 Long, Ray S.: *See*—
 Bailes, Richard H., Long, and Grinstead. 2,806,764.
 Long, Richard H., to Farr Co. Variable timing apparatus. 2,776,384, 1-1-57, Cl. 307—132.
 Long, Richard H., to Bendix Aviation Corp. Switch control mechanism. 2,796,059, 6-18-57, Cl. 123—179.
 Long, Robert B.: *See*—
 Felix, James R., Long, Holder, and Saxton. 2,791,537.
 Long, Robert E., to J. R. Simplot Co. Pelletizing apparatus and method. 2,810,156, 10-22-57, Cl. 18—1.
 Long, Robert F., and Alexander L. Morrison, to Hoffmann-La Roche Inc. Pyridyl-3-methyl phosphate and salts thereof. 2,777,851, 1-15-57, Cl. 260—297.
 Long, Robert S.: *See*—
 Clauser, Herbert C., and Long. 2,785,632.
 Long, Sidney R.: *See*—
 Leavitt, Julian J., and Long. 2,781,345.
 Long, Spencer W., to The National Supply Co. Roller kelly bushing. 2,777,670, 1-15-57, Cl. 255—23.
 Long, Spencer W., to The National Supply Co. Power operated slips for rotary machine. 2,810,551, 10-22-57, Cl. 255—23.
 Long, Thomas L., to Johnston Testers, Inc. Apparatus for perforating casing. 2,799,224, 7-16-57, Cl. 102—20.
 Long, Thomas L., to Johnston Testers, Inc. Hold-down for well packers. 2,815,080, 12-3-57, Cl. 166—120.
 Long, Thomas L., and W. O. Ansite, to Johnston Testers, Inc. Anti-extrusion device for packers. 2,797,759, 7-2-57, Cl. 166—204.
 Long, Walter, to Ace Drill Bushing Co., Inc. Locating key for aligning a tool, jig, or fixture with the slot of a machine table. 2,808,654, 10-8-57, Cl. 33—181.
 Long, William H. Automatic shut-off device. 2,793,301, 5-21-57, Cl. 307—10.
 Longacre, Henry C. M., to Sylvania Electric Products Inc. Means and method for making a vacuum-tight weld by induction heating. 2,798,141, 7-2-57, Cl. 219—9.5.
 Longarzo, Roland, to Polk's Model Craft Hobbies, Inc. Electrically propelled model vehicles. 2,812,617, 11-12-57, Cl. 46—230.
 Longbottom, Geoffrey B., G. V. Bloomfield, and J. B. Jay, to The Chloride Electrical Storage Co. Ltd. Pressure reducing valves. 2,805,680, 9-10-57, Cl. 137—464.
 Longden, Lawrence, to Bendix Aviation Corp. Holding device. 2,809,795, 10-15-57, Cl. 248—27.
 Longdon, John T.: *See*—
 Booty, Philip C., Jr., Brink, and Longdon. 2,818,044.
 Longenecker, Charles I., to Chain Belt Co. Self-priming centrifugal pump. 2,798,439, 7-9-57, Cl. 103—113.
 Longenecker, Ernst A., and E. S. Hanson, Jr., to Jacobsen Mfg. Co. Air purifier. 2,796,143, 6-18-57, Cl. 183—4.8.
 Longenecker, Joseph B.: *See*—
 Pyle, Ronald E., and Longenecker. 2,784,118.
 Longenecker, Levi S. Furnace nose construction. 2,806,452, 9-17-57, Cl. 122—6.
 Longfield, William F., to The Federal Machine and Welder Co. Drive apparatus. 2,789,437, 4-23-57, Cl. 74—44.
 Longino, Hugh A. Versatile clip. 2,812,918, 11-12-57, Cl. 248—316.
 Longley, Raymond I., Jr.: *See*—
 Chapin, Earl C., and Longley. 2,809,187.
 Longnecker, Harry F., to Watts Electric & Mfg. Co. Lamp socket. 2,801,397, 7-30-57, Cl. 339—126.
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 Zuckerman, Merwin, and Longobardi. 2,795,867.
 Longone, Anthony J., and J. Celeste. Musical instrument string winder. 2,812,682, 11-12-57, Cl. 84—458.
 Longstreet, James R., to The Warner & Swasey Co. Drive shaft and shear coupling. 2,807,052, 9-24-57, Cl. 19—129.
 Longstreth, Murrey O., and T. Alfrey, Jr., to The Dow Chemical Co. Method and apparatus for producing oriented plastic films. 2,779,053, 1-29-57, Cl. 18—1.
 Longstreth, Murrey O., and G. J. Ward, to The Dow Chemical Co. Apparatus for laminating thermoplastic film sheets. 2,810,423, 10-22-57, Cl. 154—1.
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 Miller, Glen W., Longwell, and Sage. 2,813,487.
 Longyear, E. J., Co.: *See*—
 Braun, Leonard A. 2,792,198.
 Lonier, Randolph A. Device and method for curing concrete compression test cylinders. 2,795,470, 6-11-57, Cl. 312—31.
 Lonte, Florus P., to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Reduction of far-end crosstalk in a telephone cable at carrier frequencies. 2,794,074, 5-28-57, Cl. 179—78.
 Lontz, John F., to E. I. du Pont de Nemours and Co. Process for preparing polytetrafluoroethylene-asbestos compositions. 2,782,179, 2-19-57, Cl. 260—41.
 Lonza Electric and Chemical Works Ltd.: *See*—
 Voos, Walter. 2,793,936.
 Lonza Elektricitätswerke und Chemische Fabriken Aktien-gesellschaft: *See*—
 Lindemann, Herbert, and Stirnemann. 2,795,008.
 Von Bézard, André, and Perret. 2,809,975.
 Loo, Ching C., to Carnation Co. Method for replacing cations in milk. 2,793,953, 5-28-57, Cl. 99—54.
 Loof, Philippus, to Shell Development Co. Combination gas and oil burner. 2,808,876, 10-8-57, Cl. 158—11.
 Loofbourrow, Robert J., to The Texas Co. Seismic velocity measurement. 2,783,449, 2-26-57, Cl. 340—17.
 Loofburrow, Robert J., R. B. Stelzer, and C. B. Scotty, to The Texas Co. Electrical analogues. 2,795,377, 6-11-57, Cl. 235—61.
 Look, Arthur J., to Chicago Die-Cutting & Finishing Co. Display device. 2,808,669, 10-8-57, Cl. 40—33.
 Loomis, Chauncey C., and W. J. Ash, to the United States of America as represented by the United States Atomic Energy Commission. Retort assembly. 2,814,477, 11-26-57, Cl. 266—15.
 Loomis, Glenn L., $\frac{1}{16}$ to J. Stahl, $\frac{1}{16}$ to R. T. Elmore, $\frac{1}{2}$ to J. P. King, Sr., $\frac{1}{2}$ to J. P. King, Jr., $\frac{1}{2}$ to W. F. King, and $\frac{1}{2}$ to the estate of F. L. Stahl, deceased. 2,780,294, 2-5-57, Cl. 166—203.
 Loomis, Glenn L. Apparatus for testing oil well casing or the like. 2,807,955, 10-1-57, Cl. 73—40.5.
 Loomis Machine Co.: *See*—
 Weaver, Stuart M. 2,814,207.
 Loomis, Robert F., to Fuller Co. Unloader. 2,813,640, 11-19-57, Cl. 214—17.
 Loomis, Samuel E. Pull-actuated trap-hook. 2,795,074, 6-11-57, Cl. 43—37.
 Looney, Duncan H., to Bell Telephone Laboratories, Inc. Semiconductor translating device. 2,791,758, 5-7-57, Cl. 340—173.
 Loop Fabrics, Inc.: *See*—
 Carpenter, Polli. 2,806,222.
 Loop, James P., to Continental Steel Corp. Expandable and collapsible-core spool mechanism. 2,789,779, 4-23-57, Cl. 242—115.
 Loop, Werner, E. Luhrs, and P. Hauschildt, to Nordmark-Werke Gesellschaft mit beschränkter Haftung. P-amino-benzene-sulphonyl-2-amino-oxazole derivative. 2,809,966, 10-15-57, Cl. 260—239.9.
 Loos, Ida H. Window curtain. 2,815,807, 12-10-57, Cl. 160—126.

- Loosjes, Robert, to North American Philips Co., Inc. Method of securing a member to a shaft. 2,818,517, 12-31-57, Cl. 310-156.
- Lopas, Douglas F. Basketball apparatus with a visual game signal. 2,805,861, 9-10-57, Cl. 273-1.5.
- Lopenski, Stanley A.: *See*—
Armstrong, Law L., Meister, and Lopenski. 2,816,579.
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- Lopenski, Stanley A., G. Meister, and A. W. Wainio, to Westinghouse Electric Corp. Electrostatic coating machine for incandescent lamp envelopes. 2,811,131, 10-29-57, Cl. 118-49.1.
- Lopes, Humberto L. Vehicle mounted container for handling pallets. 2,792,141, 5-14-57, Cl. 214-621.
- Lopresti, Rocco J.: *See*—
Safir, Sidney R., and Lopresti. 2,797,217.
- Lo Presti, Roy, to Goodman Mfg. Co. Portable belt conveyor. 2,776,033, 1-1-57, Cl. 198-233.
- Lo Presti, Roy F.: *See*—
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- Lorain Products Corp.: *See*—
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- Lorck, Karl: *See*—
Sem, Mathias O., and Lorck. 2,794,843.
- Lord, Albert M.: *See*—
Lezberg, Erwin A., and Lord. 2,795,819.
- Lord, Albert J. Racing piece for a racing game. 2,796,698, 6-25-57, Cl. 46-127.
- Lord & Burnham, Division of Burnham Corp.: *See*—
Bowden, John W. 2,801,600.
- Lord, Harold W., to General Electric Co. Firing circuit. 2,803,784, 8-20-57, Cl. 315-166.
- Lord, John G., to Shell Development Co. Material handling mechanism for lift trucks. 2,782,065, 2-19-57, Cl. 294-87.
- Lord, John G., to Shell Development Co. Jaw construction for lift trucks. 2,782,066, 2-19-57, Cl. 294-99.
- Lord Mfg. Co.: *See*—
Beck, Merrill G. 2,809,851.
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Wallerstein, Leon, Jr. 2,809,724.
- Lord, Peter M. Clothes dryer. 2,812,068, 11-5-57, Cl. 211-100.
- Lord Baltimore Press, Inc.: *See*—
Joseph, Maurice J. 2,807,403.
Klein, Clarence F. 2,803,395.
- Lorence, Raymond: *See*—
Lippman, Jerome, and Lorence. Re. 24,312.
- Lorenan, Zareh. Method and apparatus for manufacturing pencils. 2,790,202, 4-30-57, Cl. 18-13.
- Lorenan, Zareh. Method and apparatus for making hollow articles with one or both ends closed or with both ends open and also for making solid articles. 2,801,444, 8-6-57, Cl. 18-30.
- Lorensen, Lyman E.: *See*—
Burnum, Emmett R., and Lorensen. 2,781,319.
- Lorensen, Lyman E., to Shell Development Co. Lubricating compositions. 2,796,406, 6-18-57, Cl. 252-49.6.
- Lorentzen, Gustav A., to W. F. Schrafft & Sons Corp. Machine for stringing confectionery. 2,785,649, 3-19-57, Cl. 118-14.
- Lorentzen, Hans K., to Lorentzen Hardware Mfg. Corp. Tilting mechanism for Venetian blinds. 2,779,403, 1-29-57, Cl. 160-177.
- Lorentzen, Hans K., to Lorentzen Hardware Mfg. Corp. Method useful in the manufacture of Venetian blinds. 2,789,639, 4-23-57, Cl. 164-17.
- Lorentzen, Hans K., to Lorentzen Hardware Mfg. Corp. Venetian blind installation bracket. 2,792,999, 5-21-57, Cl. 248-264.
- Lorentzen Hardware Mfg. Corp.: *See*—
Anderle, Joseph A. 2,802,523.
Anderle, Joseph A. 2,803,065.
Lorentzen, Hans K. 2,779,403.
Lorentzen, Hans K. 2,789,639.
Lorentzen, Hans K. 2,792,999.
- Lorenz, Albert, to W. C. Heraeus G. m. b. H. Corpuscular beam apparatus. 2,786,156, 3-19-57, Cl. 313-63.
- Lorenz, Anton: *See*—
Krikorian, Albert P. 2,801,675.
- Lorenz, Anton. Article of response for supporting the body of a person. 2,781,824, 2-19-57, Cl. 155-106.
- Lorenz, Anton. Article of repose for supporting the body of a person. 2,781,825, 2-19-57, Cl. 155-106.
- Lorenz, Herman A.: *See*—
Levin, Isaac H., and Lorenz. 2,785,544.
- Lorenz, Howard H., to V-M Corp. Reel for tape recorder and player. 2,778,581, 1-22-57, Cl. 242-70.
- Lorenz, Le Roy B.: *See*—
Burnside, Walter R. 2,785,930.
- Lorenzen, Coby, to The Regents of the University of California. Fruit orienting mechanism. 2,793,734, 5-28-57, Cl. 198-33.
- Lorenzetti, Lorenzo. Hydraulic pump. 2,814,255, 11-26-57, Cl. 103-144.
- Lorenzo y Gomez, Manuel. Electric hot water heater. 2,807,702, 9-24-57, Cl. 219-40.
- Loretitsch, Ferdinand J. Bottle cap closure. 2,776,065, 1-1-57, Cl. 215-38.
- Loria, Edward A., to The Carborundum Co. Addition agents in manufacture of steel. 2,785,970, 3-19-57, Cl. 75-58.
- Loria, Samuel F., to General Motors Corp. Door check and holdopen. 2,797,431, 7-2-57, Cl. 16-85.
- Lorig, Edwin T., to United States Steel Corp. Belt wrapper. 2,792,996, 5-21-57, Cl. 242-78.
- Lorig, Edwin T., to United States Steel Corp. Apparatus for continuously centering a moving strip. 2,797,088, 6-25-57, Cl. 271-2.6.
- Lorig, Edwin T., to United States Steel Corp. Mechanical accumulator in strip feeding devices. 2,797,089, 6-25-57, Cl. 271-2.6.
- Lorig, Edwin T., to United States Steel Corp. Apparatus for making an endless belt. 2,801,693, 8-6-57, Cl. 164-61.
- Lorig, Edwin T., to United States Steel Corp. Self centering roll. 2,817,940, 12-31-57, Cl. 271-2.6.
- Lorig, Edwin T., and A. Teplitz, to United States Steel Corp. Belt pump. 2,804,020, 8-27-57, Cl. 103-72.
- Lorillard, P., Co.: *See*—
Parmele, Harris B. 2,793,572.
- Lorimer, James P., and L. C. Steffenhagen, to Wilson & Co., Inc. Belly sizing machine. 2,779,368, 1-29-57, Cl. 146-78.
- Lorimer, John D.: *See*—
Bauer, Russell E., and Lorimer. 2,789,475.
- Lorimor, Meral D.: *See*—
Martin, Algy E., and Lorimor. 2,777,415.
Martin, Algy E., and Lorimor. 2,800,601.
Martin, Algy E., and Lorimor. 2,816,970.
- Loring, Thomas W., S. R. Carson, and R. C. Davis, to General Motors Corp. Steering wheel. 2,800,730, 7-30-57, Cl. 40-2.2.
- Lorini, Osmon W., to Jet-Heat, Inc. Thermoelectric motor. 2,777,077, 1-8-57, Cl. 310-4.
- Lorio, Angelo. Cigarette lighter. 2,789,424, 4-23-57, Cl. 67-4.1.
- Lormeau, René. Wire stripping tool. 2,817,255, 12-24-57, Cl. 81-9.5.
- Lorr, Orville W. Dirigible wheel support for tractor hauled trailers. 2,797,106, 6-25-57, Cl. 280-426.
- Lorraine Novelty Mfg. Co., Inc.: *See*—
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- Lorscheidt, Manfred K.: *See*—
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- Lory, Frederick A.: *See*—
Cook, Graham, Lory, and Jenkins. 2,790,968.
- Losada, Alfonso: *See*—
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- Losada, Walter R. Fuel atomizer for steel furnace. 2,809,819, 10-15-57, Cl. 261-78.
- Losch, Herman: *See*—
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- Löschbrandt, Frithjof, to Papirindustriens Forskningsinstitut. Method for determining and controlling the chlorine content in a bleach bath. 2,783,135, 2-26-57, Cl. 23-230.
- Losco, Ezekiel F., to Westinghouse Electric Corp. Silicon semiconductor devices and process for making them. 2,801,375, 7-30-57, Cl. 317-234.
- Losee, Kathryn A.: *See*—
Bernstein, Jack, and Losee. 2,809,971.
- Lott, Alex. Apparatus for removing meat from bones. 2,798,251, 7-9-57, Cl. 17-1.
- Lott, de Forest, and E. G. Hamway, to The General Tire & Rubber Co. Reinforced sheet material. 2,787,570, 4-2-57, Cl. 154-52.
- Lott, William A., and J. Krapcho, to Olin Mathieson Chemical Corp. Basic derivatives of substituted oxygenated phenylpropionic acids and methods of preparing same. 2,797,233, 6-25-57, Cl. 260-473.
- Lott, William A., and J. Krapcho, to Olin Mathieson Chemical Corp. Acid-addition quaternary salts and methods of preparing same. 2,813,904, 11-19-57, Cl. 260-567.6.
- Lotz, Otto, E. Schindler, and M. Schnelle, to The Babcock & Wilcox Co. Cyclone furnace. 2,800,091, 7-23-57, Cl. 110-28.
- Lotz, Robert W., to Time, Inc. Shutter mechanism for photo-composing apparatus. 2,803,178, 8-20-57, Cl. 95-4.5.
- Lotz, Rudolf: *See*—
Heisenberg, Erwin, and Lotz. 2,814,648.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken A. G. Method of manufacturing dimethyl terephthalate from xylene dichloride. 2,779,782, 1-29-57, Cl. 260-475.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken Aktiengesellschaft. Process of making methylene-bis-aminocarboxylic acid nitriles. 2,783,267, 2-26-57, Cl. 260-465.5.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken A. G. Preparation of terephthalic acid. 2,788,366, 4-9-57, Cl. 260-523.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken Aktiengesellschaft. Process of producing a polycondensation product from methylene-bis-chloropropionic acid amide. 2,804,434, 8-27-57, Cl. 260-2.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken A. G. Process of producing polycondensates. 2,817,638, 12-24-57, Cl. 260-2.
- Loucks, Chauncey L.: *See*—
Soman, Robert, Parker, and Loucks. 2,815,254.
- Loucks, George E. Hair curling device. 2,787,276, 4-2-57, Cl. 132-42.
- Loucouy, Adolphe W., to Conso Metal Products, Inc. Venetian blind headbar and hardware therefor. 2,781,091, 2-12-57, Cl. 160-173.

- Loudon, Clifford L., and W. E. Riker, to Holmes Electric Protective Co. Noise actuated disabling unit. 2,779,935, 1-29-57, Cl. 340-258.
- Loudon, Clifford L., and W. E. Riker, to Holmes Electric Protective Co. Supervisory unit for burglar alarm system. 2,779,936, 1-29-57, Cl. 340-258.
- Loughlin, Bernard D.: *See*—
Espanlaub, Walter C., and Loughlin. 2,807,661.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Color television interlacing system. 2,810,780, 10-22-57, Cl. 178-5.2.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Signal-modifying apparatus. 2,814,778, 11-26-57, Cl. 332-1.
- Loughlin, George P., and T. E. Walsh, to Western Electric Co., Inc. Reciprocating bender with selectively positionable die faces. 2,808,095, 10-1-57, Cl. 153-21.
- Loughlin, John P., 1/2 to J. A. Zane. Circular saw blade carrier. 2,780,486, 2-5-57, Cl. 294-34.
- Loughran, Gerard A., and E. O. Hook, to American Cyanamid Co. Process for preparation of O,O-dialkylalkanethiophosphonates. 2,794,821, 6-4-57, Cl. 260-461.
- Loughran, Gerard A., and E. O. Hook, to American Cyanamid Co. Terpene-P₄S₃-oxygen condensation products and their esters and ester salts as lubricating oil additives. 2,805,217, 9-3-57, Cl. 260-139.
- Loughran, Gerard A., and E. O. Hook, to American Cyanamid Co. Esters and ester salts of olefin-P₄S₃-oxygen condensation products and lubricants containing them. 2,809,188, 10-8-57, Cl. 260-139.
- Loughren, Arthur V., to Hazeltine Research, Inc. Color-image-reproducing apparatus of the projection type. 2,793,247, 5-21-57, Cl. 178-5.4.
- Loughren, Arthur V., to Hazeltine Research, Inc. Color-television electro-optical apparatus. 2,811,579, 10-29-57, Cl. 178-5.4.
- Loughry, Theodore F.: *See*—
Beggs, Donald, and Loughry. 2,784,068.
- Louis, Arnold S.: *See*—
Coler, Myron A., and Louis. 2,799,051.
- Louis, Arnold S., to M. A. Coler. Method of applying an electrically conductive transparent coating to a non-conductive base. 2,788,296, 4-9-57, Cl. 117-211.
- Louis, Arnold S., to M. A. Coler. Process of impact coating solid insulators with transparent conductive coatings. 2,788,297, 4-9-57, Cl. 117-211.
- Louis, Arnold S., to M. A. Coler. Method of producing electrically conductive article. 2,817,603, 12-24-57, Cl. 117-211.
- Louis, Arnold S., to M. A. Coler. Method of making transparent electroconductive surfaced plastic articles. 2,817,604, 12-24-57, Cl. 117-211.
- Louis, Jean A., and M. Kling, to Société Préparation Industrielle des Combustibles. Apparatus for treating solid products in bulk. 2,794,267, 6-4-57, Cl. 34-164.
- Louis, Jean A., and M. Kling, to Société Préparation Industrielle des Combustibles. Apparatus for treating solid products in bulk. 2,794,268, 6-4-57, Cl. 34-164.
- Louisiana State University and Agricultural and Mechanical College, Board of Supervisors of: *See*—
Horton, Paul M., and Keller. 2,812,552.
- Wheeler, Harry E., and N. L., and Durieux. 2,780,732.
- Louisville Cap Corp.: *See*—
Lipschutz, Frank K. 2,803,827.
- Lipschutz, Frank K. 2,803,828.
- Loukowsky, Anne M., to American Cyanamid Co. Method of imparting flame-resistance to cellulosic materials. 2,779,691, 1-29-57, Cl. 117-136.
- Lounsbay, David E., to The Roberts Numbering Machine Co. Power-operated hand numbering machine. 2,801,583, 8-6-57, Cl. 101-108.
- Loutrel, Maurice, to Societe Anonyme "Normacem." Ventilation of electric motors. 2,817,780, 12-24-57, Cl. 310-59.
- Lovatt, Bernard C., to Alan Muntz & Co. Ltd. Compressor piston. 2,779,644, 1-29-57, Cl. 309-4.
- Love, Gene: *See*—
Jamison, Thomas E., Jr. 2,783,028.
- Love, Gordon W., and C. A. Pelizzari. Horizontal sliding removable sash and a dual track sill plate therefor. 2,813,312, 11-19-57, Cl. 20-52.2.
- Love, Harold N., to Ideal Roller and Mfg. Co. Accumulator. 2,805,684, 9-10-57, Cl. 138-30.
- Love, John, to K. A. C. Ltd. Adjustable girth clamping ring. 2,775,806, 1-1-57, Cl. 24-271.
- Love, Paul E. Label removing device for fiber cones. 2,806,237, 9-17-57, Cl. 15-127.
- Love, Phil P., to The Glacier Metal Co. Ltd. Porous metal containing polytetrafluoroethylene and a solid lubricant. 2,798,005, 7-2-57, Cl. 117-8.
- Love, Robert M., to Esso Research and Engineering Co. Process for obtaining good acid wash color solvent xylenes. 2,810,773, 10-22-57, Cl. 260-674.
- Lovegren, Vern O. Boat trailer. 2,793,774, 5-28-57, Cl. 214-505.
- Lovely, Charles K., to Scripto, Inc. Retractable ball pen. 2,778,337, 1-22-57, Cl. 120-42.03.
- Lovelace, Charles D. Boat trailer and loading device therefor. 2,776,761, 1-8-57, Cl. 214-75.
- Lovelady, Isaac W., and S. P. Kroeker, to Sivalis Tanks, Inc. Gas and multiple liquid separator apparatus. 2,783,854, 3-5-57, Cl. 183-2.7.
- Lovelady, Maurice J. Computing indicators. 2,788,173, 4-9-57, Cl. 235-67.
- Loveland, George M.: *See*—
Prout, William C., and Loveland. 2,776,804.
- Loveland, John H. Bicycle rack. 2,806,605, 9-17-57, Cl. 211-22.
- Loveland, Wallace W. Beverage holder. 2,781,959, 2-19-57, Cl. 224-29.
- Lovell, Clarence A., to Bell Telephone Laboratories, Inc. Multifrequency high speed calling signal generator. 2,799,729, 7-16-57, Cl. 179-90.
- Lovell, Clarence A., and N. D. Newby, to Bell Telephone Laboratories, Inc. Motor control for motor-driven telephone designation transmitters. 2,790,849, 4-30-57, Cl. 179-8.5.
- Lovell, Clarence A., and O. J. Murphy, to Bell Telephone Laboratories, Inc. High speed polytonic calling signal generator employing kick. 2,799,730, 7-16-57, Cl. 179-90.
- Lovell, Ernest, to Burroughs Corp. Electronically controlled electro magnetic stepping apparatus. 2,780,754, 2-5-57, Cl. 317-136.
- Lovell, George H.: *See*—
Gammie, James, and Lovell. 2,776,345.
- Lovell Mfg. Co.: *See*—
Kauffman, Walter L., II. 2,778,124.
- Kauffman, Walter L., II. 2,784,585.
- Kauffman, Walter L., II. 2,803,142.
- Lovell, Stanley P., and J. H. Bush, to Millipore Filter Corp. Microporous nylon film. 2,783,894, 3-5-57, Cl. 210-203.
- Lovenston, Bessie B.: *See*—
Lovenston, Hans J. 2,807,882.
- Lovenston, Hans J., deceased; B. B. Lovenston, executrix, to Hanlo Gage Co. Gage unit. 2,807,882, 10-1-57, Cl. 33-169.
- Lovequist, Martin Rotary impact drill. 2,780,106, 2-5-57, Cl. 74-22.
- Lovercheck, Charles L.: *See*—
Kollman, Karl J., and Lovercheck. 2,795,970.
- Lo Verde, John. Combination container and roller pan. 2,777,142, 1-15-57, Cl. 15-121.2.
- Lovesey, Alfred C., to Rolls-Royce Ltd. Means for regulating the characteristics of multi-stage axial-flow compressors. 2,797,044, 6-25-57, Cl. 230-114.
- Lovett, Albert E.: *See*—
Forman, Arthur W., Lovett, and Salway-Waller. 2,815,920.
- Lovett, Joseph F., to Archie R. Ammons. Gas-air mixer. 2,785,742, 3-19-57, Cl. 158-118.
- Lovett, Nicholas M. Wheel truing device. 2,787,095, 4-2-57, Cl. 51-134.5.
- Lovett, William G.: *See*—
Gates, John W., Jr., Dann, Illingsworth, and Lovett. 2,787,545.
- Lovick, Edward, Jr., to Lockheed Aircraft Corp. Light weight wave guide construction. 2,783,440, 2-26-57, Cl. 333-95.
- Lo Vico, Salvatore A. Hammock. 2,781,528, 2-19-57, Cl. 5-122.
- Lo Vico, Salvatore A. Flexible-sheet attachment. 2,815,799, 12-10-57, Cl. 155-187.
- Low, Frank D., to General Electric Co. Signalling device for dishwashers and the like. 2,780,198, 2-5-57, Cl. 116-114.
- Low, Frank D., to General Electric Co. Kitchen apparatus combination. 2,813,534, 11-19-57, Cl. 134-57.
- Low, Frank K., to Bell Telephone Laboratories, Inc. Multi-party telephone system. 2,817,710, 12-24-57, Cl. 179-8.5.
- Low, Hans, to Shell Development Co. Odorless coating composition. 2,795,563, 6-11-57, Cl. 260-22.
- Lowden, Gordon A., to The National Cash Register Co. Method for locating paths of wires on lacing board. 2,805,471, 9-10-57, Cl. 29-155.5.
- Lowe, Arnold J.: *See*—
Rudge, Alfred J., and Lowe. 2,808,312.
- Lowe, Arnold J., D. Butler, and E. G. Cockbain, to Shell Development Co. Rubber latex compositions and the manufacture of articles therefrom. 2,791,567, 5-7-57, Cl. 260-5.
- Lowe, Arthur, and G. Williams, to Imperial Chemical Industries Ltd. Modification of the properties of fibrous materials. 2,795,517, 6-11-57, Cl. 117-139.5.
- Lowe, Carl H., to The Diamond Match Co. Egg handling equipment. 2,783,873, 3-5-57, Cl. 198-232.
- Lowe, Charles E. Resistance sensitive phase-shifter. 2,777,114, 1-8-57, Cl. 324-57.
- Lowe, Clifton D. Differential transmission. 2,785,587, 3-19-57, Cl. 74-650.
- Lowe, David W. Railway car impact retarder. 2,814,364, 11-26-57, Cl. 188-148.
- Lowe, Joe, Corp.: *See*—
Friedman, Aaron. 2,778,670.
- Friedman, Aaron Lurie, and Dale. 2,808,790.
- Nauroth, Larry J. 2,782,945.
- Vouderis, Marino. 2,803,381.
- Lowe, Robert L. Antiglare attachment for vehicle visors. 2,793,072, 5-21-57, Cl. 296-97.
- Lowe, Robert L. Auxiliary visor for vehicles. 2,795,457, 6-11-57, Cl. 296-97.
- Lowe, Rudy, to Proportioners, Inc. Apparatus for proportioning materials. Re. 2,426,3, 1-8-57, Cl. 222-52.
- Lowe, Wallace K., to Crucible Steel Co. of America. Billet grinder. 2,797,532, 7-2-57, Cl. 51-45.

- Lowe, Warren: *See*—
Stewart, William T., and Lowe. 2,809,160.
- Lowe, Warren, to California Research Corp. Lubricant compositions. 2,795,553, 6-11-57, Cl. 252—49.7.
- Lowe, Warren, to California Research Corp. Corrosion inhibited lubricant composition. 2,808,376, 10-1-57, Cl. 252—33.4.
- Lowe, Warren, to California Research Corp. Corrosion inhibited lubricant composition. 2,809,162, 10-8-57, Cl. 252—33.4.
- Lowe, Warren, and W. T. Stewart, to California Research Corp. Lubricant composition. 2,809,161, 10-8-57, Cl. 252—33.4.
- Lowe, Warren, and W. T. Stewart, to California Research Corp. Lubricant composition. 2,810,696, 10-22-57, Cl. 252—33.4.
- Lowe, William B., to American Viscose Corp. Yarn twisting method and apparatus. 2,782,590, 2-26-57, Cl. 57—58.52.
- Lowe, William B., and H. E. Pape, to American Viscose Corp. Strand lacer for reels. 2,798,593, 7-9-57, Cl. 203—1.
- Lowenthal, Hans, $\frac{1}{2}$ to Colibri Lighters Ltd. Cigarette holders. 2,785,684, 3-19-57, Cl. 131—182.
- Lower, Frederick A., to Lee Gilbert. Timing valve mechanism for pneumatically actuated well pumping devices. 2,814,310, 11-26-57, Cl. 137—625.25.
- Lower, George W.: *See*—
Kaufman, David, and Lower. 2,808,928.
- Lowery, Charley. Fluid heater. 2,794,426, 6-4-57, Cl. 122—149.
- Lowes, Fred J.: *See*—
Monroe, Roger F., and Lowes. 2,806,067.
- Monroe, Roger F., Lowes, and Mulloy. 2,805,190.
- Lowes, Fred J., and R. F. Monroe, to The Dow Chemical Co. 1-ethynyl-cyclohexylthiols. 2,805,257, 9-3-57, Cl. 260—609.
- Lowes, Fred J., and R. F. Monroe, to The Dow Chemical Co. Tris-(1-ethynyl-cyclohexyl) phosphite. 2,809,982, 10-15-57, Cl. 260—461.
- Lowinski, Walter J. Door stop. 2,815,236, 12-3-57, Cl. 292—251.5.
- Lowitz, Frank. Means for opening hermetically-sealed casings. 2,775,852, 1-1-57, Cl. 51—105.
- Lowman, Henry C. J., E. M. Murphy, J. C. Musgrave, Jr., and M. L. Somers, to American Telephone and Telegraph Co. Method and means for identifying conductor pairs. 2,799,739, 7-16-57, Cl. 179—175.25.
- Lowmaster, Frank L., to The Mathews Co. Parts bin. 2,797,819, 7-2-57, Cl. 211—135.
- Lowrey, Pierce L., Sr., to Office Equipment Mfg. Co., Inc. Box and reinforcing lip therefor. 2,807,406, 9-24-57, Cl. 229—47.
- Lowrie, Harman S.: *See*—
Cusick, John W., Lowrie, and Sause. 2,787,617.
- Lowrie, Richard W., to International Business Machines Corp. Apparatus and method for xerographic printing. 2,803,177, 8-20-57, Cl. 95—1.7.
- Lowry, Lewis R., Jr., and H. H. C. Richards, Jr., to Westinghouse Electric Corp. Control apparatus. 2,795,679, 6-11-57, Cl. 201—51.
- Lowry, Michael J. Foldable, extensible table. 2,799,546, 7-16-57, Cl. 311—52.
- Lowry, William G. Electric space heater. 2,815,434, 12-3-57, Cl. 219—46.
- Lowther, Alan G., and F. Reeder, to Courtaulds Ltd. Aminated copolymeric products of acrylonitrile with an allyl arylsulfonate. 2,796,414, 6-18-57, Cl. 260—79.3.
- Lowther, Franklin D., Jr. Tank gauging device. 2,794,973, 6-4-57, Cl. 340—244.
- Lowther, William P. Hydraulic valve lifter. 2,790,430, 4-30-57, Cl. 123—90.
- Lowy, Edward R. Handbag having removable cover. 2,809,685, 10-15-57, Cl. 150—28.
- Lowy, Richard S.: *See*—
Singer, Heron O., and Lowy. 2,806,815.
- Loxgreen Co., Inc.: *See*—
Parrish, Charles R. 2,802,525.
- Loxham, John, to The Sigma Instrument Co. Ltd. Mechanical guiding devices. 2,779,585, 1-29-57, Cl. 267—1.
- Loy, Herbert M. Lady's compact. 2,783,764, 3-5-57, Cl. 132—83.
- Lozeau, Homer A., to Koehler Mfg. Co. Railroad inspector's lamp. 2,794,905, 6-4-57, Cl. 240—10.63.
- Lübbe, Walter, to Olympia Werke Aktiengesellschaft. Wheeled base for office machines. 2,790,649, 4-30-57, Cl. 280—47.13.
- Lubben, Gerrit J., to North American Philips Co., Inc. Receiver for two radio frequency bands. 2,787,703, 4-2-57, Cl. 250—20.
- Lubberhuizen, Jan C., to Stamcarbon N. V. Electric motor. 2,812,456, 11-5-57, Cl. 310—88.
- Lubbers, Rensio. Christmas tree stand. 2,797,818, 7-2-57, Cl. 211—133.
- Lubbock, Jack O.: *See*—
Lubbock, Oswald J. and J. O. 2,784,281.
- Lubbock, Oswald J. and J. O. Electric switch. 2,784,281, 3-5-57, Cl. 200—155.
- Lubcke, Harry R. Color television reproducing systems. 2,810,013, 10-15-57, Cl. 178—5.4.
- Luber-Finer Inc.: *See*—
Russell, John K., and Boggs. 2,801,764.
- Luberoff, Benjamin J., to American Cyanamid Co. Acrylic acid preparation. 2,806,878, 9-17-57, Cl. 260—526.
- Lubersky, Albert R., to Fibreboard Products Inc. Carton forming and conveying mechanism. 2,777,563, 1-15-57, Cl. 198—34.
- Lubersky, Albert R., to Fibreboard Paper Products Corp. Carton closing machine. 2,803,934, 8-27-57, Cl. 53—376.
- Lubersky, Albert R., to Fibreboard Paper Products Corp. Scorebreaker for carton forming machine. 2,804,000, 8-27-57, Cl. 93—49.
- Lubischer, Joseph B., to The Allbright-Nell Co. Apparatus for unloading a cover-equipped container with a molded block of meat therein. 2,795,344, 6-11-57, Cl. 214—304.
- Lubkin, Samuel, to Underwood Corp. Component mounting assemblage. 2,778,977, 1-22-57, Cl. 317—101.
- Lubkin, Samuel, to Underwood Corp. Pulse comparator. 2,786,136, 3-19-57, Cl. 250—27.
- Lubkin, Samuel, to Underwood Corp. Magnetic gating circuit. 2,801,344, 7-30-57, Cl. 307—88.
- Lubkin, Samuel, to Underwood Corp. Alphabetic-numeric data processor. 2,801,406, 7-30-57, Cl. 340—173.
- Lubkin, Samuel, to Underwood Corp. Timing channel recording. 2,801,407, 7-30-57, Cl. 340—174.
- Lubkin, Samuel, to Underwood Corp. Magnetic recording system. 2,817,829, 12-24-57, Cl. 340—174.
- Lubkin, Samuel, and E. Leonard, to Underwood Corp. Computer pulse control system. 2,789,220, 4-16-57, Cl. 250—27.
- Luboshez, Benjamin E., to Eastman Kodak Co. Prism zoom system having deviation correcting means. 2,780,140, 2-5-57, Cl. 88—57.
- Luboshez, Benjamin E., to Eastman Kodak Co. Prism magnification system having correction means for unilateral color. 2,780,141, 2-5-57, Cl. 88—57.
- Lubrizol Corp.: *See*—
Asseff, Peter A., Mastin, and Rhodes. 2,777,874.
- Asseff, Peter A., Mastin, and Rhodes. 2,802,816.
- Craig, Willis G. 2,809,979.
- Craig, Willis G. 2,811,769.
- Higgins, Williams A., Norman, and Craig. 2,779,787.
- Miller, Clark O., and Dorer. 2,797,238.
- Norman, George R., Le Suer, and Mastin. 2,794,041.
- Norman, George R., Le Suer, and Mastin. 2,802,856.
- Wiese, Herbert F., and Wierber. 2,798,852.
- Luby, William K.: *See*—
Gottfried, Jacob B., Luby, and Newkirk. 2,797,176.
- Lucado, Richard E.: *See*—
Moran, Joseph G., and Lucado. 2,780,203.
- Lucal, Charles L. Pressure type solderless connector. 2,805,402, 9-3-57, Cl. 339—14.
- Lucas, Harold T., $\frac{1}{2}$ to R. Anderson. Supplemental carburetor. 2,797,072, 6-25-57, Cl. 261—24.
- Lucas, Harry E. Copy holders. 2,798,783, 7-9-57, Cl. 312—184.
- Lucas, Harry G. Transfer case application. 2,805,586, 9-10-57, Cl. 74—665.
- Lucas, James W.: *See*—
Monroe, Benjamin F., and Lucas. 2,805,904.
- Lucas, John H., to Powers-Samas Accounting Machines Ltd. Electronic adding circuits. 2,815,913, 12-10-57, Cl. 235—61.
- Lucas, Joseph (Industries) Ltd.: *See*—
Clarke, John S., and Jackson. 2,780,061.
- Downing, Eric W. 2,807,252.
- Jackson, Squire R. 2,807,139.
- Jackson, Squire R. 2,807,316.
- Parkes, Eric B. 2,784,876.
- Parkes, Eric B. 2,797,131.
- Parkes, Eric B. 2,812,962.
- Westwood, Thomas. 2,780,855.
- Winkley, Albert W. 2,801,304.
- Lucas, Joseph, Ltd.: *See*—
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- Lucas, Leonard J.: *See*—
Fixman, Carl M., and Lucas. 2,792,813.
- Lucas, Matt L. Combination expansion hinge for transportation vehicle door. 2,778,052, 1-22-57, Cl. 16—130.
- Lucas, Robert A.: *See*—
Huebner, Charles F., and Lucas. 2,802,006.
- Lucas, Robert A., to Ciba Pharmaceutical Products, Inc. O-syringoyl reserpine acid esters. 2,813,871, 11-19-57, Cl. 260—286.
- Lucas, Sydney, to Rotax Ltd. Regulating means for dynamo-electric machines. 2,813,205, 11-12-57, Cl. 290—31.
- Lucas, Thomas F.: *See*—
Shelor, Olle W., and D. M. 2,812,665.
- Lucas, Thomas M. Tapered flange forming tool. 2,807,297, 9-24-57, Cl. 144—205.
- Lucas, Wilma K.: *See*—
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- Luce, Milton A. Pilot controlled flexible valve. 2,817,357, 12-24-57, Cl. 137—491.
- Luce, Richard W. Can opener and anti-splash shield combination. 2,778,102, 1-22-57, Cl. 30—16.
- Luce, Richard W. Hygrometric indicator. 2,787,238, 4-2-57, Cl. 116—114.
- Luce, Roy L.: *See*—
Will, Phillip C., and Luce. 2,783,511.
- Luchansky, Andrew J., to Progressive Specialties. Umbrella handle light. 2,777,051, 1-8-57, Cl. 240—6.42.
- Lucia, Carroll J., to Studebaker-Packard Corp. Pressure regulating system for motor vehicle transmission controls. 2,782,657, 2-26-57, Cl. 74—645.

- Lucien, Pierre E. Apparatus for the simultaneous preservation of two different products out of contact with each other in the interior of a container. 2,781,141, 2-12-57, Cl. 215-6.
- Lucien, René. Disc brakes for vehicle wheels. 2,781,106, 2-12-57, Cl. 188-106.
- Lucien, René, to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M. Hydraulic double-acting shock absorber. 2,803,312, 8-20-57, Cl. 188-88.
- Lucien, Rene, to Societe a responsabilite limitee Recherches Etudes Production R. E. P. Automatic device for taking up wear. 2,814,366, 11-26-57, Cl. 188-196.
- Lucien, René, and E. Tetart, to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M. Alloys of magnesium and rare earths. 2,801,166, 7-30-57, Cl. 75-168.
- Luck, David G. C., to the United States of America as represented by the Secretary of the Navy. Radio bomb release system. 2,791,766, 5-7-57, Cl. 343-7.
- Luck, David G. C., to Radio Corp. of America. Means for locating the position of a mobile craft. 2,792,989, 5-21-57, Cl. 235-61.
- Luck, David G. C., to Radio Corp. of America. Color television systems. 2,810,779, 10-22-57, Cl. 178-5.2.
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- Luckenbach, John L. Tuning hammer. 2,802,388, 8-13-57, Cl. 84-459.
- Lucky, John A. Extended length hydraulic switch. 2,783,325, 2-26-57, Cl. 200-83.
- Lucky, John A. Molded metal-backed electrical mat switch and method of making the same. 2,783,327, 2-26-57, Cl. 200-86.
- Luckhardt, Johannes, deceased, by W. Luckhardt, administrator, to N. P. Martin and O. L. Walker, as trustees of Theta Trust. Movable reclining chair with back-rest seat and leg-rest. 2,788,058, 4-9-57, Cl. 155-106.
- Luckhardt, Johannes, deceased; W. J. F. Luckhardt, sole heir, to N. P. Martin and O. L. Walker, as trustees of Iota Trust. Article of repose for supporting the body of a person. 2,796,917, 6-25-57, Cl. 155-116.
- Luckhardt, Johannes, deceased; W. J. F. Luckhardt, sole heir, to N. P. Martin and O. L. Walker, as trustees of Iota Trust. Article of repose for supporting the body of a person. 2,796,918, 6-25-57, Cl. 155-116.
- Luckhardt, Wassili: See—
Luckhardt, Johannes. 2,788,058.
- Luckhardt, Wassili J. F.: See—
Luckhardt, Johannes. 2,796,917.
Luckhardt, Johannes. 2,796,918.
- Lucking, Ayon S.: See—
Gabb, John E., and Lucking. 2,814,293.
- Luckner, Leo B., and E. D. Reed, to Bell Telephone Laboratories, Inc. Electron discharge device of the cavity resonator type. 2,802,137, 8-6-57, Cl. 315-5.
- Luczek, Walter: See—
Labine, Roland A., and Luczek. 2,776,639.
- Ludeman, Clifford G., to Texaco Development Corp. Method of preparation and conversion of synthesis gas. 2,800,402, 7-23-57, Cl. 48-196.
- Ludeman, Clifford G., to Texaco Development Corp. Process for the production of carbon monoxide from a solid fuel. 2,803,530, 8-20-57, Cl. 48-206.
- Luders, Jeanette, deceased, by J. E. De Sio, executor, to L. and M. Luders. Carpet sweepers. 2,783,487, 3-5-57, Cl. 15-41.
- Luders, Lloyd: See—
Luders, Jeanette. 2,783,487.
- Luders, Margaret: See—
Luders, Jeanette. 2,783,487.
- Lüdi, Fritz, and H. Notz, to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G. Resonator for a magnetron. 2,785,341, 3-12-57, Cl. 315-39.73.
- Ludlow Mfg. & Sales Co.: See—
French, Ralph W., 2,782,479.
French, Ralph W., Shields, and Pond. 2,782,709.
- Ludlow Papers, Inc.: See—
Holland, Jack W. Re. 24,395.
- Luduena, Froilan P., to Sterling Drug Inc. Poly[3-(lower-alkylcyclohexyl)propyl]amines, salts thereof, and preparation thereof. 2,795,612, 6-11-57, Cl. 260-563.
- Luduena, Froilan P., to Sterling Drug Inc. Anesthetic solution for intraspinal injection. 2,818,369, 12-31-57, Cl. 167-52.
- Ludwig, Boyd E., and R. M. Merrill, to Lockheed Aircraft Corp. Point aligner. 2,807,780, 9-24-57, Cl. 324-67.
- Ludwig, Carl, C. H. Wheeler, and A. R. Deedman, to Ex-Cell-O Corp. Hydraulic motor having adjustable cushioning means. 2,793,623, 5-28-57, Cl. 121-97.
- Ludwig, Carl, C. H. Wheeler, and A. R. Deedman, to Ex-Cell-O Corp. Hydraulic motor with wide vane and duplicate ports for cushioning vane and pressurized seals. 2,798,462, 7-9-57, Cl. 121-97.
- Ludwig, Frederic G. Processing unit. 2,792,768, 5-21-57, Cl. 95-89.
- Ludwig, Howard C., to Westinghouse Electric Corp. Electric arc welding electrode. 2,818,353, 12-31-57, Cl. 117-205.
- Ludwig, Howard C., to Westinghouse Electric Corp. Welding electrode. 2,818,496, 12-31-57, Cl. 219-146.
- Ludwig, Howard C., and J. Heuschkel, to Westinghouse Electric Corp. Welding electrodes. 2,818,352, 12-31-57, Cl. 117-205.
- Ludwig, James F., and R. M. Purdy, to Bendix Aviation Corp. Electrical apparatus. 2,815,463, 12-3-57, Cl. 313-130.
- Ludwig, Milton, to California Research Corp. Temperature control system for catalyst elevator. 2,805,491, 9-10-57, Cl. 34-54.
- Ludwig, Ralph E., to National Forge & Ordnance Co. Apparatus for nitriding crankshafts. 2,803,449, 8-20-57, Cl. 266-5.
- Ludwig, Thomas E., and O. E. Knapp, to The Sherwin-Williams Co. Red azo pigments of improved transparency. 2,796,415, 6-18-57, Cl. 260-197.
- Ludwig, Walter D. Solenoid design. 2,780,755, 2-5-57, Cl. 317-191.
- Ludwig, Walter D. Sliding valve spool seal. 2,782,801, 2-26-57, Cl. 137-625.48.
- Ludy, Paul C.: See—
Jones, Von E., and Ludy. 2,782,943.
- Luebbers, Herman E., and R. A. Hanes. Electric welding holder. 2,810,807, 10-22-57, Cl. 200-157.
- Luebke, Emmeth A.: See—
Hurwitz, Henry, Jr., Brooks, Mannal, Payne, and Luebke. 2,799,642.
- Luebke, George C. Binocular shooting aid. 2,799,936, 7-23-57, Cl. 33-52.
- Luehdemann, Rolf: See—
Johannsen, Adolf, and Luehdemann. 2,815,352.
- Luehrs, Hans J., to The Cottrell Co. Sheet registering mechanism for sheet fed printing presses. 2,792,221, 5-14-57, Cl. 271-48.
- Luehrs, Hans J., to C. B. Cottrell & Sons Co. Inking mechanism for rotary printing presses. 2,811,105, 10-29-57, Cl. 101-349.
- Luehrs, Hans J., and H. M. Clarke, Jr., to The Cottrell Co. Sheet fed rotary printing presses. 2,775,934, 1-1-57, Cl. 101-183.
- Luek, Otto W., and J. P. Tarbox, to Sperry Rand Corp. Bale metering mechanism. 2,778,295, 1-22-57, Cl. 100-4.
- Luenberger, Frederick O., to U. S. Electrical Motors, Inc. Feedback test stand. 2,783,402, 2-26-57, Cl. 310-112.
- Luenberger, Frederick O., to U. S. Electrical Motors, Inc. Lubrication system for enclosed transmission mechanism. 2,793,714, 5-28-57, Cl. 184-6.
- Luening, James W., to Hazeltine Research, Inc. Deferred-action battery. 2,781,413, 2-12-57, Cl. 136-112.
- Luer Packing Co.: See—
Luer, Walter J., Jr. 2,788,279.
- Luer, Walter J., Jr., to Luer Packing Co. Sausage casing and method for handling, stuffing and cooking sausage. 2,788,279, 4-9-57, Cl. 99-109.
- Lufkin Rule Co., The: See—
Zelnick, Charles. 2,805,483.
- Luft, Theodore O. Spoon type fishing bait. 2,795,076, 6-11-57, Cl. 43-42.39.
- Lufttechnische Gesellschaft m. b. H.: See—
Kaser, Walter. 2,730,494.
- Luhmann, Fred. Medicine injector. 2,816,546, 12-17-57, Cl. 128-218.
- Luhn, Hans P., to International Business Machines Corp. Motor driven precision positioning device. 2,782,343, 2-19-57, Cl. 318-39.
- Luhn, Hans P., to International Business Machines Corp. Circuit selector. 2,794,051, 5-28-57, Cl. 200-14.
- Luhn, Hans P., to International Business Machines Corp. Binary code counter. 2,799,451, 7-16-57, Cl. 235-61.
- Luhn, Hans P., to International Business Machines Corp. High performance servo system. 2,806,986, 9-17-57, Cl. 318-162.
- Luhn, Hans P., and S. Hnat, to International Business Machines Corp. Relay calculator. 2,778,567, 1-22-57, Cl. 235-61.
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Loop, Werner, Luhrs, and Hauschildt. 2,809,966.
- Lui, Harry M., and M. R. Abrams, to G. Mitchell, d. b. a. Draw-Matic Engineering Co. Motor operated drapery device with limit control. 2,788,481, 4-9-57, Cl. 318-267.
- Luisada, August G., to L. P. Frieder. Electrical connector. 2,812,507, 11-5-57, Cl. 339-107.
- Luitwieler, Clarence S., Jr.: See—
Glasberg, Myer M., and Luitwieler. 2,815,952.
- Lukala, Eino J. Latching hinge construction. 2,798,249, 7-9-57, Cl. 16-144.
- Lukasik, Joseph V.: See—
Morgan, Gerard E., Jr., and Lukasik. 2,806,300.
- Luke, Ernest W.: See—
Flessner, William G., and Luke. 2,781,442.
- Luke, J. T. Journal safety device. 2,785,296, 3-12-57, Cl. 246-169.
- Lukens, C. Dewitt Surgical Mfg. Co., The: See—
Harkness, Reed B., and Lacey. 2,788,893.
Harkness, Reed B., and Lacey. 2,801,741.
Harkness, Reed B., and Lacey. 2,804,203.
- Lukens Steel Co.: See—
Edwards, Lewis W., and West. 2,786,590.
Fayles, Robert R. 2,786,266.
Funk, William H., Snyder, and White. 2,797,899.

- Lukens Steel Co.: *See*—Continued
 Hursh, Robert W. 2,797,707.
 Keay, Louis K., Jr. 2,786,265.
 Keay, Louis K., Jr. 2,813,332.
 Pompa, Leonard. 2,813,333.
- Lukes, James J., W. J. Lightfoot, and R. N. Montgomery, to Diamond Alkali Co. Preparation of methyl chloride and methylene chloride. 2,792,435, 5-14-57, Cl. 260-662.
- Lukesh, Joseph S.: *See*—
 Holden, Abe N., Burke, Reynolds, and Lukesh. 2,798,957.
- Luketa, Frank J. Trawl doors and towing bridges therefor. 2,816,385, 12-17-57, Cl. 43-9.
- Lukman, John C., and I. E. Muskat, to Celanese Corp. of America. Process for production of shaped articles comprising fibrous particles and a copolymer of vinyl acetate and an ethylenically unsaturated acid. 2,789,903, 4-23-57, Cl. 92-21.
- Lullo, James L., to R. C. Lindberg and J. L. Lullo, as trustees. Toy building structure. 2,799,118, 7-16-57, Cl. 46-26.
- Lum, Funston G., and E. F. Carlston, to California Research Corp. Synthetic polyamide resins from 5-t-butyl-m-xylylene diamine. 2,776,950, 1-8-57, Cl. 260-78.
- Lumb, Charles J., Jr. Aquarium heating. 2,805,313, 9-3-57, Cl. 219-38.
- Lumbert, Ray N. Rear-view mirror for motor vehicles. 2,796,506, 6-18-57, Cl. 219-19.
- Lummus Co., The: *See*—
 Bogart, Marcel J. P. 2,796,951.
 Bogart, Marcel J. P., Mekler, and Davis. 2,789,149.
 Kniel, Ludwig. 2,780,580.
 Schutte, August H. 2,789,084.
 Schutte, August H. 2,789,148.
 Thompson, Richard R. 2,812,164.
 Worn, George A. 2,797,018.
- Lummus Cotton Gin Co.: *See*—
 Vandergriff, Arvel L., and Smith. 2,795,011.
- Lummus, James L.: *See*—
 Dunn, Thomas H., and Lummus. 2,797,196.
- Lummus, James L., to Pan American Petroleum Corp. Oil base drilling fluid. 2,793,996, 5-28-57, Cl. 252-85.
- Lumpkin, Tony B.: *See*—
 Painter, Virgil E. 2,793,838.
- Lund, Alvin O., to Westinghouse Electric Corp. Motor control circuit for use in elevator systems. 2,788,089, 4-9-57, Cl. 187-29.
- Lund, Edward, to Allis-Chalmers Mfg. Co. Molding composition and method of making same. 2,798,817, 7-9-57, Cl. 106-38,23.
- Lund, James K., to The Dole Valve Co. Vacuum control valve. 2,811,314, 10-29-57, Cl. 236-87.
- Lund, Nean K., to Bell Telephone Laboratories, Inc. Signal seeking self-adjusting radio receiving system. 2,798,944, 7-9-57, Cl. 250-6.
- Lund, Robert E., and D. E. Warnes, to St. Joseph Lead Co. Recovery of cadmium as sulphate from cadmium oxide containing dusts. 2,777,752, 1-15-57, Cl. 23-117.
- Lund, Thomas B., and E. P. Prielipp. Detachable switch holder pan for vehicle detectors. 2,790,874, 4-30-57, Cl. 200-86.
- Lundahl, Ezra C. Apparatus for stacking. 2,778,477, 1-22-57, Cl. 198-91.
- Lundahl, Ossian: *See*—
 Ensign, George G., Soper, and Lundahl. 2,789,411.
 Ensign, George G., Soper, and Lundahl. 2,800,763.
- Lundahl, Robert O. Portable electric fan unit. 2,803,527, 8-20-57, Cl. 230-259.
- Lundberg, Gust E., Jr.: *See*—
 Lundberg, Gust E., Sr. and Jr. 2,785,654.
- Lundberg, Gust E., Sr. and Jr. Double-ended chalk and crayon holder. 2,785,654, 3-19-57, Cl. 120-13.
- Lundberg, John E., to General Electric Co. Single axis gyroscope. 2,809,526, 10-15-57, Cl. 74-5.
- Lundberg, Lennart A., and W. F. Reynolds, Jr., to American Cyanamid Co. Paper sized with a condensation product of a fatty amine and hexahydro-1,3,5-triacrylyl-S-triazine. 2,794,737, 6-4-57, Cl. 92-3.
- Lundberg, Lennart A., and W. F. Reynolds, Jr., to American Cyanamid Co. Method of sizing paper with the condensation product of a long chain alkylamine with methylene-bisacrylamide. 2,801,169, 7-30-57, Cl. 92-21.
- Lunde, Theodore G. Combined air cleaner and vent. 2,784,801, 3-12-57, Cl. 183-45.
- Lundell, Kermit A., to Weber-Knapp Co. Hinge. 2,812,539, 11-12-57, Cl. 16-180.
- Lundell, Vernon J. Hay chopper and discharge spout therefor. 2,786,317, 3-26-57, Cl. 55-118.
- Lundell, Vernon J. Row crop forage harvester. 2,803,101, 8-20-57, Cl. 56-16.
- Lunden, Samuel E. Conductive pad and system for discharging static charges. 2,786,161, 3-19-57, Cl. 317-2.
- Lundgren, Bruce H.: *See*—
 Doland, Louis A., and Lundgren. 2,787,963.
- Lundgren, Don L., to Radio Corp. of America. Electro-mechanical filter assembly. 2,810,889, 10-22-57, Cl. 333-71.
- Lundgren, Harold P.: *See*—
 Fong, Willie, and Lundgren. 2,806,001.
 Walden, Mayo K., and Lundgren. 2,809,131.
- Lundgren, Harold P., M. K. Walden, and W. G. Rose, to the United States of America as represented by the Secretary of Agriculture. Synthesis of peptide structures. 2,786,049, 3-19-57, Cl. 260-112.
- Lundgren, Louis R., and O. W. Swenson. Post removing device. 2,777,726, 1-15-57, Cl. 294-92.
- Lundgren, Sven I.: *See*—
 Ahlberg, Lars F. B., and Lundgren. 2,781,845.
- Lundb, Karl-Gustav, to Anstalt Unda. Apparatus for extruding tubes of fibrous material. 2,803,042, 8-20-57, Cl. 18-14.
- Lundin, Harald, deceased; H. M. Lundin, executrix, 1/2 to H. M. Lundin, and 1/2 to B. Waller, Coating ferrous metals with aluminum. 2,785,084, 3-12-57, Cl. 117-51.
- Lundin, Helen M.: *See*—
 Lundin, Harald. 2,785,084.
- Lundquist, Edwin H. Attaching tool for threaded connectors. 2,797,420, 7-2-57, Cl. 7-14,1.
- Lundquist, Ingemar, to The Viking Tool & Machine Corp. Electric motor. 2,779,881, 1-29-57, Cl. 310-23.
- Lundquist, Richard C.: *See*—
 Lundgren, Frank A., and Lundquist. 2,788,201.
- Lundquist, Richard C., to Goodman Mfg. Co. Speed reduction drive and chain tensioning device. 2,776,018, 1-1-57, Cl. 180-9,1.
- Lundquist, Richard C., to Goodman Mfg. Co. Continuous miner having vertically adjustable ripper head. 2,776,127, 1-1-57, Cl. 262-9.
- Lundquist, Richard C., to Goodman Mfg. Co. Cutter head for boring type continuous miner. 2,783,036, 2-26-57, Cl. 262-7.
- Lundquist, Richard C., to Goodman Mfg. Co. Cutter bit and mounting therefor. 2,785,883, 3-19-57, Cl. 262-33.
- Lundqvist, Bengt J.: *See*—
 Löfgren, Nils M., and Lundqvist. 2,790,829.
 Löfgren, Nils M., and Lundqvist. 2,794,835.
- Lundqvist, Gota E.: *See*—
 Löfgren, Nils M., and Lundqvist. 2,794,835.
- Lundqvist, Josef A.: *See*—
 Löfgren, Nils M., and Lundqvist. 2,794,835.
- Lundskow, Henry P., to Eaton Mfg. Co. Liquid cooled electromagnetic apparatus. 2,803,764, 8-20-57, Cl. 310-93.
- Lundstedt, Erik, to H. P. Hood & Sons, Inc. Cheese curd testing apparatus. 2,791,903, 5-14-57, Cl. 73-56.
- Lundstrom, Carl B., deceased, H. W. C. W. and D. B. Lundstrom, executors. Shuttle block and method of forming same. 2,787,306, 4-2-57, Cl. 144-309.
- Lundstrom, Carl W.: *See*—
 Lundstrom, Carl B. 2,787,306.
- Lundstrom, David B.: *See*—
 Lundstrom, Carl B. 2,787,306.
- Lundstrom, Harold R. W., to W. H. Nichols Co. Metering pump. 2,818,023, 12-31-57, Cl. 103-126.
- Lundstrom, Helen W.: *See*—
 Lundstrom, Carl B. 2,787,306.
- Lundvall, Dan B. H.: *See*—
 Johannesson, Nils-Olof, and Lundvall. 2,782,378.
 Stålemark, Fritz R. V., and Lundvall. 2,782,258.
- Lundvall, John S., to Union Asbestos & Rubber Co. Brine tank system for refrigerator cars. 2,790,308, 4-30-57, Cl. 62-15.
- Lundy Mfg. Corp.: *See*—
 Sieradzki, Henry J. 2,812,896.
- Lundy, Victor: *See*—
 Wolcott, Harold D. 2,813,409.
- Lung, Kenneth R., to The Tait Mfg. Co. Method and apparatus for pumping. 2,779,293, 1-29-57, Cl. 103-118.
- Lung, Kenneth R., to The Tait Mfg. Co. Valve structure and method of operation. 2,779,352, 1-29-57, Cl. 137-490.
- Lung, Kenneth R., to The Tait Mfg. Co. Pumping system and coupling therefor. 2,786,417, 3-26-57, Cl. 103-5.
- Lung, Kenneth R., to The Tait Mfg. Co. Shallow well pump. 2,810,346, 10-22-57, Cl. 103-5.
- Lunsford, Eugene M., to the United States of America as represented by the Secretary of the Air Force. Quarter bag stow loop tool. 2,803,155, 8-20-57, Cl. 81-3.
- Lunsman, John E., and N. F., to Lunsman Mfg. Co., Inc. Device for lifting boats. 2,815,131, 12-3-57, Cl. 214-1.
- Lunsman Mfg. Co., Inc.: *See*—
 Lunsman, John E., and N. F. 2,815,131.
- Lunsman, Norman F.: *See*—
 Lunsman, John E., and N. F. 2,815,131.
- Luoma, Edwin. Double-compartment sink insert. 2,784,418, 3-12-57, Cl. 4-187.
- Lupfer, Dale E.: *See*—
 Fluegel, Dale A., and Lupfer. 2,813,237.
- Lupfer, Dale E., to Phillips Petroleum Co. Slip probe assembly. 2,815,663, 12-10-57, Cl. 73-342.
- Lupfer, David A., to General Electric Co. Treated cellulosic material and method of preparation thereof. 2,785,994, 3-19-57, Cl. 117-76.
- Luppold, George E., Jr., to Bailey Meter Co. Fluid pressure characterizing relay. 2,777,457, 1-15-57, Cl. 137-85.
- Luque, Eliseo. Production of synthetic coconut water. 2,776,891, 1-8-57, Cl. 99-22.
- Lurgi Gesellschaft fuer Waermetechnik m. b. H.: *See*—
 Rottig, Walter. 2,777,823.
 Rottig, Walter. 2,781,325.
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 Rottig, Walter. 2,786,817.
 Rottig, Walter. 2,805,239.
 Rottig, Walter, and Schaller. 2,818,418.
- Lurie, Daniel: *See*—
 Friedman, Aaron, Lurie, and Dale. 2,808,790.

- Lusebrink, Elmer H., to E. I. du Pont de Nemours and Co. Cassettes. 2,796,526, 6-18-57, Cl. 250-68.
- Lusebrink, Theodore R., and S. I. Cosgrove, to Shell Development Co. Hydrocarbon compositions. 2,800,401, 7-23-57, Cl. 44-62.
- Lushansky, Edward F., Jr. Power tool. 2,804,051, 8-27-57, Cl. 121-3.
- Lusk, Dewey L. Tube caliper. 2,786,276, 3-26-57, Cl. 33-178.
- Lusk, Earl E. Vehicle operated horizontally pivoted gate. 2,804,705, 9-3-57, Cl. 39-43.
- Lusk, Elmer C., and W. F. Bates; said Bates, to said Lusk. Apparatus for detecting physiological conditions. 2,812,757, 11-12-57, Cl. 128-2.
- Lusk, Joseph W. Simulated putting hole. 2,788,977, 4-16-57, Cl. 273-177.
- Lusser, Robert. Launching stabilizer for missiles. 2,801,571, 8-6-57, Cl. 89-17.
- Lusted, Lee B. Self-timing X-ray apparatus. 2,788,453, 4-9-57, Cl. 250-95.
- Lustenader, Edward L.: See—
Neugebauer, Franz J., Lustenader, Macaulay, and Tomlinson. 2,801,134.
- Lustfield, Joseph: See—
Finch, Percy K. 2,804,772.
- Lustig, Joseph, Jr.: See—
Drobney, Martin, and Lustig. 2,797,104.
- Lustraphone Ltd.: See—
Pontzen, George R., and Clark. 2,778,882.
- Lustwerk, Ferdinand, H. S. Mickley, and E. P. Neumann, to Rheem Mfg. Co. Heat exchange system. 2,817,959, 12-31-57, Cl. 62-156.
- Lustwerk, Ferdinand, H. S. Mickley, and E. P. Neumann, to Rheem Mfg. Co. Heat exchangers. 2,817,960, 12-31-57, Cl. 62-156.
- Luten, Daniel B., Jr.: See—
Keeler, William R., and Luten. 2,813,130.
- Luten, Daniel B., Jr., to Shell Development Co. Production of bis hydroxyaryl substituted compounds. 2,791,616, 5-7-57, Cl. 260-619.
- Lutes, Harold R. Interchangeable ophthalmic mounting. 2,786,391, 3-26-57, Cl. 88-41.
- Lutgerhorst, Albertus G., to American Enka Corp. Method of treating an article of polymer containing polypeptide groups to render it unmeltable. 2,808,346, 10-1-57, Cl. 117-118.
- Luther, Arch C., Jr.: See—
Bosinoff, Irving, and Luther. 2,786,150.
- Luther, Arch C., Jr., to Radio Corp. of America. Deflection circuit. 2,806,176, 9-10-57, Cl. 315-27.
- Luther, Florence E.: See—
Luther, Frank E., and Florence E. 2,804,902.
- Luther, Frank E., and Florence E. Carrying case for a box camera. 2,804,902, 9-3-57, Cl. 150-52.
- Luther, Herbert G., to Chas. Pfizer & Co., Inc. Treatment of flour with glucose oxidase. 2,783,150, 2-26-57, Cl. 99-93.
- Luther, Paul E. Valve head attachment for filling mechanism. 2,789,592, 4-23-57, Cl. 141-286.
- Luthman, Henrietta A.: See—
Luthman, Herbert J. 2,800,684.
- Luthman, Herbert J., deceased; by H. A. Luthman, executrix, to The National Cash Register Co. Apparatus for forming powdered metal parts. 2,800,684, 7-30-57, Cl. 18-16.5.
- Luthy, Max: See—
Gump, William S., Luthy, and Krebs. 2,812,365.
- Lutman, Byron O., Jr., to The Reliance Electric & Engineering Co. Conveyor control system. 2,808,922, 10-8-57, Cl. 193-82.
- Lüttgen Kommanditgesellschaft: See—
Lüttgen, Wilhelm, and Nachtmann. 2,778,186.
- Lüttgen, Wilhelm, and W. Nachtmann, to Lüttgen Kommanditgesellschaft. Textile processing apparatus. 2,778,186, 1-22-57, Cl. 57-50.
- Lutton, Edwin S., to The Procter & Gamble Co. Shortening. 2,801,177, 7-30-57, Cl. 99-118.
- Lutton, Joseph B., to De Walt Inc. Safety guard for rotary power tool. 2,785,716, 3-19-57, Cl. 144-251.
- Luttrell, Earl B., 25% to H. W. Bark. Two cycle internal combustion engine. 2,786,458, 3-26-57, Cl. 123-50.
- Lutz, August-Hans: See—
Frick, Heinrich, and Lutz. 2,784,200.
- Lutz, August-Hans, and O. Schneider, to Hoffmann-La Roche Inc. Substituted butyric acid amide compounds and preparation thereof. 2,812,331, 11-5-57, Cl. 260-294.
- Lutz, Charles H., W. R. Durrett, S. J. Posta, and F. M. Susel, to White-Rodgers Co. Burner control system. 2,817,395, 12-24-57, Cl. 158-28.
- Lutz, Friedrich, to Union Special Maschinenfabrik G. m. b. H. Portable sewing machines. 2,811,938, 11-5-57, Cl. 112-11.
- Lutz, Garson A.: See—
Stephan, Elmer F., and Lutz. 2,795,480.
- Lutz, Garson A., to the United States of America as represented by the United States Atomic Energy Commission. Method of recovering uranium from aqueous solutions. 2,780,514, 2-5-57, Cl. 23-14.5.
- Lutz, Henry J.: See—
Cohen, Arthur, and Lutz. 2,810,283.
- Lutz, Joseph M. Collapsible capless tube for toothpaste or the like. 2,792,149, 5-14-57, Cl. 222-107.
- Lutz, Karl, and O. Jucker, to Sandoz A. G. Pest combating agents. 2,777,792, 1-15-57, Cl. 167-22.
- Luvisi, Fred P.: See—
Filachione, Edward M., and Luvisi. 2,787,635.
- Luvisi, George W., to National Aluminate Corp. Method of improving the coefficient of friction between contacting metal surfaces and article produced thereby. 2,787,965, 4-9-57, Cl. 104-1.
- Luvisi, George W., to National Aluminate Corp. Method of improving frictional contact between metal surfaces normally in rolling contact and resultant structure. 2,787,968, 4-9-57, Cl. 104-1.
- Lux Clock Mfg. Co., Inc.: See—
Lux, Frederick. 2,783,610.
Lux, Frederick. 2,790,300.
- Lux, Eugene J. Vending machine. 2,784,872, 3-12-57, Cl. 221-207.
- Lux, Frederick, to The Lux Clock Mfg. Co., Inc. Dial and casing structure for a timer or like mechanism. 2,783,610, 3-5-57, Cl. 58-53.
- Lux, Frederick, to The Lux Clock Mfg. Co., Inc. Calendar clock. 2,790,300, 4-30-57, Cl. 58-6.
- Luxford, Robert K. Utility stand. 2,799,549, 7-16-57, Cl. 311-105.
- Luz, Christian: See—
Nightingall, Theodore C., and Luz. 2,816,478.
- Ly, Thaddeus. Key case. 2,795,128, 6-11-57, Cl. 70-456.
- Lyeth, J. M. R., Jr.: See—
Thornton, Ray F. 2,778,245.
Thornton, Ray F. 2,778,246.
- Lyijynen, Fred, to Chrysler Corp. Molding apparatus. 2,797,437, 7-2-57, Cl. 18-16.
- Lyijynen, Fred, to Chrysler Corp. Press for pressing laminated materials. 2,802,510, 8-13-57, Cl. 154-1.
- Lykes, Allison: See—
Lykes, Norman R. 2,810,231.
- Lykes, Norman R. Copy holding device for reading stand. 2,807,908, 10-1-57, Cl. 45-80.
- Lykes, Norman R., 5% to H. Metz and 40% to A. Lykes. Copy stand work holding means. 2,810,231, 10-22-57, Cl. 45-80.
- Lykins, James H., M. J. Bartkus, and H. A. Kermicle, to the United States of America as represented by the United States Atomic Energy Commission. Ionization chamber for fission counting. 2,790,919, 4-30-57, Cl. 313-54.
- Lykins, Sanford, Jr. Universal driving head for tools. 2,794,357, 6-4-57, Cl. 81-177.
- Lykken, Henry G., to The Microcyclomat Co. Centrifugal classification apparatus. 2,779,467, 1-29-57, Cl. 209-139.
- Lykken, Henry G. Lignite fuel. 2,811,427, 10-29-57, Cl. 44-20.
- Lyle, Addie M.: See—
Lyle, Gaylord O. and A. M. 2,789,630.
- Lyle, Charles, to James Lees and Sons Co. Method of making pile fabrics. 2,783,776, 3-5-57, Cl. 139-7.
- Lyle, Charles, and T. V. McClure. Needle loom. 2,814,315, 11-26-57, Cl. 139-123.
- Lyle, Gaylord O. and A. M. Automobile seat cushion and back half cover. 2,789,630, 4-23-57, Cl. 155-182.
- Lyle, George T. Combination safety lock for firearms. 2,803,910, 8-27-57, Cl. 42-70.
- Lyle, Halse M. Lawn edger. 2,791,077, 5-7-57, Cl. 56-25.4.
- Lyle, John P., Jr.: See—
Ennor, William T., and Lyle. 2,809,981.
- Lyles, George D. Combination merry-go-round and ferris wheel. 2,816,763, 12-17-57, Cl. 272-38.
- Lyman, Charles E., III, and A. V. Dean, to The Lyman Gun Sight Corp. Automatic primer feed device. 2,794,359, 6-4-57, Cl. 86-36.
- Lyman, George W., and G. W. Bibber, to Reed Rolled Thread Die Co. Resiliently mounted form rolling device. 2,781,677, 2-19-57, Cl. 80-6.
- Lyman Gun Sight Corp.: See—
Lyman, Charles E., III, and Dean. 2,794,359.
- Lyman, Harold T.: See—
Hill, Lester E., and Lyman. 2,780,784.
- Lyman, Harold T., to Aladdin Industries, Inc. Wide range radio frequency tuner. 2,786,945, 3-26-57, Cl. 250-40.
- Lyman, Harold T., and F. G. Mason, to Aladdin Industries, Inc. Wide range radio frequency tuner. 2,781,451, 2-12-57, Cl. 250-40.
- Lyman, Wallace R., to Westinghouse Electric Corp. Water cooler apparatus. 2,781,648, 2-19-57, Cl. 62-141.
- Lyman, William R., and A. F. Preuss, Jr., to Rohm & Haas Co. Boron-adsorbing resin and process for removing boron compounds from fluids. 2,813,838, 11-19-57, Cl. 260-2.1.
- Lymburner, Douglas H.: See—
Northcote, John, and Lymburner. 2,779,261.
- Lynch, Charles S.: See—
Corner, Eugene S., and Lynch. 2,778,804.
- Lynch Corp.: See—
Frank, Carl A., and Bartlo. 2,816,453.
Johnson, Charles A. E. 2,783,591.
McVicker, Robert F., and Taggart. 2,790,531.
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Rapp, Earl J. 2,794,404.
Reynolds, Walter J. 2,801,553.
Wiley, Robert F. 2,783,589.
- Lynch, Daniel M., to The B. F. Goodrich Co. Segmental track. 2,803,504, 8-20-57, Cl. 305-10.
- Lynch, Donald W., and G. Pinter, to General Electric Co. Heat pump including means for controlling effective refrigerant charge. 2,807,943, 10-1-57, Cl. 62-115.

- Lynch, Eugene J.: See—
 Acker, William L., Jr., and Lynch. 2,795,395.
- Lynch, Kenneth W.: See—
 Day, Carl L., Lynch, and Freeze. 2,786,601.
- Lynch, Leonard J. Television antenna. 2,776,430, 1-1-57, Cl. 343-836.
- Lynch, Leonard J. Electronic antenna. 2,810,906, 10-22-57, Cl. 343-100.
- Lynch, Maurice A., Jr.: See—
 Brimm, Eugene O., Lynch, and Sesny. 2,803,525.
- Lynch, Paul A. Hat support. 2,783,895, 3-5-57, Cl. 211-32.
- Lynch, Ralph S.: See—
 Larrecq, Anthony J., Lynch, and Cushing. 2,799,988.
- Lynch, Ridgeway T., C. F. Nichols, and H. P. Rilling, to American Enka Corp. Method and apparatus for handling threads. 2,789,339, 4-23-57, Cl. 28-28.
- Lynch, Thomas V. Match book. 2,799,392, 7-16-57, Cl. 200-48.
- Lynch, Vernon C. Electric fishing reel. 2,776,515, 1-8-57, Cl. 43-21.
- Lynch, Walton D.: See—
 Bemiss, Robert P., and Reichard. 2,803,392.
- Lynd, William E. Vehicle suspension and raising and lowering means. 2,788,908, 4-16-57, Cl. 214-505.
- Lynes, Arthur E.: See—
 Senkowski, Alexander, and Lynes. 2,787,919.
- Lynes, Inc.: See—
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- Lynes, John. 2,778,431.
- Lynes, John, Allen, and Gardner. 2,796,938.
- Lynes, John, to Lynes, Inc. Well packer reinforcing. 2,778,431, 1-22-57, Cl. 166-187.
- Lynes, John, G. H. Allen, and J. D. Gardner, to Lynes, Inc. Tool for treating, testing and servicing wells. 2,796,938, 6-25-57, Cl. 166-183.
- Lynn, Clarence, and J. V. Dobson; said Lynn assor. to Westinghouse Electric Corp., and said Dobson assor. to Stackpole Carbon Co. Direct current dynamoelectric machine. 2,780,741, 2-5-57, Cl. 310-177.
- Lynn, Edwin W.: See—
 Giles, Jeremiah D., and Lynn. 2,817,451.
- Lynn, John. Pulsating hydraulic pump equipment. 2,786,419, 3-26-57, Cl. 103-44.
- Lynn, John W., to Union Carbide and Carbon Corp. Esters of N, N-bis (2-cyanoethyl) carboxamic acids. 2,790,820, 4-30-57, Cl. 260-465.4.
- Lynn, Roland A., to Radio Corp. of America. Magnetic head assemblies. 2,807,676, 9-24-57, Cl. 179-100.2.
- Lynott, Thomas J.: See—
 Dickman, Leslie A. 2,817,226.
- Lyon, Arthur P. Strand measuring device. 2,810,199, 10-22-57, Cl. 33-130.
- Lyon, Charles E., Jr.: See—
 Clark, Alfred J., and Lyon. 2,814,010.
- Lyon, Charles G. Removable secondary glazing for windows. 2,780,846, 2-12-57, Cl. 20-56.4.
- Lyon, Charles R.: See—
 Gregg, George F., and Caldwell. 2,800,050.
- Lyon, Chester S. Gear operated angularly adjustable socket wrench. 2,791,142, 5-7-57, Cl. 81-57.
- Lyon, Ernest C. Whip shaft hammer having turnable head. 2,809,684, 10-15-57, Cl. 145-29.
- Lyon, Floyd A.: See—
 Drillick, John H., Floyd, Halahan, Aronson, and Lyon. 2,792,275.
- Halahan, John, Aronson, and Lyon. 2,787,214.
- Halahan, John, Aronson, and Lyon. 2,795,994.
- Halahan, John, Aronson, and Lyon. 2,817,267.
- Lyon, George A. Wheel cover. Re. 24,335, 6-25-57, Cl. 301-37.
- Lyon, George A. Wheel cover. Re. 24,402, 12-10-57, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,776,170, 1-1-57, Cl. 301-37.
- Lyon, George A. Impeller. 2,779,424, 1-29-57, Cl. 170-168.
- Lyon, George A. Wheel cover. 2,779,632, 1-29-57, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,779,633, 1-29-57, Cl. 301-37.
- Lyon, George A. Article carrying means. 2,783,962, 3-5-57, Cl. 248-318.
- Lyon, George A. Wheel cover. 2,790,681, 4-30-57, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,790,682, 4-30-57, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,794,684, 6-4-57, Cl. 301-37.
- Lyon, George A. Wheel structure. 2,799,536, 7-16-57, Cl. 301-37.
- Lyon, George A. Wheel structure. 2,799,537, 7-16-57, Cl. 301-37.
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- Lyon, George A. Wheel cover. 2,804,347, 8-27-57, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,804,348, 8-27-57, Cl. 301-37.
- Lyon, George A. Method of manufacturing cartridge casings. 2,805,466, 9-10-57, Cl. 29-1.3.
- Lyon, George A. Wheel cover. 2,806,742, 9-17-57, Cl. 301-6.
- Lyon, George A. Apparatus for shaping wheel covers. 2,807,226, 9-24-57, Cl. 113-42.
- Lyon, George A. Wheel structure. 2,808,907, 10-8-57, Cl. 188-264.
- Lyon, George A. Wheel structure with brake drum cooling means. 2,808,908, 10-8-57, Cl. 188-264.
- Lyon, George A. Wheel structure with brake drum cooling means. 2,808,909, 10-8-57, Cl. 188-264.
- Lyon, George A. Combination brake drum cooling and vibration damping device. 2,808,910, 10-8-57, Cl. 188-264.
- Lyon, George A. Wheel cover. 2,809,075, 10-8-57, Cl. 301-37.
- Lyon, George A. Wheel structure with brake drum cooling means. 2,809,318, 10-8-57, Cl. 188-264.
- Lyon, George A., Jr., to Lyon Inc. Wheel cover. 2,805,893, 9-10-57, Cl. 301-37.
- Lyon Inc.: See—
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- Wisniewski, John C. 2,779,142.
- Lyon, John K., 1/2 to Karl J. Kraus. Ride stabilizing system for automobiles. 2,812,954, 11-12-57, Cl. 280-124.
- Lyon, Malcolm G., and R. P. Green, to The Champion Paper and Fibre Co. Process for producing semichemical pulp. 2,791,503, 5-7-57, Cl. 92-6.
- Lyon, Merrill K., and A. Tanaka, to General Motors Corp. Seat adjuster mechanism. 2,796,113, 6-18-57, Cl. 155-14.
- Lyon, Newton E. Fluid level indicators. 2,802,362, 8-13-57, Cl. 73-322.
- Lyon, Norman W.: See—
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- Lyon, Norman W., to Package Machinery Co. Valve mechanism for container filling apparatus. 2,776,785, 1-8-57, Cl. 222-318.
- Lyon, Norman W., to Package Machinery Co. Mechanical drive for cardboard bottle filling machines. 2,817,201, 12-24-57, Cl. 53-281.
- Lyon, Norman W., to Package Machinery Co. Plug expander unit for cardboard containers. 2,817,202, 12-24-57, Cl. 53-330.
- Lyon, Royal E., to Hughes Aircraft Co. Time discriminator. 2,812,435, 11-5-57, Cl. 250-27.
- Lyon, Sherley B. Cement block handling tool. 2,808,286, 10-1-57, Cl. 294-62.
- Lyon, Walter E., to The Firestone Tire & Rubber Co. Tire. 2,802,504, 8-13-57, Cl. 152-341.
- Lyon, William H., to The Soundsciber Corp. Reel clamp and handle for magnetic tape. 2,803,413, 8-20-57, Cl. 242-68.3.
- Lyon, William H., to The Soundsciber Corp. Knee action pressure plate for magnetic tape recorder. 2,803,709, 8-20-57, Cl. 179-100.2.
- Lyns, Fred G. Lock for adjusting worm of a movable jaw wrench. 2,780,124, 2-5-57, Cl. 81-165.
- Lyns, Gerald V.: See—
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- Lyns, Harold D., and J. T. Edmonds, Jr., to Phillips Petroleum Co. Process for recovering cyclohexanone by formation of a bisulfite adduct. 2,813,905, 11-19-57, Cl. 260-586.
- Lyns, Norman D. H. Game apparatus. 2,799,505, 7-16-57, Cl. 273-136.
- Lyns, Raymond J., to National Aluminate Corp. Method of improving the coefficient of friction between contacting metal surfaces and article produced thereby. 2,787,966, 4-9-57, Cl. 104-1.
- Lyns, Walter, to Radio Corp. of America. Call signing. 2,783,301, 2-26-57, Cl. 178-66.
- Lyns, Walter, to Radio Corp. of America. Peak limiting for single sideband transmitter. 2,811,694, 10-29-57, Cl. 332-38.
- Lysen, Kermit V. Luggage carriers for automobiles. 2,812,992, 11-12-57, Cl. 312-311.
- Lysne, Kenneth M. Portable mortar container. 2,793,788, 5-28-57, Cl. 220-69.
- Lytle, George F., to Vac-U-Lift Co. Valve means for suction lifting devices. 2,783,018, 2-26-57, Cl. 251-25.
- Lytle, George F., to Vac-U-Lift Co. Suction pads with floating sealing ring. 2,815,240, 12-3-57, Cl. 294-64.
- Lytle, Lawrence R.: See—
 Dreyer, John F. 2,776,598.
- Lytle, Melba L.: See—
 Caldwell, Joseph A., and Lytle. 2,799,649.
- Lytle, William O., to Pittsburgh Plate Glass Co. Electrical heating devices. 2,777,044, 1-8-57, Cl. 219-19.
- Lyttle, Douglas A., and R. H. Levin, to The Upjohn Co. 4,16-pregnadiene-3,11,20-trione and process. 2,794,814, 6-4-57, Cl. 260-397.3.
- Lyttle, Douglas A., and D. I. Weisblat, to The Upjohn Co. Resolution of tryptophane derivatives. 2,813,876, 11-19-57, Cl. 260-319.
- Lytton, Marion R.: See—
 Thumm, Byron A., Lytton, and Howsmon. 2,792,280.
- Lytton, Marion R., to American Viscose Corp. Viscose composition and method of spinning. 2,792,278, 5-14-57, Cl. 18-54.
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- Lytton, Marion R., E. A. Wielicki, and E. Lewis, to American Viscose Corp. Compositions comprising plasticized acrylonitrile polymers and molded and extruded articles made therefrom. 2,776,946, 1-8-57, Cl. 260-32.6.
- M. E. P. Co., Ltd.: *See—*
- Guthrie, Charles G., and May. 2,783,729.
- MIBIS Societe d'Etudes et d'Exploitation de Containers: *See—*
- Morterol, Michel. 2,818,196.
- M & R Machine Shop Division of the Shaw Wood Specialties, Inc.: *See—*
- Shaw, Millard R. 2,798,649.
- M & T Welding Products Corp.: *See—*
- Glenn, George G., and Wahlgren. 2,800,571.
- Maag, Dr. K., A.-G., Chemische Fabrik Dielsdorf: *See—*
- Gruber, Max H., and Willietz. 2,812,368.
- Maas, Henricus J.: *See—*
- Verhappen, Jacobus T., Maas, and Verbakel. 2,813,388.
- Verhappen, Jacobus T., Maas, and Verbakel. 2,817,402.
- Maass, Erwin, to Voigt & Haefner Aktiengesellschaft. Load break disconnects. 2,808,489, 10-1-57, Cl. 200-146.
- Maatschappij-Koffiepelletij Blaauwhoedenvem: *See—*
- Van Douwe, Dirk. 2,776,747.
- Mabe, Calvin M., 1/2 to A. J. Ellington. Cultivating and planting tool. 2,808,772, 10-8-57, Cl. 97-177.
- Mabee, J. E.: *See—*
- Turnquist, Edwin W., and Wilson. 2,776,031.
- Maberry, Garland A. Plug connector reversing switch. 2,792,559, 5-14-57, Cl. 339-31.
- Mabery, Thomas L., to Combustion Engineering, Inc. Tube bending machine with rotating former and means for moving a wiper bar in an orbit at twice the angular speed of the former. 2,817,384, 12-24-57, Cl. 153-39.
- Mabie, Paul S.: *See—*
- Fields, Herbert P., and Mabie. 2,796,265.
- Mabon, Carl R.: *See—*
- Hageman, Louis F., and Mabon. 2,778,424.
- Mabry, Lloyd C., Jr.: *See—*
- Myers, John W., and Mabry. 2,784,162.
- Mabry, Lloyd C., Jr., and J. W. Myers, to Phillips Petroleum Co. Process of activating hydrocracking catalysts with hydrogen. 2,817,626, 12-24-57, Cl. 196-53.
- MacAdam, Mark L.: *See—*
- Leemon, Walter S., and MacAdam. 2,777,960.
- MacAfee, Merrill W., to Pacific Foundry Co., Ltd. Recovery of elemental sulphur from a gas system. 2,780,307, 2-5-57, Cl. 183-32.
- MacAleese, Robert H., to Syndicate Glass, Inc. Counter display fixture. 2,797,975, 7-2-57, Cl. 312-140.3.
- MacAleese, Robert H., to Syndicate Glass, Inc. Close adjustment counter sham. 2,801,893, 8-6-57, Cl. 312-140.3.
- Macaluso, Francis L.: *See—*
- Wagner, Robert J., and Macaluso. 2,793,005.
- Macaluso, Henry, to P. Ballantine & Sons. Roller conveyor apparatus. 2,785,785, 3-19-57, Cl. 198-21.
- MacArthur, Hamilton E., and E. L. Faber, to Conforming Matrix Corp. Spray painting machine. 2,810,364, 10-22-57, Cl. 118-11.
- MacArthur, John J., Jr. Twin bags. 2,813,602, 11-19-57, Cl. 190-60.
- Macaulay, Robert W.: *See—*
- Neugebauer, Franz J., Lustenader, Macaulay, and Tomlinson. 2,801,134.
- Parsons, James R., and Macaulay. 2,782,597.
- Macaulay, John: *See—*
- Smith, Earle E. 2,790,585.
- MacBlane, James, and R. N. Paterson, to The Nylok Corp. Apparatus for cutting and inserting resilient plugs in threaded fastening members. 2,779,038, 1-29-57, Cl. 10-72.
- MacBlane, James, Sr., to Harding Brothers, Inc. Feed chucks. 2,786,686, 3-26-57, Cl. 279-23.
- Maccaferri, Mario. Neck junction for stringed musical instruments. 2,793,556, 5-28-57, Cl. 84-267.
- Maccaferri, Mario. Composite neck and fingerboard components for stringed musical instruments. 2,795,988, 6-18-57, Cl. 84-293.
- Maccaferri, Mario. Plastic wall tile for packing. 2,809,544, 10-15-57, Cl. 72-18.
- MacCaffray, Rex S., Jr., to C. H. Masland & Sons. Formation of high and low loops by needling. 2,784,689, 3-12-57, Cl. 112-79.
- MacCaffray, Rex S., Jr., to C. H. Masland & Sons. Needling pile fabric. 2,811,244, 10-29-57, Cl. 203-355.
- MacCallum, Lindsay S. Control devices for motor vehicles. 2,787,351, 4-2-57, Cl. 192-3.
- Maccarone, Fred. Shoemaking. 2,776,503, 1-8-57, Cl. 36-58.5.
- Maccarone, Fred. Shoe construction. 2,785,480, 3-19-57, Cl. 36-2.5.
- Maccary, Raymond R.: *See—*
- Mallet, Louis D., and Maccary. 2,781,022.
- MacCauley, Wilbur J.: *See—*
- Woods, Elmer O., MacCauley, and Kaufman. 2,806,928.
- MacCauley, Wilbur J., and N. C. Parrish, to Helco Products Corp. Valve control apparatus for use in flush tank. 2,806,483, 9-17-57, Cl. 137-403.
- MacChesney, Chester M., to Acme Steel Co. Sealing device. 2,797,714, 7-2-57, Cl. 140-93.2.
- MacChesney, George W., to General Dynamics Corp. Permutational switch. 2,815,586, 12-10-57, Cl. 35-4.
- Macchi, Louis. Extractor implement for crab grass. 2,809,067, 10-8-57, Cl. 294-50.7.
- Macchi, Sadie E., and V. L. Kirkendall. Flasher. 2,797,343, 6-25-57, Cl. 307-132.
- MacClatchie Mfg. Co.: *See—*
- Shellman, Roy K., and Leathers. 2,792,016.
- MacCluney, William R. Chain take up device. 2,797,891, 7-2-57, Cl. 254-78.
- MacCluney, William R. Safety link. 2,801,843, 8-6-57, Cl. 267-70.
- Macco Corp.: *See—*
- Rhodes, Aaron D. 2,807,937.
- MacCracken, Calvin D., to Jet-Heat, Inc. Intermittent fuel injection system. 2,774,433, 1-15-57, Cl. 123-139.
- MacCracken, Calvin D., to Jet-Heat, Inc. Forced air heating apparatus. 2,783,755, 3-5-57, Cl. 126-110.
- MacCracken, Calvin D., to Jet-Heat, Inc. Heating units. 2,802,088, 8-6-57, Cl. 219-39.
- MacCracken, Calvin D., to Jet-Heat, Inc. Combustion and flame detecting apparatus. 2,812,015, 11-5-57, Cl. 158-28.
- MacCurdy, William K., to the United States of America as represented by the Secretary of the Navy. Rotary target projector. 2,777,319, 1-15-57, Cl. 73-12.
- MacCutcheon, Edward M., Jr. Method for preventing rupture of metal structures. 2,813,049, 11-12-57, Cl. 148-12.
- MacDonald, Angus N.: *See—*
- Crozier, Robert N., MacDonald, and Price. 2,816,655.
- MacDonald, Bruce: *See—*
- Guerard, Albert S., Jr., Ranney, Reese, and MacDonald. 2,793,659.
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- MacDonald, Chester R., to The Patent and Licensing Corp. Method of and apparatus for applying aqueous dispersions in manufacture of paperboard and the like. 2,778,284, 1-22-57, Cl. 92-41.
- MacDonald, Duncan N.: *See—*
- Sink, Robert L., Lahti, MacDonald, and Patrick. 2,818,557.
- MacDonald, Duncan N., to Consolidated Electrodynamics Corp. Wiper for stepping switch. 2,806,925, 9-17-57, Cl. 200-166.
- Macdonald, Eric: *See—*
- Ganguin, Karl O., and Macdonald. 2,805,158.
- MacDonald, Hugh D. H., to Revere Corp. of America. Weighing cells. 2,813,958, 11-19-57, Cl. 201-63.
- Macdonald, James M. and Jean. Card game implements. 2,776,498, 1-8-57, Cl. 35-8.
- Macdonald, James R., to the United States of America as represented by the United States Atomic Energy Commission. High impedance electronic circuit. 2,795,654, 6-11-57, Cl. 179-171.
- Macdonald, Jean: *See—*
- Macdonald, James M. and Jean. 2,776,498.
- MacDonald, John A.: *See—*
- Snyder, Harold R., and MacDonald. 2,810,727.
- MacDonald, Mortimer D., and W. F. Cyrus, to the State of Oregon, acting by and through the Oregon State Board of Forestry. Press having thickness control means. 2,810,930, 10-29-57, Cl. 18-17.
- MacDonald, Raymore D., to Barber-Greene Co. Tractor mounted windrow loader. 2,805,750, 9-10-57, Cl. 198-10.
- MacDonald, Robert N.: *See—*
- Kubico, Michael A., MacDonald, Stearns, and Wolff. 2,810,708.
- MacDonald, Robert N., to E. I. du Pont de Nemours and Co. Synthetic optically-active homopolymers of alpha-monaminomonomer carboxylic acids. 2,789,973, 4-23-57, Cl. 260-78.
- MacDonald, Robert W., to Esso Research and Engineering Co. Acetylene removal from hydrocarbon streams. 2,818,457, 12-31-57, Cl. 260-681.5.
- MacDonald, Waldron S. Piezo-electric anti-countermeasure circuit. 2,802,420, 8-13-57, Cl. 102-18.
- MacDonell, John R. Car window drain. 2,779,622, 1-29-57, Cl. 296-44.
- MacDougall, Donald J.: *See—*
- Cade, Phillip J., and MacDougall. 2,811,711.
- MacDougall, Hugh C., to General Foods Corp. Food product. 2,812,255, 11-5-57, Cl. 99-125.
- MacDowell, Kenneth M., to Raytheon Mfg. Co. Failure indication in relay communication systems. 2,802,898, 8-13-57, Cl. 178-5.
- Macek, Thomas J.: *See—*
- Baade, William H., and Macek. 2,805,232.
- MacFadden, Wilford C., to United-Carr Fastener Corp. Electrical assembly. 2,784,386, 3-5-57, Cl. 339-128.
- MacFadden, Wilford C., to Cinch Mfg. Corp. Tube socket for printed circuits. 2,797,397, 6-25-57, Cl. 339-14.
- MacFarland, Allison M., to P. R. Mallory & Co. Inc. Leak-proof dry cell. 2,794,060, 5-28-57, Cl. 136-133.
- Macfarlane, John J.: *See—*
- Taylor, Tristram A., Macfarlane, and Stephenson. 2,781,005.
- MacFarlane, Richard B. Stroboscopic light source. 2,788,462, 4-9-57, Cl. 313-205.
- MacFarlane, Richard R.: *See—*
- Dyrkacz, Wasil W., Reynolds, and MacFarlane. 2,814,563.
- MacFee, Fred O., Jr., and L. R. Yorgy, to General Electric Co. Deviation factor meter. 2,785,377, 3-12-57, Cl. 324-77.

- MacGeorge, William D., to Automatic Temperature Control Co., Inc. Apparatus for effecting automatic batching of composite mixtures. 2,801,874, 8-6-57, Cl. 249-14.
- MacGregor, Charles L., to American Optical Co. Ophthalmic mountings. 2,778,271, 1-22-57, Cl. 88-47.
- Macgregor, Ian A.: *See*—
- Knowlton, Robert E., Macgregor, and Evans. 2,815,376.
- MacGregor Instrument Co.: *See*—
- Lingley, Robert C. 2,806,473.
- MacGregor, James, and H. E. Muller, to York Engineering & Construction Co. Conveying and cooling apparatus. 2,796,780, 6-25-57, Cl. 80-42.
- MacGregor, Peter S.: *See*—
- Goodliffe, Arthur W., and MacGregor. 2,788,243.
- MacGregor Sport Products, Inc.: *See*—
- Reeder, Leo E. 2,785,407.
- Strohm, Elwood. 2,785,404.
- MacGriff, Jack E., and M. L. Bacon. Fluid level indicator. 2,777,030, 1-8-57, Cl. 200-84.
- Mach, Adele S. Hair and scalp protectors. 2,818,074, 12-31-57, Cl. 132-9.
- Mach, Joseph A. Holder or setter for welding. 2,787,234, 4-2-57, Cl. 113-102.
- Machalek, Ferdinand T., to The Baldwin Piano Co. Drop action for vertical pianos. 2,806,398, 9-17-57, Cl. 84-240.
- MacHenry, Richard, to American Viscose Corp. Abraded-yarn production. 2,781,555, 2-19-57, Cl. 19-64.
- MacHenry, Richard, to American Viscose Corp. Absorbent element for filters and the like. 2,812,767, 11-12-57, Cl. 131-10.
- MacHenry, Richard, to American Viscose Corp. Apparatus for producing an absorbent element for filters. 2,812,796, 11-12-57, Cl. 154-17.
- MacHenry, Richard, to American Viscose Corp. Method of producing an absorbent element for filters. 2,813,051, 11-12-57, Cl. 154-90.
- Machin, Cecil F.: *See*—
- Ketteringham, Terence A., and Machin. 2,815,473.
- Machine Tool Control Corp.: *See*—
- Cross, Chester A. 2,790,340.
- Machine Tool Works Oerlikon, Administration Co.: *See*—
- Apothélos, Robert. 2,789,507.
- Apothélos, Robert, and Niederer. 2,784,669.
- Burri, Heinrich, and Schori. 2,782,717.
- Hager, August. 2,806,427.
- Hepperle, Erwin. 2,778,276.
- Herlach, Fritz, and Linder. 2,801,573.
- Herlach, Heinrich. 2,778,277.
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- Machinenfabrik Meer Aktiengesellschaft: *See*—
- Schnellmann, Ferdinand. 2,791,971.
- Machinery Electrification, Inc.: *See*—
- Mason, James A. 2,788,104.
- Machlanski, Sigmund, to Bendix Aviation Corp. Single lever controlled starting and power control device for an aircraft engine. 2,789,418, 4-23-57, Cl. 60-39.2.
- Machler, Raymond C., to Leeds and Northrup Co. Optical systems for radiation pyrometers. 2,813,203, 11-12-57, Cl. 250-220.
- Machlett Laboratories, Inc.: *See*—
- Agule, George J. 2,810,849.
- Couch, William M., Jr. 2,804,564.
- Couch, William M., Jr. 2,804,567.
- Doolittle, Howard D. 2,779,895.
- Palmer, Albert O. 2,804,563.
- Skehan, Joseph W. 2,790,924.
- Sturges, Albert L. 2,802,134.
- Machover, Carl, to Norden-Ketay Corp. Gyroscope erection cutout and recycling device. 2,803,965, 8-27-57, Cl. 74-54.1.
- Maciejowski, John J., to United Shoe Machinery Corp. Control systems for work treating machines. 2,786,676, 3-26-57, Cl. 271-68.
- MacInnes, Marie D. Shelf step for counter cabinets and the like. 2,801,894, 8-6-57, Cl. 312-235.
- MacIntosh, John R., and S. A. Mercurio, to Mermac Products, Inc. Abrasive wheel structure. 2,801,504, 8-6-57, Cl. 51-191.
- MacIntyre, John A., to U. S. Plush Mills, Inc. Two-ply fabric. 2,803,268, 8-20-57, Cl. 139-410.
- MacIntyre, John R.: *See*—
- Faus, Harold T., Sias, and MacIntyre. 2,794,137.
- Macintyre, John R., to General Electric Co. Quick response resistance temperature detector. 2,780,703, 2-5-57, Cl. 201-63.
- MacIntyre, Ronald, and R. E. Scott, to Specialties Development Corp. Core composition for fire detector element. 2,785,142, 3-12-57, Cl. 252-518.
- Maciszewski, Arthur H., and R. Goldstein, to A. R. F. Products, Inc. Frequency selective vibrating reed relay. 2,795,672, 6-11-57, Cl. 200-91.
- Mack, Alfred, to the United States of America as represented by the Secretary of the Army. Telegraph repeater. 2,799,724, 7-16-57, Cl. 178-71.
- Mack, Dick A.: *See*—
- Heller, Robert E., Owren, and Mack. 2,799,836.
- Mack, Franklin B.: *See*—
- Curtiss, Nathaniel H., and Mack. 2,815,638.
- Mack, George W. Back wiping, rubbing or massaging device. 2,807,815, 10-1-57, Cl. 15-118.
- Mack, Gerry P., and E. Parker, to Carlisle Chemical Works, Inc. Polymeric organo-tin mercapto compounds, method of making same, and halogen-containing resins stabilized therewith. 2,809,956, 10-15-57, Cl. 260-45.75.
- Mack Molding Co. Inc.: *See*—
- Whitelaw, Joseph C. 2,812,530.
- Mack, Norman A. Lithographic plate dampening roller. 2,778,093, 1-22-57, Cl. 29-119.
- Mack, Stanley Z.: *See*—
- Serson, Paul H., and Mack. 2,809,528.
- Mack Trucks, Inc.: *See*—
- Greathouse, Jack F. 2,798,438.
- Zeller, Theodore J. 2,798,568.
- Zeller, Theodore J. 2,817,144.
- Mackas, George, to the United States of America as represented by the Secretary of the Navy. Gun tube temperature simulator. 2,789,428, 4-23-57, Cl. 73-15.
- MacKay, John R., to Wallace & Tiernan Inc. Motor control for cam follower. 2,788,477, 4-9-57, Cl. 318-28.
- Mackay, Johnstone S.: *See*—
- Boatright, Leslie G., and Mackay. 2,783,276.
- Kauffman, Harry F., Griffiths, and Mackay. 2,796,331.
- Ohls, Ernest O., and Mackay. 2,786,873.
- Mackay, Johnstone S., and L. G. Boatright, to American Cyanamid Co. Vapor phase preparation of cyanamide from cyanic acid. 2,783,131, 2-26-57, Cl. 23-190.
- Mackay, Kenneth H. Dispensing box and cup support. 2,803,390, 8-20-57, Cl. 229-17.
- MacKay, Malcolm N., to Picker X-Ray Corp., Waite Mfg. Div. Inc. Cassette retainer. 2,790,909, 4-30-57, Cl. 250-68.
- Macke, Leo B. Hand guided, self-propelled cultivating device. 2,789,492, 4-23-57, Cl. 97-44.
- Macke, Robert A., and E. F. Wadley, to Esso Research and Engineering Co. Production of lubricating oils. 2,780,581, 2-5-57, Cl. 196-14.42.
- MacKechnie, Horace K.: *See*—
- Moran, James M., and MacKechnie. 2,784,288.
- MacKendrick, David B., to Kaz Mfg. Co., Inc. Electric plate warmer. 2,802,091, 8-6-57, Cl. 219-46.
- Mackenzie, Elbert K., and R. G. Eisenhardt, to Moore Products Co. Fluid pressure controlled positioners for fluid operated motors. 2,817,318, 12-24-57, Cl. 121-41.
- MacKenzie, Kenneth R.: *See*—
- Martin, Marvin D., MacKenzie, and Salsig. 2,789,222.
- Mackenzie, Neil M.: *See*—
- Eberhart, Dale R., and Mackenzie. 2,812,321.
- Mackey, Bruce A. Boring tools. 2,812,791, 11-12-57, Cl. 145-116.
- Mackie, Charles: *See*—
- Pfundt, Fredrick H. 2,789,877.
- Mackie, Harry A., to Clark Equipment Co. Hood linkage and latch mechanism. 2,794,511, 6-4-57, Cl. 180-69.
- Mackie, Messrs James & Sons Ltd.: *See*—
- Bade, Heinz. 2,788,631.
- Bade, Heinz. 2,807,131.
- Mackintosh, Charles. Collapsible furniture. 2,788,059, 4-9-57, Cl. 155-124.
- Mackintosh, Charles. Water filtering apparatus. 2,792,943, 5-21-57, Cl. 210-448.
- Mackintosh, Charles. Grandstands. 2,817,121, 12-24-57, Cl. 20-1.126.
- MacKissie, Albert E. Feed transport mixer. 2,813,704, 11-19-57, Cl. 259-9.
- Macklanburg-Duncan Co.: *See*—
- Macklanburg, Louis A. 2,794,219.
- Macklanburg, Louis A., to Macklanburg-Duncan Co. Door sealing threshold. 2,794,219, 6-4-57, Cl. 20-64.
- Macklem, F. Sutherland, to the United States of America as represented by the Secretary of the Navy. Navigational computer and plotter for a mercator projection. 2,818,211, 12-31-57, Cl. 235-61.
- Macklem, F. Sutherland, and F. G. Willey, to the United States of America as represented by the Secretary of the Navy. Low-inertia plotting-board drive. 2,785,941, 3-19-57, Cl. 346-8.
- Macklin, Seddie B. Vehicle towing device. 2,782,944, 2-26-57, Cl. 214-86.
- MacKnight, Bonna: *See*—
- MacKnight, Edgar W. Re. 24,290.
- MacKnight, Edgar W. 2,803,990.
- MacKnight, Edgar W., deceased; B. MacKnight, executrix, by decree of distribution, to said B. MacKnight. Adjustable seat assembly. Re. 24,290, 3-19-57, Cl. 155-81.
- MacKnight, Edgar W., by decree of distribution to B. MacKnight. Optical perimeter. 2,803,990, 8-27-57, Cl. 88-20.
- MacKnight, John D., to The Texas Co. Method of completing a well. 2,814,347, 11-26-57, Cl. 166-42.
- MacKnight, Merritt L., to Hughes Aircraft Co. Method and circuits for synchronizing counters. 2,806,947, 9-17-57, Cl. 250-27.

- MacKnight, Merritt L., and J. O. Beaumont, to Hughes Aircraft Co. Analogue-to-digital converter system. 2,787,418, 4-2-57, Cl. 235-61.
- MacKta, Leo. Coincidence sensor. 2,796,551, 6-18-57, Cl. 315-8.5.
- MacLachlan, Robert D., to Coats & Clark Inc. Processing of separable fastener stringers. 2,799,636, 7-16-57, Cl. 204-143.
- MacLaine Pont, Henri. Rafter principals for use in roofs of large span. 2,802,432, 8-13-57, Cl. 108-1.
- MacLaren, Donald D., to Esso Research and Engineering Co. Fluid batch hydroforming process. 2,805,980, 9-10-57, Cl. 196-49.
- MacLaren, Frederick B., to Acton Laboratories, Inc. Multi-turn potentiometer. 2,778,909, 1-22-57, Cl. 201-56.
- MacLean, Alexander F., and C. C. Hobbs, Jr., to Celanese Corp. of America. Synthesis of pyridines. 2,780,627, 2-5-57, Cl. 260-290.
- MacLean, John, deceased; by J. R. MacLean, administrator. Roll ring binders. 2,809,636, 10-15-57, Cl. 129-23.
- MacLean, John R., administrator: See—
MacLean, John. 2,809,636.
- MacLean, Robert B., to General Foods Corp. Pitcher cover and confection freezing tray. 2,784,684, 3-12-57, Cl. 107-19.
- Macleans Ltd.: See—
McGeorge, Walter, and Hamilton. 2,794,574.
- Macleish, Kenneth G., to the United States of America as represented by the United States Atomic Energy Commission. Remote adjustment of automatic control system. 2,797,050, 6-25-57, Cl. 236-51.
- MacLeod, Lester R. Crusher lining. 2,813,685, 11-19-57, Cl. 241-299.
- MacLeod, Norman C. Means and method for stimulating the flow of well fluids and for declogging well bore walls and well casing perforations. 2,790,388, 4-30-57, Cl. 102-21.6.
- Macleish, Kenneth G., to the United States of America as represented by the United States Atomic Energy Commission. Electromagnet regulator. 2,787,737, 4-2-57, Cl. 317-123.
- MacMartin, Malcolm P., and N. L. Kusters, to National Research Council. Flow detector for continuous sheet material. 2,812,447, 11-5-57, Cl. 250-214.
- MacMaster, Harry D., to General Grinding Wheel Corp. Laminated grinding wheel. 2,808,688, 10-8-57, Cl. 51-193.
- MacMillan, Charles W., to Bear Mfg. Co. Vibration indicator. 2,777,327, 1-15-57, Cl. 73-457.
- MacMillan, John H., Jr., to Cargill, Inc. Water craft hull tunnel and propeller arrangement. 2,784,691, 3-12-57, Cl. 115-42.
- MacMillan, Melvin J.: See—
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Hochberg, Melvin, and MacMillan. 2,777,798.
- MacMillan, Robert D., C. G. McKeown, and P. O. Rosin: said MacMillan and said McKeown, to Controlled Heat & Air Ltd. Drying apparatus. 2,817,907, 12-31-57, Cl. 34-57.
- MacMullen, Clinton W., and A. Marzocchi, to Cowles Chemical Co. Aqueous cementitious composition containing an alkali metal silanol salt. 2,813,085, 11-12-57, Cl. 260-29.2.
- MacNair, Donald, to Bell Telephone Laboratories, Inc. Cathodes for electron discharge devices. 2,810,088, 10-15-57, Cl. 313-339.
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- MacNaughton, Lesley A. Flower pot attachment. 2,802,305, 8-13-57, Cl. 47-38.
- MacNeil, Charles S. J.: See—
Blanchard, Werner J., Haines, Martin, and MacNeil. 2,804,155.
- MacNeil, Elsie M.: See—
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- MacNeill, David G.: See—
Hahir, Ward H., and MacNeill. 2,795,315.
- MacNeill, John B., and F. E. Florschutz, to Westinghouse Electric Corp. Circuit interrupter. 2,792,477, 5-14-57, Cl. 200-150.
- MacNeill, John H.: See—
Bellinger, James E., Jr., and MacNeill. 2,815,843.
West, Charles F., De Turk, and MacNeill. 2,782,398.
- MacNichol, Edward F., Jr.: See—
Jones, William B., Jr., Gale, Gamertsfelder, and MacNichol. 2,812,483.
- MacNichol, Edward F., Jr., to United States of America as represented by the Secretary of the Navy. Electrical signal storage system. 2,783,465, 2-26-57, Cl. 343-7.7.
- MacNichol, Edward F., Jr. Control system for maintaining synchronism between remote electric motors. 2,791,737, 5-7-57, Cl. 318-310.
- MacNichol, Edward F., Jr., to the United States of America as represented by the Navy. Navigation control system. 2,803,415, 8-20-57, Cl. 244-77.
- Macomber, George B. H., Co.: See—
Solomon, Charles B. 2,817,422.
- Macomber, Leroy W. Method of and apparatus for weaving. 2,803,267, 8-20-57, Cl. 139-80.
- Macomber, Leroy W. Indicator for hand looms for weaving. 2,813,503, 11-19-57, Cl. 116-133.
- Macon, John L., J. T. Canupp, and R. C. Koonts. Pattern drum attachment for circular knitting machine. 2,813,410, 11-19-57, Cl. 66-156.
- Maconeghy, Milton, and E. F. Walts, to Sylvania Electric Products Inc. Article handling device. 2,792,810, 5-21-57, Cl. 118-503.
- Macovski, Albert: See—
Harris, Bernard, and Macovski. 2,799,784.
- MacPherson, Arthur R.: See—
Weston, David, and MacPherson. 2,803,346.
- MacPhie, Rodney P.: See—
Muller, Robert A., and MacPhie. 2,806,594.
- MacPhillamy, Harold B., to Ciba Pharmaceutical Products, Inc. Reserpone and process and intermediates for the preparation thereof. 2,808,410, 10-1-57, Cl. 260-286.
- MacPhillamy, Harold B., to Ciba Pharmaceutical Products, Inc. Process and intermediates for preparing rauwolfscine and derivatives. 2,809,199, 10-8-57, Cl. 260-286.
- MacPhillamy, Harold B., A. F. St. André, and C. F. Huebner, to Ciba Pharmaceutical Products, Inc. Reserpice acid lactone. 2,788,347, 4-9-57, Cl. 260-286.
- MacPhillamy, Harold B., and C. F. Huebner, to Ciba Pharmaceutical Products, Inc. Process of preparing reserpice acid esters. 2,786,844, 3-26-57, Cl. 260-287.
- MacQueen, Donald K., to Phillips Petroleum Co. Production of unsaturated hydrocarbons and reactor therefor. 2,813,138, 11-12-57, Cl. 260-673.
- Macri, Anthony: See—
Roth, Kenneth P. 2,803,471.
- Macrides, Philip C., and A. E. Wagar, to Cluett, Peabody & Co., Inc. Cuff attachment and method of making same. 2,785,411, 3-19-57, Cl. 2-124.
- MacWhirter, William B. Adjustable desk top. 2,778,706, 1-22-57, Cl. 312-316.
- MacWilliams, Fred F., to Flood City Brass & Electric Co. Automatic pumping system. 2,810,350, 10-22-57, Cl. 103-113.
- Macy, Charles F.: See—
Lewis, Jean L., and Macy. 2,788,333.
- Macy, James C., to AMP Inc. Electrical connector and method of its manufacture and use. 2,799,841, 7-16-57, Cl. 339-276.
- Macy, John M., C. M. Rodgers, and D. C. Gilmore, to South Bend Bait Co. Method and apparatus for making bonded fiber glass shafts. 2,778,404, 1-22-57, Cl. 154-1.7.
- Macy, John M., to South Bend Bait Co. Device for anchoring a fishing reel. 2,780,883, 2-12-57, Cl. 43-22.
- Macy, John M., to South Bend Tackle Co., Inc. Sectional fishing rod. 2,787,484, 4-2-57, Cl. 287-58.
- Macy, Rudolph, to the United States of America as represented by the Secretary of War, as trustee. Stabilization of mustard. 2,780,653, 2-5-57, Cl. 260-609.
- Macy, Valentine E., Jr.: See—
Haynes, Artemas J., and Allen. 2,780,937.
Haynes, Artemas J., and Allen. 2,786,196.
- Maczynski, Jerzy M., to Northern Industrial Products. Replaceable and retractable cartridge type ball point pen. 2,783,741, 3-5-57, Cl. 120-42.03.
- Madak, Paul D. Fluid safety check and cushioning device. 2,780,240, 2-5-57, Cl. 137-496.
- Madany, George H., 1/4 to S. D. Jarvis, and 1/4 to V. D. Jarvis. Fluid contacting apparatus. 2,779,537, 1-29-57, Cl. 233-15.
- Madden Brass Products Co.: See—
Lacart, Rollin H. 2,797,552.
- Madden, Charles L. Independent wheel mounting assembly for vehicles. 2,805,868, 9-10-57, Cl. 280-124.
- Madden, Dean E., to A. W. Cash Valve Mfg. Corp. Manual resettable temperature-pressure relief valve. 2,789,572, 4-23-57, Cl. 137-73.
- Madden, Frank J.: See—
Pircon, Ladislav J. 2,795,139.
Pircon, Ladislav J. 2,807,698.
- Madden, Harold V.: See—
Kneisley, Richard F., and Madden. 2,784,885.
- Madden, Homer W. Stacking apparatus. 2,782,578, 2-26-57, Cl. 53-61.
- Madden, Homer W. Flexible twist section for a conveying chute. 2,800,211, 7-23-57, Cl. 193-25.
- Madden, James J., and E. E. Sumner, to Bell Telephone Laboratories, Inc. Punch selector. 2,781,846, 2-19-57, Cl. 164-112.
- Madden, James P. Limit torque coupling. 2,789,420, 4-23-57, Cl. 64-30.
- Madden, John W.: See—
Dunlop, Andrew P., and Madden. 2,786,852.
- Madden, Joseph V., to Hughes Aircraft Co. Resin laminates and method of producing same. 2,810,674, 10-22-57, Cl. 154-140.
- Maddox, Marshall J., to R. I. Maddox. Articulated mop. 2,802,230, 8-13-57, Cl. 15-144.
- Maddox, Richard D., to Bolden Mfg. Co. Electrical cable. 2,814,666, 11-26-57, Cl. 174-113.
- Maddox, Richard I.: See—
Maddox, Marshall J. 2,802,230.
- Maddux, Duane C. Dispensing machine. 2,814,993, 12-3-57, Cl. 107-21.
- Madeira, John R.: See—
Bergmann, Ernst R., and Madeira. 2,808,145.

- Madeira, John R., R. F. Lo Presti, and R. F. Boersma, to Goodman Mfg. Co. Articulated conveyor. 2,803,758, 9-10-57, Cl. 198—82.
- Madeley, Paul E.: *See*—
Erath, Louis W., Madeley, and Hatchl. 2,776,560.
- Mader, Charles K., to The M. W. Kellogg Co. Coking system and method of coking. 2,780,586, 2-5-57, Cl. 196—55.
- Mader, Charles K., to The M. W. Kellogg Co. Method for the manufacture of synthesis gas. Re. 24,311, 5-7-57, Cl. 48—196.
- Mader, Lyle W., to Sperry Rand Corp. Magnetic core devices. 2,805,499, 9-3-57, Cl. 340—174.
- Mader, Stewart S.: *See*—
Silven, Herbert A., and Mader. 2,780,895.
- Madigan, Michael F.: *See*—
Cressell, Ian G. A., Madigan, and Copsey. 2,814,852.
- Madison, Edmund E., to General Motors Corp. Mirror support structure. 2,802,395, 8-13-57, Cl. 88—98.
- Madison, James B., to Conoflow Corp. Pneumatic control system. 2,800,771, 7-30-57, Cl. 60—97.
- Madison-Kipp Corp.: *See*—
Korsmo, Torbjorn C. Re. 24,343.
Korsmo, Torbjorn C. 2,800,798.
- Madison Mfg. Co.: *See*—
Vanderlinde, Clarence, and Morse. 2,799,091.
- Madland, Gabriel, to The Youngstown Steel Door Co. Freight car doorway reinforcement. 2,784,680, 3-12-57, Cl. 105—409.
- Madland, Gabriel, to The Youngstown Steel Door Co. Opening, closing and locking device. 2,788,995, 4-16-57, Cl. 292—283.
- Madland, Glen R.: *See*—
Backman, Kenneth E. H., and Madland. 2,799,001.
Weisz, William J., and Madland. 2,810,068.
- Madland, Thorvald, to The Youngstown Steel Door Co. Supporting means for laterally movable sliding doors. 2,816,317, 12-17-57, Cl. 16—105.
- Madow, Abraham, and H. S. Glasband. Wire reel dispensers. 2,793,821, 5-28-57, Cl. 242—118.8.
- Madsen, Andrew, to Transocean Air Lines. Aircraft external lighting system. 2,777,120, 1-8-57, Cl. 340—82.
- Madsen, Berthel F., to Teletype Corp. Severing device. 2,781,092, 2-12-57, Cl. 164—41.
- Madsen, Ethel M., Safety restraining post attachment for high chair. 2,784,775, 3-12-57, Cl. 155—189.
- Madsen, Royal G.: *See*—
Stickney, Michael E., Madsen, and Pugh. 2,777,354.
- Madsen, Walter M., Aggregate dryer. 2,815,940, 12-10-57, Cl. 259—3.
- Madunich, Anthony L., Motor vehicle steering mechanism. 2,799,180, 7-16-57, Cl. 74—501.
- Maelzer, Carl-August: *See*—
Wendeborn, Helmut, Schwartz, Maelzer, and Rausch. 2,797,158.
- Maer, Peter S.: *See*—
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- Maeser, Mieth, to United Shoe Machinery Corp. Machines for applying pressure to shoe bottoms. 2,789,293, 4-23-57, Cl. 12—33.
- Maeser, Mieth, and J. J. Brophy, to United Shoe Machinery Corp. Methods of and apparatus for conditioning the uppers of pulled-over shoes. 2,782,431, 2-26-57, Cl. 12—1.
- Maex, Nikolaus. Carpet fastener. 2,806,243, 9-17-57, Cl. 16—16.
- Maffezzoni, Umberto: *See*—
Marullo, Gerlando, Maffezzoni, and Agamennone. 2,796,426.
- Magalik, Alexander E., and G. J. Jacomini. Mechanical valve for an accordion reed. 2,782,671, 2-26-57, Cl. 84—360.
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- Magann, George C., Jr. Fluid volume and value indicating and controlling device for use with fluid dispensing pumps. 2,788,916, 4-16-57, Cl. 222—17.
- Magash, Julius V., and C. Messineo, to Becton, Dickinson and Co. Hypodermic syringe. 2,792,833, 5-21-57, Cl. 128—218.
- Magat, Eugene E., and D. R. Strachan, to E. I. du Pont de Nemours & Co. Condensation polymer filament. 2,798,283, 7-9-57, Cl. 28—82.
- Magearl, William H., to Esso Research and Engineering Co. Differential pressure apparatus with compensating device. 2,780,100, 2-5-57, Cl. 73—389.
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- Magee Carpet Co., The: *See*—
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- Magee, Joseph W., and I. W. Conrad. Shaker. 2,809,020, 10-8-57, Cl. 259—72.
- Mager, Abraham L.: *See*—
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- Magerlein, Barney J., and J. A. Hogg, to The Upjohn Co. Steroid production. 2,781,343, 2-12-57, Cl. 260—239.5.
- Magerlein, Barney J., A. V. McIntosh, Jr., and R. H. Levin, to The Upjohn Co. Steroid α -halo ketals. 2,719,585, 5-7-57, Cl. 260—239.55.
- Magers, Bernard D., to Sylvania Electric Products Inc. Cathode dampener. 2,802,132, 8-6-57, Cl. 313—261.
- Mages, Irving H., and C. E. Ives, to Mages Sporting Goods Co. Precision spherical surface gauge. 2,785,471, 3-19-57, Cl. 33—178.
- Mages Sporting Goods Co.: *See*—
Mages, Irving H., and Ives. 2,785,474.
- Magester, Earl H., to General Electric Co. Capillary adaptor. 2,776,550, 1-8-57, Cl. 62—126.
- Magester, Earl H., to General Electric Co. Cabinet construction. 2,808,309, 10-1-57, Cl. 312—257.
- Maggart, Joel F. Mobile pipeline spray apparatus. 2,796,292, 6-18-57, Cl. 299—47.
- Maggi, Ernesto: *See*—
Bosco, Giuseppe, and Maggi. 2,798,923.
- Mages, Arthur H., to The British Thomson-Houston Co. Ltd. Dynamo electric machines. 2,785,373, 3-12-57, Cl. 322—66.
- Mages, Arthur H., to The British Thomson-Houston Co. Ltd. Dynamo-electric machines. 2,796,580, 6-18-57, Cl. 322—49.
- Magic Chef, Inc.: *See*—
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- Magid, Sidney H. Flower pot and jacket for same. 2,810,235, 10-22-57, Cl. 47—38.
- Magidson, Herbert. Reinforcing means for brassieres. 2,782,417, 2-26-57, Cl. 2—42.
- Magielnicki, John S.: *See*—
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- Magill, Donald G., to American Can Co. Dual purpose pull strip. 2,795,366, 6-11-57, Cl. 229—51.
- Magill, Donald G., to American Can Co. Method of producing adhesively bonded seam. 2,799,610, 7-16-57, Cl. 154—116.
- Magill, Donald G., to American Can Co. Container with improved pull tab side seam. 2,814,428, 11-26-57, Cl. 229—51.
- Magill, Harry S., to Northrop Aircraft, Inc. Multi-purpose cable fitting. 2,777,696, 1-15-57, Cl. 273—105.3.
- Magill, Paul L. Glass containers for alcoholic beverages. 2,785,985, 3-19-57, Cl. 99—171.
- Maglio, Melvin R., Jr. Flying aircraft carrier. 2,780,422, 2-5-57, Cl. 244—2.
- Magna Driver Corp.: *See*—
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- Magnaflex Corp.: *See*—
Bock, Walter E. 2,811,267.
- Magnani, Alessandro, to F. L. Smith & Co. A/S. Apparatus for making reinforced fibrous cement sheets. 2,784,650, 3-12-57, Cl. 92—40.
- Magnat, Charles W., Jr. Clutch throw-out mechanism. 2,793,730, 5-28-57, Cl. 192—125.
- Magnavox Co., The: *See*—
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Moulin, Norbert L. 2,784,599.
Richardson, John E. 2,777,959.
Ruppel, Harold E. 2,796,025.
- Magne, Frank C., E. L. Skau, and R. R. Mod, to the United States of America as represented by the Secretary of Agriculture. Obtaining pure palmitic acid from vegetable oil acids. 2,791,596, 5-7-57, Cl. 260—419.
- Magnecord, Inc.: *See*—
Dunn, William L. 2,796,571.
- Magnesium Elektron Ltd.: *See*—
Emley, Edward F. 2,788,271.
Whitehead, Derek J., and Fetch. 2,788,272.
- Magness, Silas: *See*—
Manning, Oscar, and Magness. 2,797,941.
- Magnet Wire, Inc.: *See*—
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- Magnetthermic Corp.: *See*—
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- Magnetic Analysis Corp.: *See*—
Callan, Joseph M. 2,797,386.
- Magnetic Devices, Inc.: *See*—
Ward, Valley L. 2,795,658.
- Magnetic Heating Corp.: *See*—
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Rudd, Wallace C., and Stanton. 2,818,488.
- Magnetrol, Inc.: *See*—
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- Magnold (Bristol) Ltd.: *See*—
Tucker, Grahame E. R., Amsel, and Wright. 2,800,076.
- Magnuski, Henry: *See*—
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- Magnuski, Henry, and E. Dyke, to Motorola, Inc. Deviation calibrator. 2,803,802, 8-20-57, Cl. 332—20.
- Magnuski, Henry, and E. Dyke, to Motorola, Inc. Microwave system. 2,813,198, 11-12-57, Cl. 250—13.
- Magnuson, Genevieve I.: *See*—
Magnuson, Roy M., and Daugherty. 2,792,929.
- Magnuson, Roy M. Process of weight filling of containers. 2,781,993, 2-19-57, Cl. 249—18.
- Magnuson, Roy M., to Oregon Saw Chain Corp. Magnetic fastener positioning means for explosively actuated fastener driving tools. 2,790,174, 4-30-57, Cl. 1—44.5.
- Magnuson, Roy M., deceased, and R. K. Daugherty, said R. K. Daugherty to said R. M. Magnuson, G. I. Magnuson, executrix of said R. M. Magnuson. Shuffle feed structure. 2,792,929, 5-21-57, Cl. 198—218.
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- Magnuson, Thorwald A. Can opener. 2,799,922, 7-23-57, Cl. 30-6.1.
- Magondeaux, Leo, to F. Alexander. Passive radio communication system. 2,812,427, 11-5-57, Cl. 250-6.
- Magone, Koscoe. Swimming devices. 2,802,223, 8-13-57, Cl. 9-21.
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- Magovern, John N. Cap for collapsible tube. 2,812,122, 11-5-57, Cl. 222-558.
- Magrauth, Andrew G.: See—
Liljengren, Curtis P., and Magrauth. 2,799,321.
- Magri, Ralph J., Jr., G. C. Marcot, and W. J. Cauwenberg, to American Cyanamid Co. Annealed titanium-bearing slags of improved reactivity. 2,798,048, 7-2-57, Cl. 252-182.
- Maguerian, Garbis H., to Standard Oil Co. Mercaptan oxidation process. 2,792,334, 5-14-57, Cl. 196-29.
- Maguire, Felix H. Motion changing mechanism. 2,808,728, 10-8-57, Cl. 74-25.
- Maguire, J. J.: See—
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Friedman, Herbert. 2,813,981.
- Maguire, James B., and G. M. Pohlen, to Allied Chemical & Dye Corp. Terpene resin. 2,802,813, 8-13-57, Cl. 260-93.3.
- Magyar, Nikolaus W.: See—
Trimble, George S., Jr., Wentz, and Magyar. 2,814,453.
- Mahacek, Irvin W.: See—
Evans, Richard R., Mahacek, and McKinney. 2,780,361.
- Mahafie, Oscar B., to the United States of America as represented by the Secretary of the Army. Incendiary munition. 2,787,217, 4-2-57, Cl. 102-6.
- Mahaffy, Reid A., W. E. Young, and J. R. Harder, to Standard Packaging Corp. Container evacuating and sealing machine. 2,778,177, 1-22-57, Cl. 53-86.
- Mahaffy, Reid A., W. E. Young, and J. R. Harder, to Standard Packing Corp. Machine for evacuating and sealing containers. 2,808,690, 10-8-57, Cl. 53-86.
- Mahan, Frank T., deceased, by H. J. Mahan, administratrix, to R. B. Rice Sausage Co., Inc. Sausage patty forming machine. 2,799,044, 7-16-57, Cl. 17-32.
- Mahan, Helen J.: See—
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- Mahan, John E., to Phillips Petroleum Co. Reaction product of 3,4-dihalo-sulfolane with ammonia and process. 2,786,851, 3-26-57, Cl. 260-330.5.
- Mahan, John E., and S. D. Turk, to Phillips Petroleum Co. Process for production of paraldehyde. 2,779,767, 1-29-57, Cl. 260-340.
- Mahan, Marvin H.: See—
Hollyday, William C., Jr., and Mahan. 2,786,032.
- Mahan, Richard O., and R. M. Towill. Methods for making photo contour map. 2,811,445, 10-29-57, Cl. 96-43.
- Maher, Richard A.: See—
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- Maher, Richard A., to Arvo Mfg. Corp. Multiple-gun cathode-ray tube beam magnet assembly. 2,790,117, 4-23-57, Cl. 317-200.
- Maher, Robert V.: See—
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- Mahland, Robert W.: See—
Bishop, Ronald L., and Mahland. 2,810,291.
- Mahler, Joseph, to American Optical Co. Method of making an optical filter and resultant article. 2,816,047, 12-10-57, Cl. 117-33.3.
- Mahler, Peter A., to Fidelity Machine Co., Inc. Stitch cam for circular knitting machines. 2,809,507, 10-15-57, Cl. 66-40.
- Mahler, Peter A., and J. T. McKibbin, to Fidelity Machine Co., Inc. Electronic controls for circular knitting machines. 2,817,220, 12-24-57, Cl. 66-56.
- Mahlmeister, Raymond A., to The Sheffield Corp. Machine tool. 2,777,260, 1-15-57, Cl. 51-206.
- Mahlmeister, Raymond A., to Bendix Aviation Corp. Machine tool. 2,791,066, 5-7-57, Cl. 51-59.
- Mahns, Maurice W.: See—
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- Mahon, Henry I.: See—
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- Mahoney, Clarence L.: See—
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- Mahoney, Donald G., to General Motors Corp. Material handling apparatus. 2,781,952, 2-19-57, Cl. 222-168.
- Mahoney, James D.: See—
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- Mahoney, Joseph A., to Bell Telephone Laboratories, Inc. Telegraph transmission system. 2,802,050, 8-6-57, Cl. 178-59.
- Mahoney, Joseph L., to The Petersen Oven Co. Reel oven. 2,804,832, 3-3-57, Cl. 107-59.
- Mahoney, Robert J., to Barber-Colman Co. Winding machine. 2,804,274, 8-27-57, Cl. 242-35.6.
- Mahr, Jacob K. Filter condition indicator. 2,789,175, 4-16-57, Cl. 200-81.9.
- Mahrer, Richard A. Game board apparatus. 2,799,503, 7-16-57, Cl. 273-131.
- Mahrt Louis R.: See—
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- Maickel, Joseph A. Tamale making machine. 2,792,679, 5-21-57, Cl. 53-195.
- Maiden, Elmo E.: See—
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- Maiden Form Brassiere Co., Inc.: See—
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- Maier, Franz J., to the United States of America as represented by the Secretary of the Army. Colorimeter. 2,802,391, 8-13-57, Cl. 88-14.
- Maier, Howard A.: See—
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- Maier, Karl: See—
Schuster, Curt, Maier, Gehm, Eisele, and Frederkiel. 2,813,774.
- Maier, Karl W.: See—
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- Maier, Karl W., to the United States of America as represented by the Secretary of the Army. Recoil adapter. 2,791,945, 5-14-57, Cl. 89-198.
- Maier, William: See—
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- Maietta, Horace P., to Sterling Drug Inc. Fat-soluble vitamin compositions and preparation thereof. 2,796,380, 6-18-57, Cl. 167-81.
- Maillard, Bernard, to Co. "Brevets Aero-Mecaniques" S. A. Breechbolt lock for automatic firearms. 2,798,415, 7-9-57, Cl. 89-129.
- Maillard, Bernard, to "Brevets Aero-Mecaniques" S. A. Gun installation with structure pivotable with respect to line of fire. 2,814,234, 11-26-57, Cl. 89-41.
- Maillard, Jacques: See—
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- Mailsort Inc.: See—
Gleason, Frederick C. 2,812,179.
- Main, Benjamin A., Jr., to Aeroquip Corp. Flexible joint for rigid tubes. 2,793,883, 5-28-57, Cl. 285-229.
- Main, Benjamin A., Jr., to Aeroquip Corp. Method of applying hose fittings. 2,797,474, 7-2-57, Cl. 29-506.
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- Main, John A., to Kelsey-Hayes Co. Wheel brake. 2,791,296, 5-7-57, Cl. 188-78.
- Main, John A., and C. W. Sinclair, to Kelsey-Hayes Co. Wheel. 2,818,303, 12-31-57, Cl. 301-63.
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- Main, Ray F.: See—
Chester, Allan E., and Main. 2,799,635.
- Maina, Mario J., to General Motors Corp. Hydraulic brake assembly for road vehicles. 2,785,776, 3-19-57, Cl. 188-152.
- Mainardi, Marcus N.: See—
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- Mainhardt, Robert. Latch mechanism. 2,809,062, 10-8-57, Cl. 292-144.
- Mainhardt, Robert and M. J. Shears for cutting patterns and the like. 2,794,249, 6-4-57, Cl. 30-229.
- Mainieri, Anthony, to Woodco Corp. Sectional windows. 2,810,941, 10-29-57, Cl. 20-11.
- Mains, John H.: See—
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- Mains, William D., to Graham Mfg. Co., Inc. Barometric type steam vacuum refrigeration. 2,780,930, 2-12-57, Cl. 62-152.
- Maiocchi, Dario. Slitting press. 2,792,061, 5-14-57, Cl. 164-94.
- Mair, James, and G. E. Sanford, to Goslin-Birmingham Mfg. Co. Evaporating process and apparatus. 2,781,089, 2-12-57, Cl. 159-20.
- Maire, Georges, to Tavannes Watch Co., S. A. Self winding time-piece. 2,807,133, 9-24-57, Cl. 58-82.
- Maisch, Oliver. Funnel and thread guard. 2,791,148, 5-7-57, Cl. 86-31.
- Maisel, Daniel S., B. I. Smith, and H. W. Scheeline, to Esso Research and Engineering Co. Treatment of aromatic and unsaturated distillates. 2,778,863, 1-22-57, Cl. 260-674.
- Maisel, Daniel S., and W. M. Goryl, to Esso Research and Engineering Co. Furnace for activating coke. 2,782,105, 2-19-57, Cl. 23-277.
- Maisel, Emanuel N.: See—
Klein, Joseph J., and Maisel. 2,786,790.
- Maisel, Emanuel N., to Fiber Bond Corp. Air permeable fibrous batt. 2,784,132, 3-5-57, Cl. 154-54.
- Maiwurm, Paul S. Apparatus for securing a tube or tubes in a body member. 2,779,279, 1-29-57, Cl. 102-26.
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- Majauskas, Charles J. Ventilator for water closets. 2,778,033, 1-22-57, Cl. 4-213.
- Majer, Helmut. Conical bottle capsule. 2,808,168, 10-1-57, Cl. 215-38.
- Majeske, Henry L., to American Screen Products Co. Spring hinge. 2,781,543, 2-19-57, Cl. 16-180.
- Majeske, Henry L., and J. S. Alexander, to American Screen Products Co. Combination latch and vent arm for screens and storm sash. 2,790,662, 4-30-57, Cl. 292-68.

- Major, Seeley L., and R. E. Lippitt, $\frac{1}{2}$ to J. C. Holdgate. Hand truck. 2,800,336, 7-23-57, Cl. 280-47.11.
- Major, William A. Telescoping fishing rod with line guide. 2,808,676, 10-8-57, Cl. 43-23.
- Majors, Joe C. Aligning indicator for the hitch means on a trailer and towing vehicle. 2,815,732, 12-10-57, Cl. 116-28.
- Makara, Frank. Tire inflator. 2,786,333, 3-26-57, Cl. 62-1.
- Makarov, Vadim S., and A. E. Jackson. Compressors. 2,800,274, 7-23-57, Cl. 230-147.
- Makatag Machine Corp.: See—
- Helpard, Curtis S. 2,815,121.
- Makay, Nicolas. Recovery of oxalic and tartaric acid. 2,813,121, 11-12-57, Cl. 260-528.
- Makela, Armas G., C. P. McClelland, and J. H. Wernig, to General Motors Corp. Windshield wiper arm and blade assembly. 2,800,676, 7-30-57, Cl. 15-255.
- Makela, Hilda S. Sanitary pad. 2,815,027, 12-3-57, Cl. 128-290.
- Maki, Eino J., to Sterling Drug Inc. Diaphragm. 2,811,153, 10-29-57, Cl. 128-127.
- Makinson, Clifford, to Terry Machinery Co. Ltd. Log conveying. 2,778,692, 1-22-57, Cl. 302-14.
- Makinson, Clifford, to Terry Machinery Co. Ltd. Debarking method and apparatus involving alternate high and low-pressure zones. 2,799,308, 7-16-57, Cl. 144-309.
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- Makow, David M., to National Research Council. Multiple and fractional frequency generation. 2,806,952, 9-17-57, Cl. 250-36.
- Makowsky, Gabriel. Apparatus for ascertaining the required shape for corrective arch or foot supports. 2,795,953, 6-18-57, Cl. 73-172.
- Malabre, Lancelot C.: See—
- Smith, David B., Lewis, Malabre, Jukkola, and Heath. 2,799,558.
- Malachowski, Handry J., to Yankee Metal Products Corp. Mount for a rear view mirror. 2,791,939, 5-14-57, Cl. 88-98.
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- Malatesta, Vincent A.: See—
- Yerks, Richard W., and Malatesta. 2,791,311.
- Malavazos, Arthur J., to Friden Calculating Machine Co., Inc. Keyboard. 2,812,138, 11-5-57, Cl. 235-145.
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- Malchiodi, Celeste E.: See—
- Bonneau, Joseph C., and Malchiodi. 2,797,564.
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- Maximoff, Paul A. 2,814,802.
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- Narozny, Ronald S. 2,814,024.
- Malcolm Products: See—
- Bruce, Robert E. 2,795,124.
- Malcolm, Robert H., to International Harvester Co. Internal combustion engine lubricating means and viscous dampener. 2,780,212, 2-5-57, Cl. 123-195.
- Malcom, Robert Jr., to Chicago Eye Shield Co. Protective apparatus for workmen. 2,801,420, 8-6-57, Cl. 2-9.
- Male, Bessie M. Triple life fluorescent lamp. 2,784,336, 3-5-57, Cl. 313-243.
- Male, Herman A.: See—
- Carlsen, Leonard O., and Male. 2,782,689.
- Carlsen, Leonard O., and Male. 2,792,764.
- Carlsen, Leonard O., and Male. 2,812,136.
- Malecki, George J. Quick freezing of foods. 2,785,075, 3-12-57, Cl. 99-192.
- Maletzke, Arnold J.: See—
- Urban, Donald F., and Maletzke. 2,812,955.
- Malewicz, Leonard A.: See—
- Hartley, Lloyd S., and Malewicz. 2,878,028.
- Makfeld, Otto, to Ernst Leitz, G. m. b. H. Precision measuring rule. 2,804,687, 9-3-57, Cl. 33-1.
- Malherbe, Georges, to Ateliers de Constructions Electriques de Charleroi. Ultra-sonic wave transducers. 2,779,880, 1-29-57, Cl. 310-8.3.
- Malhot, Clarence J., to F. B. Redington Co. Article feeding device. 2,792,922, 5-21-57, Cl. 198-26.
- Mallick, Dell M.: See—
- Wilson, Woodrow S., Carabel, and Mallick. 2,793,795.
- Wilson, Woodrow S., Carabel, and Mallick. 2,800,259.
- Mallick, Dell M., and E. D. O'Brien, said O'Brien assor. to said Mallick. Closures. 2,805,800, 9-10-57, Cl. 222-519.
- Mallick, Franklin S., to Westinghouse Electric Corp. Magnetic amplifier control apparatus. 2,802,169, 8-6-57, Cl. 323-89.
- Mallick, Franklin S., and F. G. Timmel, to Westinghouse Electric Corp. Magnetic amplifiers. 2,795,652, 6-11-57, Cl. 179-171.
- Malin, Edgar L. Extension toilet seat. 2,790,182, 4-30-57, Cl. 4-237.
- Malin, Jay B., to The Texas Co. Engine generation of hydrogen and carbon monoxide. 2,781,253, 2-12-57, Cl. 48-196.
- Malkames, James P.: See—
- Walter, Homer E., Sadler, Malkames, and Mitchell. 2,796,351.
- Malke, Sven: See—
- Ewart, John C., and Malke. 2,780,271.
- Malkin Inc.: See—
- Malkin, Simon. 2,786,728.
- Malkin, Simon, to Malkin Inc. Display cabinet. 2,786,728, 3-26-57, Cl. 312-129.
- Malko, Stephen. Oil container and dispensing device. 2,799,434, 7-16-57, Cl. 222-211.
- Malkoff, Hyman, to Kramer Trenton Co. Water circulating pump for evaporative fluid cooling apparatus. 2,802,425, 8-18-57, Cl. 103-87.
- Malkoff, Hyman, and I. Kramer, to Kramer Trenton Co. Manifold construction for heat exchange systems. 2,791,107, 5-7-57, Cl. 62-129.
- Mall, Arthur W., to Mall Tool Co. Portable power tool drive mechanism. 2,815,834, 12-10-57, Cl. 192-3.5.
- Mall, Arthur W., C. A. Mattson, and W. Ziegler, to Mall Tool Co. Engine governor and clutch. 2,818,147, 12-31-57, Cl. 192-096.
- Mall Tool Co.: See—
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- Kos, Michael O. 2,809,718.
- Mall, Arthur W. 2,815,834.
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- Mallalieu, Frank R. Direct call secrecy intercommunication system. 2,804,504, 8-27-57, Cl. 179-38.
- Mallalieu, Frank R. Intercommunicating telephone equipment. 2,814,675, 11-26-57, Cl. 179-38.
- Mallard, James B. Material handling slings. 2,792,903, 5-28-57, Cl. 294-74.
- Mallard, Robert G., to Draper Corp. Shuttle threading block. 2,808,075, 10-1-57, Cl. 139-223.
- Mallet & Co., Inc.: See—
- Mallet, Louis D., and Maccary. 2,781,022.
- Mallet, Louis D., and R. R. Maccary, to Mallet & Co., Inc. Pan coating apparatus. 2,781,022, 2-12-57, Cl. 118-313.
- Malley, Joseph W., to S. D. Arrowood & Co., Inc. Method of packaging hosiery. 2,778,172, 1-22-57, Cl. 53-21.
- Mallina, Rudolph F., to Bell Telephone Laboratories, Inc. Motor control for contact adjusting machine. 2,797,377, 6-25-57, Cl. 318-286.
- Mallinckrodt, Charles O., to Bell Telephone Laboratories, Inc. Composite conductors. 2,796,463, 6-18-57, Cl. 178-45.
- Mallinckrodt Chemical Works: See—
- Henderson, Courtland M., Martin, and Gott. 2,805,145.
- Homeyer, August H., and De La Mater. 2,813,096.
- Mallinckrodt, Edward Jr., and Ruehle. 2,818,438.
- Ruhoff, John R., Martin, and Pollock. 2,816,815.
- Wallingford, Vernon H. 2,806,637.
- Wallingford, Vernon H., and Kruty. 2,786,055.
- Mallinckrodt, Edward Jr., and A. E. Ruehle, to Mallinckrodt Chemical Works. Ether preservation. 2,818,438, 12-31-57, Cl. 260-611.5.
- Mallinckrodt, George E. Piston-type machine. 2,796,216, 6-18-57, Cl. 230-144.
- Mallison, William C., to American Cyanamid Co. Continuous process for the polymerization of acrylonitrile. 2,777,832, 1-15-57, Cl. 260-80.5.
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- Mallory, Carl F., to Mallory Mfg. Co. Stove. 2,804,132, 8-27-57, Cl. 153-96.
- Mallory Mfg. Co.: See—
- Mallory, Carl F. 2,804,132.
- Mallory, Marion. Internal combustion engine. 2,785,663, 3-19-57, Cl. 123-30.
- Mallory, Marion. Supercharged gasoline engine. 2,789,547, 4-23-57, Cl. 123-75.
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- Mallory, P. R., & Co., Inc.: See—
- Aust, Robert J., Frey, Goetz, and Skillman. 2,787,713.
- Barnes, Robert E. 2,790,129.
- Barnes, Robert E. 2,796,578.
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- Brockway, Wilhelm W. 2,789,177.
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- Mallory-Sharon Titanium Corp.: See—
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- Malloy, Emmett J. Accessory impact mechanism for tractors. 2,805,847, 9-10-57, Cl. 262-15.
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- Malloy, Percy W., $\frac{1}{2}$ to W. M. Malloy. Apparatus for whipping cream and the like. 2,800,311, 7-23-57, Cl. 259-135.
- Malloy, William M.: See—
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- Malm, Anders E., to Aktiebolaget Kanthal. Furnace plates of refractory material. 2,805,582, 9-10-57, Cl. 266-43.
- Malm, Carl J., L. J. Tanghe, and L. W. Blanchard, Jr., to Eastman Kodak Co. Method of preparing isobutyric acid esters of cellulose. 2,790,794, 4-30-57, Cl. 260-227.
- Malm, Carl J., and L. W. Blanchard, Jr., to Eastman Kodak Co. Manufacture of cellulose isobutyrate. 2,801,238, 7-30-57, Cl. 260-229.
- Malm, Carl J., and L. J. Tanghe, to Eastman Kodak Co. Hydrolysis of cellulose isobutyrate. 2,801,240, 7-30-57, Cl. 260-230.
- Malm, Carl J., and L. W. Blanchard, Jr., to Eastman Kodak Co. Process of preparing isobutyric acid esters of cellulose. 2,801,999, 8-6-57, Cl. 260-227.
- Malm, Carl J., and L. W. Blanchard, Jr., to Eastman Kodak Co. Method of making butyric acid esters of cellulose. 2,816,104, 12-10-57, Cl. 260-227.
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- Malm, Carl J., and L. W. Blanchard, Jr., to Eastman Kodak Co. Hydrolysis of isobutyric acid esters of cellulose. 2,816,107, 12-10-57, Cl. 260-230.
- Malmgren, George V. Partition tray. 2,792,982, 5-21-57, Cl. 229-42.
- Malmgren, Harvey R., to Malmgren Implement Mfg. Co. Foldable drag harrow draw bar. 2,778,182, 1-22-57, Cl. 55-89.
- Malmgren Implement Mfg. Co.: See—
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- Malmros, Gustav V. A., and D. K. Rex, to The Jefferson Medical College of Philadelphia. Oxygenating unit for extracorporeal circulation devices. 2,792,002, 5-14-57, Cl. 128-214.
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Sanz, Manuel C., Malmstrom, Nuding, and Yockey. 2,817,605.
- Malnati, Cesare. Conveyor of transversely varying width. 2,801,727, 8-6-57, Cl. 198-34.
- Malone, Bert L.: See—
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- Malone, Cyril A., deceased (by L. Malone, executrix), W. France, and J. F. Whitfield, to Samuel Osborn & Co. Ltd. Lubricating means for a rolling mill. 2,782,662, 2-26-57, Cl. 80-1.
- Malone, Elroy J. Child's merry-go-round. 2,777,691, 1-15-57, Cl. 272-33.
- Malone, Erwin L., to Wall Wire Products Co. Method of and apparatus for assembling rod-like structural members. 2,778,174, 1-22-57, Cl. 53-35.
- Malone, Francis W. Freely laterally shiftable tractor hitch. 2,788,226, 4-9-57, Cl. 280-447.
- Malone, Grover C. and B. L. Cover for air conditioning unit. 2,780,982, 2-12-57, Cl. 98-94.
- Malone, Harold L., and C. G. Vroom, to Eastman Kodak Co. Photographic copying apparatus. 2,775,933, 1-1-57, Cl. 101-131.
- Malone, Laura: See—
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- Malone, Ralph A.: See—
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- Malone, Samuel L., and O. B. Curry. Distributor lifter. 2,817,143, 12-24-57, Cl. 29-261.
- Malone, Samuel L., and O. B. Curry. Pancake type flexible drive socket wrench. 2,817,256, 12-24-57, Cl. 81-57.
- Malone, Stephen P., and P. J. Long, Jr., to General Motors Corp. Shock absorber end mounting. 2,790,659, 4-30-57, Cl. 287-85.
- Maloney, Cornelius, to himself, as trustee. Internal combustion engine. 2,807,248, 9-24-57, Cl. 123-44.
- Maloney, Harry L.: See—
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- Maloney, Hugh T., to The United Gas Improvement Co. Method of making combustible gas. 2,813,012, 11-12-57, Cl. 48-196.
- Maloney, John W.: See—
Dames, Trent R., Moore, and Maloney. 2,799,552.
Vickers, Arthur E. J., and Maloney. 2,818,345.
- Maloney, Malcolm C., to Allis-Chalmers Mfg. Co. Adjusting mechanism for varying the opening of valves. 2,790,453, 4-30-57, Cl. 137-21.
- Maloney, Patrick W.: See—
Schwartz, Bernard, and Maloney. 2,799,814.
- Maloney, Robert A., to McGraw-Edison Co. Drive mechanism. 2,791,648, 5-7-57, Cl. 200-18.
- Maloney, Raymond T.: See—
Nicolaus, Frank G., and Hooker. 2,805,368.
- Malouf, Edward N. Handicapper. 2,794,597, 6-4-57, Cl. 233-89.
- Malouf, Arnold K. Fuel mixture vaporizer. 2,792,290, 5-14-57, Cl. 48-180.
- Malouf, Arnold K. Multiple element vaporizer and ball construction therefor. 2,792,291, 5-14-57, Cl. 48-180.
- Malouf, Emil E.: See—
Zimmerley, Stuart R., and Malouf. 2,809,092.
- Malsbary Mfg. Co.: See—
Malsbary, Walter F. 2,808,070.
Pritchard, Clarence L. 2,781,230.
- Malsbary, Walter F., to Malsbary Mfg. Co. Cushion dome. 2,808,070, 10-1-57, Cl. 138-26.
- Malsch, Friedrich, to International Standard Electric Corp. Tuning indicator valve. 2,802,128, 8-6-57, Cl. 313-107.5.
- Malta-Nielsen, Gerda. Knitting box. 2,781,180, 2-12-57, Cl. 242-146.
- Maltby, Frederick L.: See—
Jacobson, Abraham W., and Maltby. 2,810,106.
- Maltby, Truman W., and E. W. Pickett, to General Electric Co. Anode structure. 2,812,462, 11-5-57, Cl. 313-55.
- Maltenfort, Martin S., to The Fybradown Corp. Apparatus for producing feather fibres. 2,809,400, 10-15-57, Cl. 19-4.
- Malter, Louis, E. O. Johnson, and W. M. Webster, Jr., to Radio Corp. of America. Gas discharge device. 2,792,527, 5-14-57, Cl. 315-168.
- Malthaner, William A., to Bell Telephone Laboratories, Inc. Timing circuits. 2,782,256, 2-19-57, Cl. 179-7.1.
- Malthaner, William A., and H. E. Vaughan, to Bell Telephone Laboratories, Inc. Repetition telephone dialing by pulse code modulated carrier. 2,778,878, 1-22-57, Cl. 179-18.
- Maltner, Wolfgang. Cigarette lighters. 2,803,122, 8-20-57, Cl. 67-7.1.
- Malverdi, Alessandro. Automatic machine for levelling heel-seats of shoes. 2,813,283, 11-19-57, Cl. 12-53.4.
- Maly, Claude M. Retaining means for electrical plug and receptacle assemblies. 2,781,498, 2-12-57, Cl. 339-91.
- Maly, George P.: See—
Stegemeyer, Richard J., and Maly. 2,814,947.
- Maly, George P., to Union Oil Co. of California. Well plugging process. 2,786,530, 3-26-57, Cl. 166-10.
- Maly, George P., to Union Oil Co. of California. Selective plugging in oil wells. 2,799,341, 7-16-57, Cl. 166-25.
- Maly, George P., to Union Oil Co. of California. Increasing permeability of subterranean strata. 2,805,721, 9-10-57, Cl. 166-33.
- Maly, George P., and J. R. Brown, to Union Oil Co. of California. Well fluid sampling device. 2,781,663, 2-19-57, Cl. 73-151.
- Malyan, Cyril R.: See—
Mundv, Cecil W. A., and Malyan. 2,792,410.
- Mamiya, Seiichi. Camera range finder. 2,808,770, 10-8-57, Cl. 95-44.
- Mamlok, Karl H., and M. H. Schwarz, to Dresset Corp. Process and composition for setting hair on the human head. 2,793,980, 5-28-57, Cl. 167-87.1.
- Mammano, Benedetto: See—
Ciallié, Arturo, and Mammano. 2,783,686.
- Mammen, Howard E.: See—
Bloch, Herman S., and Mammen. 2,781,863.
Bloch, Herman S., and Mammen. 2,807,642.
- Mamo, Anthony. Boat trailer. 2,798,625, 7-9-57, Cl. 214-84.
- Mamon, Michel, 40% to G. A. Rubissow. Battery charger and circuit therefor. 2,802,165, 8-6-57, Cl. 320-40.
- Manahan, Dorothy: See—
Manahan, Joseph A. 2,777,646.
- Manahan, Joseph A., deceased; D. Manahan, administratrix. Expandible contractible hose reel. 2,777,646, 1-15-57, Cl. 242-86.
- Manalo, Pedro L. Infant carrying device—infant safety. 2,804,249, 8-27-57, Cl. 224-6.
- Manceau, Frank E. Potato elevator. 2,805,759, 9-10-57, Cl. 198-90.
- Mancera, Octavio: See—
Djerassi, Carl, Sondheimer, Mancera, and Rosenkranz. 2,802,840.
- Manchester, Clyde C. Float controlled valve. 2,778,377, 1-22-57, Cl. 137-448.
- Manchot, Willy, to Philadelphia Quartz Co. Crystallized alkali metasilicate hydrates. 2,795,485, 6-11-57, Cl. 23-110.
- Mancin, Giuseppe P. Heated seat. 2,798,142, 7-2-57, Cl. 219-20.
- Mancino, Frank: See—
Gontero, Adolph F. 2,800,892.
- Mancke, Edgar B., to Bethlehem Steel Co. Treatment of iron ores. 2,776,207, 1-1-57, Cl. 75-115.
- Mancke, Edgar B., to Bethlehem Steel Co. Process for treating manganese ore. 2,793,112, 5-21-57, Cl. 75-121.
- Mancke, Edgar B., and S. V. Fox, to Bethlehem Steel Co. Method of treating Mayari type iron ore. 2,809,105, 10-8-57, Cl. 75-1.
- Mancusi, Joseph J., Jr., to Hydra-Power Corp. By-pass valve means for hydraulic servo system. 2,778,339, 1-22-57, Cl. 121-38.
- Mancusi, Joseph J., Jr. Fishing lures. 2,794,287, 6-4-57, Cl. 43-42.02.
- Mancuso, A. P.: See—
Manning, Harold E. 2,787,845.

- Mancuso, Edward T.: *See*—
Manning, Harold E. 2,787,845.
- Mancuso, Joseph P., $\frac{1}{2}$ to J. E. Herche and $\frac{1}{2}$ to E. E. Collins. Rural mailbox indicator flag. 2,804,262, 8-27-57, Cl. 232-35.
- Manczur, Elias. Dental tray. 2,776,486, 1-8-57, Cl. 32-19.
- Mandel, Mark: *See*—
De Faymoreau, Etienne, and Mandel. 2,795,775.
- Mandel, Paul, to Societe Nouvelle de L'Outillage R. B. V. et de la Radio-Industrie (R. B. V.-R. I.). Electric signal wave-form converter. 2,791,687, 5-7-57, Cl. 250-27.
- Mandelkorn, Joseph, to the United States of America as represented by the Secretary of the Army. Transistor triggering circuit. 2,777,092, 1-8-57, Cl. 315-252.
- Mandeville, Charles E., and H. O. Albrecht, to the United States of America as represented by the Secretary of the Navy. Device for determining the intensity of nuclear radiation. 2,783,386, 2-26-57, Cl. 250-71.
- Mandex Mfg. Co.: *See*—
Biba, Edward A., Jr., and Cullerton. 2,802,193.
- Mandler, Walter, to Ernst Leitz G. m. b. H. Telescope objective systems. 2,817,270, 12-24-57, Cl. 88-57.
- Mandrel Industries, Inc.: *See*—
Cox, David C. 2,803,754.
Cox, David C. 2,803,756.
- Hoover, Michael C., and Vander Meer. 2,796,538.
- Volk, Joseph A. 2,818,479.
- Mandt, Ambrose H. Method of and apparatus for the continuous mining of mineral material by combined drilling, undercutting and shooting operations. 2,799,488, 7-16-57, Cl. 262-9.
- Mandt, Vernon G. Swing-type material moving machine. 2,790,568, 4-30-57, Cl. 214-132.
- Mandy, Robert R.: *See*—
Holmes, John R., Zwicker, and Mandy. 2,787,888.
- Mandycyk, James: *See*—
Protopapa, Seffi, Ela, and Mandycyk. 2,796,668.
- Mandzick, Michael, Jr. Detachable handle for flexible strips. 2,802,314, 8-13-57, Cl. 51-187.
- Manetti, Fred: *See*—
Manetti, Mario, and F. Manetti. 2,818,559.
- Manetti, Mario, and F. Removable closure for television cabinets. 2,818,559, 12-31-57, Cl. 340-367.
- Mangel, Fred B., to Lear, Inc. Rotary selector switch. 2,816,183, 12-10-57, Cl. 200-14.
- Manges, Abraham: *See*—
Hafekost, Frederick. 2,776,482.
- Mangis, Elmer F. Artificial stone cutter. 2,777,438, 1-15-57, Cl. 125-23.
- Mango, Joseph R., to Columbian Enameling & Stamping Co., Inc. Jug with collapsible leg structure. 2,804,989, 9-3-57, Cl. 220-69.
- Mangold, Francis L., and R. A. Tidball, to Mine Safety Appliances Co. Apparatus for maintaining low oxygen atmospheres in closed vessels. 2,811,221, 10-29-57, Cl. 183-41.
- Mangold, George B., J. A. Dyer, and J. T. Hart, to Petroleum Engineering Associates, Inc. Well completion with permeable concrete. 2,786,531, 3-26-57, Cl. 166-12.
- Mangold, George B., J. A. Dyer, and J. T. Hart, to Petroleum Engineering Associates, Inc. Permeable concrete. 2,793,957, 5-28-57, Cl. 106-86.
- Mangum, Harvey C., to United Merchants and Manufacturers, Inc. Large cloth take-up roll for looms. 2,811,176, 10-29-57, Cl. 139-308.
- Manhart, Charles E. Sea anchor. 2,818,042, 12-31-57, Cl. 114-209.
- Manhart, Charles E., and L. E. Castell. Seat-belts. 2,814,336, 11-26-57, Cl. 155-189.
- Manierre, George. Mobile conveyer machines. 2,793,731, 5-28-57, Cl. 198-2.
- Manierre, George. Car loader. 2,800,991, 7-30-57, Cl. 198-5.
- Manildi, Joseph F.: *See*—
Mounter, Carlyle A., Chrones, Manildi, and Shevell. 2,785,570.
- Maninger, Ralph C., to Vitro Corp. of America. Compound detector. 2,786,145, 3-19-57, Cl. 250-83.3.
- Manitowoc Shipbuilding Co.: *See*—
Catlin, Arthur W. 2,786,666.
- Manizsa, Guelfo A., to Continental Can Co., Inc. Box. 2,801,785, 8-6-57, Cl. 229-33.
- Manka, Dan P., to Jones & Laughlin Steel Corp. Phenol removal from phenol-contaminated waste waters. 2,808,375, 10-1-57, Cl. 210-21.
- Manka, Dan P., to Jones & Laughlin Steel Corp. Phenol removal from phenol-bearing waters. 2,812,305, 11-5-57, Cl. 210-21.
- Manke, George H., to McGraw Electric Co. Lightning arresters. 2,783,410, 2-26-57, Cl. 313-246.
- Manker, Alford D. Fork lift tow bracket. 2,809,759, 10-15-57, Cl. 214-620.
- Manker, Sanford: *See*—
Parrish, Albert D. 2,780,144.
- Manley, Fred A., to General Dynamics Corp. Sound dispersion device with internal divergent acoustical lens. 2,805,728, 9-10-57, Cl. 181-27.
- Manley, Inc.: *See*—
Waas, Samuel M. 2,777,599.
- Mann, Alfred E., to Technicolor Corp. Transmission of colored motion pictures. 2,776,335, 1-1-57, Cl. 178-5.4.
- Mann, Alfred K., E. P. Ney, and L. B. Snoddy, to the United States of America as represented by the Secretary of the Navy. Electro-hydraulic servo mechanism for control of roll, pitch and yaw of a guided missile. 2,781,743, 2-19-57, Cl. 121-41.
- Mann, August: *See*—
Walters, Gustav, and Mann. 2,803,288.
- Mann, Charles W.: *See*—
Minnich, Edward L., and Mann. 2,814,741.
- Mann, David J.: *See*—
Sloan, Arthur W., and Mann. 2,809,120.
Sloan, Arthur W., and Mann. 2,809,191.
Sloan, Arthur W., and Mann. 2,809,192.
- Mann, Emmett. Tool for removing roller assemblies of vehicle window regulators. 2,799,082, 7-16-57, Cl. 29-229.
- Mann, Estle R.: *See*—
Stone, Joseph J., Jr., Mann, and Bettis. 2,808,986.
- Mann, George W. Marine transmission. 2,796,770, 6-25-57, Cl. 74-202.
- Mann, Howard H.: *See*—
Mathews, Joseph A., Erickson, Welsh, and Mann. 2,788,400.
- Mathews, Joseph A., and Mann. 2,788,420.
- Mann, Howard H., N. B. Erickson, and J. A. Mathews, to Chicago Musical Instrument Co. Switch organization. 2,816,181, 12-10-57, Cl. 200-6.
- Mann, Julius W., and G. F. Russell. Radio circuit in which the vacuum tube fires for each alternate positive cycle of the grid swing. 2,777,022, 1-8-57, Cl. 200-36.
- Mann, Kingsley M., H. A. Drake, and D. E. Rayman, to The Upjohn Co. Recovery of hydrocortisone. 2,794,816, 6-4-57, Cl. 260-397.45.
- Mann, Leonard J.: *See*—
Murphy, John M., and Mann. 2,792,691.
- Mann, Leonard J., to General Motors Corp. Sheet metal nut with screw slot having frangible serrations. 2,797,720, 7-2-57, Cl. 151-41.75.
- Mann, Morley. Wrench having pivotable and relatively adjustable jaws. 2,800,045, 7-23-57, Cl. 81-91.
- Mann, Morley. Wrench having pivotal jaws selectively spring-biased to closed and open positions. 2,814,225, 11-26-57, Cl. 81-91.
- Mann, Theodore C., to Ekstrom-Carlson & Co. Machine tool with control means for traversing the tool thereof. 2,800,061, 7-23-57, Cl. 90-13.5.
- Mann, William L. Full bore deflection drilling. 2,796,234, 6-18-57, Cl. 255-1.6.
- Mannaloni, Righetto. Screw thread cutting lathe. 2,808,598, 10-8-57, Cl. 10-101.
- Mannal, Clifford: *See*—
Hurwitz, Henry, Jr., Brooks, Mannal, Payne, and Luebke. 2,799,642.
- Manne, Edward T.: *See*—
Morgan, Erving B., and Manne. 2,790,370.
- Morgan, Erving B., Manne, and Haberman. 2,815,065.
- Manne, Edward T., to American Seating Co. Bookrack for connected seating. 2,807,315, 9-24-57, Cl. 155-188.
- Manne, Moe. Improved expandable ring construction having links with attaching jaws. 2,806,363, 9-17-57, Cl. 63-15.45.
- Manners, Frank A.: *See*—
Schurr, Charles A., and Manners. 2,817,053.
- Mannesmann Aktiengesellschaft: *See*—
Debor, Hermann. 2,799,084.
- Frehn, Johann, and Nierlich. 2,811,194.
- Fuhrmann, Wilhelm. 2,789,333.
- Henrichs, Henk. 2,790,712.
- Speith, Karl G., Därmann, and vom Ende. 2,789,046.
- Mannett Enterprises, Inc.: *See*—
Barrett, La Vern H. 2,815,622.
- Manney, Charles J., L. W. Lerch, and H. F. Parker, to Columbus McKinnon Chain Corp. Electric hoist wiring and terminal means. 2,785,324, 3-12-57, Cl. 310-68.
- Mannheimer, David, to Sperry Rand Corp. Motor control system. 2,782,356, 2-19-57, Cl. 318-331.
- Mannheimer, Hans S. Certain salts of 2-hydrocarbon imidazolinium di-alkanoic acid salts of detergent sulfonic acids or sulfate acids. 2,781,349, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S. Cycloimidine derivatives and process for preparing same. 2,781,350, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S. Certain imidazoline alkanolic acid salts of certain detergent acids and process. 2,781,351, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and H. S. Mannheimer, as joint venturers. Imidazoline derivatives and process. 2,781,353, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and H. S. Mannheimer, as joint venturers. Imidazoline derivatives and process. 2,781,354, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and H. S. Mannheimer, as joint venturers. Imidazoline derivatives and process. 2,781,355, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and H. S. Mannheimer, as joint venturers. Imidazoline derivatives and process. 2,781,356, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and H. S. Mannheimer, as joint venturers. Imidazoline derivatives and process. 2,781,357, 2-12-57, Cl. 260-309.6.
- Mannheimer, Hans S. Detergent acid salts of certain imidazolinium compounds. 2,781,358, 2-12-57, Cl. 260-309.6.

- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,370, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,371, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,372, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,373, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,374, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,375, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and said Mannheimer. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,376, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,377, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S., to J. J. McCabe, Jr., and said Mannheimer. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,378, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,379, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,380, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,381, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,382, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,383, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,384, 2-12-57, Cl. 260-401.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,388, 2-12-57, Cl. 260-458.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,389, 2-12-57, Cl. 260-458.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,390, 2-12-57, Cl. 260-458.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,391, 2-12-57, Cl. 260-459.
- Mannheimer, Hans S. Detergent sulphonic acid and sulphate salts of certain amphoteric detergents. 2,781,392, 2-12-57, Cl. 260-459.
- Mannie, Jack: *See—*
- Manning, Harold E. 2,787,845.
- Manning, Clarence R., to International Business Machines Corp. Pin contact feed. 2,814,438, 11-26-57, Cl. 235-61.6.
- Manning, Ernest A., to Avro Aircraft Ltd. Hand actuated toggle. 2,800,346, 7-23-57, Cl. 292-113.
- Manning, Harold E., $2\frac{1}{2}\%$ each to C. E. Erickson, M. H. Minduri, N. Circosta, and S. E. Onorata, $1\frac{1}{4}\%$ to A. P. Mancuso, $1\frac{1}{4}\%$ to J. Mannie, and $\frac{1}{4}\%$ to E. T. Mancuso. Hauling machine. 2,787,845, 4-9-57, Cl. 37-117.5.
- Manning, Maxwell & Moore, Inc.: *See—*
- Beck, Rudolf, and Engelberger. 2,808,484.
- Burrows, Lewis M. 2,784,693.
- Ostermann, Hans J., Wilkens, and Bryan. Re. 24,267.
- Manning, Oscar, and S. Magness. Valve handle. 2,797,941, 7-2-57, Cl. 287-53.
- Manning, Ralph M., W. N. Kernander, J. W. Murray, and C. W. Camp, to General Electric Co. Time switch. 2,816,184, 12-10-57, Cl. 200-38.
- Manning, William O., Jr., to Holley Carburetor Co. Carburetor construction. 2,807,449, 9-24-57, Cl. 261-41.
- Manning, William R. D. High pressure pump. 2,779,294, 1-29-57, Cl. 103-158.
- Manning, William R. D., to Imperial Chemical Industries Ltd. High pressure pump. 2,779,295, 1-29-57, Cl. 103-158.
- Mannisto, Orville H., to Western Electric Co., Inc. Rockable work support means in a reciprocating bender. 2,812,001, 11-5-57, Cl. 153-25.
- Mannon, Lloyd. Rearview mirrors. 2,780,959, 2-12-57, Cl. 88-87.
- Manns, Thomas J.: *See—*
- Certa, Anthony J., and Manns. 2,818,374.
- Manos, Nicholas E. Vehicle safety bar for preventing pivoted seat back against folding. 2,818,274, 12-31-57, Cl. 280-150.
- Manosky, Dorothy E. Clothes hanger with added retaining means. 2,812,889, 11-12-57, Cl. 223-88.
- Man-Sew Corp.: *See—*
- Sigoda, Victor J. and J. 2,801,602.
- Mansfield, Donald E.: *See—*
- Cowle, Walter, Mansfield, Spiro, and Wood. 2,802,779.
- Mansfield, Lee. Cigarette holder. 2,779,340, 1-29-57, Cl. 131-175.
- Mansfield, Richard C.: *See—*
- Schmidle, Claude J., and Mansfield. 2,784,192.
- Schmidle, Claude J., and Mansfield. 2,807,613.
- Mansfield Sanitary Pottery, Inc.: *See—*
- Smith, Harry F. 2,791,235.
- Mansfield, Wilfred P., and L. Rosenfeld, to The British International Combustion Engine Research Association. Liquid fuel injection systems for internal combustion engines. 2,803,234, 8-20-57, Cl. 123-139.
- Mansfield, Wilfred P., C. H. Thornycroft and T. Priede, to The British Internal Combustion Engine Research Association. Delivery valves for fuel injection pumps. 2,804,825, 9-3-57, Cl. 103-41.
- Mansfield, William R., 40% to H. Knipper, Jr. and 20% to Cohen & Turtz. Internal combustion engine fuel intake device. 2,789,796, 4-23-57, Cl. 257-241.
- Mansoff, Arthur P. Plate and insulator for storage battery. 2,798,894, 7-9-57, Cl. 136-6.
- Mantell, Leon M. Vaporizer. 2,818,485, 12-31-57, Cl. 219-38.
- Mantell, Russell M.: *See—*
- Teeters, Wilber O., Mantell, and Passino. 2,786,874.
- Mantell, Russell M., and O. J. Plescia, to The M. W. Kellogg Co. Manufacture of hydrazine. 2,776,190, 1-1-57, Cl. 23-190.
- Mantell, Walter R.: *See—*
- Gibson, Marshall D. 2,788,591.
- Manteuffel, Allan A.: *See—*
- Chapman, Paul R., Manteuffel, and Wolfram. 2,809,935.
- Manthey, Edward: *See—*
- Martin, Charles G. 2,804,233.
- Manty, William A., and G. D. Poole, to Nestor Engineering Co. Motor control device. 2,810,778, 10-22-57, Cl. 178-4.1.
- Mantz, Harold A., to General Controls Co. Combination control device. 2,804,525, 8-27-57, Cl. 200-140.
- Mantz, Marius R.: *See—*
- Hugenholtz, Eduard H., and Mantz. 2,790,072.
- Mantzel, Albrecht-Wolf, to Rand-Goetze Corp. Vehicle wheel. 2,798,525, 7-9-57, Cl. 152-49.
- Manuel, Guy G., and A. Piziali, to Ford Motor Co. Handle assembly. 2,783,075, 2-26-57, Cl. 292-353.
- Manufacture Alsacienne de Broches: *See—*
- Raboisson, Joseph. 2,791,880.
- Manufacture de Machines du Haut-Rhin: *See—*
- Haug, Wilhelm. 2,795,666.
- Nagel, Hans-Joachim. 2,814,863.
- Manufacturers Process Co.: *See—*
- Jones, Harry H., and White. Re. 24,281.
- Manville, George D. Builders layout tape. 2,778,118, 1-22-57, Cl. 33-137.
- Man-Wel, Inc.: *See—*
- Wells, John W. 2,787,080.
- Manz, William K.: *See—*
- Garbarini, John J., Manz, and McCormick. 2,789,987.
- Manzatuik, David N., to E. E. Schlesinger. Tire carriers for trucks. 2,777,591, 1-15-57, Cl. 214-451.
- Manzelli, Manlio A., V. H. Young, Jr., and C. L. Harowitz, to Virginia-Carolina Chemical Corp. Methods for repelling rodents with an alkyl 2-furoate tetrachloride. 2,811,478, 10-29-57, Cl. 167-46.
- Manzelli, Thomas A.: *See—*
- Jordan, George V., Flack, and Manzelli. 2,812,762.
- Manzi, Anthony. Fish lure. 2,800,739, 7-30-57, Cl. 43-42.5.
- Mapes, Daniel, to Specialties Development Corp. Method of making cylindrical metallic containers for confining fluid medium under pressure. 2,776,475, 1-8-57, Cl. 29-543.
- Mapp, Alfred G.: *See—*
- Chilman, John A., Mapp, and Cripps. 2,791,700.
- Chilman, John A., Mapp, and Cripps. 2,791,701.
- Chilman, John A., Mapp, and Cripps. 2,793,302.
- Mappes, Alfred J., $\frac{1}{2}$ to R. J. Rigby. Receptacle handle. 2,785,826, 3-19-57, Cl. 220-96.
- Mappes, William L., and G. D. Hart, to Northeast Capital Corp. Directional signal switch. 2,781,429, 2-12-57, Cl. 200-61.37.
- Mapstone, Herbert W., to Crosman Seed Corp. Display rack. 2,792,126, 5-14-57, Cl. 211-2.
- Maquinas Agricolas "Romi" Limitada: *See—*
- Romi, Giordano. 2,778,237.
- Romi, Giordano. 2,810,306.
- Maracchini, Vincent. Method of shifting irrigating pipe. 2,789,009, 4-16-57, Cl. 299-47.
- Marancik, Joseph V., to Esso Research and Engineering Co. Liquid storage tanks. 2,814,406, 11-26-57, Cl. 220-1.
- Marano, Herbert W., to Wilson Jones Co. Automatic stop mechanism for staple making machine. 2,777,283, 1-15-57, Cl. 59-76.
- Marano, Herbert W., to Wilson Jones Co. Staple strip forming mechanism. 2,790,494, 4-30-57, Cl. 164-41.
- Marano, Herbert W., to Wilson Jones Co. Staple strip forming mechanism. 2,797,752, 7-2-57, Cl. 164-41.
- Marantz, Israel H., to Columbia Cable & Electric Corp. Art of spray coating of tubes. 2,794,448, 6-4-57, Cl. 138-68.
- Marantz, Israel H., to Columbia Cable & Electric Corp. Spray nozzle. 2,804,337, 8-27-57, Cl. 299-28.7.

- Marantz, Israel H., to Columbia Cable & Electric Corp. Spray nozzle. 2,813,750, 11-19-57, Cl. 299—28.7.
- Maras, Joseph, to Gregory Industries, Inc. Ferrule. 2,788,435, 4-9-57, Cl. 219—136.
- Marasco, Francis A., and E. S. Oxner, to the United States of America as represented by the Secretary of the Navy. Radar antenna floating power-divider. 2,803,817, 8-20-57, Cl. 343—5.
- Marasco, Harold E. Fluid-pressure sole press. 2,787,799, 4-9-57, Cl. 12—36.8.
- Marasco, Harold E. Sole pressing machine. 2,813,282, 11-19-57, Cl. 12—36.8.
- Marasso, Fred D., to Union Machinery Co. Conveyor loading mechanism. 2,806,579, 9-17-57, Cl. 198—31.
- Marathon Corp.: *See*—
- Benning, Richard F., and Baum. 2,801,900.
- Browning, William C. 2,800,449.
- Hovland, Howard N. 2,789,746.
- Jesty, Leslie C. 2,804,495.
- Kuchenbecker, Morris W. 2,798,656.
- Kuchenbecker, Morris W. 2,803,339.
- Massey, Theodore R. 2,802,569.
- Marathon Products, Inc.: *See*—
- Maroth, Arthur M. 2,780,998.
- Marbill Co.: *See*—
- Chew, Wilson W. 2,786,007.
- Marble, Chester B., to General Electric Co. Electric clock. 2,789,412, 4-23-57, Cl. 58—53.
- Marble Cliff Quarries Co., The: *See*—
- Kaufman, John S., and Lepley. 2,808,152.
- Marburg, Edgar, to United States Steel Corp. Sectional hot top. 2,782,478, 2-26-57, Cl. 22—147.
- Marbury, Ralph E., to Westinghouse Electric Corp. Protective device for series capacitors. 2,788,422, 4-9-57, Cl. 200—118.
- Marcellus, Ada. Vell. 2,804,628, 9-3-57, Cl. 2—207.
- Marcellus, James D., to Marcellus Mfg. Co. Floating reamer holder. 2,813,723, 11-19-57, Cl. 279—18.
- Marcellus, Manley C., T. Woodward, and J. Work, to Food Machinery and Chemical Corp. Pelletization of phosphate shale. 2,776,828, 1-8-57, Cl. 263—53.
- Marcellus Mfg. Co.: *See*—
- Marcellus, James D. 2,813,723.
- Marcerou, Paul, to "Sonapar" Societe de Participation, S. A. Rock cutting machine having slot cutting and slot engaging guide means. 2,780,452, 2-5-57, Cl. 262—9.
- Marcef, Guy C., and J. P. Wikswe, to American Cyanamid Co. Titanium dioxide pigments for baking enamels. 2,804,374, 8-27-57, Cl. 23—202.
- March, Delmar J. Anchor. 2,796,844, 6-25-57, Cl. 114—207.
- March, Joseph J. F. Electric toasting, buttering, warming and grilling appliance. 2,804,818, 9-3-57, Cl. 99—345.
- Marchal, Raymond H.: *See*—
- Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,493.
- Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,494.
- Kadosch, Marcel, Paris, Bertin, and Marchal. 2,812,636.
- Kadosch, Marcel, Paris, Bertin, and Marchal. 2,812,980.
- Marchal, Raymond H., F. M. L. Maunoury, H. Turinetti, M. Kadosch, and J. H. Bertin, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Thrust spoiler for propelling nozzles. 2,797,548, 7-2-57, Cl. 60—35.55.
- Marchand, John F. Electrolyzers. 2,816,862, 12-17-57, Cl. 204—301.
- Marchant, Albert G. Trepanning tool for cutting holes in sheet metal bodies or the like. 2,777,341, 1-15-57, Cl. 77—69.
- Marchant Research, Inc.: *See*—
- Hill, Charles M. 2,796,219.
- Marchant, Rodney H. Flushing system. 2,781,519, 2-19-57, Cl. 4—31.
- Marchese, Theodore J.: *See*—
- Bryant, John H., and Marchese. 2,788,465.
- Marchese, Theodore J., to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,800,605, 7-23-57, Cl. 315—3.5.
- Marchetti, Carlo, to Compagnie de Pont-A-Mousson. Differential transmission mechanism. 2,801,551, 8-6-57, Cl. 74—713.
- Marchionda, Tony F. Traction device. 2,808,094, 10-1-57, Cl. 152—226.
- Marchner, John A. Hair clipper. 2,802,263, 8-13-57, Cl. 30—201.
- Marclilly, Jean A. Wine-making plant. 2,813,026, 11-12-57, Cl. 99—35.
- Marcinek, Charles W.: *See*—
- Hickman, Albert F., Simons, and Marcinek. 2,783,822.
- Marcinkowski, Thaddeus W. Luggage. 2,814,369, 11-26-57, Cl. 190—5.
- Marcmann, Emil G., to Red Devil Tools. Knife having different blade positions. 2,788,574, 4-16-57, Cl. 30—320.
- Marco Co., Inc.: *See*—
- Marco, John. 2,795,207.
- Marco Industries Co.: *See*—
- Harrington, Frank A., and Bowles. 2,778,930.
- Harrington, Frank A., and Jentges. 2,816,995.
- Marco, John, to Marco Co., Inc. Apparatus for coating fabrics. 2,795,207, 6-11-57, Cl. 118—44.
- Markoff-Moghadam, Leon, now by change of name to Leo Markoff-Moghadam. Thread feeding and clamping device. 2,806,659, 9-17-57, Cl. 242—125.3.
- Markoff-Moghadam, Leon, now by change of name to Leo Markoff-Moghadam. Thread feeding and clamping device. 2,806,660, 9-17-57, Cl. 242—125.3.
- Marcolongo, Samuel P. Hose guide for automobiles. 2,814,460, 11-28-57, Cl. 254—190.
- Marconi, Hugo. Buoy. 2,790,187, 4-30-57, Cl. 9—8.
- Marconi's Wireless Telegraph Co. Ltd.: *See*—
- Clarke, Clifford. 2,788,444.
- Clough, Newsome H. 2,787,788.
- Collar, Charles G. 2,818,530.
- Cressell, Ian G. A. Madigan, and Copsey. 2,814,852.
- Jesty, Leslie C. 2,802,964.
- Keall, Oswald E. 2,813,974.
- Kingston, Arthur W. 2,802,392.
- Leug, Geoffrey. 2,788,468.
- Proce, Thomas H. 2,786,903.
- Ramsay, John F., and Wells. 2,788,440.
- Sosin, Boleslaw M. 2,779,000.
- Starks-Field, Alfred B., and Ward. 2,799,800.
- Tate, Clifford E., and Boyle. 2,798,150.
- Wright, William L. 2,790,905.
- Marcot, Guy C.: *See*—
- Magri, Ralph J., Jr., Marcot, and Cauwenberg. 2,798,048.
- Myers, Myron L., and Marcot. 2,800,391.
- Marcoux, Arthur: *See*—
- Gunther, Joseph R., and Marcoux. 2,783,363.
- Marcoux, Arthur, to Douglas Aircraft Co., Inc. Portable punching tool. 2,782,855, 2-26-57, Cl. 164—94.
- Marcus, Ben E., $\frac{1}{2}$ to C. Hayes and $\frac{1}{2}$ to M. Hayes. Automobile air cooling device. 2,802,347, 8-13-57, Cl. 62—133.
- Marcus, Benjamin. Folding screen for hospital bed. 2,806,526, 9-17-57, Cl. 160—135.
- Marcus, Hyman, to the United States of America as represented by the Secretary of the Air Force. Treatment of ammonia-contaminated air. 2,801,898, 8-6-57, Cl. 23—4.
- Marcus, Jerome R., to Western Electric Co., Inc. Condenser winding machine. 2,797,879, 7-2-57, Cl. 242—56.1.
- Marcus, Jerome R., and F. Radakovich, to Western Electric Co., Inc. Grinding apparatus. 2,788,620, 4-16-57, Cl. 51—131.
- Marcuse, Moses M., to West Disinfecting Co. Sheet dispensing unit. 2,809,082, 10-8-57, Cl. 312—39.
- Marcuson, Paul E. Coin control mechanism for vending machines. 2,806,573, 9-17-57, Cl. 194—75.
- Marcusson, S., Transportvagnfabrik A. B.: *See*—
- Marcusson, Sven E. 2,783,905.
- Marcusson, Sven E., to S. Marcussons Transportvagnfabrik A. B. Hand truck. 2,780,375, 2-5-57, Cl. 214—383.
- Marcusson, Sven E., to S. Marcussons Transportvagnfabrik A. B. Hand truck. 2,783,905, 3-5-57, Cl. 214—350.
- Marcussons, S., Transportvagnfabrik A. B.: *See*—
- Marcusson, Sven E. 2,780,375.
- Marcy, Henry T., and R. J. Pyffe, to The M. W. Kellogg Co. System for supplying motive fuel at controlled temperature to a gas turbine. 2,784,550, 3-12-57, Cl. 60—35.6.
- Marzincin, John A., to The Black-Clawson Co. Web winding machine. 2,787,427, 4-2-57, Cl. 242—56.
- Marden, Carleton S., to National Products Corp. Apparatus for assembling sheathed cable connectors. 2,786,263, 3-26-57, Cl. 29—206.
- Marden, John W.: *See*—
- Cuthbert, Stuart V., and Marden. 2,793,116.
- Marden, Norman D., and R. B. McLaughlin. Bullet trap. 2,812,660, 11-12-57, Cl. 73—167.
- Marden, William G. Apparatus for semen collection. 2,808,834, 10-8-57, Cl. 128—419.
- Mardock, Edwin S., to Well Surveys, Inc. Process for making a well log with radioactive tracers. 2,810,076, 10-15-57, Cl. 250—43.5.
- Mareis, Hans: *See*—
- Brems, John H., and Mareis. 2,810,817.
- Marek, Jan I., $\frac{1}{2}$ to A. Jordahl. Filters and filter material for use in filtering tobacco smoke. 2,792,006, 5-14-57, Cl. 131—10.
- Marelle, René. Liquid containers for dropping by aircraft. 2,788,821, 4-16-57, Cl. 150—1.
- Marenius, William J.: *See*—
- Beckett, John S., and Marenius. 2,782,749.
- Marfarlan, J. F., & Co. Ltd.: *See*—
- Stern, Edward S., and Anderson. 2,795,581.
- Marforio, Nerino, to S. p. A. Virginio Rimoldi & C. Looper control for sewing machines. 2,811,940, 11-5-57, Cl. 112—192.
- Marforio, Nerino, G. Biffi, and L. Burlone, to S. p. A., Virginio Rimoldi & C. Needle operating device. 2,799,236, 7-16-57, Cl. 112—221.
- Margles, Samuel G., to Otis Elevator Co. Moving stairways. 2,813,613, 11-19-57, Cl. 198—16.
- Margold, Leo: *See*—
- Auslander, William, and Margold. 2,804,523.
- Margolin, Myron C.: *See*—
- Jackson, Samuel R., and Margolin. 2,817,750.
- Margon Corp.: *See*—
- Bashover, Albert. 2,788,610.
- Samo, Harvey W., and Bashover. 2,777,250.
- Margot, Alfred: *See*—
- Gysin, Hans, and Margot. 2,779,788.
- Gysin, Hans, and Margot. 2,779,941.
- Margot, Alfred, and H. Gysin, to J. R. Geigy A.-G. Benztriazole derivatives. 2,806,035, 9-10-57, Cl. 260—308.

- Margot, Alfred, and H. Gysin, to J. R. Geigy A.-G. Thiourea derivatives. 2,813,902, 11-19-57, Cl. 260-556.
- Margrave, Wilton, to The Parker Appliance Co. Sealing assembly for valves. 2,799,470, 7-16-57, Cl. 251-172.
- Margulies, Philip. Portable gymnastic device. 2,817,522, 12-24-57, Cl. 272-58.
- Margulis, Joseph M., 10% to Mrs. F. Schwartz. Hanger. 2,809,001, 10-8-57, Cl. 248-29.
- Margulis, Waldo: *See*—
Howard, Wellington R., and Margulis. 2,779,241.
- Marian, Daniel: *See*—
Ramon, Michael, and Marian. 2,788,224.
- Mariani, Frank N. Tank cap. 2,801,767, 8-6-57, Cl. 220-86.
- Marich, Frederick. Rotating cutting reel for lawn mower. 2,790,294, 4-30-57, Cl. 50-294.
- Marich, Matt: *See*—
Phelan, James E., Marich, and Larson. 2,803,223.
- Marien, Clement S., to Swank, Inc. Key holder. 2,791,899, 5-14-57, Cl. 70-459.
- Marien, Clement S., to Swank, Inc. Cuff link. 2,799,069, 7-16-57, Cl. 24-102.
- Marien, Melvin W., to Ramsey Corp. Piston ring. 2,817,563, 12-24-57, Cl. 309-25.
- Marien, Melvin W., to Ramsey Corp. Piston ring. 2,817,564, 12-24-57, Cl. 309-29.
- Marienberg Mosaikplattenfabrik A. G.: *See*—
Engel, Manfred. 2,817,929.
- Marietta, Michael T. Athlete's headgear. 2,777,127, 1-15-57, Cl. 2-3.
- Marin, Joseph M. Upper and lower garments and supporter elements for them. 2,801,421, 8-6-57, Cl. 2-70.
- Marindin, Frederick R., to Doran Brothers, Inc. Bat forming apparatus. 2,777,170, 1-15-57, Cl. 19-148.
- Marindin, Frederick R., to Doran Brothers, Inc. Hat finishing machine. 2,811,290, 10-29-57, Cl. 223-20.
- Marine Tract Co. of Buffalo, The: *See*—
Scinta, Anthony C., and Rappl. 2,780,824.
- Marinelli, Leonidas D.: *See*—
Berlman, Isadore B., and Marinelli. 2,795,703.
- Marini, Thomas O., and P. J. Thompson. Hot air diffuser or distributor of the type known as a hot air mopboard or baseboard. 2,814,242, 11-26-57, Cl. 98-40.
- Marino, Anthony: *See*—
Blockert, Ernest B., and Marino. 2,777,423.
- Marino, Anthony J., Jr., to International Telephone and Telegraph Corp. Zone refining boat. 2,776,131, 1-15-57, Cl. 263-47.
- Marino, Antonino. Extensible buffet. 2,790,695, 4-30-57, Cl. 312-317.
- Marino, Robert L. Adjustable height load bed for vehicles. 2,776,146, 1-15-57, Cl. 280-44.
- Marino, Severino F. Combined record jacket and display device. 2,809,858, 10-15-57, Cl. 287-108.
- Marino, Vincent. Detachable top lift. 2,798,313, 7-9-57, Cl. 36-42.
- Marion, Charles P.: *See*—
Strasser, Dale M., Guptill, and Marion. 2,809,104.
- Marion, Thomas E., to Pioneer Specialty Co. Extensible antenna. 2,795,304, 6-11-57, Cl. 189-26.
- Marion, William F., Jr. Telescopic portable stoves. 2,798,476, Cl. 126-9.
- Marion, William W. Lacing needle. 2,786,619, 3-26-57, Cl. 223-102.
- Marisic, Milton M.: *See*—
Hutchings, Le Roi E., and Marisic. 2,776,246.
- Marisic, Milton M., and L. E. Hutchings, to The Pure Oil Co. Production of graphite. 2,780,527, 2-5-57, Cl. 23-209.1.
- Marison Co., The: *See*—
Hill, Robert H. 2,805,054.
- Maritz, Werner. Dispenser. 2,791,354, 5-7-57, Cl. 222-389.
- Marjo Technical Products Co.: *See*—
Doresjak, Charles. 2,778,017.
- Mark, Albert. Furnace for producing single crystals for transistors. 2,789,153, 4-16-57, Cl. 13-31.
- Mark, Arthur M.: *See*—
Chirtel, Joseph S., Mark, and Brelant. 2,786,045.
- Mark, Arthur M., to Tee-Pak, Inc. Coated food product and method of producing same. 2,812,259, 11-5-57, Cl. 99-169.
- Mark, Reginald. Fence wire holder. 2,814,669, 11-26-57, Cl. 174-170.
- Mark, Victor, to Universal Oil Products Co. Substituted epoxy and epithia dimethanonaphthalenes. 2,793,975, 5-28-57, Cl. 187-33.
- Mark, Victor, to Universal Oil Products Co. 1,2,3,4,9,9-hexachloro-1,4,4a,5,6,7,8,8a-octahydro-5-alkoxy-1,4-methanonaphthalenes and use thereof in controlling pestionologically active organisms. 2,799,614, 7-16-57, Cl. 167-30.
- Mark, Victor, to Universal Oil Products Co. Polyoxyalkylene substituted heterocyclic amines and their ammonium salt derivatives. 2,800,487, 7-23-57, Cl. 260-319.
- Markant, Henry P.: *See*—
Rogers, Charles E., and Markant. 2,812,212.
- Markarian, Moushy: *See*—
Ross, Sidney D., and Markarian. 2,799,694.
- Markel Electric Products, Inc.: *See*—
Schweitzer, Erich. 2,786,685.
Schweitzer, Erich. 2,790,644.
- Markert, Ferdinand, and E. Kittel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of gas. 2,792,293, 5-14-57, Cl. 48-204.
- Market Forge Co.: *See*—
Binding, Kenneth W. 2,782,972.
Binding, Kenneth W., and Shaw. 2,810,811.
- Markey, Frank J., to Askania Regulator Co. Web edge position detector. 2,794,444, 6-4-57, Cl. 137-83.
- Markey, Frank J., to Askania Regulator Co. Purged web edge detector. 2,813,535, 11-19-57, Cl. 137-83.
- Markey, John W., to United Shoe Machinery Corp. Machines for installing tubular fasteners in angular relation. 2,785,819, 3-19-57, Cl. 218-05.
- Markham, Charles E., to Missouri Automatic Control Corp. Electrothermal control actuator. 2,787,118, 4-2-57, Cl. 60-23.
- Markham, E. L., Jr.: *See*—
Klein, Orlando F., and C. C. 2,815,650.
- Markham, Floyd S.: *See*—
Bird, John C., and Markham. 2,798,836.
- Markham, Floyd S., and H. R. Cox, to American Cyanamid Co. Newcastle disease and infectious bronchitis vaccines and production thereof. 2,798,835, 7-9-57, Cl. 167-78.
- Markl, Arthur R. C. to National Cylinder Gas Co. Method of manufacturing branched fittings. 2,787,030, 4-2-57, Cl. 29-157.
- Marklew, Cecil K., to Alfred Herbert Ltd. Moulding machine adapted for plasticising a thermo-plastic material or a thermo-setting material which is subsequently to be moulded. 2,802,084, 8-6-57, Cl. 219-105.1.
- Markley, George E. Slot furnace. 2,800,318, 7-23-57, Cl. 263-9.
- Markley, George E. Air gas mixer. 2,808,879, 10-8-57, Cl. 158-118.
- Markley, Harland T.: *See*—
Moore, Raymond L., Markley, and Baker. 2,804,367.
- Markley, Olin V. Gate closer. 2,777,153, 1-15-57, Cl. 16-65.
- Markoff-Moghadam, Leo: *See*—
Marcoff-Moghadam, Leon. 2,806,659.
Marcoff-Moghadam, Leon. 2,806,660.
Moghadam, Leon M. 2,809,411.
- Markoff-Moghadam, Leo. Thread feeding and clamping device. 2,806,661, 9-17-57, Cl. 242-125.3.
- Markoski, John A.: *See*—
Crosby, Gilmire E., and Markoski. 2,802,753.
- Markow, George R., to Bailey Meter Co. Reversing magnetic amplifier control system. 2,792,541, 5-14-57, Cl. 318-28.
- Markowitz, Albert A. Combination cabinet, including cooking, serving, dining and storage facilities. 2,812,415, 11-5-57, Cl. 219-35.
- Marks, Alvin M. Three-dimensional display system. 2,777,011, 1-8-57, Cl. 178-6.5.
- Marks, Alvin M., to Marks Polarized Corp. Light polarizing illuminating device. 2,810,324, 10-22-57, Cl. 88-65.
- Marks, Henry C.: *See*—
Sprules, Francis J., and Marks. 2,802,800.
- Marks, Henry C., and G. U. Glasgow, to Wallace & Tiernan Inc. Germicidal compositions comprising slowly reactive N-chloro compounds and an iodide. 2,817,621, 12-24-57, Cl. 167-17.
- Marks, Lawrence P.: *See*—
Roden, Philip, and Marks. 2,804,978.
- Marks, Lewis, and A. M. Stern, to Polymer Industries Inc. Adhesives and method of applying to silicone-treated surfaces. 2,782,949, 2-26-57, Cl. 216-62.
- Marks, Meyer: *See*—
Adler, Robert and Marks. 2,814,671.
- Marks, Meyer, and R. Adler, to Zenith Radio Corp. Cascode amplifier-mixer with trap to prevent local oscillator in driven stage from affecting driving stage. 2,789,213, 4-16-57, Cl. 250-20.
- Marks, Monte L., to Consolidated Electrodynamics Corp. Speed control for electric motor. 2,798,998, 7-9-57, Cl. 318-318.
- Marks, Paul J.: *See*—
Goodman, Robert B. 2,804,397.
- Marks Polarized Corp.: *See*—
Marks, Alvin M. 2,810,324.
- Marks, Robert J. Spectacle case. 2,784,837, 3-12-57, Cl. 206-5.
- Marks, Saul H., to Phoenix Closet Accessories, Inc. Device for protecting and hanging trousers. 2,805,767, 9-10-57, Cl. 206-7.
- Marks, Spence T.: *See*—
Fitzgerald, James W., and Marks. 2,799,788.
- Markstrum, John A., to Thompson Products, Inc. Apparatus of making spirally grooved ball type bearing members. 2,808,764, 10-8-57, Cl. 90-11.5.
- Markus, Eugene, to Bendix Aviation Corp. Supporting device for friction facing. 2,806,570, 9-17-57, Cl. 192-107.
- Markus, Richard L., to White Laboratories, Inc. Batchwise copolymerization technique. 2,810,716, 10-22-57, Cl. 260-88.1.
- Marlboro Shirt Co., Inc.: *See*—
Schmitt, Frank. 2,784,412.
- Marler, Don P., to Royal Bond, Inc. Arm holding means for embalming bodies preparatory to burial. 2,793,417, 5-28-57, Cl. 27-21.

- Marley Co., The: *See*—
 Fordyce, Homer E. 2,776,121.
 Fordyce, Homer E. 2,814,435.
 Mart, Leon T., and Allgeyer. 2,802,548.
- Marloc Enterprises Ltd.: *See*—
 Lojczyk, John. 2,814,226.
- Marlow, Leonard E.: *See*—
 Spiro, Irving J., and Marlow. 2,777,940.
- Marmont, George H., to McCulloch Motors Corp. Illumination control device and system. 2,814,000, 11-19-57, Cl. 315-83.
- Marmyte Co.: *See*—
 Vitkin, Theodore L. 2,801,773.
- Marnier, Gene R., and R. L. McCreary, to Collins Radio Co. Linear accelerator. 2,802,965, 8-13-57, Cl. 315-5,16.
- Marocchi, Stefano. Compressed gas gun. 2,811,150, 10-29-57, Cl. 12-11.
- Marogg, Richard, to Peter J. Schweitzer, Inc. Apparatus for perforating paper. 2,801,501, 8-6-57, Cl. 51-137.
- Maroney, Robert M., $\frac{1}{2}$ to T. B. Sheehee. Hydraulic control valve. 2,799,471, 7-16-57, Cl. 251-342.
- Maroth, Arthur M., to Marathon Products, Inc. Indicating gauge responsive to circular or angular velocity. 2,780,098, 2-5-57, Cl. 73-380.
- Maroth, Arthur M. Electrical clinometer. 2,789,362, 4-23-57, Cl. 33-206.
- Marotto, Robert A.: *See*—
 Schlage, Ernest L., and Marotto. 2,804,334.
- Marple, Rollo, to Hancock Mfg. Co. Rotary type door lock. 2,791,458, 5-7-57, Cl. 292-280.
- Marple, Rollo, to Hancock Mfg. Co. Latching mechanism. 2,803,955, 8-27-57, Cl. 70-135.
- Marquardt Aircraft Co.: *See*—
 Drake, John A. Re. 2,410.
 Long, Henry A., Taylor, and Wise. 2,813,672.
 Nelson, Dwight D. 2,815,188.
- Marquez, Charles L., Jr.: *See*—
 Sprague, Theodore S., and Marquez. 2,815,007.
- Marraffino, Leonard L. Stripping dispenser. 2,789,731, 4-23-57, Cl. 222-129.
- Marrapese, Marius W., to The Patent Button Co. of Tennessee, Inc. Appliance knobs. 2,797,591, 7-2-57, Cl. 74-528.
- Marrapese, Marius W., to The Patent Button Co. of Tennessee, Inc. Appliance knobs. 2,797,592, 7-2-57, Cl. 74-543.
- Marriott, Ronald J., and J. F. Coyne, to Kecla Electric Proprietary Ltd. Automatic cut-off devices particularly for electric smoothing irons. 2,790,047, 4-23-57, Cl. 200-138.
- Marrison, Warren A., to Bell Telephone Laboratories, Inc. High precision frequency standards. 2,782,313, 2-19-57, Cl. 250-36.
- Marron, Thomas U., to A. B. Dick Co. Planographic printing plates and methods for manufacturing same. 2,800,077, 7-23-57, Cl. 101-149.2.
- Marron, Thomas U., and K. S. Hoover, to A. B. Dick Co. Cushion sheet for stencil sheet assemblies. 2,780,991, 2-12-57, Cl. 101-128.2.
- Marron, Thomas U., and J. L. Diedrich, to A. B. Dick Co. Lithographic plate and method of manufacturing same. 2,804,388, 8-27-57, Cl. 96-33.
- Marrosu, Antonio M., and L. Achenza. Vehicle signal. 2,810,121, 10-15-57, Cl. 340-142.
- Marrs, Clyde E., to Sylvania Electric Products Inc. Cathode spray rack to eliminate coating taper. 2,786,444, 3-26-57, Cl. 118-503.
- Marsak, Bernard. Vanity kit. 2,796,070, 6-18-57, Cl. 132-85.
- Marsal, Paul A., to Union Carbide Corp. Deferred action galvanic cell. 2,814,662, 11-26-57, Cl. 136-113.
- Marsal, Paul A., to Union Carbide Corp. Air-depolarized cells. 2,816,152, 12-10-57, Cl. 136-106.
- Marsch, Lawrence F.: *See*—
 Richmond, Robert C., Marsch, Huhndorff, McKinley, and Massin. 2,818,137.
- Marschka, Frank D., F. S. Veith, and H. W. Kuzminski, to Radio Corp. of America. Method of manufacturing pickup tubes. 2,807,517, 9-24-57, Cl. 316-25.
- Marsden, George B., to Chicago Nipple Mfg. Co. Transversely oscillating jaw chuck. 2,776,842, 1-8-57, Cl. 279-33.
- Marsden, George B., to Chicago Nipple Mfg. Co. Pipe cut off. 2,790,496, 4-30-57, Cl. 164-60.
- Marsden, Kenneth R.: *See*—
 Von Haken, Kurd. 2,778,318.
- Marsden, Ross S., Jr., to Phillips Petroleum Co. Flame detector. 2,795,777, 6-11-57, Cl. 340-228.
- Marsden, Ross S., Jr., to Phillips Petroleum Co. Electronic relay. 2,802,155, 8-6-57, Cl. 317-142.
- Marsel, Charles J.: *See*—
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- Marsh, Byron E., E. N. Schubert, R. L. Bether, and P. L. Du Brow, to Armour and Co. Fuel oil compositions. 2,798,798, 7-9-57, Cl. 44-73.
- Marsh, Eugene W.: *See*—
 Knapp, Russell H., and Marsh. 2,809,667.
- Marsh, Gerald E., to General Railway Signal Co. Railway car retarder of the track brake type. 2,815,097, 12-3-57, Cl. 188-62.
- Marsh, Gerald M.: *See*—
 Fightmaster, Bernard A., and Marsh. 2,811,723.
- Marsh, Glenn A., to The Pure Oil Co. Method for obtaining corrosion rate of metals. 2,786,021, 3-19-57, Cl. 204-1.
- Marsh, Glenn A., and L. E. Ellison, to The Pure Oil Co. Automatic corrosion rate meter. 2,796,583, 6-18-57, Cl. 324-30.
- Marsh, Hugh P.: *See*—
 Marsh, Lester R. and H. P. 2,782,396.
- Marsh, James A., G. M. Randall, and D. F. Zemke, to North American Aviation, Inc. Double cavity primary feed. 2,784,403, 3-5-57, Cl. 343-779.
- Marsh, Jas. P., Corp.: *See*—
 Strobl, Fred P. 2,803,138.
 Warkentien, Robert H. 2,803,300.
- Marsh, John D. F., and W. B. S. Newling, to North Thames Gas Board. Process for purifying hydrogen sulphide containing hydrogen cyanide. 2,817,580, 12-24-57, Cl. 23-181.
- Marsh, Leland P. Non-splash bath head. 2,775,773, 1-1-57, Cl. 4-157.
- Marsh, Lester R. and H. P. Burglar alarm system for automobiles. 2,782,396, 2-19-57, Cl. 340-63.
- Marsh, Lyle L., Jr., and W. Chubb, to the United States of America as represented by the United States Atomic Energy Commission. Zirconium ternary alloys. 2,784,084, 3-5-57, Cl. 75-177.
- Marsh, Myrle O.: *See*—
 Antalis, Stanley J., Marsh, and Zelt. 2,815,491.
- Marsh, Richard V. Tray-transmission apparatus for restaurants. 2,818,161, 12-31-57, Cl. 198-38.
- Marsh, Robert F., and G. K. Agnew. Disposable razor. 2,794,246, 6-4-57, Cl. 30-32.
- Marsh, Roger F.: *See*—
 Vosler, Edward J., and Marsh. 2,811,057.
- Marsh, Roger: *See*—
 Kopf, Rowland J., and Marsh. 2,799,108.
- Marsh, Roger, to Weapons, Inc. Spring finger for magazines. 2,801,485, 8-6-57, Cl. 42-50.
- Marsh Stencil Machine Co.: *See*—
 Hempel, Herbert W. 2,797,919.
- Marsh Wall Products, Inc.: *See*—
 Robinson, Joseph J., Jr. 2,802,498.
- Marshall, Byron O., Jr.: *See*—
 Dillon, John D., and Marshall. 2,810,518.
- Marshall, Byron O., Jr., and J. D. Dillon. Coding device. 2,808,984, 10-8-57, Cl. 235-61.
- Marshall, Clifford D.: *See*—
 Howard, Jeremiah M., and Marshall. 2,813,915.
- Marshall, Edmund V., to Chance Vought Aircraft, Inc. Fire and explosion protection system. 2,815,819, 12-10-57, Cl. 169-2.
- Marshall, Edward C., to American Tag Co. of New Jersey. Apparatus for printing indicia on a web of connected blanks. 2,789,497, 4-23-57, Cl. 101-132.5.
- Marshall, Elbert H., to Texas Instruments Inc. Lightweight seismometer. 2,788,511, 4-9-57, Cl. 340-17.
- Marshall, Hamilton L. J., to International X-ray, Inc. Systemic insecticides. 2,800,424, 7-23-57, Cl. 167-35.
- Marshall, Harry B., and A. C. Shaw, to Ontario Research Foundation. Preparation of thermosetting binders from phenol derivatives of waste sulphite liquor. 2,794,790, 6-4-57, Cl. 260-17.5.
- Marshall, John F., and R. P. Shutt, to the United States of America as represented by the Secretary of the Navy. Loran training apparatus. 2,815,587, 12-10-57, Cl. 35-10.4.
- Marshall, John N., to Radio Corp. of America. Side-lobe rejection circuit for pulse radar system. 2,781,509, 2-12-57, Cl. 343-6.5.
- Marshall, John N., to Radio Corp. of America. Radio beacon. 2,800,651, 7-23-57, Cl. 343-6.5.
- Marshall, John T., and C. O. Weisenbach, to Bendix Aviation Corp. Pump apparatus. 2,781,727, 2-19-57, Cl. 103-11.
- Marshall, John T., and C. O. Weisenbach, to Bendix Aviation Corp. Fluid pressurizing apparatus. 2,785,634, 3-19-57, Cl. 103-5.
- Marshall, Kenneth L., to Addressograph-Multigraph Corp. Printing machines. 2,707,641, 7-2-57, Cl. 101-421.
- Marshall, Leonard J.: *See*—
 Armacost, Wilbur H., and Marshall. 2,781,746.
- Marshall, Leonard J., to Combustion Engineering, Inc. Radiant steam heater construction and operation. 2,803,227, 8-20-57, Cl. 122-478.
- Marshall, Mary L. Folding clothes rack. 2,816,668, 12-17-57, Cl. 211-104.
- Marshall, Mary V. Noiseless motor vehicle bumper cover. 2,793,900, 5-28-57, Cl. 293-71.
- Marshall, Mary V. Motor vehicle fender bumper. 2,806,730, 9-17-57, Cl. 293-62.
- Marshall, Paul W. Portable pie container. 2,798,784, 7-9-57, Cl. 312-199.
- Marshall, Philip G., J. H. Barnes, and P. A. McCrea, to British Schering Research Laboratories Ltd. Process for producing carbamates of acetylenic carbinols. 2,814,637, 11-26-57, Cl. 260-482.
- Marshall, Port R. Wheel-mounting tool. 2,815,877, 12-10-57, Cl. 214-332.
- Marshall, Preston F. Apparatus for producing relative movement between a working head and continuous strip. 2,798,725, 7-9-57, Cl. 274-13.
- Marshall, Robert H., W. L. Perillstein, W. E. Burt, and H. D. Orloff, to Ethyl Corp. Preparation of aryloxyaliphatic acids and salts thereof. 2,805,251, 9-3-57, Cl. 260-521.
- Marshall, Robert P. Delay plunger assembly for artillery type fuses. 2,779,286, 1-29-57, Cl. 102-76.

- Marshall, Thomas A. Dual frequency antenna arrays. 2,789,286, 4-16-57, Cl. 343-815.
- Marshall, Walter L., and L. S. Kohn, to General Electric Co. Adhesive silicone rubber sheet material and tapes and method of preparing the same. 2,789,155, 4-16-57, Cl. 174-120.
- Marshall, Walter R., to Union Carbide Corp. Continuous plastic milling. 2,803,039, 8-20-57, Cl. 18-2.
- Marshall, Wilbur A. Presser foot for sewing machines. 2,814,266, 11-26-57, Cl. 112-235.
- Marshall, William E., and S. A. Bell, to Armco Steel Corp. Process and apparatus for smelting iron with mobile fuels. 2,776,883, 1-8-57, Cl. 75-48.
- Marshall, William P., and A. G. Spugios. Fish lure having secondary lure within primary lure. 2,794,288, 6-4-57, Cl. 43-42.11.
- Marshall, William W., to Monsanto Chemical Co. Stabilized hydrocarbons. 2,790,014, 4-23-57, Cl. 260-666.5.
- Marsico, Joseph W.: *See—*
- Angier, Robert B., and Marsico. 2,784,188.
- Marsters, Ernest R., to Electro Devices Inc. Winding device. 2,810,530, 10-22-57, Cl. 242-4.
- Marston Broom-Mop Factory: *See—*
- Smith, Claude F., Jr. 2,804,345.
- Marston, Hubert C. Sighting device. 2,803,160, 8-20-57, Cl. 88-2.7.
- Marszal, Leonard E.: *See—*
- Bukrey, Joseph K., and Marszal. 2,815,076.
- Mart, Leon T., and E. R. Allgeyer, to The Marley Co. Gear box lubricating system with oil filter and cooler. 2,802,548, 8-13-57, Cl. 184-6.
- Martell, Charles E., to Joseph Pollak Corp. Toggle switch. 2,796,486, 6-18-57, Cl. 200-67.
- Martell, George E., to Smith, Kline & French Laboratories. Safety device. 2,818,149, 12-31-57, Cl. 192-130.
- Martell, Jack A.: *See—*
- Cook, Allen, Martell, and Whitecar. 2,799,983.
- Martell, Jack A., to Smith, Kline & French Laboratories. Multilayer tablet compressing machine. 2,798,443, 7-9-57, Cl. 107-1.
- Martell, John: *See—*
- Bailey, John H. 2,805,099.
- Martell, Lester H., 50% to R. M. Dunning. Bale turning apparatus. 2,812,864, 11-12-57, Cl. 214-1.
- Martelli, Mattio J.: *See—*
- Halpern, Samuel L., and Martelli. 2,808,940.
- Martellotti, Mario, to The Cincinnati Milling Machine Co. Contouring machine. 2,788,718, 4-16-57, Cl. 90-13.5.
- Martellotti, Mario, and E. G. Roehm, to The Cincinnati Milling Machine Co. Automatic contouring machine for producing warped surfaces. 2,793,568, 5-28-57, Cl. 90-13.
- Martens, Heinrich: *See—*
- Schulz, Otto F., Burgdorf, and Martens. 2,808,434.
- Martens, Maurice J.: *See—*
- Neighbour, Leonard B., and Martens. 2,804,308.
- Marti, Jean-Pierre: *See—*
- Stüdle, Hermann, and Marti. 2,777,589.
- Martignoni, Walter L.: *See—*
- Lodvick, George D., and Martignoni. 2,816,597.
- Martin, Albert, to Societe a Responsabilite Limitee dite: Qualitex, Dunod & Cie. Apparatus for metalworking by electrical discharge. 2,794,109, 5-28-57, Cl. 219-69.
- Martin, Albert E., Jr., to the United States of America as represented by the Secretary of Agriculture. Thickness variation measuring device. 2,805,449, 9-10-57, Cl. 19-70.
- Martin, Algy E., and M. D. Lorimer, to Light Products, Inc. Barricade structure and fitting therefor. 2,777,415, 1-15-57, Cl. 116-63.
- Martin, Algy E., and M. D. Lorimer, to Light Products, Inc. Electron discharge device. 2,800,601, 7-23-57, Cl. 313-201.
- Martin, Algy E., and M. D. Lorimer, to Light Products, Inc. Barricade apparatus switch. 2,816,970, 12-17-57, Cl. 200-42.
- Martin, Anthony J., to Charles J. Martin & Sons. Amplified check gages. 2,811,780, 11-5-57, Cl. 33-172.
- Martin, Antone D.: *See—*
- Johnson, Lloyd A., Christensen, and Martin. 2,782,077.
- Martin, Carl F.: *See—*
- Carrick, Virgil P., Martin, Freddie, and York. 2,800,665.
- Freddie, Willie W., and Martin. 2,785,644.
- Martin, Carroll C. Exterior and interior wall form bucks. 2,803,867, 8-27-57, Cl. 25-131.
- Martin, Charles G., $\frac{1}{2}$ to T. Blaylock and $\frac{1}{2}$ to E. Manthey. Weatherproof tooling container. 2,804,233, 8-27-57, Cl. 220-97.
- Martin, Charles J., & Sons: *See—*
- Martin, Anthony J. 2,811,780.
- Martin, Charles L., to American Machine and Metals, Inc. Folder control. 2,777,689, 1-15-57, Cl. 270-81.
- Martin, Charles R. Telescoping gauge. 2,802,274, 8-13-57, Cl. 33-163.
- Martin, Charles W. Logging scoot. 2,786,691, 3-26-57, Cl. 280-12.
- Martin, Christian L., Jr.: *See—*
- Scheel, Harvey A., and Martin. 2,808,056.
- Martin, Clarence H., to Holcroft & Co. Work conveyor for heat treating furnaces. 2,780,454, 2-5-57, Cl. 263-8.
- Martin, Dana W., to Norton Co. Valve grinding machine. 2,814,169, 11-26-57, Cl. 51-105.
- Martin, Daniel W., to The Baldwin Piano Co. Diffused-tone cabinet for organs. 2,801,703, 8-6-57, Cl. 181-31.
- Martin, Daniel W., to The Baldwin Piano Co. Diffused-tone cabinet. 2,801,704, 8-6-57, Cl. 181-31.
- Martin, David E. Spool tape cutter. 2,781,094, 2-12-57, Cl. 164-84.5.
- Martin-Decker Corp.: *See—*
- Decker, Elmer L. 2,775,889.
- Decker, Elmer L. 2,807,957.
- Martin, Donald W., and R. L. Holm; said Martin assor. to J. J. Dalglish and said Holm. Quick release attachment for safety belts. 2,797,883, 7-2-57, Cl. 244-122.
- Martin, Dulcie R.: *See—*
- Martin, John R. 2,810,552.
- Martin, John R. 2,814,461.
- Martin, Earnest E., to R. W. Walsh. Internally pressurized piston and seal units. 2,797,972, 7-2-57, Cl. 309-31.
- Martin, Edward C.: *See—*
- Hilton, Raymond F., and Martin. 2,788,284.
- Martin, Edward G.: *See—*
- Friedman, Ira J., Martin, Taylor, and Wagner. 2,792,330.
- Martin, Edward J., and J. F. White, to General Motors Corp. Thermal type flowmeter. 2,786,354, 3-26-57, Cl. 73-204.
- Martin, Emil L.: *See—*
- Brandt, William C., Coullar, Jacobson, Martin, and Perkins. 2,808,564.
- Martin, Erhard: *See—*
- Trevaskis, Henry W., and Martin. 2,788,836.
- Martin, Eric F.: *See—*
- Powell, Roger F., and Martin. 2,776,748.
- Powell, Roger F., and Martin. 2,776,749.
- Martin, Ernest E.: *See—*
- Clark, David M., Guild, and Martin. 2,789,556.
- Martin, Eugene J., to Sylvania Electric Products Inc. Electron discharge device and mounting. 2,808,528, 10-1-57, Cl. 313-257.
- Martin, Frank A., to The Hoover Co. Method and apparatus for making an extensible flexible hose. 2,797,730, 7-2-57, Cl. 154-7.
- Martin, Frank E.: *See—*
- Stauss, Henry E., Martin, and Billington. 2,782,633.
- Martin, Frank J., to Seal-O-Matic, Inc. Valve construction for reverse cycle system. 2,782,610, 2-26-57, Cl. 62-115.
- Martin, Furman H., to The Springs Cotton Mills. Cleaning device for revolving clearer rolls. 2,785,423, 3-19-57, Cl. 15-21.
- Martin, George L.: *See—*
- Henderson, Courtland M., Martin, and Gott. 2,805,145.
- Ruhoff, John R., Martin, and Pollock. 2,816,815.
- Martin, Glenn L., Co., The: *See—*
- Black, Walter L. 2,803,170.
- Blucher, John W., Rubright, and Peeling. 2,799,318.
- Gantschnigg, Gottfried K., and Buschers. 2,792,599.
- Hill, Thomas C. 2,817,483.
- Morton, Allen W. 2,787,932.
- Muller, Frank A. 2,800,210.
- Pajak, Theodore P. 2,793,718.
- Schulze, Richard B., Hessler, Davison, and Winter. 2,796,253.
- Sohn, Harry. 2,795,057.
- Trimble, George S., Jr., Wentz, and Magyar. 2,814,453.
- Vail, Alfred S. 2,800,029.
- Wasilisin, Michael E., and Wernz. 2,780,716.
- Martin, Gustav J., and M. J. Sullivan, to The National Drug Co. Therapeutic cation exchange resin composition. 2,781,290, 2-12-57, Cl. 167-55.
- Martin, Harold F., to International Business Machines Corp. Magnetic latch bi-stable relay. 2,802,078, 8-6-57, Cl. 200-87.
- Martin, Harold J., to The L. E. Myers Co. Coupling sleeve press. 2,802,489, 8-13-57, Cl. 140-113.
- Martin, Harold J., to The L. E. Myers Co. Sheave block for stringing aluminum cable. 2,806,380, 9-17-57, Cl. 74-230.7.
- Martin, Harold W., to American Seal-Kap Corp. of Delaware. Cap delivery means. 2,788,155, 4-9-57, Cl. 221-211.
- Martin, Heinz: *See—*
- Ziegler, Karl, Gellert, and Martin. 2,786,860.
- Martin, Heinz, to Siemens Schuckertwerke Aktiengesellschaft. Electrical apparatus including one or more dry-plate rectifiers. 2,792,537, 5-14-57, Cl. 317-234.
- Martin, Helen E. Educational game. 2,782,039, 2-19-57, Cl. 273-137.
- Martin, Homer Z.: *See—*
- Jahnig, Charles E., Wurth, and Martin. 2,776,935.
- Winkler, Raymond W., Martin, and Kaulakis. 2,789,695.
- Martin, Howard C. Method of constructing reinforced concrete floors and beams. 2,816,346, 12-17-57, Cl. 25-154.
- Martin, Irma L. Traction apparatus. 2,808,051, 10-1-57, Cl. 128-84.
- Martin, Irving: *See—*
- Caldwell, Carlyle G., and Martin. 2,802,000.
- Martin, J. Edward: *See—*
- Ahlquist, Zeth F. 2,778,549.
- Martin, James. Releasable locking means for ejection seats for aircraft. 2,806,664, 9-17-57, Cl. 244-122.
- Martin, James. Ejection seats for aircraft. 2,808,217, 10-1-57, Cl. 244-122.
- Martin, James J., to General Motors Corp. Vehicle lamp. 2,814,720, 11-26-57, Cl. 240-41.55.
- Martin, James R. Mobile field type packing plant. 2,804,739, 9-3-57, Cl. 53-391.

- Martin, James W., to Carbonic Products, Inc. Method of destructively distilling oil shale in a producer-type of retort. 2,798,032, 7-2-57, Cl. 202-6.
- Martin, Jay R. Chair with a collapsible footrest. 2,777,506, 1-15-57, Cl. 155-171.
- Martin, Jean R. L., to Coty, Inc. Composition of matter containing polyvinylpyrrolidone and a fatty carrier. 2,776,924, 1-8-57, Cl. 167-82.
- Martin, John A. Heat exchanger attachment for hot water heaters. 2,786,653, 3-26-57, Cl. 257-137.
- Martin, John B., and C. S. Funk, to Crown Zellerbach Corp. Release coating for pressure sensitive adhesive sheet material and process of making a sheet coated with the same. 2,803,557, 8-20-57, Cl. 106-194.
- Martin, John F.: See—
- Phelon, Russell E., and Martin. 2,786,154.
- Martin, John H., and E. S. Reid, to Sonoco Products Co. Conduit construction. 2,798,510, 7-9-57, Cl. 138-78.
- Martin, John J., to Main Machine Co. Combination work bench and tool chest. 2,799,306, 7-16-57, Cl. 144-285.
- Martin, John L.: See—
- Armitage, Joseph B., Heywood, and Martin. 2,816,487.
- Martin, John L., to The Atlantic Refining Co. Means for determining acoustical velocity and attenuation characteristics of subterranean formations. 2,794,512, 6-4-57, Cl. 181-5.
- Martin, John R., deceased; D. R. Martin, administratrix, to The National Supply Co. Slip operating mechanism for rotary machines. 2,810,552, 10-22-57, Cl. 255-23.
- Martin, John R., deceased; D. R. Martin, administratrix. Power operated slip mechanism. 2,814,461, 11-26-57, Cl. 255-23.
- Martin, Johnson. Hand tool with selective handle drive. 2,810,415, 10-22-57, Cl. 145-78.
- Martin, Joseph E. Portable storage shelters. 2,789,668, 4-23-57, Cl. 189-2.
- Martin, Joseph F., to The Sterling Mfg. Co. Antenna rotator and control system. 2,790,121, 4-23-57, Cl. 318-33.
- Martin, Joseph S., Jr., to Hamilton Watch Co. Nonspreading lubricant. 2,794,037, 5-28-57, Cl. 260-410.5.
- Martin, Joseph T., to Pop Corn, Inc. Apparatus for preparing popcorn and oil for inclusion in a film bag. 2,805,639, 9-10-57, Cl. 118-18.
- Martin, Lewis S., to Shenandoah Equipment Co. Trough. 2,797,024, 6-25-57, Cl. 220-69.
- Martin, Ludwig, to Dusseldorfer Eisenhuttengesellschaft. Means for connecting railway and like rails. 2,804,270, 8-27-57, Cl. 238-173.
- Martin, Lynn P., to W. A. Sheaffer Pen Co. Writing implements. 2,799,246, 7-16-57, Cl. 120-47.
- Martin, Lynn P., to W. A. Sheaffer Pen Co. Writing implements. 2,799,247, 7-16-57, Cl. 120-47.
- Martin, Lynn P., to W. A. Sheaffer Pen Co. Writing implement. 2,802,449, 8-13-57, Cl. 120-46.
- Martin, Manley. Window construction. 2,793,723, 5-28-57, Cl. 189-65.
- Martin, Marvin D., K. R. MacKenzie, and W. W. Salsig, to the United States of America as represented by the United States Atomic Energy Commission. Frequency modulation system. 2,789,222, 4-16-57, Cl. 250-27.
- Martin, Maynard S. and M. L., to G. L. Kitson, and N. Cordis. Automatic poultry feeder. 2,782,761, 2-26-57, Cl. 119-52.
- Martin, Merritt W., G. H. Harris, and K. R. Oliver, Jr., to The Dow Chemical Co. Methyl mercaptan-methyl sulfide process. 2,796,438, 6-18-57, Cl. 260-609.
- Martin, Monroe L.: See—
- Martin, Maynard S. and M. L. 2,782,761.
- Martin, Norman P.: See—
- Luckhardt, Johannes. 2,788,058.
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- Luckhardt, Johannes. 2,796,918.
- Martin, Oscar, Mfg. Co.: See—
- Fausner, Oscar, Jr. 2,788,943.
- Martin, Otto E.: See—
- Pick, Joseph W., Martin, Gividen, and Frye. 2,790,672.
- Martin, Owen D., to American Motors Corp. Tube entrance seal in refrigerator cabinet. 2,783,065, 2-26-57, Cl. 285-129.
- Martin, Paul M. Submarine Cable. 2,782,249, 2-19-57, Cl. 174-70.
- Martin, Paul N., to Westinghouse Air Brake Co. Means for reducing electro-magnetic coupling. 2,779,908, 1-29-57, Cl. 323-50.
- Martin, Paul N., to Westinghouse Air Brake Co. Combined manual and automatic route control system for railroads. 2,800,579, 7-23-57, Cl. 246-2.
- Martin, Peter, to Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, as represented by the Minister of Supply. Combustion chambers. 2,807,933, 10-1-57, Cl. 60-39.23.
- Martin, Philip, to M. Lipsky. Vertical frozen milk machine. 2,788,643, 4-16-57, Cl. 62-114.
- Martin, Philip C. Fishing scale. 2,816,750, 12-17-57, Cl. 265-63.
- Martin, Ralph S.: See—
- Risher, John D., and Martin. 2,794,638.
- Martin, Raymond G. Liquid level control. 2,797,702, 7-2-57, Cl. 137-392.
- Martin, Raymond R. Receptable filling apparatus. 2,788,031, 4-9-57, Cl. 141-295.
- Martin, Robert S. Compressed gas-operated propelling mechanism. 2,818,056, 12-31-57, Cl. 124-11.
- Martin, Robert W., to Shell Development Co. Resinous products from mannich bases of aromatic polyketones with hydrogen sulfide and/or polythiols. 2,783,216, 2-26-57, Cl. 260-63.
- Martin, Robert W., to General Electric Co. Separation of hydroxylated aryl compounds. 2,804,480, 8-27-57, Cl. 260-619.
- Martin, Russell A. Supports. 2,784,931, 3-12-57, Cl. 248-313.
- Martin, Samuel W., to Great Lakes Carbon Corp. Process for preparing a liquid oxygen explosive. 2,812,246, 11-5-57, Cl. 52-1.
- Martin-Senour Co., The: See—
- Willis, Grant N., and Clary. 2,796,194.
- Willis, Grant N., and Clary. 2,796,195.
- Willis, Grant N., and Clary. 2,811,171.
- Martin, Sidney W., to Bear Mfg. Co. Vehicle wheel testing device. 2,777,211, 1-15-57, Cl. 33-203.13.
- Martin, Stuart T., to the United States of America as represented by the Secretary of the Army. Modulator. 2,793,304, 5-21-57, Cl. 307-106.
- Martin, Tellis A.: See—
- Randall, David I., and Martin. 2,794,834.
- Martin, Tellis A., and D. I. Randall, to General Aniline & Film Corp. Phthalocyanine derivatives. 2,795,583, 6-11-57, Cl. 260-314.5.
- Martin, Tellis A., and D. I. Randall, to General Aniline & Film Corp. Hydrocarbon soluble phthalocyanines. 2,795,584, 6-11-57, Cl. 260-314.5.
- Martin, Thomas B.: See—
- Blanchard, Werner J., Haines, Martin, and MacNeill. 2,804,155.
- Buhler, Rolf D., Graff, and Martin. 2,811,332.
- Martin, Thomas L., Jr., to Ionaire, Inc. Ion generator using radioactive material. 2,785,312, 3-12-57, Cl. 250-44.
- Martin, Ulyan A.: See—
- White, Robert C., and Martin. 2,781,685.
- Martin, Victor L. Shaving soap holder and applicator. 2,814,153, 11-26-57, Cl. 45-28.
- Martin, Warren R., and R. L. Kuykendall. Area calculator. 2,802,272, 8-13-57, Cl. 33-123.
- Martin, Wesley G., to A. O. Smith Corp. Apparatus for fabricating a fiber reinforced storage structure. 2,808,097, 10-1-57, Cl. 154-17.
- Martin, Wilbert A., to Minneapolis-Honeywell Regulator Co. Sealed switch. 2,814,703, 11-26-57, Cl. 200-168.
- Martin, William, and W. D. Lange, to General Motors Corp. Motor control system. 2,786,173, 3-19-57, Cl. 318-348.
- Martin, William A. O., to Rolls-Royce Ltd. Liquid fuel systems. 2,795,106, 6-11-57, Cl. 60-39.37.
- Martin, William E. Tandem axle construction. Re. 24,374, 10-15-57, Cl. 280-104.5.
- Martin, William G., III: See—
- Barrett, John S., Martin, and Trickey. 2,791,308.
- Martin, William L.: See—
- Olson, Wallace F., and Martin. 2,810,397.
- Martin, William R., and F. R. Zboril, to Lockheed Aircraft Corp. Broadband pitot tube antenna. 2,814,800, 11-26-57, Cl. 343-708.
- Martindale, Charles E. Overhead system for spray painting. 2,790,679, 4-30-57, Cl. 299-86.
- Martindale Electric Co. Ltd.: See—
- Churchill, John A., and Stanley. 2,791,216.
- Martinek, George A. Gun sights and the combination thereof with a sleeve. 2,809,433, 10-15-57, Cl. 33-47.
- Martinez, Rene. Electrical connector. 2,787,774, 4-2-57, Cl. 339-256.
- Martinez, Rene. Electric connector. 2,797,398, 6-25-57, Cl. 339-258.
- Martinez, Rene. Method of making electrical contact blades. 2,799,237, 7-16-57, Cl. 113-119.
- Martinez, Rene. Machine for crimping the arms of an electrical terminal about an electrical conductor. 2,800,158, 7-23-57, Cl. 153-1.
- Martinez, Rene. Insulation-piercing electric terminal. 2,802,195, 8-6-57, Cl. 339-276.
- Martinez, Frank E., to Don Baxter, Inc. Check valve for parenteral solutions. 2,784,733, 3-12-57, Cl. 137-399.
- Martinez, Jesus S.: See—
- Webster, George J., and Martinez. 2,812,541.
- Martinez, Jesus S., to Phillips Petroleum Co. Apparatus for filtering solids from gases. 2,805,732, 9-10-57, Cl. 183-58.
- Martinez, Joseph D., to Esso Research and Engineering Co. Method for orienting cores. 2,810,548, 10-22-57, Cl. 255-14.
- Martinez, Joseph R. Simulated horse-shaped vehicular toy. 2,815,219, 12-3-57, Cl. 280-1.202.
- Martinez, Melroy M. Seafood processing apparatus. 2,816,319, 12-17-57, Cl. 17-2.
- Martini, Franz J. Spinning type fishing reel. 2,799,457, 7-16-57, Cl. 242-84.21.
- Martiniak, Leonard J., to General Electric Co. Dishwashing apparatus with automatic detergent-dispensing means. 2,809,648, 10-15-57, Cl. 134-56.
- Martino, Carlo F.: See—
- Groff, Frazier, and Martino. 2,805,181.
- Martino, Ernest F., and N. A. Hassler, to Sperry Rand Corp. Signal amplifying and modulating apparatus. 2,801,382, 7-30-57, Cl. 323-52.

- Martinson, Arthur, to General Electric Co. Turbine shell support structure. 2,777,665, 1-15-57, Cl. 253-39.
- Martinson, Edward E. W., to Minneapolis-Honeywell Regulator Co. Plural zone temperature control apparatus. 2,789,767, 4-23-57, Cl. 236-9.
- Martinson, Edwin O., to Koehring Co. Mobile tower paver. 2,791,342, 5-7-57, Cl. 214-630.
- Martinson, Edwin O., to The C. S. Johnson Co. Gate operating mechanism for a concrete bucket. 2,812,970, 11-12-57, Cl. 294-71.
- Martinson, Oscar J., to Bucyrus-Erie Co. Shoe translating mechanism for walking vehicles. 2,783,847, 3-5-57, Cl. 180-8.
- Martinson, Carl G. Sewing machine elevated work support. 2,789,528, 4-23-57, Cl. 112-260.
- Martinuzzi, Albino. Key holding device. 2,805,566, 9-10-57, Cl. 70-456.
- Martiny, Jean R. V. Process for protecting mechanical assemblies. 2,795,038, 6-11-57, Cl. 29-460.
- Martiny, Jean R. V. Element for insulating the surface of a molten product. 2,802,656, 8-13-57, Cl. 263-1.
- Martiny, Jean R. V. Process for wet-refining non-ferrous metals and metal alloys. 2,806,784, 9-17-57, Cl. 75-101.
- Martini, Roberto. Vertical generators for absorption refrigeration units. 2,776,548, 1-8-57, Cl. 62-119.5.
- Martorello, Michael. Saddle rack for horse trailers. 2,809,755, 10-15-57, Cl. 211-13.
- Martschik, Nikolaus. Flashlight. 2,796,516, 6-18-57, Cl. 240-10.67.
- Martt, William E. Boat trailer and mechanism for raising and lowering the frame thereof. 2,795,432, 6-11-57, Cl. 280-44.
- Martyniuk, Ernest T.: *See*—
Scheidemantel, Herman B., Satchell, and Martyniuk. 2,809,038.
- Marullo, Gerlando, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Method for purifying acrylonitrile from divinylacetylene and ethynilbutadiene by means of selective hydrogenation. 2,799,630, 7-16-57, Cl. 202-59.
- Marullo, Gerlando, A. Baroni, and T. Garlanda, to Montecatini, Società Generale per l'Industria Mineraria e Chimica-Milan. Process for the preparation of cyanuric acid from urea. 2,790,801, 4-30-57, Cl. 260-248.
- Marullo, Gerlando, U. Maffezzoni, and M. Agamennone, to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Process for the synthesis of acrylonitrile from acetylene and hydrogen cyanide. 2,796,426, 6-18-57, Cl. 260-465.3.
- Marullo, Gerlando, and R. Mazzetti, to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Process for separating carbon dioxide and ammonia. 2,812,829, 11-12-57, Cl. 183-115.
- Marvel Engineering Co.: *See*—
Thomas, William A. 2,801,751.
- Marvel Industries, Inc.: *See*—
Ericson, John F. E. 2,814,403.
- Marvel, Harvey E., to Bowser, Inc. Separator for liquids. 2,800,232, 7-23-57, Cl. 210-497.
- Marvic, Inc.: *See*—
Pedersen, Edvard M., Leupe, and Balzer. 2,811,886.
- Marvin Electric Mfg. Co.: *See*—
Dasher, Norman E. 2,816,216.
Dasher, Norman E., and Feig. 2,792,245.
- Marvin, George W. Can opener. 2,811,278, 10-29-57, Cl. 220-52.
- Marvin, John T., to General Motors Corp. Friction material. 2,793,427, 5-23-57, Cl. 29-420.5.
- Marvin, Philip R., to The Commonwealth Engineering Co. of Ohio. Gas plating process. 2,785,997, 3-19-57, Cl. 117-212.
- Marx, Erwin: *See*—
Heilmann, Phillip, Losch, Marx, and Schmitz. 2,781,435.
- Marx, Erwin. Contact arrangement consisting of at least one roller electrode and a counterelectrode for an uninterrupted continuous rolling motion. 2,809,243, 10-8-57, Cl. 200-25.
- Marx, John W., and H. W. Parker, to Phillips Petroleum Co. Process for recovery of petroleum from sands and shale. 2,813,583, 11-19-57, Cl. 166-11.
- Marx, Karl: *See*—
Schweiter, Walter, and Marx. 2,799,459.
- Marx, Louis, & Co., Inc.: *See*—
Lohr, Raymond J. 2,802,299.
Lohr, Raymond J. 2,802,301.
Nisperly, Walter E. 2,812,869.
- Marxer, Adrian, to Ciba Pharmaceutical Products, Inc. 2,5-bis - ethyleneimino - 3,6 - bis - acylamino - parabenzonones. 2,802,001, 8-6-57, Cl. 260-239.
- Maryland Baking Co., The: *See*—
Heyman, Albert A. 2,784,097.
- Maryland Laboratories, Inc.: *See*—
Bickford, Hugh C. 2,812,861.
- Marzano, Frank. Tip-up for ice fishing. 2,803,913, 8-27-57, Cl. 43-17.
- Marzotti, Angela M.: *See*—
Tarbox, Leslie E. 2,798,136.
- Marzluff, William F., to American Cyanamid Co. Removal of HCN. 2,780,513, 2-5-57, Cl. 23-2.
- Marzocchi, Alfred: *See*—
MacMullen, Clinton W., and Marzocchi. 2,813,085.
- Marzucco, Sebastian J. Support member for high jump cross bar. 2,777,692, 1-15-57, Cl. 272-59.
- Mas, Robert J., and A. L. Michaud, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Recovery of titanium tetrachloride. 2,792,077, 5-14-57, Cl. 183-120.
- Mas, Robert J., and P. R. Matthieussent, to Fabrique de Produits Chimiques de Thann et de Mulhouse. Recovery of titanium tetrachloride from chlorination gases. 2,815,091, 12-3-57, Cl. 183-120.
- Masamune, Satoru: *See*—
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- Mascaro, Thomas C. Trailer having vertically adjustable wheels and hitch. 2,806,710, 9-17-57, Cl. 280-44.
- Maschek, Adrian M., and C. Hartline, $\frac{1}{2}$ to L. J. Gerrets. Bumper hitch for trailer. 2,782,055, 2-19-57, Cl. 280-502.
- Maschinenfabrik Augsburg-Nürnberg A. G.: *See*—
Auer, Adolf C. 2,814,500.
Dietrich, Paul. 2,776,136.
Dietrich, Paul. 2,789,499.
Dietrich, Paul, Kolland, and Rupp. 2,791,176.
Fahlbusch, Heinz, and Kleim. 2,798,841.
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Motzet, Hans, and Böller. 2,817,258.
Reinartz, Robert W. 2,778,302.
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Scharf, Herbert. 2,779,082.
Scharf, Herbert H. E., Schmucker, and Richter. 2,783,967.
Schmidl, Rudolf. 2,800,110.
Schörner, Christian. 2,778,095.
Schörner, Christian. 2,806,355.
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- Maschinenfabrik Beth Aktiengesellschaft: *See*—
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- Maschinenfabrik Buckau R. Wolk Aktiengesellschaft: *See*—
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- Maschinenfabrik Meer Aktiengesellschaft: *See*—
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- Maschinenfabrik Schweiter A. G.: *See*—
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- Maschinenfabrik Stromag M. b. H.: *See*—
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- Maschinenfabrik Turner Aktiengesellschaft: *See*—
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- Maschinenfabrik Winkler, Fallert & Co., A. G.: *See*—
Heimlicher, Paul. 2,803,459.
Loescher, Friedrich A. 2,803,882.
- Masel, Joseph N., to Johnson & Johnson. Sterilization of crystalline powders using epoxide. 2,809,879, 10-15-57, Cl. 21-58.
- Maschoff, Walter A., H. D. Epstein, and W. W. Cardin, to Metals & Controls Corp. Electrical switch. 2,813,168, 11-12-57, Cl. 200-88.
- Masden, Earl W., to Private Tele-Communications, Inc. Associated telephone and public address systems. 2,791,631, 5-7-57, Cl. 179-1.
- Masemo Corp.: *See*—
Mueller, Otto. 2,799,340.
- Maserjian, Joseph, to Hughes Aircraft Co. Evaporation-fused junction semiconductor devices. 2,789,068, 4-16-57, Cl. 148-1.5.
- Masinda, Albert G. Locator pin. 2,812,580, 11-12-57, Cl. 33-125.
- Maskulka, Joseph M., and J. E. Parent. Drill guide. 2,795,520, 7-9-57, Cl. 145-129.
- Maslan, Frank, to Escambia Chemical Corp. Production of chemicals. 2,810,456, 10-22-57, Cl. 183-115.
- Masland, C. H., & Sons: *See*—
Harding, John H. 2,814,314.
Hoeselbarth, Frank W. E. 2,784,742.
Hoeselbarth, Frank W. E. 2,796,088.
MacCaffray, Rex S., Jr. 2,784,689.
MacCaffray, Rex S., Jr. 2,811,244.
- Maslow, Louis. Dishwashing rack. 2,798,616, 7-9-57, Cl. 211-41.
- Mason, Albert C. Photographic apparatus. 2,791,936, 5-14-57, Cl. 88-24.
- Mason, Arie M., to Mason Plastics Co., Inc. Guide assembly for article coating machines. 2,784,696, 3-12-57, Cl. 118-405.
- Mason, Au & Magenheimer Conf. Mfg. Co.: *See*—
Haug, Charles F. 2,783,155.
- Mason, Charles F. High speed rotary switching apparatus. 2,803,720, 8-20-57, Cl. 200-87.
- Mason, Collins: *See*—
Bleamaster, Leslie F. 2,815,982.
Polk, Isaac H. 2,795,939.
Polk, Isaac H. 2,802,341.
- Mason, David H. Illuminating fixture with changeable screen. 2,798,942, 7-9-57, Cl. 240-46.17.
- Mason, Elmer L. Electric plug construction. 2,785,386, 3-12-57, Cl. 339-97.

- Mason, Francis G.: *See*—
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- Mason, James A.: *See*—
Molins, Desmond W., and Mason. 2,791,223.
Molins, Desmond W., Smith, Mason, and Ruau. 2,798,346.
- Mason, James A., to Electronic Toys, Inc. Toy animal with blinking eyes. 2,794,298, 6-1-57, Cl. 46-228.
- Mason, James A., to Machinery Electrification, Inc. Control apparatus for electro-magnetic friction clutch. 2,878,104, 4-9-57, Cl. 192-84.
- Mason, John F.: *See*—
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- Mason, John M.: *See*—
Purvell, John C., and Mason. 2,787,247.
- Mason Plastics Co., Inc.: *See*—
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- Mason, Ralph B.: *See*—
Kimberlin, Charles N., Jr., and Mason. 2,789,037.
Kimberlin, Charles N., Jr., and Mason. 2,791,540.
Mertzweiler, Joseph K., and Mason. 2,809,220.
- Mason, Ralph B., to Aluminum Co. of America. Treating aluminum surfaces. 2,811,426, 10-29-57, Cl. 41-42.
- Mason, Ralph B., to Esso Research and Engineering Co. Oxo preparation of high molecular weight alcohols. 2,811,567, 10-29-57, Cl. 260-638.
- Mason, Ralph B., and E. W. S. Nicholson, to Esso Research and Engineering Co. Sulfative aldehyde hydrogenation catalyst. 2,813,911, 11-19-57, Cl. 260-638.
- Mason, Richard K., to International Business Machines Corp. Electronic storage device. 2,790,076, 4-23-57, Cl. 250-27.
- Mason, Robert E. Chassis construction for three wheel power-driven vehicle. 2,818,127, 12-31-57, Cl. 180-27.
- Mason, Robert W., to E. I. du Pont de Nemours and Co. Synthetic resin coating compositions containing, as flattening agents, acid phosphate esters or amine salts thereof. 2,793,196, 5-21-57, Cl. 260-30.6.
- Mason, Russell I. Swimmer's underwater compass. 2,803,068, 8-20-57, Cl. 33-223.
- Mason, Silas, Co.: *See*—
Jewell, Robert B. 2,800,875.
- Mason, Veta. Control devices. 2,791,239, 5-7-57, Cl. 138-45.
- Mason, Veyne V., W. R. Mayhew, J. W. Schroeder, and W. E. Hirtenstein. Formation of crumpled sheet material filter elements and the like. 2,786,399, 3-26-57, Cl. 93-1.
- Mason, Warren P., to Bell Telephone Laboratories, Inc. Dielectric amplifier employing ferroelectric materials. 2,795,648, 6-11-57, Cl. 179-1.
- Masonite Corp.: *See*—
Boehm, Robert M. 2,802,403.
Boehm, Robert M., and Simpson. 2,805,946.
Green, Walter P., Jr., and Meek. 2,815,290.
Herrington, Orange S., Jr. 2,811,904.
Lesniak, Frank G., and Stubbe. 2,781,137.
O'Neil, Thomas M., and Green. 2,798,001.
Schoen, William. 2,791,523.
- Massa, George J. Rack for holding automobile body parts. 2,803,872, 8-27-57, Cl. 29-288.
- Massari Brothers Machine Co.: *See*—
Babbitt, Seth M. 2,816,462.
- Masse, August. Gear shaft support. 2,781,237, 2-12-57, Cl. 308-18.
- Masse, Fiore A. Composite tape for use with masking paper and method of application. 2,808,358, 10-1-57, Cl. 154-118.
- Massello, Edmund J.: *See*—
Keating, Thomas J., and Massello. 2,777,180.
- Massey, Emmette B. Inflatable artificial wing. 2,810,576, 10-22-57, Cl. 272-25.
- Massey-Harris Co., The: *See*—
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- Massey-Harris-Ferguson Inc.: *See*—
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- Massey-Harris-Ferguson (Sales) Ltd.: *See*—
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Haines, David R., and Bent. 2,791,340.
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Senkowski, Alexander, and Cooper. 2,816,515.
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Senkowski, Alexander, and Watson. 2,816,456.
- Massey, James W.: *See*—
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- Massey, John M., to Deering Milliken Research Corp. Yarn tension regulator. 2,790,611, 4-30-57, Cl. 242-154.
- Massey, Lester G., to Universal Oil Products Co. Pelletting apparatus. 2,813,299, 11-19-57, Cl. 18-1.
- Massey, Theodore R., to Marathon Corp. Package. 2,802,569, 8-13-57, Cl. 206-78.
- Massillon-Cleveland-Akron Sign Co., The: *See*—
Frey, Edward. 2,807,287.
- Massin, Hyman D.: *See*—
Richmond, Robert C., Marsch, Huhndorff, McKinley, and Massin. 2,818,137.
- Massmann, Werner F.: *See*—
Hunstiger, Francis, and Massmann. 2,793,515.
- Masson, Bernard: *See*—
Jacob, Raymond, and Masson. 2,811,986.
- Masson, Emile P. Thermostat for ice chests. 2,786,116, 3-19-57, Cl. 200-140.
- Mast, Aquila D. Occupant-controlled lawn mower riding assembly. 2,792,898, 5-21-57, Cl. 180-11.
- Mast Development Co.: *See*—
Wales, Roger O. 2,808,208.
- Mast, George W., to Nepera Chemical Co., Inc. Salicylic acid esters. 2,787,620, 4-2-57, Cl. 260-345.8.
- Mast, Gifford M. Rectifying and projecting apparatus for aerial photographs. 2,792,747, 5-21-57, Cl. 88-24.
- Mast, Kurt, to Firma. Matth. Hohner A. G. Mouth harmonica. 2,815,693, 12-10-57, Cl. 84-377.
- Mastandrea, Frank: *See*—
Stenchever, Charles, and Mastandrea. 2,778,465.
- Mastenbrook, Henry J. Method and apparatus for making high altitude balloons. 2,790,479, 4-30-57, Cl. 154-1.
- Master Alloys, Inc.: *See*—
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- Mastercraft Plastic Co., Inc.: *See*—
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- Master Industries, Inc.: *See*—
Banowetz, Michal W. 2,814,903.
- Masternick, John. Eraser support for mechanical pencils. 2,812,744, 11-12-57, Cl. 120-38.
- Masters, Edwin L.: *See*—
Lawrence, Lewis W., and J. H. and E. L. Masters. 2,796,202.
Masters, Joseph H., Lawrence, and E. L. Masters. 2,796,203.
- Masters, Joseph H.: *See*—
Lawrence, Lewis W., and J. H. and E. L. Masters. 2,796,202.
- Masters, Joseph H., L. W. Lawrence, and E. L. Masters, to Masters Planter Co. Feed control mechanism for material spreaders. 2,796,203, 6-18-57, Cl. 222-311.
- Masters Planter Co.: *See*—
Lawrence, Lewis W., and J. H. and E. L. Masters. 2,796,202.
- Masters, Joseph H., Lawrence, and E. L. Masters. 2,796,203.
- Masters, Ray H. Auxiliary lubricant and vapor heating system for internal combustion engines. 2,776,651, 1-8-57, Cl. 123-142.5.
- Masters, Romney W. Well apparatus. 2,778,429, 1-22-57, Cl. 166-139.
- Masterson, Earl E., to Sperry Rand Corp. Magnetic printer. 2,802,049, 8-6-57, Cl. 178-28.
- Masterson, Horace T., to Esso Research and Engineering Co. Automatic damping of a gravimeter. 2,809,524, 10-15-57, Cl. 73-382.
- Master Tank and Welding: *See*—
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- Master Vibrator Co.: *See*—
Spitler, Clem H. 2,808,238.
- Mastin, James W. Step ladder scaffold bracket. 2,778,595, 1-22-57, Cl. 248-238.
- Mastin, Thomas G.: *See*—
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- Mastin, Thomas W.: *See*—
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Asseff, Peter A., Mastin, and Rhodes. 2,802,816.
Norman, George R., Le Suer, and Mastin. 2,794,041.
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- Mästling, Ernst: *See*—
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- Mästling, Richard, and H. Schimmelbusch, to Ernst Mästling. Tape reproducer. 2,804,508, 8-27-57, Cl. 179-100.2.
- Mastney, Edward J.: *See*—
Elckhorst, Melvin F., and Mastney. 2,805,291.
- Mastney, Edward J., to Oak Mfg. Co. Electrical motor apparatus. 2,812,453, 11-5-57, Cl. 310-23.
- Mastracchi-Manes, Giovanni: *See*—
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- Mastrandrea, Anthony. Fountain toothbrush. 2,790,190, 4-30-57, Cl. 15-129.
- Mastriani, Elvin A., to John Dusenbery Co., Inc. Score-cut slitting mechanism. 2,802,528, 8-13-57, Cl. 164-60.
- Mastropietro, Vittorino: *See*—
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- Matarese, John G., and J. K. Moorhead, to Olin Mathieson Chemical Corp. Sodium hypochlorite production by cation exchange materials. 2,811,417, 10-29-57, Cl. 23-86.
- Matelsky, Isaac, to General Electric Co. Ozonizing luminaire. 2,805,344, 9-3-57, Cl. 250-71.
- Mater, Peter L. Game apparatus. 2,784,972, 3-12-57, Cl. 273-103.

- Material Industriel S. A.:** *See*—
 Allemann, Paul. 2,791,410.
 Sigrist, Edouard. 2,804,185.
- Materiel Industriel S. A.:** *See*—
 Grossmann, Paul. 2,814,119.
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- Matey, George J.:** *See*—
 Frost, Louis E., and Matey. 2,780,966.
- Matge, Pierre P.:** *See*—
 Robert, Roger A., and Matge. 2,803,168.
 Robert, Roger A., and Matge. 2,807,193.
 Robert, Roger A., and Matge. 2,811,900.
- Math, Fritz.** Method of embedding metal profiles in ceramic masses. 2,780,837, 2-12-57, Cl. 18-59.
- Math, Moe.** Collapsible writing and reading leaf. 2,787,508, 4-2-57, Cl. 311-21.
- Math, Moe.** Dispenser cap for containers. 2,796,204, 6-18-57, Cl. 222-324.
- Mathamel, Flavius A.:** *See*—
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- Matheka, Heinz-Dietrich:** *See*—
 Schultze, Hermann E., Schonenberger, and Matheka. 2,793,203.
- Mather, Charles B.:** *See*—
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- Mathern, Alfred and W.** Cylindrical clamp. 2,802,993, 8-13-57, Cl. 333-97.
- Mathern, William:** *See*—
 Mathern, Alfred and W. 2,802,993.
- Matherne, Joseph L., and L. and R. Ewing, to McGraw-Edison Co.** Impregnation of absorbent materials. 2,812,271, 11-5-57, Cl. 117-94.
- Mathes, Robert H.** Wedge sweep generator. 2,800,607, 7-23-57, Cl. 315-24.
- Mathes, Robert H.** Object locator system. 2,808,583, 10-1-57, Cl. 343-113.
- Mathes, Robert H.** Multiple sweep. 2,817,832, 12-24-57, Cl. 343-13.
- Mathes, Wilhelm, and W. Sauermilch, to Dr. F. Raschig G. m. b. H.** Process for the production of quinoline aldehydes. 2,798,071, 7-2-57, Cl. 260-289.
- Mathes, William E.** Polishing devices for silverware and the like. 2,805,529, 9-10-57, Cl. 51-190.
- Matheson, George.** Tractor loader attachment. 2,787,391, 4-2-57, Cl. 214-140.
- Matheson, Lorne A., and R. F. Boyer, to The Dow Chemical Co.** Stabilizing alkenyl aromatic resins against weathering. 2,809,955, 10-15-57, Cl. 260-45.9.
- Mathews, Asa L.** Field lathe for shaping conduit ends. 2,793,553, 5-28-57, Cl. 82-4.
- Mathews, Charles H.** Safety holder for walker die. 2,785,746, 3-19-57, Cl. 164-29.
- Mathews Co., The:** *See*—
 Lowmaster, Frank L. 2,797,819.
- Mathews, George R., Sr.** Bearing puller. 2,807,080, 9-24-57, Cl. 29-251.
- Mathews, Joseph A.:** *See*—
 Mann, Howard H., Erickson, and Mathews. 2,816,181.
- Mathews, Joseph A., N. B. Erickson, C. W. Welsh, and H. H. Mann, to Chicago Musical Instrument Co.** Organ key switch. 2,788,400, 4-9-57, Cl. 200-18.
- Mathews, Joseph A., and H. H. Mann, to Chicago Musical Instrument Co.** Bus-bar. 2,788,420, 4-9-57, Cl. 200-166.
- Mathews, Katherine, to Milprint, Inc.** Handled container. 2,800,268, 7-23-57, Cl. 229-52.
- Mathews, Mack G.** Fish pole carrier. 2,807,398, 9-24-57, Cl. 224-42.1.
- Mathews, Martin B., and C. E. Stauffer, to R. R. Street & Co., Inc.** Method of preparing dry cleaning compositions. 2,785,134, 3-12-57, Cl. 252-161.
- Mathews, Martin B., and C. E. Stauffer, to R. R. Street & Co., Inc.** Method of preparing dry cleaning compositions. 2,785,135, 3-12-57, Cl. 252-161.
- Mathews, Richard D., to S & W Fine Foods, Inc.** Method of impregnating fruit with a sugar solution. 2,785,071, 3-12-57, Cl. 99-102.
- Mathews, Robert L., to Hancock Industries.** Timing mechanism. 2,792,059, 5-14-57, Cl. 161-1.
- Mathews, Victor M., Jr., and R. W. Fetter, to Aeromotive Equipment Corp.** Manually manipulable interlocking mechanism. 2,811,765, 11-5-57, Cl. 24-221.
- Mathewson, Frank:** *See*—
 Miller, Robert P., Mathewson, and Meinzer. 2,777,578.
- Mathewson, Gordon W.** Holding pawl device. 2,796,891, 6-25-57, Cl. 140-93.4.
- Mathias, Arnold.** Wire stripping tool. 2,795,982, 6-18-57, Cl. 81-9.5.
- Mathias, Gerald E.:** *See*—
 Abell, Donald E., and Mathias. 2,785,360.
 Harding, William E., Schaelchlin, and Mathias. 2,785,362.
 Schaelchlin, Walter, and Mathias. 2,785,361.
- Mathiere, Henri E. Y., to Compagnie des Machines Bull (Societe Anonyme).** Brush for sensing perforated records. 2,814,699, 11-26-57, Cl. 200-166.
- Mathieson, John R.:** *See*—
 Havens, Carl B., and Mathieson. 2,787,607.
- Mathieu, Francois, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques.** Thermal process for producing alkali metals and magnesium. 2,813,017, 11-12-57, Cl. 75-66.
- Mathis, Clyde H., F. A. Siedenstrang, and W. W. Vandiver, to Phillips Petroleum Co.** Butane recovery from unsaturated hydrocarbons. 2,813,141, 11-12-57, Cl. 260-683.3.
- Mathis, John B., to Florence Stove Co.** Rotary spit thermometer. 2,787,948, 4-9-57, Cl. 99-421.
- Mathis, Vernon P., to General Electric Co.** Sawtooth wave generator. 2,792,499, 5-14-57, Cl. 250-36.
- Mathis, Vernon P., and J. J. Suran, to General Electric Co.** Semi-conductor network. 2,802,117, 8-6-57, Cl. 307-88.5.
- Mathisen, Anders:** *See*—
 Randolph, Harry B., and Mathisen. 2,798,562.
- Mathisen, Anders, ½ to Graviner Mfg. Co. Ltd., and ½ to The Wilkinson Sword Co. Ltd.** Electrical power supply apparatus. 2,782,402, 2-19-57, Cl. 340-213.
- Mathisen, Anders, ½ to Graviner Mfg. Co. Ltd., and ½ to The Wilkinson Sword Co. Ltd.** Means for affording rapid relief of pressure. 2,783,845, 3-5-57, Cl. 169-1.
- Mathisen, Anders, ½ to Graviner Mfg. Co. Ltd., and ½ to The Wilkinson Sword Co. Ltd.** Fluid containers. 2,787,330, 4-2-57, Cl. 169-28.
- Mathisen, Anders, ½ to Graviner Mfg. Co. Ltd., and ½ to Wilkinson Sword Ltd.** Fluid containers. 2,795,282, 6-11-57, Cl. 169-9.
- Mathisen, Anders, ½ to Graviner Mfg. Co. Ltd. and ½ to The Wilkinson Sword Co. Ltd.** Stopping and opening devices for fluid containers. 2,797,760, 7-2-57, Cl. 169-9.
- Mathisen, Ivar M., to Aktiebolaget Westin & Backlund.** Molding machines. 2,782,471, 1-26-57, Cl. 22-20.
- Mathisen, Ray C., to Eaz-Lift Spring Corp.** Auxiliary trailer coupling. 2,817,541, 12-24-57, Cl. 280-406.
- Mathison, Volney G.** Electropsychometer or bioelectronic instrument. 2,799,269, 7-16-57, Cl. 128-2.1.
- Mathison, Volney G.** Electropsychometer, or bioelectronic instrument. 2,810,383, 10-22-57, Cl. 128-2.
- Mathot, Jacques:** *See*—
 Coutant, André C., and Mathot. 2,813,924.
- Mathues, Thomas O., to General Motors Corp.** Steering wheel and method of making same. 2,810,301, 10-22-57, Cl. 74-552.
- Mathur, Kishan B.:** *See*—
 Gishler, Paul E., and Mathur. 2,786,280.
- Mathys, Max A., to Ex-Cell-O Corp.** Hydraulic transmission for machine tools. 2,798,460, 7-9-57, Cl. 121-45.
- Matis, Ernest:** *See*—
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- Matson, Nicholas W., and J. Kwiatkowski, to Novacolor Reprint Co. Ltd.** Accelerator for color developer solutions. 2,794,741, 6-4-57, Cl. 96-66.
- Matlin, Nathaniel A.:** *See*—
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- Matlin's Nursery:** *See*—
 Ritchie, Coy D. 2,804,813.
- Matlock, Henry W.:** *See*—
 Brown, Richard E., and Matlock. 2,785,806.
- Matousek, Edward J.** Tool tester. 2,806,993, 9-17-57, Cl. 324-51.
- Matrau, Virgil A., to Lambert Brake Corp.** Torque-absorbing means for friction devices. 2,811,234, 10-29-57, Cl. 192-66.
- Matson, Carl G.** Vehicle steerable drive gear. 2,780,299, 2-5-57, Cl. 180-6.28.
- Matson, Carl G., to Vibrolator Mfg. Co.** Car vibrator. 2,818,184, 12-31-57, Cl. 214-64.2.
- Matson, Charles L.:** *See*—
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- Matson, Fred.** Plant support. 2,817,190, 12-24-57, Cl. 47-47.
- Matson, Gilbert T., and R. L.** Hydraulic jack. 2,809,494, 10-15-57, Cl. 60-52.
- Matson, Herman A., and P. M. Netzer, to the United States of America as represented by the Secretary of the Army.** Muzzle brake. 2,809,560, 10-15-57, Cl. 89-14.
- Matson, Herman P.:** *See*—
 Howard, Wellington R., and Matson. 2,807,986.
- Matson, John W., to Utica Drop Forge & Tool Corp.** Cutting tool with workpiece retaining means. 2,814,869, 12-3-57, Cl. 30-124.
- Matson, Randolph.** Soil moisture indicating gage. 2,801,538, 8-6-57, Cl. 73-73.
- Matson, Richard L.:** *See*—
 Matson, Gilbert T., and R. L. 2,809,494.
- Matsukawa, Tatsuo.** Process of manufacturing porous metal powder containing lead. 2,813,785, 11-19-57, Cl. 75-5.
- Matsuzuka, Kiyoto, to Yawata Iron & Steel Co., Ltd.** Method of treating iron ores containing chromium. 2,784,074, 3-5-57, Cl. 75-3.
- Matt, Charles M.** Calculator for and method of forming drapery pleats. 2,777,617, 1-15-57, Cl. 223-34.
- Matt, Heinrich K.** Cable load gage. 2,795,136, 6-11-57, Cl. 73-144.
- Matt, William J., Jr.:** *See*—
 Anania, James A. 2,799,917.
- Mattel, Sergio O.** Fruit picker. 2,796,721, 6-25-57, Cl. 56-334.
- Mattel, Howard:** *See*—
 Foggiano, Pellegrino F., Alberelli, and Mattel. 2,787,472.
- Matter, Albert J.** Card shuffler and tray. 2,782,040, 2-19-57, Cl. 273-149.
- Matter, Albert J., to U-Kart, Inc.** Hand baggage cart having automatic brake. 2,785,906, 3-19-57, Cl. 280-33.99.

- Matter, Albert J. Foot adjusters for enclosed appliances. 2,793,467, 5-28-57, Cl. 45-137.
- Matter, Erich: *See—*
Albrecht, Otto, and Matter. 2,794,765.
Albrecht, Otto, and Matter. 2,794,808.
- Matter, Max, to Haco Gesellschaft A. G. New 5:6-dihydrobenzo (C) cinnoline derivatives and a process for their preparation. 2,778,829, 1-22-57, Cl. 260-250.
- Matter, Max, to Ciba Pharmaceutical Products Inc. Polyethylene glycol esters of isocyclic organic carboxylic acids. 2,794,825, 6-4-57, Cl. 260-469.
- Matter, Max, and A. Kobler, to Ciba Pharmaceutical Products, Inc. Quinoline carboxylic acid amides. 2,798,873, 7-9-57, Cl. 260-284.
- Matter, Robert C.: *See—*
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- Matteson, Elwin A.: *See—*
Matthes, Karl W., and Matteson. 2,799,817.
- Matteson, Kenneth E.: *See—*
Beck, Paul W., and Matteson. 2,818,387.
- Matteson, Leigh. Expendable casting weight. 2,814,902, 12-3-57, Cl. 43-43.12.
- Matthes, Karl W., to Precision Welder & Machine Co. Method and apparatus for welding sheet metal. 2,784,299, 3-5-57, Cl. 219-102.
- Matthes, Karl W., and E. A. Matteson, to The Arms-Franklin Corp. Variable length of cut flying shear. 2,799,817, 7-16-57, Cl. 318-146.
- Matthes, Samuel S., to The Ohio Brass Co. Trolley intersection and system. 2,802,072, 8-6-57, Cl. 191-37.
- Matthew, Morton P., to The Ahrendt Instrument Co. Shaft revolution counter. 2,777,637, 1-15-57, Cl. 235-103.
- Matthew, Morton P., to The Ahrendt Instrument Co., Inc. Variable function film voltage divider. 2,785,260, 3-12-57, Cl. 201-43.
- Matthew, Morton P. Paper cutting device and board therefor. 2,803,303, 8-20-57, Cl. 164-73.
- Matthews, Arba J., to The Union Ice Co. Gantry car icer. 2,785,788, 3-19-57, Cl. 198-188.
- Matthews, Charles L., to Wm. H. Welsh Co., Inc. Loud speaker diaphragm supporting member. 2,812,825, 11-12-57, Cl. 181-31.
- Matthews, Charles L., to Wm. H. Welsh Co., Inc. Fan guard. 2,812,900, 11-12-57, Cl. 230-275.
- Matthews, Charles S., and J. W. Killian, to Shell Development Co. Method of suppressing water and gas coning in oil wells. 2,784,787, 3-12-57, Cl. 166-21.
- Matthews, Claude A., to Rohr Aircraft Corp. Sine bar for compound angles. 2,812,586, 11-12-57, Cl. 33-174.
- Matthews, Earnest P.: *See—*
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- Matthews, Frederic L.: *See—*
Saunders, Elerington, and Matthews. 2,815,269.
- Matthews, Harold J.: *See—*
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- Matthews, Herbert T.: *See—*
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- Matthews, Jas. H., & Co.: *See—*
Brown, Alvin M., and Ayers. 2,785,626.
- Matthews, James W. Flush tank water inlet valve. 2,793,655, 5-28-57, Cl. 137-444.
- Matthews, John T., to Wil-Mat Corp. Swivel. 2,779,642, 1-29-57, Cl. 308-227.
- Matthews, Robert M.: *See—*
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- Matthews, Russell B.: *See—*
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Thornbery, John H., and Matthews. 2,800,614.
- Matthews, Russell B., to Milwaukee Gas Specialty Co. Manual operator with electrical release for power operated valves. 2,788,942, 4-16-57, Cl. 236-9.
- Matthews, Russell B., to Milwaukee Gas Specialty Co. Thermostat for low power circuits. 2,789,184, 4-16-57, Cl. 200-140.
- Matthews, Russell B., to Milwaukee Gas Specialty Co. Control device for fluid fuel burning apparatus and the like. 2,791,394, 5-7-57, Cl. 251-137.
- Matthews, Russell B., to Firth Carpet Co., Inc. Woven pile fabric. 2,794,449, 6-4-57, Cl. 139-401.
- Matthews, Walter E. Portable traction table. 2,792,481, 7-9-57, Cl. 128-71.
- Matthey, Andre M., to Metal Rolling and Tube Co. (Proprietary) Ltd. Heat-treatment of metal articles. 2,793,027, 5-21-57, Cl. 266-5.
- Matthias, Lynn H.: *See—*
Kniel, Wolfgang E., and Matthias. 2,817,774.
- Matthias, Lynn H., to Allen-Bradley Co. Auxiliary contact switch. 2,791,659, 5-7-57, Cl. 200-104.
- Matthias, Lynn H., to Allen-Bradley Co. Solid pole electromagnetic actuator for alternating current. 2,798,188, 7-2-57, Cl. 317-185.
- Matthiessent, Paul R.: *See—*
Mas, Robert J., and Matthiessent. 2,815,091.
- Mattiat, Oskar E.: *See—*
Short, William P., Goodman, and Mattiat. 2,789,281.
- Mattingly, John W., to Heath Engineering Co. Earth moving device. 2,815,591, 12-10-57, Cl. 37-156.
- Mattingly, Lawrence J., to Motorola Inc. Television receiver size control. 2,802,140, 8-6-57, Cl. 315-27.
- Mattingly, Lawrence J., to Motorola, Inc. Wide band amplifier. 2,807,662, 9-24-57, Cl. 178-7.5.
- Mattix, Emory D., to Citiles Service Refining Corp. Hydrocarbon separation. 2,804,939, 9-3-57, Cl. 183-114.6.
- Mattke, Charles F.: *See—*
Graham, Robert E., and Mattke. 2,779,819.
Graham, Robert E., and Mattke. 2,817,702.
- Mattner, Joachim, to Schering A. G. Process of producing polychloro benzenes from hexachloro cyclohexanes. 2,806,070, 9-10-57, Cl. 260-650.
- Mattox, William A., to General Electric Co. Elapsed time indicator. 2,791,473, 5-7-57, Cl. 340-213.
- Mattson, Charles A.: *See—*
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- Mattson, David F.: *See—*
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- Mattson, Edith M. Collapsible pastry board. 2,778,324, Wilson, Robert F., and Mattson. 2,779,702.
1-22-57, Cl. 107-46.
- Mattson, Emil. Hole punching device for hay balers. 2,804,820, 9-3-57, Cl. 100-98.
- Mattson, George R. Sheet rock carrier. 2,789,006, 4-16-57, Cl. 294-118.
- Mattson, Virgil J.: *See—*
Grady, Charles B., Jr. 2,777,985.
- Mattson, William G., deceased; G. M. Brillhart, administratrix. Eyeglass lens cleaner with material supply. 2,775,778, 1-1-57, Cl. 15-131.
- Mattsson, Karl-Henry: *See—*
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- Matulaitis, Victor E., to Elox Corp. of Michigan. Servo feed for multiple electrodes. 2,783,411, 2-26-57, Cl. 314-69.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Arc-machining. 2,794,152, 5-28-57, Cl. 315-171.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Precision punch and die set. 2,800,566, 7-23-57, Cl. 219-69.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Arc machining apparatus with periodic power control. 2,804,575, 8-27-57, Cl. 315-163.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Rough and finish machining with stepped electrode. 2,813,966, 11-19-57, Cl. 219-69.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Electrode wear compensation. 2,818,491, 12-31-57, Cl. 219-69.
- Matuszak, Alfred H., to Esso Research and Engineering Co. Complex ester synthetic lubricants. 2,815,368, 12-3-57, Cl. 260-484.
- Matuszak, Alfred H., W. E. McTurk, D. L. Cottle, and D. W. Young, to Esso Research and Engineering Co. Complex formal lubricating composition. 2,796,401, 6-18-57, Cl. 252-42.
- Matuszak, Alfred H., and H. R. Ready, to Esso Research and Engineering Co. Sulfur containing synthetic lubricating compositions. 2,796,405, 6-18-57, Cl. 252-48.6.
- Matuszak, Alfred H., W. W. Gleason, D. W. Young, and D. L. Cottle, to Esso Research and Engineering Co. Manufacture of synthetic lubricants in the presence of phenothiazine. 2,800,500, 7-23-57, Cl. 260-485.
- Matuszak, Alfred H., L. A. Mikeska, and J. H. Bartlett, to Esso Research and Engineering Co. Methylene ether esters as synthetic lubricants. 2,802,787, 8-13-57, Cl. 252-56.
- Mauch, Hans A. Ventilating cover. 2,791,168, 5-7-57, Cl. 98-1.
- Mauck, Victor, E. T. Duke, and A. B. Belfi, to Nicolet Industries, Inc. Method for producing pipe covering and the like. 2,788,840, 4-16-57, Cl. 154-28.
- Mauer, Karl F. Multiple valve mechanism. 2,791,236, 5-7-57, Cl. 137-608.
- Mauer, Paul B., to Eastman Kodak Co. Reflex sight having a dichroic beam-combining mirror. 2,780,130, 2-5-57, Cl. 88-2.3.
- Mange, Marcel R., and J. R. A. F. Escande, to International Standard Electric Corp. Apartment satellite circuits. 2,787,667, 4-2-57, Cl. 179-27.
- Mauget Co.: *See—*
Mauget, James J. 2,796,701.
- Mauget, James J., to Mauget Co. Tool for placing feeding tubes in plant stems. 2,796,701, 6-25-57, Cl. 47-57.5.
- Maul, Michael. Summary card punches. 2,799,452, 7-16-57, Cl. 235-61.1.
- Maul, Michael. Record card controlled recording machines. 2,803,190, 8-20-57, Cl. 101-93.
- Maul, Michael. Record card controlled machines. 2,803,403, 8-20-57, Cl. 235-61.7.
- Maul, Michael. Record card sorting machines. 2,803,404, 8-20-57, Cl. 235-61.11.
- Maul, Michael. Punched card controlled type printer. 2,814,985, 12-3-57, Cl. 101-33.
- Maul, Michael. Printing perforated record card controlled machines. 2,814,986, 12-3-57, Cl. 101-93.
- Maul, Michael. Record card controlled summary punch. 2,816,706, 12-17-57, Cl. 235-61.1.
- Maulshagen, Henry C.: *See—*
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- Maunoury, Francois M. L.: *See—*
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- Maure, Douglas R., and P. C. Gardiner, to General Electric Co. Electrical system. 2,787,727, 4-2-57, Cl. 315-22.

- Maurer, Albrecht. Annular clamping disc. 2,798,748, 7-9-57, Cl. 287-52.
- Maurer, Edward C. Self-service laundry and dry cleaning system. 2,805,747, 9-10-57, Cl. 194-51.
- Maurer, Emile. Device for providing the driver of an automobile with a clear view in both directions of a street he is about to enter. 2,783,683, 3-5-57, Cl. 88-86.
- Maurer, Franz: *See*—
Von Kotschubey, Nikolaus, Bugmann, and Maurer. 2,789,028.
- Maurer, Frederick J. Control for floats. 2,784,734, 3-12-57, Cl. 137-417.
- Maurer, John A., Jr.: *See*—
Goldhammer, Jerome S., and Maurer. 2,782,120.
- Maurer, Martin: *See*—
Adler, Samuel, Damon, and Maurer. 2,808,547.
- Maurer, Philip W.: *See*—
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- Maurer, Philip W., to General Motors Corp. Control means for clocks and the like. 2,779,154, 1-29-57, Cl. 58-109.
- Maurer, Philip W., to General Motors Corp. Vehicle refrigerating apparatus. 2,791,100, 5-7-57, Cl. 62-4.
- Maurer, Richard E., to Eastman Kodak Co. Process of pre-screening photographic material involving rehalogenation. 2,805,157, 9-3-57, Cl. 96-45.
- Maurer, Spencer B. Rotary impact tool. 2,784,625, 3-12-57, Cl. 81-523.
- Maurer, Spencer B., to Gardner-Denver Co. Impact tool with rotary position valve. 2,784,818, 3-12-57, Cl. 192-30.5.
- Maurel, Pierre. Moisture tester. 2,792,706, 5-21-57, Cl. 73-76.
- Maurice, Pierre, and P. Tavernier, to French State represented by the Ministry of National Defense. Gas generator. 2,779,281, 1-29-57, Cl. 102-39.
- Maurin, Alexandre, to Compagnie de Construction de Gros Materiel Electro Mecanique. Method of and apparatus for the protection of copper. 2,784,156, 3-5-57, Cl. 204-147.
- Mauss, Elfriede: *See*—
Mauss, Hans, Kolling, and Gönner. 2,786,845.
- Mauss, Hans, deceased (by E. Mauss, executrix), H. Kolling, and E. Gönner, to Schenley Industries, Inc. Isomeric mixtures of 6-methyl-5-chloro and 7-chloro-1,2,3,4-tetrahydroquinoline derivatives. 2,786,845, 3-26-57, Cl. 260-288.
- Maute, Robert L., to Monsanto Chemical Co. Purification of acrylonitrile. 2,784,217, 3-5-57, Cl. 260-465.9.
- Mauthe, Gustav: *See*—
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- Meister, Martin, and Mauthe. 2,809,088.
- Meister, Martin, Zorn, and Mauthe. 2,798,043.
- Mautone, Francesco F., and C. F. Hoffman, to Admiral Corp. Printed circuit connection and method of making same. 2,802,995, 8-13-57, Cl. 339-17.
- Mavity, Julian M., to Universal Oil Products Co. Etherification of hydroxyaromatic compounds. 2,782,239, 2-19-57, Cl. 260-613.
- Mavity, Julian M., to Universal Oil Products Co. Preparation of β -fluorocarboxylic acids. 2,798,091, 7-2-57, Cl. 260-533.
- Mavity, Julian M., to Universal Oil Products Co. Preparation of aromatic position isomers. 2,818,452, 12-31-57, Cl. 260-671.
- Mavor & Coulson Ltd.: *See*—
Sandeman, Cargill S., and Reed. 2,793,737.
- Thomson, James. 2,796,167.
- Mawera Maschinen-Werkzeuge-Apparate-G. m. b. H.: *See*—
Steiner, Rudolf. 2,782,817.
- Max, Harlev. Pump operated call device. 2,782,557, 2-26-57, Cl. 46-180.
- Max, Nicolaas: *See*—
Van Dijk, Christiaan P., Max, and de Jonge. 2,802,861.
- Max, Nicolaas, to Shell Development Co. Separation of mono-from dialkyl acid phosphates. 2,818,421, 12-31-57, Cl. 260-461.
- Maxant, Henry W., and W. H. Fardie, to Henrici Laundry Machinery Co. Necktie pressing machine. 2,786,617, 3-26-57, Cl. 223-82.
- Maxant, William T., C. De Paul, and B. M. Zeldis, to Chandler Machine Co. Button sewing machines. 2,781,734, 2-19-57, Cl. 112-114.
- Maxcy, William J.: *See*—
Mayhew, Raymond L., Stevens, and Maxcy. 2,799,659.
- Maxey, George E., to Alvin F. Johanson. Rotary earth excavating machine. 2,807,104, 9-24-57, Cl. 37-96.
- Maxim, Edward G., deceased, by J. P. Teeple, administrator. Colostomy bag. 2,808,830, 10-8-57, Cl. 128-283.
- Maxim, George. Axially projectable impact tool. 2,787,178, 4-2-57, Cl. 81-52.35.
- Maximilian, Octavian, to United Engineering and Foundry Co. Guide mechanism. 2,815,812, 12-10-57, Cl. 164-61.
- Maximoff, Paul A., to Malco Tool & Mfg. Co. Apparatus for dispensing and mounting terminal pins. 2,814,802, 12-3-57, Cl. 1-2.
- Maxlon, Emil J., to Chase Chemical Co. Process of preparing a thiothiazolone compound. 2,799,676, 7-16-57, Cl. 260-256.5.
- Maxlon, Emil J., to Chase Chemical Co. Process for the manufacture and purification of malononitrile. 2,799,697, 7-16-57, Cl. 260-465.2.
- Maxon, Glenway, Jr. Concrete mixing apparatus. 2,801,085, 7-30-57, Cl. 259-171.
- Maxon, Glenway, Jr. Method of and apparatus for simultaneously flame-cutting and hardening toothed objects. 2,816,848, 12-17-57, Cl. 148-9.
- Maxon, Karl E., to William W. Fitzhugh, Inc. Carton spout construction with closure. 2,811,297, 10-29-57, Cl. 229-17.
- Maxson, Louis A., to Joy Mfg. Co. Control for rock drills. 2,806,448, 9-17-57, Cl. 121-10.
- Maxson, W. L. Corp.: *See*—
Bracutt, Michael. 2,783,427.
- Weissman, Seymour. 2,809,241.
- Maxwell, Benson E. Device for marking positions of securing means for door and drawer pulls. 2,807,095, 9-24-57, Cl. 33-189.
- Maxwell, George E.: *See*—
Sheppard, Raymond, and Maxwell. 2,800,299.
- Maxwell, John. Hammer and torch. 2,799,026, 7-16-57, Cl. 7-8.
- Maxwell, Keaton B. Nursing bottle. 2,793,778, 5-28-57, Cl. 215-11.
- Maxwell, Paul M. Inflatable collision shield for vehicles. 2,806,737, 9-17-57, Cl. 296-84.
- Maxwell, Rodney L., to Cooperative Grange League Federation Exchange, Inc. Liquid fertilizer flow control. 2,802,435, 8-13-57, Cl. 111-7.
- Maxwell, William, and O. A. J. Gurton, to Imperial Chemical Industries Ltd. Blasting charge composition. 2,789,043, 4-16-57, Cl. 52-14.
- May, Allan S.: *See*—
Broughton, William W., Clifford, Friis, and May. 2,812,585.
- May, Arthur E., Jr., and B. M. Fingerut. Folding fence. 2,777,673, 1-15-57, Cl. 256-33.
- May & Baker Ltd.: *See*—
Barber, Harry J., and Green. 2,797,246.
- Barber, Harry J., Washbourn, and Wragg. 2,797,218.
- Heywood, Basil J. 2,818,425.
- May, Claude H., to The Murray Corp. of America. Inertia controlled fluid pressure suspension for vehicles. 2,778,656, 1-22-57, Cl. 280-124.
- May, Earl F. Ingot. 2,812,573, 11-12-57, Cl. 29-187.
- May, Edward M., to Meeco-Pilot Mfg. Co. Transmitter-controlled hydraulic servomotor apparatus. 2,794,424, 6-4-57, Cl. 121-41.
- May, Ernest C.: *See*—
Guthrie, Charles G., and May. 2,783,729.
- May, Frank H., to American Potash & Chemical Corp. Process for production of potassium tetraborate. 2,776,186, 1-1-57, Cl. 23-59.
- May, Frank H., to American Potash & Chemical Corp. Process for the manufacture of methyl borate. 2,808,424, 10-1-57, Cl. 260-462.
- May, Frederick T., to Westinghouse Electric Corp. Incandescent lamp. 2,777,082, 1-8-57, Cl. 313-43.
- May, George R., $\frac{1}{2}$ to J. M. May. Photographic enlarger. 2,789,459, 4-23-57, Cl. 88-24.
- May, Harold F., to The Teleregister Corp. Magnetic disk scanning device with channel selector for concentric circular track scanning. 2,800,642, 7-23-57, Cl. 340-174.
- May, Harold V., to Sprague Electric Co. Terminal connections for can-type condensers. 2,812,381, 11-5-57, Cl. 174-153.
- May, Harry C., to Westinghouse Air Brake Co. Pressure and vacuum brake systems interlock apparatus. 2,804,352, 8-27-57, Cl. 303-4.
- May Hosiery Mills: *See*—
Minton, Clarence W., and O'Hara. 2,799,149.
- May, James I., to Ford Motor Co. Expanding arbor. 2,790,246, 4-30-57, Cl. 33-178.
- May, Jean M.: *See*—
May, George R. 2,789,459.
- May, Joseph E.: *See*—
Tingley, Bruce H., and May. 2,792,986.
- May, Kenneth R., to National Research Development Corp. Micromanipulating devices. 2,800,055, 7-23-57, Cl. 88-40.
- May, Paul D., and J. T. Kelly, to The American Oil Co. Ethylation process. 2,804,491, 8-27-57, Cl. 260-683.4.
- May, Richard D., to The Reflectone Corp. Driftmeter simulator. 2,792,646, 5-21-57, Cl. 35-10.2.
- May, Richard D., and N. B. Mickelson, to The Reflectone Corp. Driftmeter simulator. 2,792,645, 5-21-57, Cl. 35-10.2.
- May, Theodore F., and C. R. Edgerly, to Westinghouse Electric Corp. Apparatus for withdrawing masking material from bulbs. 2,811,394, 10-29-57, Cl. 302-17.
- May, Walter G.: *See*—
Cooper, William M., Jr., Upchurch, Schulman, and May. 2,789,942.
- Schulman, Bernard L., and May. 2,776,566.
- May, Walter G., to Esso Research and Engineering Co. Apparatus for flowing coarse solids. 2,789,868, 4-23-57, Cl. 302-51.
- May, Walter G., and S. H. Dole, to Esso Research and Engineering Co. Contacting fluids with subdivided solids for short contact times. 2,799,095, 7-16-57, Cl. 34-10.
- Maybach-Motorenbau G. m. b. H.: *See*—
Gros, Hermann. 2,787,172.
- Von Mallinckrodt, Werner. 2,778,347.
- Maybury, Paul C., and P. D. Ulm, to the United States of America as represented by the Secretary of the Navy. Apparatus for measuring attenuation. 2,797,388, 6-25-57, Cl. 324-58.5.

- Maybury, Paul C., and G. Wilkes, to the United States of America as represented by the Secretary of the Navy. Radio frequency antenna. 2,801,412, 7-30-57, Cl. 343-753.
- Maycrete Ltd.: *See*—
- Lintott, John. 2,792,595.
- Mayer, Abbott F., and H. B. Rooks, to Collins Radio Co. Self-braking shaft positioning means. 2,810,875, 10-22-57, Cl. 318-369.
- Mayer, Arthur. Disk time indicating device. 2,785,530, 3-19-57, Cl. 58-126.
- Mayer, Arthur L., and C. M. Mengani, to Sperry Rand Corp. Ignition repression control system. 2,809,344, 10-8-57, Cl. 324-19.
- Mayer, Carl H., Jr., to Safe, Inc. Aerosol dispenser. 2,785,838, 3-19-57, Cl. 222-394.
- Mayer, Elayne. Blouse-shirt with removable crotch panty bottom. 2,789,290, 4-23-57, Cl. 2-77.
- Mayer, Herbert. Table lighter. 2,781,652, 2-19-57, Cl. 67-4.1.
- Mayer, James W., to the United States of America as represented by the Secretary of the Army. Lightweight rocket launcher. 2,800,835, 7-30-57, Cl. 89-1.7.
- Mayer, Joseph: *See*—
- Johnson, David G., and Mayer. 2,804,101.
- Mayer, Julius. Tie holder. 2,790,221, 4-30-57, Cl. 24-49.
- Mayer, Karl P. Venetian blind construction. 2,792,880, 5-21-57, Cl. 160-115.
- Mayer, Louis J., Sr., to Brown & Bigelow. Pyrophoric gas lighter. 2,810,282, 10-22-57, Cl. 67-7.1.
- Mayer, Michael. Adjustable carpenter square. 2,797,487, 7-2-57, Cl. 33-112.
- Mayer, Nathan. Collapsible leg assemblies for table top. 2,778,700, 1-22-57, Cl. 311-77.
- Mayer, Nathan. Knock down furniture assembly. 2,813,576, 11-19-57, Cl. 155-196.
- Mayer, Oscar, & Co., Inc.: *See*—
- Seiferth, Oscar E. 2,787,552.
- Mayer, Peter C.: *See*—
- Olson, Robert L., Harrington, and Mayer. 2,816,037.
- Mayer, Peter J., and F. J. Kaminski. Archery bow. 2,818,057, 12-31-57, Cl. 124-23.
- Mayer, Raymond P.: *See*—
- Morris, Leo R., and Mayer. 2,803,668.
- Mayer, Robert: *See*—
- Lefcourt, Stanley W., and Mayer. 2,798,927.
- Mayer, Robert. Foldable lunch box. 2,792,144, 5-14-57, Cl. 220-6.
- Mayer, Victor K.: *See*—
- Asheim, Bernard B., and Mayer. 2,816,624.
- Mayer, Victor K. Hydraulic piston parking dolly. 2,815,136, 12-3-57, Cl. 214-95.
- Mayer, Willi. Machinery for molding and cutting out pieces of plastic material from a web. 2,790,399, 4-30-57, Cl. 107-26.
- Mayerle, Evan A.: *See*—
- Carmody, Don R., Mayerle, and Zletz. 2,810,257.
- Mayernik, Stephen G., to Standard Oil Co. Tool for turning rings in gate valves. 2,802,384, 8-13-57, Cl. 81-72.
- Mayers, George. Exercising apparatus. 2,790,439, 4-30-57, Cl. 128-25.
- Mayer, Behrman. Protective garment. 2,798,489, 7-9-57, Cl. 128-283.
- Mayer, Clell C. Erasing device having a projectable and retractable eraser. 2,815,002, 12-3-57, Cl. 120-38.
- Mayer, Fred M., to Sun Oil Co. Elevation meter. 2,780,753, 2-5-57, Cl. 315-252.
- Mayer, Fred M., to Sun Oil Co. Depth measuring system for wire lines. 2,782,515, 2-26-57, Cl. 33-129.
- Mayer, Fred M., to Sun Oil Co. Electrical prospecting method and apparatus. 2,790,137, 4-23-57, Cl. 324-1.
- Mayer, Fred M., to Sun Oil Co. Tubing caliper. 2,799,946, 7-23-57, Cl. 33-178.
- Mayer, Fred M., to Sun Oil Co. Elevation meter. 2,818,503, 12-31-57, Cl. 250-27.
- Mayeux, Jean M. Centrifugal machine for separating and clarifying liquids. 2,808,201, 10-1-57, Cl. 233-28.
- Mayeux, Samuel J., Jr.: *See*—
- Delaune, Elaine T., Wilson, and Mayeux. 2,805,262.
- Mayeux, Samuel J., Jr., to Esso Research and Engineering Co. Process and apparatus for liquid-liquid extraction. 2,776,329, 1-1-57, Cl. 260-677.
- Mayfab, Inc.: *See*—
- Davis, Michael. 2,797,779.
- Mayfield, George C., to McQuay-Norris Mfg. Co. Piston ring elements. 2,811,399, 10-29-57, Cl. 309-44.
- Mayfield, George C., to McQuay-Norris Mfg. Co. Process for molding piston rings. 2,811,762, 11-5-57, Cl. 22-212.
- Mayhan, Leonard O., Jr., to General Electric Co. Electrical control system for clothes dryer. 2,789,367, 4-23-57, Cl. 34-45.
- Mayhew, Charles H.: *See*—
- Keel, Donald K., and Mayhew. 2,784,175.
- Mayhew, Eldon J. Method and composition for controlling lost circulation in well drilling operations. 2,812,161, 11-5-57, Cl. 255-1.8.
- Mayhew, Raymond L.: *See*—
- Beiswanger, John P. G., and Mayhew. 2,814,593.
- Jelinek, Charles F., Mayhew, and Yeager. 2,781,320.
- Mayhew, Raymond L., and J. A. Yeager, to General Aniline & Film Corp. All purpose detergent bar. 2,781,321, 2-12-57, Cl. 252-161.
- Mayhew, Raymond L., C. E. Stevens, and W. J. Maxcy, to General Aniline & Film Corp. Corrosion inhibition. 2,799,659, 7-16-57, Cl. 252-392.
- Mayhew, William R.: *See*—
- Mason, Veyne V., Mayhew, Schroeder, and Hirtenstein. 2,786,399.
- Mayhill Noble, to Wichita Precision Tool Co., Inc. Pillow case and structure for coupling the same to feather cleaning apparatus. 2,818,089, 12-31-57, Cl. 141-67.
- Mayhill, Noble, and C. S. Brandt, to The Cobey Corp. Swivel discharge stack for agricultural harvester. 2,778,510, 1-22-57, Cl. 214-42.
- Maykemper, Henry. Hand pressing steam iron. 2,797,507, 7-2-57, Cl. 38-77.
- Maykuth, Daniel J.: *See*—
- Jaffee, Robert I., and Ogden, and Maykuth. 2,779,677.
- Jaffee, Robert I., Ogden, and Maykuth. 2,797,996.
- Jaffee, Robert I., Ogden, and Maykuth. 2,798,806.
- Mayland, Bertrand J., to Phillips Petroleum Co. System for gasifying coal. 2,794,724, 6-4-57, Cl. 48-73.
- Maylott, Carleton F.: *See*—
- Dye, Edward R., Naulty, and Maylott. 2,789,198.
- Maynard, Arthur H., to Bostitch, Inc. Stapling machine. 2,775,764, 1-1-57, Cl. 1-49.
- Maynard, Arthur H., to Bostitch, Inc. Riser structure for fastener-applying implements. 2,798,219, 7-9-57, Cl. 1-3.
- Maynard, Fred B., to National Union Electric Corp. Incrementally extensible cathode glow indicator tube. 2,814,001, 11-19-57, Cl. 315-84.6.
- Maynard, George B. Picture frame. 2,809,454, 10-15-57, Cl. 40-152.1.
- Maynard, John E.: *See*—
- Brock, Robert L., Maynard, McCarthy, and Ross. 2,787,744.
- Maynard, John E., L. T. Thomasson, and F. Hamilton, to Boeing Airplane Co. Shaft positioning binary digital to analog conversion system. 2,796,566, 6-18-57, Cl. 318-28.
- Maynard, John E., and O. W. Ritchey, to Boeing Airplane Co. Variable attenuation control circuits. 2,808,474, 10-1-57, Cl. 179-171.
- Maynard, John E., and R. L. Brock, to Boeing Airplane Co. Bistable oscillation trigger circuits. 2,808,513, 10-1-57, Cl. 250-36.
- Maynard, John T., to A. O. Smith Corp. Dynamoelectric machine construction. 2,777,962, 1-15-57, Cl. 310-86.
- Mayne, Daniel I., Jr.: *See*—
- Farrell, Thomas H., Kugler, and Mayne. 2,816,027.
- Mayne, Gordon C.: *See*—
- Mayne, Norman L. and G. C. 2,815,510.
- Mayne, Norman L. and G. C. to J. L. McDonald. Sanitary unit. 2,815,510, 12-10-57, Cl. 4-79.
- Mayne, Robert A. Surface plate. 2,807,883, 10-1-57, Cl. 33-174.
- Mayne, Robert A. Hub. 2,812,199, 11-5-57, Cl. 287-52.09.
- Maynor, Eugene A., to Maynor Research Foundation, Inc. Drainage means for chemical reaction turbines. 2,787,885, 4-9-57, Cl. 60-39.09.
- Maynor Research Foundation, Inc.: *See*—
- Maynor, Eugene A. 2,787,885.
- Mayo, Clyde R.: *See*—
- Crumrine, Herbert E., Lewis, and Mayo. 2,781,705.
- Crumrine, Herbert E., and Mayo. 2,784,694.
- Lewis, William G., Mayo, and Wolfe. 2,816,493.
- Mayo, Clyde R., to The Haloid Co. Corona discharge device and method of xerographic charging. 2,778,946, 1-22-57, Cl. 250-49.5.
- Mayo, Clyde R., and E. R. Sabel, to The Haloid Co. Xerographic copier. 2,781,704, 2-19-57, Cl. 95-1.7.
- Mayo, Edward L., to The Bishop & Babcock Mfg. Co. Thermostatic valve with solid actuator member. 2,786,633, 3-26-57, Cl. 236-34.
- Mayo, Elizabeth C.: *See*—
- O'Leary, Francis M., Mayo, Alexander, and Kaltenbach. 2,796,208.
- Mayo, Frank R.: *See*—
- Russell, Glen A., and Mayo. 2,794,055.
- Mayo, Payton C., and W. L. Hollander, to A. B. Chance Co. Air break switches. 2,816,971, 12-17-57, Cl. 200-48.
- Mayo, Richard W.: *See*—
- Chertock, George, and Mayo. 2,811,984.
- Mayor, Rowland H., to The Goodyear Tire & Rubber Co. Side-chain halogenation of aromatic hydrocarbons. 2,817,632, 12-24-57, Cl. 204-163.
- Mayor, Rowland H., to The Goodyear Tire & Rubber Co. Side-chain halogenation of aromatic compounds. 2,817,633, 12-24-57, Cl. 204-163.
- Mayr, Arthur: *See*—
- Rausch, Werner, and Mayr. 2,791,525.
- Mayrath, Thomas L. Apparatus for making helical conveyor blades by edgewise bending and squeezing rolls. 2,815,790, 12-10-57, Cl. 153-2.
- Mays, Artrice A. Electrically operated scissors or shears. 2,799,928, 7-23-57, Cl. 30-228.
- Maysilles, Lynn A., to Industrial Wire Cloth Products Corp. Floating oil screens. 2,782,934, 2-26-57, Cl. 210-170.

- Maytag Co., The: *See*—
Smith, Thomas R. 2,789,698.
Smith, Thomas R., and Scott. 2,777,314.
- Mayurnik, George: *See*—
Scudi, John V., Duesel, and Mayurnik. 2,789,980.
- Mayurnik, George, to R. S. Aries. Preparation of para-nitrobenzoic acid. 2,815,373, 12-3-57, Cl. 260—524.
- Mayville Metal Products Co.: *See*—
Stadthaus, Alfred C. 2,788,232.
- Mazer, Fannie: *See*—
Mazer, Jacob. 2,779,429.
- Mazer, Jacob, deceased; F. Mazer, R. M. Simon, and E. M. Rosenberg, executrices; assors. of 20% to R. M. Simon, 20% to E. M. Rosenberg, and 60% to R. M. Simon and E. M. Rosenberg, as trustees. Sound absorbing structure. 2,779,429, 1-29-57, Cl. 181—33.
- Mazur, Raymond A.: *See*—
Bangs, Howard T., and Mazur. 2,791,573.
- Mazur, Robert H., to G. D. Searle & Co. 3,12-dioxygenated 12a-aza-C-homospirostans. 2,806,028, 9-10-57, Cl. 260—239.3.
- Mazur, Robert H., to G. D. Searle & Co. 3-oxygenated 12-aza-C-homopregnane-12,20-diones and congeners. 2,806,029, 9-10-57, Cl. 260—239.3.
- Mazur, Robert H., to G. D. Searle & Co. Benzoquinone adducts of $\Delta^{5,10,20}$ and $\Delta^{3,5,16,20}$ dioxygenated steroids. 2,812,335, 11-5-57, Cl. 260—397.4.
- Mazur, Robert H., to G. D. Searle & Co. 16-cyano and 16-cyanoalkyl 3,20-dioxygenated pregnenes. 2,817,671, 12-24-57, Cl. 260—397.3.
- Mazur, Wilfred E.: *See*—
Speake, Sumpter M., and Mazur. 2,791,940.
- Mazza, Harold, S. L. Cohen, and G. H. Schafer, to American Potash & Chemical Corp. Use of amblygonite as an additive in the lime-roasting of lithium-aluminosilicate ores. 2,776,201, 1-1-57, Cl. 75—1.
- Mazza, Harold, S. L. Cohen, and G. H. Schafer, to American Potash & Chemical Corp. Use of lepidolite as an additive in the lime-roasting of lithium-aluminosilicate ores. 2,776,202, 1-1-57, Cl. 75—1.
- Mazzarins, Janis: *See*—
Armington, Raymond Q., Carroll, Mazzarins, and Williams. 2,786,724.
- Mazzetti, Rinaldo: *See*—
Marullo, Gerlando, and Mazzetti. 2,812,829.
- Mazziotti, Philip J.: *See*—
Burkhalter, Robert R., and Mazziotti. 2,794,693.
- Mazzola, Ambrose, to Angelus Engineering Corp. Electrically driven turbine type fluid coupling unit. 2,777,292, 1-15-57, Cl. 60—54.
- Mazzola, Ambrose. Electrical control switch. 2,806,907, 9-17-57, Cl. 200—5.
- Mazon, Corrado. Device for measuring the parallel displacement of the line of sight for optical instruments. 2,792,741, 5-21-57, Cl. 88—1.
- McAdams, Harley H. Wire stretcher and splicer. 2,799,298, 7-16-57, Cl. 140—117.
- McAfee, Kenneth B., to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. 2,790,034, 4-23-57, Cl. 179—171.
- McAfoos, Herbert W. Threading device for calender rollers. 2,776,605, 1-8-57, Cl. 92—74.
- McAleer, William: *See*—
Dulaney, Eugene L., and McAleer. 2,802,775.
Dulaney, Eugene L., and McAleer. 2,813,060.
- McAllister, Craig L., to McGraw Electric Co. Protectors for electric circuits. 2,790,049, 4-23-57, Cl. 200—142.
- McAllister, Decker G., W. J. Parsons, and H. E. Mescher, to Pacific Scientific Co. Heat treating furnace. 2,784,243, 3-5-57, Cl. 13—20.
- McAllister, Gordon: *See*—
Heise, Howard L., and McAllister. 2,805,172.
- McAllister, James A.: *See*—
Pinkerton, Dale F., and McAllister. 2,801,677.
- McAllister, Robert T.: *See*—
Moore, Benjamin T., and McAllister. 2,786,607.
- McAlpine, James K.: *See*—
Hogue, Benton, and McAlpine. 2,816,359.
- McAlpine, Kenneth B., and D. W. Rinehart, to Pittsburgh Plate Glass Co. Radiation detection. 2,782,319, 2-19-57, Cl. 250—83.
- McAninch, Daniel A.: *See*—
Lehman, Charles F., Jr., and McAninch. 2,789,455.
- McArdle, Beryl L., to General Dynamics Corp. Time selection circuit. 2,792,525, 5-14-57, Cl. 315—84.5.
- McArn, Theodore A.: *See*—
Merritt, Harry C., and McArn. 2,783,041.
- McArthur, Bruce E., to Magnethermic Corp. Induction furnaces. 2,781,437, 2-12-57, Cl. 219—10.49.
- McArthur, Donald A., and A. R. Geiszler, to The Wean Engineering Co., Inc. Apparatus and method for speed and strip tracking control. 2,797,918, 7-2-57, Cl. 271—2.3.
- McArthur, Donald W., to Michle-Goss-Dexter, Inc. File card structure. 2,799,107, 7-16-57, Cl. 40—159.
- McArthur, Elmer D., to General Electric Co. Ultra-high frequency discharge device. 2,792,520, 5-14-57, Cl. 315—5.37.
- McArthur, Elmer D., to General Electric Co. Gaseous arc high frequency generator. 2,792,524, 5-14-57, Cl. 315—40.
- McArthur, Elmer D., to General Electric Co. High frequency electron discharge device and system. 2,793,316, 5-21-57, Cl. 315—5.44.
- McArthur, Elmer D., to General Electric Co. Electron discharge device. 2,813,997, 11-19-57, Cl. 315—5.46.
- McAteer, James H.: *See*—
Banes, Fred W., and McAteer. 2,805,199.
Boggs, Jesse K., Ford, and McAteer. 2,778,807.
Nelson, Joseph F., and McAteer. 2,789,134.
Wiese, Herbert H., and McAteer. 2,781,397.
- McAuley, James W.: *See*—
McCown, William E., and McAuley. 2,784,119.
- McBean, Douglas M., to Carter Products, Inc. Apparatus for charging volatile propellant. 2,789,586, 4-23-57, Cl. 141—20.
- McBean, Douglas M., and L. C. Tallman, to Douglas M. McBean, Inc. Machine for filling containers with powdered and flaky materials. 2,815,046, 12-3-57, Cl. 141—79.
- McBean, Douglas M., Inc.: *See*—
McBean, Douglas M., and Tallman. 2,815,046.
- McBean, James M., to the United States of America as represented by the Secretary of the Navy. Vacuum tube filament control. 2,805,385, 9-3-57, Cl. 323—66.
- McBee, Earl T., and O. R. Pierce, to Purdue Research Foundation. Fluorine-containing siloxanes. 2,777,870, 1-15-57, Cl. 260—448.8.
- McBee, Harry B., to Royal McBee Corp. Swing hinge prong binder. 2,791,220, 5-7-57, Cl. 129—24.
- McBee, Warren D.: *See*—
Sege, Thomas D., and McBee. 2,786,185.
- McBerty, Robert K. Folding door. 2,795,272, 6-11-57, Cl. 160—199.
- McBeth, James K.: *See*—
Addison, Tom, and McBeth. 2,796,793.
- McBride, Byron V., to Westinghouse Electric Corp. Combined cleaning solution, protective coating and soldering flux composition. 2,805,970, 9-10-57, Cl. 148—23.
- McBride, Charles B., and P. F. Best, to The Thermix Corp. Apparatus for separated suspended mist particles from gases. 2,792,075, 5-14-57, Cl. 183—34.
- McBride, Edward J. Pirn or cone holder. 2,790,610, 4-30-57, Cl. 242—130.
- McBride, John A., to Phillips Petroleum Co. Centrifuge. 2,795,635, 6-11-57, Cl. 260—674.
- McBride, John W., to Bantar, Inc. Electromagnetically operated musical instrument. 2,776,591, 1-8-57, Cl. 84—1.27.
- McBride, John W., to Bantar, Inc. Wind musical instrument with helical frequency determining means. 2,806,399, 9-17-57, Cl. 84—386.
- McBride, Joseph J., Jr., to Tidewater Oil Co. Oxidation-inhibited mineral oil compositions. 2,779,738, 1-29-57, Cl. 252—49.6.
- McBride, Joseph J., Jr., to Tidewater Oil Co. Process of preparing pour point depressants by catalytic condensation of haloalkyl alkylated phenol ether. 2,779,798, 1-29-57, Cl. 260—612.
- McBride, Joseph J., Jr., to Tidewater Oil Co. Addition products of propenoic acid nitriles and acidic, phosphorus- and sulfur-containing products. 2,806,845, 9-17-57, Cl. 260—125.
- McBride, Morris M., to Eldon Co. Combination display table and case. 2,778,703, 1-22-57, Cl. 312—265.
- McBride, Russel E., and H. E. Porter, to Fishing Fun, Inc. Fishing float construction. 2,784,515, 3-12-57, Cl. 43—15.
- McCabe, Charles P., to Republic Steel Corp. Mine roof bolts with multiple piece shell having U-shaped spring holding means. 2,787,931, 4-9-57, Cl. 85—2.4.
- McCabe, Daniel U. Sectional check valve housing with clamping means. 2,803,424, 8-20-57, Cl. 251—145.
- McCabe, Edmond B. Reflector for automobiles or the like. 2,811,899, 11-5-57, Cl. 88—81.
- McCabe, Ira E. Temperature responsive device. 2,776,353, 1-1-57, Cl. 200—136.
- McCabe, John B., to Cherry-Burrell Corp. Bottle pocket. 2,804,966, 9-3-57, Cl. 198—131.
- McCabe, John J., Jr.: *See*—
Mannheimer, Hans S. 2,781,353—2,781,357.
Mannheimer, Hans S. 2,781,376.
Mannheimer, Hans S. 2,781,378.
- McCabe-Powers Auto Body Co.: *See*—
Balogh, Roy O. 2,777,737.
Balogh, Roy O. 2,786,580.
Balogh, Roy O. 2,786,581.
- McCaffrey, David J., Sr. Welding electrode tip. 2,795,688, 6-11-57, Cl. 219—119.
- McCaffrey, Francis H. G., and W. E. Hamilton, to Canadian Industries Ltd. Short interval delay blasting device. 2,796,834, 6-25-57, Cl. 102—27.
- McCahon, John O., and R. G. Proctor, to R. R. Donnelley & Sons Co. Machine for feeding books to a casing-in machine. 2,777,562, 1-15-57, Cl. 198—34.
- McCain, W. T.: *See*—
Thomisee, Lanie. 2,813,369.
- McCain, William G. Fuel injector. 2,816,745, 12-17-57, Cl. 261—23.
- McCaleb, Elman R., to B. K. Sweeney Mfg. Co. Tools for applying line clamps. 2,814,860, 12-3-57, Cl. 29—268.
- McCall, Clarence I.: *See*—
Meyer, Alfonso H. 2,778,049.
- McCall, Clarence I., to The Lewis Engineering Co. Sheathed electric cable. 2,794,062, 6-28-57, Cl. 174—77.
- McCall, Clarence I., $\frac{1}{2}$ to M. N. Forde. Scouring pad holder. 2,799,038, 7-16-57, Cl. 15—209.
- McCall, Floyd and L. Tractor pulled apparatus. 2,785,615, 3-19-57, Cl. 97—46.27.

- McCall, James E. Adjustable school desk and seat. 2,791,266, 5-7-57, Cl. 155-4.
- McCall, Lloyd: *See*—
- McCall, Floyd and L. 2,785,615.
- McCall, Martin T. Pneumatically and manually operated stroboscope. 2,796,798, 6-25-57, Cl. 88-14.
- McCall, Richard H., to The Texas Co. Device for preventing corrosion. 2,817,634, 12-24-57, Cl. 204-197.
- McCallum, Donald A.: *See*—
- Rowbotham, William R., and McCallum. 2,806,338.
- McCallum, Donald M.: *See*—
- Alexander, William H., Arnott, and McCallum. 2,817,077.
- McCallum, Hugh: *See*—
- Austin, Eric P., and McCallum. 2,816,657.
- McCallum, Robert A., to Goodman Mfg. Co. Hose guide and aligning means for transmitting fluid under pressure over the roll-over joint of a kerf cutting machine. 2,788,203, 4-9-57, Cl. 262-28.
- McCallum, Robert A., to Goodman Mfg. Co. Hydraulic circuit for cutoff device or the like. 2,795,933, 6-18-57, Cl. 60-97.
- McCallum, Robert A., to Goodman Mfg. Co. Belt conveyor supported upon spaced flexible strands. 2,805,763, 9-10-57, Cl. 198-192.
- McCallum, Robert A., to Goodman Mfg. Co. Cutter bar. 2,811,342, 10-29-57, Cl. 262-28.
- McCallum, Robert A., and G. W. Miller, to Goodman Mfg. Co. Steering, braking and tramming control for mine vehicles. 2,811,231, 10-29-57, Cl. 192-18.
- McCamish, Harley M., and B. S. Everett. Mounting for pressure relief valve. 2,800,912, 7-30-57, Cl. 137-68.
- McCandless, William. Speedometer driving means. 2,782,020, 2-19-57, Cl. 264-2.
- McCandlish, Charles S., to E. I. du Pont de Nemours and Co. Recovery of amines from coagulating baths. 2,787,618, 4-2-57, Cl. 260-247.
- McCann, Donald J. Electron tube mounting device. 2,807,789, 9-24-57, Cl. 339-112.
- McCann-Erickson Inc.: *See*—
- Faranda, Anthony. 2,811,811.
- McCann, Joe G.: *See*—
- Weil, Frederick M., Ingalsbe, Stein, and McCann. 2,786,198.
- Weil, Frederick M., Stein, and McCann. 2,800,657.
- McCardell, William M.: *See*—
- Graham, John W., McCardell, Osoba, and Richardson. 2,792,894.
- McCarney, Henry L., to Northrop Aircraft, Inc. Wire extractor. 2,780,120, 2-5-57, Cl. 81-9.5.
- McCarran, Thomas A., $\frac{1}{2}$ to Kaiser Metal Products, Inc., and $\frac{1}{2}$ to Sears, Roebuck and Co. Cabinet trim member. 2,812,559, 11-12-57, Cl. 20-74.
- McCarthy, Anthony A., to The Nu Nite Lite Co. Night lamp with receptacle. Re. 24,393, 11-19-57, Cl. 240-2.
- McCarthy, Charles N., to General Motors Corp. Final drive means. 2,795,969, 6-18-57, Cl. 74-710.
- McCarthy, Charles N., to General Motors Corp. Transmission control. 2,811,865, 11-5-57, Cl. 74-477.
- McCarthy, Clarence M.: *See*—
- Eatinger, Cloyde B. 2,799,526.
- McCarthy, Clinton J. Sugar dispenser. 2,815,153, 12-3-57, Cl. 222-441.
- McCarthy, Edwin L. Apparatus for cleaning flat bottom grain tanks with side draw-off. 2,790,563, 4-30-57, Cl. 214-17.
- McCarthy, F. J., Inc.: *See*—
- Greeley, Leo O. 2,778,340.
- Greeley, Leo O. 2,792,021.
- McCarthy, Francis J. Electrical device for locating items of merchandise in stores. 2,808,579, 10-1-57, Cl. 340-225.
- McCarthy, George F., Jr. Wind and spray shield. 2,817,859, 12-31-57, Cl. 9-1.
- McCarthy, Henry J., to Bomac Laboratories Inc. Electrode structure for transmit-receive switching devices. 2,783,414, 2-26-57, Cl. 315-41.
- McCarthy, Henry J., to Bomac Laboratories Inc. Method of positioning electrode assembly in transmit-receive devices. 2,801,147, 7-30-57, Cl. 316-1.
- McCarthy, Henry L., as Commissioner of Welfare of the City of New York: *See*—
- Ryan, William. 2,793,274.
- McCarthy, John H., and N. E. Risk, to Caterpillar Tractor Co. Gear case. 2,782,656, 2-26-57, Cl. 74-606.
- McCarthy, Lawrence A., to Western Electric Co., Inc. Call-brating machine. 2,782,368, 2-19-57, Cl. 324-62.
- McCarthy, Paul R., to Gulf Research & Development Co. Semi-fluid lubricant. 2,816,869, 12-17-57, Cl. 252-57.
- McCarthy, Philip J. Sink mounting frame. 2,790,181, 4-30-57, Cl. 4-187.
- McCarthy, Robert C.: *See*—
- Brook, Robert L., Maynard, McCarthy, and Ross. 2,787,744.
- McCartney, Daniel E., to Universal Oil Products Co. Centrifugal separator. 2,788,547, 3-26-57, Cl. 183-83.
- McCarty, Dale E.: *See*—
- Forry, Donald R., and Tryon. 2,815,624.
- McCarty, Dale E. Packaging machine. 2,811,818, 11-5-57, Cl. 53-321.
- McCarty, Horace G.: *See*—
- Happe, Melvin J., and McCarty. 2,781,626.
- McCarty, Lourdes V., and R. L. Vicenzi, to Controls Co. of America. Thermostatic modulating and snap-acting gas control valve. 2,807,422, 9-24-57, Cl. 236-48.
- McCarty, Malcolm D., to Socony Mobil Oil Co., Inc. Selective mixing of seismic signals. 2,794,966, 6-4-57, Cl. 340-15.
- McCarty, Verle E.: *See*—
- Redick, David C., and McCarty. 2,790,020.
- McCarty, Verle E., to General Motors Corp. Terminal. 2,788,386, 4-9-57, Cl. 174-153.
- McCarty, Verle E., to General Motors Corp. Ignition timer. 2,788,401, 4-9-57, Cl. 200-30.
- McCauley, Edward W., and S. W. Jessop, to Jervis B. Webb Co. Rail terminal drive line installation. 2,803,198, 8-20-57, Cl. 104-170.
- McCauley, David A.: *See*—
- Lien, Arthur P., and McCauley. 2,784,242.
- Lien, Arthur P., and McCauley. 2,795,630.
- McCauley, David A., to Standard Oil Co. Anhydrous cupric fluoride. 2,784,059, 3-5-57, Cl. 23-88.
- McCauley, David A., to Standard Oil Co. Tetramethylbenzene production. 2,803,681, 8-20-57, Cl. 260-668.
- McCauley, David A., to Standard Oil Co. Tetraalkylbenzene process. 2,814,651, 11-26-57, Cl. 260-668.
- McCauley, David A., to Standard Oil Co. Preparation of cuprous fluoride. 2,817,576, 12-24-57, Cl. 23-88.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Ethylbenzene from C₈ aromatic hydrocarbons. 2,780,659, 2-5-57, Cl. 260-668.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Separation of 1 ethyl 3, 5, dimethyl benzene from diethyl benzene by disproportionating the latter in the presence of H-F-Bs. 2,785,211, 3-12-57, Cl. 260-674.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Secondary alkyltoluene production. 2,795,632, 6-11-57, Cl. 260-671.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Mono-*t*-butylxylene by alkylation. 2,803,682, 8-20-57, Cl. 260-671.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Mono-*sec*-alkylxylenes by alkylation. 2,803,683, 8-20-57, Cl. 260-671.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. 1,3,5-ethylxylene recovery. 2,803,687, 8-20-57, Cl. 260-674.
- McClain, Harry W. Control mechanism for fuel gasifiers. 2,815,013, 12-3-57, Cl. 123-120.
- McClain, Richard L., to J. A. Howard. Indexing turret. 2,800,334, 7-23-57, Cl. 279-51.
- McClain, Robert R.: *See*—
- Harter, Isaac, Jr., Ratcliffe, and McClain. 2,804,663.
- McClary, Jack B., to the United States of America as represented by the Secretary of the Air Force. Flow-responsive control device. 2,790,868, 4-30-57, Cl. 200-81.9.
- McClean, Malcolm: *See*—
- Scott, Clarence R., and McClean. 2,782,514.
- McClearen, Gilbert A., to J. C. Taylor, as trustee. Power mower with endless belt cutting means. 2,782,582, 2-26-57, Cl. 56-25.
- McClearen, William M. Jet tube valve. 2,783,772, 3-5-57, Cl. 137-444.
- McClellan, Frank, to Huron Specialty Co. Pressure switch. 2,780,693, 2-5-57, Cl. 200-86.
- McClellan, Henry A.: *See*—
- Locke, Peachie S. 2,802,220.
- McClellan, Herbert J. Rack and pinion gearing. 2,782,648, 2-26-57, Cl. 74-90.
- McClellan, Marcus E.: *See*—
- Hill, George B., and McClellan. 2,809,574.
- McClellan, Marcus E., to Deere Mfg. Co. Baler tier signal. 2,781,018, 2-12-57, Cl. 116-67.
- McClellan, Marcus E., to Deere Mfg. Co. Flail type pick-up and baler assembly. 2,817,945, 12-31-57, Cl. 56-341.
- McClellan, Ralph E., to Mellick Steel Safe Co. Table with retractable casters. 2,788,219, 4-9-57, Cl. 280-44.
- McClellan, Ralph E., to Mellick Steel Safe Co. Bolt locking mechanism. 2,810,616, 10-22-57, Cl. 312-218.
- McClelland, Clarence P.: *See*—
- Makela, Armas G., McClelland, and Wernig. 2,800,676.
- McClelland, Clarence P., to General Motors Corp. Windshield wiper drive cable apparatus. 2,795,145, 6-11-57, Cl. 74-70.
- McClelland, Etheridge R., to Fruit Machinery Co. Fruit positioning apparatus. 2,786,562, 3-26-57, Cl. 198-33.
- McClelland, Kermit R.: *See*—
- Durant, John D., and McClelland. 2,808,004.
- McClennan, Morton, to The Austin Powder Co. Auger head. 2,800,302, 7-23-57, Cl. 255-61.
- McClintic, Ebert M.: *See*—
- Noland, Thomas A., Norman, and McClintic. 2,785,436.
- McClintock Mfg. Co.: *See*—
- Levie, Nola D. 2,818,038.
- McClish, William L. Shelter seat. 2,811,977, 11-5-57, Cl. 135-5.
- McCloskey, Ellsworth J., and J. E. Williams, to The American Pulley Co. Sheaves. 2,806,381, 9-17-57, Cl. 74-230.17.
- McCloskey, Ellsworth J., to The American Pulley Co. Adjustable sheaves. 2,816,452, 12-17-57, Cl. 74-230.17.
- McClosky, Howard A. Index printing machine. 2,807,207, 9-24-57, Cl. 101-41.

- McCloud, Don B. and M.; said D. B. McCloud assor. to said M. McCloud. High explosives. 2,789,504, 4-23-57, Cl. 102-24.
- McCloud, George R., to McGraw Electric Co. Protective bushing for electrical apparatus. 2,783,328, 2-26-57, Cl. 200-114.
- McCloud, Mary: *See*—
McCloud, Don B. and M. 2,789,504.
- McCluney, Ruth B.: *See*—
Brown, Charles H. 2,783,557.
Brown, Charles H. 2,783,560.
- McClung, May L. Hair treating device. 2,803,834, 8-27-57, Cl. 4-159.
- McClung, Roger M.: *See*—
Bruce, Ralph E., and McClung. 2,775,870.
- McClure, Charles G., to Sperry Products, Inc. Apparatus for generating surface waves. 2,783,642, 3-5-57, Cl. 73-67.8.
- McClure, Glenn T.: *See*—
Thomas, Glenn M., and McClure. 2,812,985.
- McClure, Glenn T., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,802,700, 8-13-57, Cl. 303-38.
- McClure, Glenn T., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,802,701, 8-13-57, Cl. 303-39.
- McClure, Glenn T., J. W. Rush, and E. S. Cook, to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,785,933, 3-19-57, Cl. 303-60.
- McClure, Glenn T., and J. W. Rush, to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,812,984, 11-12-57, Cl. 303-35.
- McClure, H. B., Mfg. Co.: *See*—
McClure, Hugh B. 2,799,277.
- McClure, Hugh B., to H. B. McClure Mfg. Co. Folder and fastener for holding three sets of sheets. 2,799,277, 7-16-57, Cl. 129-25.
- McClure, Thomas V.: *See*—
Lyle, Charles, and McClure. 2,814,315.
- McClure, Weldon C. Cotton picking spindle with retractable tines. 2,811,820, 11-5-57, Cl. 56-50.
- McClurkin, John C. Ditcher. 2,791,042, 5-7-57, Cl. 37-98.
- McCode, Thomas. Fishhook. 2,775,842, 1-1-57, Cl. 43-44.81.
- McCoin, Jessie B. Picker stick bumper and bobbin deflector. 2,804,097, 8-27-57, Cl. 139-166.
- McColl, Alexander S. Recoil operated automatic gun. 2,789,478, 4-23-57, Cl. 89-163.
- McColl, Alexander S. Bolt lock and retracting mechanism for gas operated machine gun. 2,789,479, 4-23-57, Cl. 89-191.
- McColl, Allan C.: *See*—
Ramsey, Austin L., McColl, and Westbrook. 2,803,273.
- McColl, Allan C., and A. L. Ramsey, to The Wheland Co. Lumber sorter. 2,800,225, 7-23-57, Cl. 209-90.
- McColloch, Robert J., to the United States of America as represented by the Secretary of Agriculture. Apparatus for producing cyclical temperature variations. 2,801,799, 8-6-57, Cl. 236-46.
- McCollum, Elmer V. Purification of glutamic acid with the aid of methanolic calcium chloride. 2,815,374, 12-3-57, Cl. 260-527.
- McColly, Floyd A. Circular saw tooth setting device. 2,808,744, 10-8-57, Cl. 76-63.
- McColm, Glenn C.: *See*—
McColm, Wilbur B. and G. C. 2,789,056.
- McColm, Wilbur B. and G. C. Method of preparing colored potato chips. 2,789,056, 4-16-57, Cl. 99-100.
- McColum, Harold D.: *See*—
Guyton, Charles R. 2,791,926.
- McCombe, Matthew: *See*—
Walsh, Joseph W., and McCombe. 2,810,594.
- McCombe, Raymond. Resilient endless collar for hunting dogs. 2,810,368, 10-22-57, Cl. 119-106.
- McCombie, Frederick W., to Megator Pumps & Compressors Ltd. Rotary pumps of the non-centrifugal type. 2,814,256, 11-26-57, Cl. 103-163.
- McConnell, David H., to The Sheffield Corp. Gauging device. 2,799,944, 7-23-57, Cl. 33-178.
- McConnell, Duane J., T. H. Zbikowski, and D. B. Chenoweth, to Foley Mfg. Co. Retooling machine. 2,802,379, 8-13-57, Cl. 76-29.
- McConnell, Frank J., to The American Hardware Corp. Door lock. 2,813,739, 11-19-57, Cl. 292-169.
- McConnell, Frank J., and R. J. Zimmermann, to The American Hardware Corp. Door latch operating unit. 2,813,738, 11-19-57, Cl. 292-163.
- McConnell, Ida S.: *See*—
Johnston, Harold C. 2,817,103.
- McConnell, John H., to Bell Telephone Laboratories, Inc. Multivibrator circuit. 2,802,941, 8-13-57, Cl. 250-27.
- McConnell, Kenneth F.: *See*—
Smith, Theodore W., Heger, and McConnell. 2,818,063.
- McConnell, Ralph S. Tobacco container. 2,815,143, 12-3-57, Cl. 217-12.
- McConnell, Richard L.: *See*—
Coover, Harry W., Jr., and McConnell. 2,798,086.
- McConnell, Robert S.: *See*—
Johnston, Harold C. 2,817,103.
- McConnell, William M., and J. R. Von Hofen, to Taylor-Wilson Mfg. Co. Switch operating mechanism. 2,799,172, 7-16-57, Cl. 74-99.
- McCord, Andrew T.: *See*—
Snow, George E., and McCord. 2,780,593.
- McCord, Fred M. Fisherman's tackle and bait carrier. 2,797,525, 7-2-57, Cl. 43-55.
- McCormack, Leonard J., Jr.: *See*—
Reimers, Alfred E., Tavender, and McCormack. 2,815,593.
- McCormack, Robert H. Disc type slip detector and rectifier. 2,790,162, 4-23-57, Cl. 340-268.
- McCormack, William H., to The Garrett Corp. Electronic temperature control circuit. 2,782,995, 2-26-57, Cl. 236-78.
- McCormack, William H., to The Garrett Corp. Zero impedance circuit. 2,818,544, 12-31-57, Cl. 323-45.
- McCormick, Charles E.: *See*—
Brundage, Alan D., McCormick, and Schatzman. 2,776,791.
- McCormick, Charles E. Seat track. 2,805,701, 9-10-57, Cl. 155-14.
- McCormick, Charles E. Trim fastening means for vehicle seats. 2,808,101, 10-1-57, Cl. 155-180.
- McCormick, Francis H.: *See*—
Abresch, Carel F., and McCormick. 2,808,063.
Fry, Millard E., and McCormick. 2,816,998.
- McCormick, Francis H., to General Motors Corp. Domestic appliance. 2,817,157, 12-24-57, Cl. 34-82.
- McCormick, Frank M., to Federal Carton Corp. Carton with cushion liner. 2,808,977, 10-8-57, Cl. 229-14.
- McCormick, Frederick S., to Consolidated Electrodynamics Corp. Tape transport system. 2,815,907, 12-10-57, Cl. 242-55.12.
- McCormick, Harold V., to Westinghouse Electric Corp. Elevator system having door operators. 2,816,625, 12-17-57, Cl. 187-52.
- McCormick, Hazel G. Metatarsal arch support. 2,790,975, 5-7-57, Cl. 2-239.
- McCormick, Jerry R. D.: *See*—
Garbarini, John J., Manz, and McCormick. 2,789,987.
- McCornack, John H., and E. S. Davis. Mercury column thermostat. 2,790,048, 4-23-57, Cl. 200-141.
- McCotter, Harold J., to General Motors Corp. Brake pedal structure. 2,793,539, 5-28-57, Cl. 74-484.
- McCown, Everett E.: *See*—
Herbert, William J., McCown, and Levine. 2,786,182.
- McCown, Joe F. Tool for removing dents from thin wall pipe. 2,780,122, 2-5-57, Cl. 81-15.
- McCown, William E., and J. W. McAuley, to Libbey-Owens-Ford Glass Co. Ultrasonic cleaning of curved surfaces, and apparatus therefor. 2,784,119, 3-5-57, Cl. 134-1.
- McCoy, Clarence E., to Western Electric Co., Inc. Shear pin protected tail pipe holder for rod mills. 2,812,674, 11-12-57, Cl. 80-51.
- McCoy, Claudius T., and E. Chatterton, Jr., to Philco Corp. Diode frequency converter with non-sinusoidal local oscillation source. 2,813,973, 11-19-57, Cl. 250-20.
- McCoy, Frederic C., to The Texas Co. Lubricant composition. 2,790,768, 4-30-57, Cl. 252-32.7.
- McCoy, George, and C. B. Inman, to The Pennsylvania Salt Mfg. Co. Preparation of hexachlorobenzene. 2,778,860, 1-22-57, Cl. 260-650.
- McCoy, John F.: *See*—
Dudziak, Chester, and McCoy. 2,807,774.
- McCoy, John F., to the United States of America as represented by the Secretary of the Navy. System and method for determining reversal time for twin-type magnetic clutches. 2,805,393, 9-3-57, Cl. 324-68.
- McCoy, Marcus A., to Hoffman Electronics Corp. Variable gain amplifier. 2,813,156, 11-12-57, Cl. 179-171.
- McCoy, Rawley D., to Reeves Instrument Corp. Vacuum tube voltmeter amplifier circuit. 2,795,653, 6-11-57, Cl. 179-171.
- McCoy, Verl E. Lubricating device. 2,795,466, 6-11-57, Cl. 308-90.
- McCrary, Maurice R., and D. Ramadanoff, to Union Carbide Corp. Electrical contact brush. 2,806,806, 9-17-57, Cl. 117-228.
- McCray, Donald C. Material handling apparatus. 2,802,603, 8-13-57, Cl. 222-185.
- McCray, George: *See*—
Brown, Cicero C., and McCray. 2,777,523.
- McCray, Harold E., to Cabot Shops, Inc. Process and apparatus for quenching tubular metal articles. 2,807,272, 9-24-57, Cl. 134-167.
- McCrea, Patrick A.: *See*—
Marshall, Philip G., Barnes, and McCrea. 2,814,637.
- McCreadie, Robert S., to General Electric Co. Tube socket adapter. 2,781,499, 2-12-57, Cl. 339-154.
- McCreary, Ralph L.: *See*—
Marnier, Gene R., and McCreary. 2,802,965.
- McCreery, Hugh L.: *See*—
Jenkins, Wallace, and McCreery. 2,784,827.
- McCreight, Donald O., and R. E. Birch, to Harbison-Walker Refractories Co. Synthetic spinel refractory products. 2,805,167, 9-3-57, Cl. 106-62.
- McCrink, Joseph J. Brush handle lock. 2,815,989, 12-10-57, Cl. 306-30.
- McCrink, Joseph J. Three-way brush lock. 2,815,990, 12-10-57, Cl. 306-30.
- McCroskey, Ulmont L. Connector block for wires. 2,781,501, 2-12-57, Cl. 339-198.
- McCrosky Tool Corp.: *See*—
Tucker, Charles D. 2,817,260.
- McCue, Clarence J.: *See*—
Two, Joseph A. 2,804,946.

- McCuen, Burton A., to Independent Lock Co. Boring jig. 2,792,727, 5-21-57, Cl. 77-62.
- McCuen, Donald H., to Arrow Mfg. & Sales Co., Inc. Compartmented saddle tank. 2,794,569, 6-4-57, Cl. 220-20.
- McCullay, James M.: See—
- Eckel, Carl C., and McCulley. 2,798,976.
- McCulloch Motors Corp.: See—
- Bednarz, Felix L. 2,784,644.
- Boyd, John R. 2,814,434.
- Gudmundsen, Austin. 2,792,787.
- Marmont, George H. 2,814,000.
- Ryde, John L. 2,790,125.
- Sanborn, Daniel S. 2,805,891.
- Wilkin, Ellsworth D. 2,776,844.
- Woodworth, Ty K. 2,813,556.
- McCulloch, Thomas B., to Esso Research and Engineering Co. Well completion apparatus. 2,798,558, 7-9-57, Cl. 166-115.
- McCullough, Ira J.: See—
- McCullough, Otis J., Toelke, and McCullough. 2,810,439.
- McCullough, Otis J., L. W. Toelke, and I. J. McCullough. Well head attachment for operating tools in a well under pressure. 2,810,439, 10-22-57, Cl. 166-77.
- McCullough, Ray A., to Blaw-Knox Co. Three-way water valve assembly for concrete mixers or the like. 2,793,657, 5-28-57, Cl. 137-625.4.
- McCullough, Robert F., to the United States of America as represented by the United States Atomic Energy Commission. Acid treatment of phosphate rock to recover phosphates and uranium. 2,790,702, 4-30-57, Cl. 23-14.5.
- McCullough, Robert W., to Deering Milliken Research Corp. Apparatus for producing novelty yarn. 2,811,011, 10-29-57, Cl. 57-38.3.
- McCully, Wilfred D. Leak testing device. 2,817,230, 12-24-57, Cl. 73-46.
- McCune, John S., and W. E. Hanks, to Oilwell Drain Hole Drilling Co. Preparation of well drain holes for production. 2,778,603, 1-22-57, Cl. 255-1.6.
- McCune, John S., and W. E. Hanks, to Oilwell Drain Hole Drilling Co. Drilling and lining of drain holes. 2,797,893, 7-2-57, Cl. 255-1.6.
- McCune, William J., Jr.: See—
- Fairbank, Murry N., McCune, Wareham, and Whittier. 2,794,376.
- Pierce, Norton T., Bartlett, Erikson, Fairbank, McCune, and Wright. 2,784,653.
- McCurdy, Philip C. Cut-off and drain units for plumbing systems. 2,808,069, 10-1-57, Cl. 137-236.
- McCurdy, Robert J.: See—
- Shreve, Warren T., and McCurdy. 2,790,932.
- McCurry, Oscar M. Handling device for sheet material. 2,793,065, 5-21-57, Cl. 294-16.
- McCutchen, John E., to The Coleman Co., Inc. Window-supported hot air heater. 2,804,066, 8-27-57, Cl. 126-110.
- McCutchen, John E., and R. B. Hueston, to The Coleman Co., Inc. Tank heater. 2,806,468, 9-17-57, Cl. 126-350.
- McCutcheon, Frederick H.: See—
- McCutcheon, Lulu A. and F. H. 2,796,067.
- McCutcheon, Kenneth C., to Reserve Mining Co. Apparatus for charging a blast furnace. 2,802,661, 8-13-57, Cl. 266-27.
- McCutcheon, Lulu A. and F. H.: said F. H. McCutcheon assor. to said L. A. McCutcheon. Disposable portable fireproof ash cup and extinguisher. 2,796,067, 6-18-57, Cl. 131-256.
- McDade, John B. Coal loading machine. 2,783,902, 3-5-57, Cl. 214-137.
- McDaniel, Alden W. Tension torsion device for helicopter rotor blade spindles. 2,809,506, 10-15-57, Cl. 64-27.
- McDaniel, Fred A. Card holder. 2,811,363, 10-29-57, Cl. 273-150.
- McDaniel, Henry R. Rotary blade assembly for power lawn mower. 2,787,881, 4-9-57, Cl. 56-295.
- McDaniel, Henry R. Tank fit up device. 2,803,209, 8-20-57, Cl. 113-99.
- McDaniel, James W., 50% to R. M. Albright. Tension threader. 2,807,285, 9-24-57, Cl. 139-248.
- McDaniel, Lewis B. Self cleaning hens' nest and egg basket. 2,804,842, 9-3-57, Cl. 119-48.
- McDerby, R. A.: See—
- Siebert, Lee S. 2,787,315.
- McDermott, Edward F. Moving votive candle display holders. 2,793,516, 5-28-57, Cl. 67-25.
- McDermott, Francis R. Method of and means for mounting a machine on a vibration absorbing pad. 2,776,101, 1-1-57, Cl. 248-24.
- McDermott, Francis R. Vibration-absorbing pad and process of manufacture. 2,809,145, 10-8-57, Cl. 154-106.
- McDermott, Henry J.: See—
- Pistor, Christel, and McDermott. 2,789,315.
- McDermott, Henry J., to American Viscose Corp. Liquid applicator for running strand. 2,787,980, 4-9-57, Cl. 118-405.
- McDermott, John J., and A. Bodnar. Check valve. 2,797,704, 7-2-57, Cl. 137-543.19.
- McDermott, John P.: See—
- Rogers, Dilworth T., and McDermott. 2,813,077.
- McDermott, John P., to Esso Research and Engineering Co. Corrosion preventing agent. 2,783,202, 2-26-57, Cl. 252-46.6.
- McDermott, John P., to Esso Research and Engineering Co. Corrosion preventing agent. 2,783,203, 2-26-57, Cl. 252-46.6.
- McDermott, John P., to Esso Research and Engineering Co. Corrosion preventing agent. 2,783,204, 2-26-57, Cl. 252-46.6.
- McDermott, John P., to Esso Research and Engineering Co. Mineral oil compositions containing tin-containing dithiophosphate compounds. 2,786,812, 3-26-57, Cl. 252-32.7.
- McDermott, John P., to Esso Research and Engineering Co. Tin-containing thioxanthate compounds and lubricants containing them. 2,786,813, 3-26-57, Cl. 252-33.6.
- McDermott, John P., to Esso Research and Engineering Co. Tin-containing dithiocarbamate compounds and lubricants containing them. 2,786,814, 3-26-57, Cl. 252-33.6.
- McDermott, John P., and M. F. Hurley, to Esso Research and Engineering Co. Foam inhibition of oil. 2,799,650, 7-16-57, Cl. 252-32.7.
- McDonald, Alמוש G. Self loading boat trailer. 2,776,769, 1-8-57, Cl. 214-505.
- McDonald, Dan. Carbon adsorber cooling means. 2,777,534, 1-15-57, Cl. 183-4.1.
- McDonald, Dan, to American Sulphur & Refining Co. Solvent extraction of sulphur. 2,785,059, 3-12-57, Cl. 23-310.
- McDonald, David. Hoop type toy. 2,791,064, 5-7-57, Cl. 46-220.
- McDonald, David W., to Monsanto Chemical Co. Purification of acrylonitrile. 2,784,216, 3-5-57, Cl. 260-465.9.
- McDonald, David W., to Monsanto Chemical Co. Purification of acrylonitrile. 2,784,218, 3-5-57, Cl. 260-465.9.
- McDonald, Donald, to Cook Electric Co. System, method and apparatus for closed cycle control. 2,777,285, 1-15-57, Cl. 60-6.
- McDonald, Donald C., to Cook Electric Co. Direct current amplifier. 2,796,468, 6-18-57, Cl. 179-171.
- McDonald, Donald C., and L. D. Schmid, to Cook Electric Co. Multiple mode servomechanisms. 2,796,569, 6-18-57, Cl. 318-32.
- McDonald, Donald C., and A. W. Shutler, to Cook Electric Co. Multiple mode servomechanism. 2,810,103, 10-15-57, Cl. 318-32.
- McDonald, Donald F. Pinball machine. 2,791,428, 5-7-57, Cl. 273-110.
- McDonald, Earl, to Super Mold Corp. of California. Power actuated, tire mold body opening and closing device. 2,806,251, 9-17-57, Cl. 18-18.
- McDonald, Frank A., and L. H. Sandefur, to U. S. Flexible Metallic Tubing Co. Automatic control for manifold valve with selective by-pass rotor. 2,806,486, 9-17-57, Cl. 137-633.
- McDonald, Frank H.: See—
- Landa, Arthur J., and McDonald. 2,780,812.
- McDonald, Harold, and R. L. Anderson, to Continental Oil Co. Metal alkyl sulfonates and method of preparing the same. 2,807,590, 9-24-57, Cl. 252-353.
- McDonald, Horace A. Vehicle headlight fog attachment. 2,807,711, 9-24-57, Cl. 240-46.59.
- McDonald, James H., 50% to O. S. McDonald. Self-propelled harpoon gun. 2,789,465, 4-23-57, Cl. 89-1.
- McDonald, James L. Structural beam with fire extinguisher. 2,809,074, 10-8-57, Cl. 299-106.
- McDonald, John E., to Westinghouse Electric Corp. Air conditioning apparatus. 2,793,812, 5-28-57, Cl. 236-13.
- McDonald, John E., to Westinghouse Electric Corp. Volume controls for centrifugal fans. 2,798,658, 7-9-57, Cl. 230-114.
- McDonald, John E., and W. J. Roos, to Westinghouse Electric Corp. Electrostatic precipitators. 2,817,413, 12-24-57, Cl. 183-7.
- McDonald, John L.: See—
- Mayne, Norman L. and G. C. 2,815,510.
- McDonald, Joseph G., to Minneapolis-Honeywell Regulator Co. Switch. 2,803,719, 8-20-57, Cl. 200-87.
- McDonald, Lee A. Casting reel. 2,797,055, 6-25-57, Cl. 242-84.1.
- McDonald, Lloyd L., and W. L. Walters, to W. L. Walters. Cosmetic device. 2,787,261, 4-2-57, Cl. 128-24.3.
- McDonald, Mary J. Utensil cleaning device. 2,777,146, 1-15-57, Cl. 15-210.
- McDonald, Mary J. Fork cleaners. 2,777,147, 1-15-57, Cl. 15-210.
- McDonald, Otis S.: See—
- McDonald, James H. 2,789,465.
- McDonald, Pat. Method and apparatus for pulsed acoustic well logging. 2,813,590, 11-19-57, Cl. 181-5.
- McDonald, Richard: See—
- Shnitzler, Meyer J., Norton, and McDonald. 2,776,917.
- McDonald, Robert E.: See—
- Saum, Arthur McL., Miller, and McDonald. 2,805,765.
- McDonald, Robert S., to General Electric Co. Apparatus and method for spectral analysis. 2,806,957, 9-17-57, Cl. 250-43.5.
- McDonnell Aircraft Corp.: See—
- Burke, Walter F. 2,811,085.
- Hartwig, Albert F. 2,814,125.
- McDonnell, Joseph M., and H. D. Mowers, to General Motors Corp. Fluid motor. 2,786,455, 3-26-57, Cl. 121-97.
- McDonnell, Joseph M., and H. D. Mowers, to General Motors Corp. Fluid motor. 2,802,458, 8-13-57, Cl. 121-97.
- McDonnell, Leo G. Fishing rod support. 2,781,600, 2-19-57, Cl. 43-15.
- McDonnell, Mark J. Bucket loader attachment for dozers. 2,808,950, 10-8-57, Cl. 214-140.

- McDonnell & Miller, Inc.: *See*—
Kmieciak, Leopold J. 2,812,101.
- McDonnell, Thomas F.: *See*—
O'Neill, John J., Jr., and McDonnell. 2,787,533.
- McDonough, Everett G., to The Procter & Gamble Co. Bromate-perhydrate fixing composition. 2,809,150, 10-8-57, Cl. 167-87.1.
- McDonough, John J., to Scott & Williams, Inc. Transfer jack assembly for use in a circular knitting machine. 2,809,508, 10-15-57, Cl. 66-95.
- McDonough, Mildred J. Hair waving accessory. 2,775,973, 1-1-57, Cl. 132-49.
- McDonough, Robert S., and E. Svoboda. Power lawn edger. 2,791,082, 5-7-57, Cl. 56-25.4.
- McDonough, Thomas L. Sash and sash guides for windows. 2,811,229, 10-29-57, Cl. 189-72.
- McDougal, Taine G., to General Motors Corp. Spark plug electrode and process for making same. 2,783,409, 2-26-57, Cl. 313-141.
- McDowall, Charles J., and A. W. Gaubatz, to General Motors Corp. Flow control meter. 2,804,241, 8-27-57, Cl. 222-335.
- McDowall, William S., to Republic Steel Corp. Electric weld tube mills inside spreading rolls at electrode. 2,816,208, 12-10-57, Cl. 219-59.
- McDowell, Clifford J., to Corn Products Refining Co. Zein water emulsion. 2,810,656, 10-22-57, Cl. 106-153.
- McDowell, James F., to Vasco Supply Co. Car stop. 2,807,220, 9-24-57, Cl. 104-258.
- McDowell Mfg. Co.: *See*—
Frishof, Henry. 2,797,937.
Hempel, Gustav A. 2,806,717.
Rickard, Clyde E. 2,818,082.
- McDowell, Wilbur B., to Olin Mathieson Chemical Corp. Preparation of mephensin carbamate hemihydrate. 2,813,104, 11-12-57, Cl. 260-340.2.
- McDuffee, John K., to Western Electric Co., Inc. Apparatus for flattening and for constraining the expansion of pre-flattened coiled tubing. 2,804,906, 9-3-57, Cl. 153-32.
- McDuffie, Archie D., to General Motors Corp. Carburetor. 2,796,243, 6-18-57, Cl. 261-41.
- McEachern, Alexander B., to Orenda Engines Ltd. Flexible joint for annular members and employing wedge shaped connecting units. 2,809,057, 10-8-57, Cl. 285-187.
- McEachern, Wallace D. Rock bit. 2,803,436, 8-20-57, Cl. 255-313.
- McElgin, John W., to John J. Nesbitt, Inc. Heat exchanger. 2,816,738, 12-17-57, Cl. 257-36.
- McElgin, John W., to John J. Nesbitt, Inc. Air conditioning system and method of operation. 2,818,217, 12-31-57, Cl. 237-2.
- McElhinney, Eric M., and T. A. Podhajsky. Loader machine. 2,780,374, 2-5-57, Cl. 214-140.
- McElhinney, Thomas R., to Valite Corp. Process of preparing fiber from pith-containing plant materials. 2,810,647, 10-22-57, Cl. 92-14.
- McElho, Earl R., to Advanced Products Co., Inc. Trailer hitch. 2,818,277, 12-31-57, Cl. 280-491.
- McElroy, George E., to Allen B. Du Mont Laboratories, Inc. Electronic pulse shaping and delay circuit. 2,781,458, 2-12-57, Cl. 307-106.
- McElroy, Robert P. Temporary holder for the keyboard cams of a linotype machine or the like. 2,810,242, 10-22-57, Cl. 51-217.
- McElroy, Roy H., to International Clay Machinery of Delaware, Inc. Apparatus for working clay-like materials. 2,785,455, 3-19-57, Cl. 25-14.
- McElroy, Roy H., to International Engineering, Inc. Portable mixer. 2,787,449, 4-2-57, Cl. 259-135.
- McElroy, William G.: *See*—
Evans, Charles R., and McElroy. 2,790,635.
- McElwee, Frank P. Joist pockets. 2,809,405, 10-15-57, Cl. 20-95.
- McEntee, Harry R., to General Electric Co. Preparation of organochlorosilanes. 2,786,861, 3-26-57, Cl. 260-448.2.
- McEntee, Jay R.: *See*—
Cooper, Roland S., and McEntee. 2,795,401.
- McEvers, Wilber C. Power mower blade. 2,786,322, 3-26-57, Cl. 56-295.
- McEvoy, Joseph: *See*—
Christy, James W., and McEvoy. 2,799,016.
- McEvoy, Joseph, to Nu Tone, Inc. Chime signal. 2,810,123, 10-15-57, Cl. 340-392.
- McEvoy, Patrick J. Golf ball retriever. 2,801,875, 8-6-57, Cl. 294-19.
- McEwan, Alexander W.: *See*—
Bryant, John H., Cole, and McEwan. 2,798,981.
- McEwan, Alexander W., C. E. Anderson, and C. V. Daniels, to International Telephone and Telegraph Corp. Traveling wave electron discharge device. 2,806,973, 9-17-57, Cl. 315-3.5.
- McEwan, James, and J. A. Wilhelm; said Wilhelm assor. to said McEwan. Saw sharpener. 2,780,945, 2-12-57, Cl. 76-40.
- McFadden, Ernest B.: *See*—
Swearingen, John J., and McFadden. 2,809,633.
- McFadden, Fred. Fluid actuated rotary tool. Re. 24,391, 11-12-57, Cl. 51-170.
- McFadden, George H.: *See*—
Bennett, Bailey, and McFadden. 2,788,334.
- McFadden, John P. Closet bowl ventilator. 2,777,137, 1-15-57, Cl. 4-213.
- McFadden, Ray E.: *See*—
Casey, James H., and McFadden. 2,804,907.
- McFadyen, John C. Carrier attachment for automobile. 2,800,264, 7-23-57, Cl. 224-42.08.
- McFall, Joe B. Improved mounting means for glue spreading rollers. 2,775,953, 1-1-57, Cl. 118-227.
- McFall, Russell W.: *See*—
Johnson, Theodore T., McFall, and Samsel. 2,817,831.
- McFarlan, Alden I. Air conditioning system. 2,796,740, 6-25-57, Cl. 62-8.
- McFarlan, Alden I. Plural stage air conditioning system. 2,796,743, 6-25-57, Cl. 62-117.6.
- McFarlan, Alden I. Air conditioning system. 2,797,068, 6-25-57, Cl. 257-3.
- McFarland, Arthur E. and A. F. Hydraulic testing equipment. 2,812,771, 11-12-57, Cl. 137-114.
- McFarland, Artie F.: *See*—
McFarland, Arthur E. and A. F. 2,812,771.
- McFarland, George L., to General Electric Co. Self-pivoted blade switch. 2,814,678, 11-26-57, Cl. 200-6.
- McFarland, William: *See*—
Warner, William E., and McFarland. 2,803,301.
- McFarland, William E. Internal combustion engine idling device. 2,799,733, 7-16-57, Cl. 290-40.
- McFarland, William E. Engine-generator speed control. 2,803,757, 8-20-57, Cl. 290-40.
- McFarland, William E. Relay control system for engine generator sets. 2,804,551, 8-27-57, Cl. 290-30.
- McFarland, William E. Speed-governing idling device. 2,804,552, 8-27-57, Cl. 290-40.
- McFarland, William E. Idling device featuring actuator-controlled spring. 2,804,553, 8-27-57, Cl. 290-40.
- McFarland, William E. Controlling lower fuel-intake engine speed. 2,809,300, 10-8-57, Cl. 290-40.
- McFarland, William E. Automatic starting system for engine-generator plants. 2,810,079, 10-15-57, Cl. 290-30.
- McFarland, William E. Current-actuated A-C relay sensing system and engine-generator idling device employing same. 2,810,840, 10-22-57, Cl. 290-40.
- McFarland, William E. Relay control system for three-wire engine-generator sets. 2,814,732, 11-26-57, Cl. 290-30.
- McFarland, William E. Dual load relay automatic starting system for engine-generator plants. 2,818,512, 12-31-57, Cl. 290-30.
- McFarland, William O. Electrical circuit device. 2,778,992, 1-22-57, Cl. 324-51.
- McFarlane, James W., to Ball Brothers Co., Inc. Cap and advertising insert. 2,778,519, 1-22-57, Cl. 215-38.
- McFarlane, Lloyd A. Motor vehicle spring suspension. 2,809,706, 10-15-57, Cl. 180-22.
- McFarlane, Norris B.: *See*—
Barker, John S., Jr., and McFarlane. 2,797,988.
- McFaul, Gordon P.: *See*—
Krali, George J., and McFaul. 2,812,242.
- McFeaters, Harry L., to Pennsylvania Engineering Corp. Converter gas cleaning system. 2,803,450, 8-20-57, Cl. 266-13.
- McFerren, Edgar L., to Giddings & Lewis Machine Tool Co. Machine tool frame and way construction. 2,788,716, 4-16-57, Cl. 90-11.
- McFerren, Edgar L., and G. H. Schurger, to Giddings & Lewis Machine Tool Co. Face plate attachment for machine tools. 2,786,395, 3-26-57, Cl. 90-11.
- McGaffey-Taylor Corp.: *See*—
Haines, Marcus W. 2,783,809.
- Haines, Marcus W., Taylor, Werts, and Ford. 2,796,937.
- McGahue, Francis M. Parotid block mouth chock. 2,776,489, 1-8-57, Cl. 32-35.
- McGahan, Wallace A., to Ingersoll-Rand Co. Sealing device for rotary shafts. 2,809,854, 10-15-57, Cl. 286-7.
- McGarry, James A., C. L. Weidner, and M. A. Bergstedt, to Industrial Tape Corp. Adhesive sheet containing specific mass deactivators. 2,790,732, 4-30-57, Cl. 117-122.
- McGarry, Phillip E., to International Minerals & Chemical Corp. Method for the beneficiation of phosphate ores. 2,811,254, 10-29-57, Cl. 209-166.
- McGarvie, George H., Jr. Allen-type ratchet wrench. 2,797,599, 7-2-57, Cl. 81-71.
- McGauley, Patrick J.: *See*—
Schaufelberger, Felix A., and McGauley. 2,796,342.
- McGauley, Patrick J., to American Cyanamid Co. Gaseous precipitation of metals from solution. 2,805,139, 9-3-57, Cl. 75-0.5.
- McGauley, Patrick J. Separation of metal sulfides. 2,805,938, 9-10-57, Cl. 75-101.
- McGavin, Arnold L.: *See*—
Shaw, Harry, and McGavin. 2,815,318.
- McGay, John B. Variable drive transmission unit. 2,810,303, 10-22-57, Cl. 74-781.
- McGay, John B., and G. B. Cliff, to Rockwell Register Corp. Timed intermittent pneumatic drive mechanism. 2,780,911, 2-12-57, Cl. 60-7.
- McGean Chemical Co., The: *See*—
Collins, Albert V., and Leopold. 2,793,962.
- McGee, Albert L., to Process Engineers Inc. Liquid control apparatus. 2,812,773, 11-12-57, Cl. 137-487.5.
- McGee, Curtis B. Fishing line float. 2,811,805, 11-5-57, Cl. 43-43.1.
- McGee, John M., to Bernardin Bottle Cap Co., Inc. Method for fabricating liners for closure caps. 2,809,568, 10-15-57, Cl. 93-1.3.

- McGee, Omar C. Sliding game piece for use with a golf ball. 2,812,184, 11-5-57, Cl. 273-199.
- McGee, Richard J., and W. E. Buescher, to Sylvania Electric Products Inc. Voltage monitoring power cut-off device. 2,811,675, 10-29-57, Cl. 317-81.
- McGee, Robert G., to Guy P. Harvey & Son Corp. Clamping mechanism for molding machine. 2,792,592, 5-21-57, Cl. 18-16.
- McGeorge, Walter, and G. Hamilton, to Macleans Ltd. Collapsible tubes. 2,794,574, 6-4-57, Cl. 222-92.
- McGhee, William J., and J. C. Megna, to Bristol Laboratories Inc. Process for production of tetracycline. 2,776,243, 1-1-57, Cl. 195-80.
- McGihon, Leonard: *See—*
Silva, Anthony R., McGihon, and Donald. 2,786,316.
- McGill, Alexander: *See—*
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Olpin, Henry C., Wesson, and McGill. 2,802,714.
- McGill, Daniel F., to D. W. Green. Rotary pump and motor hydraulic transmission. 2,807,134, 9-24-57, Cl. 60-19.
- McGill, Lemaster C.: *See—*
Zoller, Willis M., and McGill. 2,807,572.
- McGill Mfg. Co., Inc.: *See—*
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- McGillis, Hugh D.: *See—*
McGillis, John J. and H. D. 2,815,806.
- McGillis, John J. and H. D. Rotary oil burners. 2,815,806, 12-10-57, Cl. 158-77.
- McGillivray, Howard R. Multiple receptacle filling apparatus. 2,778,389, 1-22-57, Cl. 141-172.
- McGinley, Raymond P., and G. C. Boardman. Paper stock distribution box. 2,791,947, 5-14-57, Cl. 92-46.
- McGinley, William J., to Methode Mfg. Corp. Tube socket for printed wiring panels. 2,776,415, 1-1-57, Cl. 339-193.
- McGivney, Thomas F.: *See—*
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- McGlothlin, Ross E.: *See—*
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- McGoldrick, Joseph M., to The Columbia Burner Co. Rotisserie. 2,811,099, 10-29-57, Cl. 99-444.
- McGovern, Bernard J., S. P. Skoli, and C. Witt, to Mojonnier Bros. Co. Milk pumping apparatus. 2,781,798, 2-19-57, Cl. 141-25.
- McGovern, Bernard J., S. P. Skoli, and C. Witt, to Mojonnier Bros. Co. Valve for a milk tank truck. 2,790,629, 4-30-57, Cl. 259-95.
- McGovern, Henry P., to Dennison Mfg. Co. Display case for jewelry and the like. 2,792,109, 5-14-57, Cl. 206-45.2.
- McGovern, Terrence A. Insect repellent attachment for gasoline lanterns. 2,817,882, 12-31-57, Cl. 21-108.
- McGowan, Raymond J., R. A. Burt, and B. F. Teasdale, to Canada Packers Ltd. Process for margarine manufacture. 2,797,164, 6-25-57, Cl. 99-122.
- McGowen, Frank, to Continental Motors Corp. Energy cell construction. 2,806,456, 9-17-57, Cl. 123-32.
- McGowen, Harold E., Jr., to Camco, Inc. Bellows protector. Re. 24,403, 12-10-57, Cl. 137-155.
- McGowen, Harold E., Jr., to Camco, Inc. Balanced flow valve. 2,797,700, 7-2-57, Cl. 137-155.
- McGrane, Norman M., and D. B. Perlis, to Western Precipitation Corp. Cleaning-air ring for cylindrical filter element. 2,818,136, 12-31-57, Cl. 183-61.
- McGrath, Earle J.: *See—*
Verrinder, Ernest A., and McGrath. 2,813,639.
- McGrath, Henry G., to The M. W. Kellogg Co. Iron synthesis catalyst. 2,778,805, 1-22-57, Cl. 252-474.
- McGrath, Henry G., and L. C. Rubin, to The M. W. Kellogg Co. Synthesis of organic compounds and catalyst therefor. 2,778,845, 1-22-57, Cl. 260-449.6.
- McGrath, Henry G., and M. R. Smith, to The M. W. Kellogg Co. Naphtha hydroforming process. 2,787,583, 4-2-57, Cl. 196-50.
- McGraw Co.: *See—*
Van Dusen, Harold A., Jr. 2,798,941.
- McGraw-Edison Co.: *See—*
Amundson, Roald H. 2,817,794.
Anspach, Eugene J., and Kowalski. 2,806,724.
Atkinson, Gerald L. 2,785,254.
Atkinson, Gerald L. 2,811,612.
Brummet, Berthal D. 2,799,716.
Campbell, Date S. 2,809,578.
Conlee, George D. 2,816,450.
Corwin, Alfred W. 2,791,908.
Corwin, Alfred W. 2,799,747.
Dann, Charles W., and Somers. 2,811,364.
Dietz, Edward A. 2,793,864.
Gomersall, John R. 2,790,885.
Gomersall, John R. 2,795,062.
Gomersall, John R. 2,795,182.
Gomersall, John R. 2,805,497.
Gomersall, John R., and Ireland. 2,800,807.
Harry, William R. 2,813,947.
Ireland, Murray. 2,799,217.
Kline, Arthur E. 2,801,793.
Kline, Arthur E., and Webster. 2,806,361.
Kobler, Richard. 2,788,395.
Kobler, Richard. 2,800,531.
Kobler, Richard, and Kutik. 2,801,292.
Kyle, William D., and Van Ryan. 2,804,520.
La Forest, Louis Z., and Kobler. 2,799,733.
Loeffler, Alvin F., Stramowski, and Weinfurt. 2,810,522.
Logan, William W. 2,801,291.
- McGraw-Edison Co.: *See—Continued*
Maloney, Robert A. 2,791,648.
Matherne, Joseph L., and L. and R. Ewing. 2,812,271.
Minder, Peter M. 2,802,171.
Minder, Peter M. 2,810,865.
Minder, Peter M., and Schut. 2,794,154.
Newhall, Henry S., and Wynne. 2,812,375.
Postal, Robert H. 2,805,272.
Putz, Hector R. 2,794,091.
Rigert, Max, and Weinfurt. 2,806,926.
Schultz, Blaine H., and Minder. 2,799,807.
Smith, Martin R. 2,805,304.
Van Ryan, Anthony. 2,810,804.
Van Ryan, Anthony, and Date. 2,804,521.
Van Ryan, Anthony, and Date. 2,810,038.
Vieth, Albert B. 2,786,433.
Weinfurt, William J., and Stramowski. 2,817,247.
- McGraw-Edison Electric Co.: *See—*
Gomersall, John R. 2,815,592.
Logan, William W. 2,816,177.
- McGraw Electric Co.: *See—*
Butler, Charles E. 2,782,125.
Butler, Charles E., and Hazelwood. 2,782,126.
Clark, Philip B. 2,777,049.
Gomersall, John R. 2,779,849.
Gomersall, John R. 2,779,850.
Hazelwood, Robert N. 2,776,897.
Horelick, Samuel. 2,817,065.
Jeffrey, Richard B. 2,779,928.
Kowalski, Walter. 2,779,844.
Manke, George H. 2,783,410.
McAlister, Craig L. 2,790,049.
McCloud, George R. 2,783,328.
Spiece, Stanley J. 2,779,879.
Stoelting, Herman O. 2,777,095.
- McGraw, George F., Jr., to Western Electric Co., Inc. Strip winding apparatus. 2,781,935, 2-19-57, Cl. 242-55.
- McGraw, Leslie D., to the United States of America as represented by the Secretary of the Army. Primary cell depolarizer. 2,800,520, 7-23-57, Cl. 136-102.
- McGregor, Arthur N.: *See—*
French, Arthur A., and McGregor. 2,782,608.
- McGregor, Donald B. Self-cleaning moting rail for cotton gin. 2,776,455, 1-8-57, Cl. 19-58.
- McGregor, William A., Jr., and J. D. Mahoney, to Mobay Chemical Co. Polyurethane cushions. 2,785,739, 3-19-57, Cl. 155-179.
- McGrevy, George F., to Globe-Union Inc. Breaker point mechanism. 2,786,087, 3-19-57, Cl. 123-146.5.
- McGrew, Thomas A., and R. A. Wachter, to General Electric Co. Refrigerating apparatus having automatic defrost. 2,780,925, 2-12-57, Cl. 62-4.
- McGugin, Harry L., to Douglas Aircraft Co., Inc. Magnetic hose coupling. 2,793,057, 5-21-57, Cl. 285-9.
- McGuigan, John H., and O. J. Murphy, to Bell Telephone Laboratories, Inc. Multifrequency high speed signaling system employing pulses of signaling currents of predetermined duration based on orthogonal functions. 2,817,828, 12-24-57, Cl. 340-171.
- McGuinness, Bernard A. Electrical cooking devices. 2,804,530, 8-27-57, Cl. 219-19.
- McGuire, Clarence V. Method and apparatus for making a molded honeycomb structure. 2,780,946, 2-12-57, Cl. 77-62.
- McGuire, George E.: *See—*
Touchett, Vern T., Pharris, McGuire, and Kluge. 2,812,007.
- McGuire, Willis C., N. F. Morehouse, A. W. Walde, and H. E. Van Essen, Jr., to Dr. Salsbury's Laboratories. Methyl-phenyl-arsonic acid blackhead control compositions. 2,815,313, 12-3-57, Cl. 167-53.1.
- McHale, James J. Paint brush holders. 2,807,431, 9-24-57, Cl. 248-113.
- McHan, Brack B., to Calcium Carbonate Co. Compositions and method of producing a calcium carbonate carrier for insecticides. 2,786,012, 3-19-57, Cl. 167-42.
- McHenry, Thomas F., to Electric Regulator Corp. System of regulation. 2,780,769, 2-5-57, Cl. 323-66.
- McHugh, Hubert J. Removable transport-container locking mechanism. 2,812,974, 11-12-57, Cl. 296-35.
- McIlhenry, William F., A. B. Baker, and J. A. Clarke, to The Dow Chemical Co. Rotary scoop feeder. 2,814,399, 11-26-57, Cl. 214-17.
- McIlvaine, Oran T. Automatic headlight control apparatus. 2,807,752, 9-24-57, Cl. 315-83.
- McIlvaine, Oran T. Method of making photocells. 2,809,134, 10-8-57, Cl. 117-215.
- McIlvaine, William P. Keyseating machine. 2,786,397, 3-26-57, Cl. 90-45.
- McIlvin, Donald B., C. R. Campbell, Jr., and F. F. Chellis, to United Shoe Machinery Corp. Fastener inserting devices. 2,785,400, 3-19-57, Cl. 1-6.
- McInerney Spring and Wire Co.: *See—*
Silko, Louis J. 2,809,675.
- McIninch, Glenn W.: *See—*
George, Warren E., and McIninch. 2,810,293.
- McInnes, Alexander C.: *See—*
Jacobson, Moses G., De Luca, and McInnes. 2,795,756.
- McInnes, Henry S., and G. R. Stafford, deceased (by V. H. Stafford, administratrix), to Camp and McInnes, Inc. Hosiery packaging. 2,810,477, 10-22-57, Cl. 206-80.

- McInnes, Robert L., to The Grisco-Russell Co. Test plug for pressure vessels. 2,793,784, 5-28-57, Cl. 220-25.
- McInnis and Co., Inc.: *See—*
- McInnis, Joseph S. 2,817,006.
- McInnis, Joseph S., to McInnis and Co., Inc. Candle lamp construction. 2,817,006, 12-17-57, Cl. 240-98.
- McIntire, P. O., Co., The: *See—*
- Forbes, Sam J., and Schmidt. 2,815,688.
- McIntire, Robert L.: *See—*
- Bearer, Louis C., and McIntire. 2,782,106.
- McIntire, Robert L., to Phillips Petroleum Co. Process and apparatus for production of acetylene and carbon black. 2,805,131, 9-3-57, Cl. 23-209.4.
- McIntire, Robert L., J. W. Begley, and L. C. Bearer, to Phillips Petroleum Co. Pebble heater apparatus. 2,813,699, 11-19-57, Cl. 257-55.
- McIntire, Robert L., and R. O. Shelton, to Phillips Petroleum Co. Reboiled absorber operation. 2,815,650, 12-10-57, Cl. 62-175.5.
- McIntosh, A. Vern, Jr.: *See—*
- Fonken, Gunther S., Levin, and McIntosh. 2,778,842.
- Levin, Robert H., McIntosh, and Spero. 2,813,106.
- Magerlein, Barney J., McIntosh, and Levin. 2,791,585.
- McIntosh, Donald H., to American Smelting and Refining Co. Process of removal of zinc values from slag. 2,795,500, 6-11-57, Cl. 75-87.
- McIntosh, Frank H.: *See—*
- Sulzer, Peter G. 2,778,940.
- McIntosh, Harold A., to General Controls Co. Lighted room thermostat. 2,816,213, 12-10-57, Cl. 240-2.1.
- McIntosh, James A., to McIntosh Stamping Corp. Wheel disk and method of manufacture. 2,779,994, 2-5-57, Cl. 29-159.01.
- McIntosh, Ray H. Broiler grate scrapers. 2,810,144, 10-22-57, Cl. 15-105.
- McIntosh Stamping Corp.: *See—*
- McIntosh, James A. 2,779,994.
- McIntyre, Edward J.: *See—*
- Di Grado, Salvatore, and McIntyre. 2,808,178.
- Di Grado, Salvatore, and McIntyre. 2,808,179.
- McIntyre, Elmer L., to Morse Chain Co. Centrifugal clutch. 2,778,469, 1-22-57, Cl. 192-105.
- McIntyre, James W., and J. F. Hechtman, to Kimberly-Clark Corp. Cohesive wrapping paper and method for producing same. 2,803,560, 8-20-57, Cl. 117-80.
- McKaig-Hatch, Inc.: *See—*
- Hatch, Chauncey R., Jr. 2,813,444.
- Heuser, Richard. 2,817,259.
- McKain, Paul B.: *See—*
- Hess, Theophil A., and McKain. 2,778,053.
- McKann, Henry S. Combination flashing and chimney mounting. 2,800,850, 7-30-57, Cl. 98-46.
- McKay, Alexander S., to The Texas Co. Neutron gamma-ray well logging. Re. 24,383, 10-29-57, Cl. 250-71.
- McKay, Arthur F.: *See—*
- Garmaise, David L., and McKay. 2,792,404.
- McKay, Arthur F., and D. L. Garmaise, to Monsanto Canada Ltd. Imidazole derivatives. 2,782,205, 2-19-57, Cl. 260-309.6.
- McKay, Arthur F., R. O. Braun, and G. Y. Paris, to Monsanto Canada Ltd. Process for the production of 2,3,5,6 tetrahydro-1-imidaz (1,2- α) imidazole. 2,816,896, 12-17-57, Cl. 260-309.6.
- McKay Co., The: *See—*
- De Long, William T., and Ostrom. 2,789,048.
- De Long, William T., and Ostrom. 2,789,049.
- McKay, David D., to James B. Carter, Ltd. Immersion heater. 2,783,352, 2-26-57, Cl. 219-38.
- McKay, Dwight L., to Phillips Petroleum Co. Apparatus and process for the separation and purification of wax. 2,781,294, 2-12-57, Cl. 196-17.
- McKay, Dwight L., to Phillips Petroleum Co. Purification of polymerizable heterocyclic nitrogen compounds. 2,786,058, 3-19-57, Cl. 260-290.
- McKay, Dwight L., to Phillips Petroleum Co. Crystal purification apparatus and process. 2,791,333, 5-7-57, Cl. 210-179.
- McKay, Dwight L., to Phillips Petroleum Co. Organic separation with urea and thiourea. 2,813,851, 11-19-57, Cl. 260-96.5.
- McKay, Dwight L., to Phillips Petroleum Co. Crystal purification. 2,815,288, 12-3-57, Cl. 99-205.
- McKay, Harry M. Landing gear for truck trailer. 2,815,962, 12-10-57, Cl. 280-150.5.
- McKay, Herbert C. Temporary visors as for vehicles. 2,797,961, 7-2-57, Cl. 296-95.
- McKay, Kenneth G., to Bell Telephone Laboratories, Inc. Signal translating device. 2,786,880, 3-26-57, Cl. 136-89.
- McKay Machine Co., The: *See—*
- Bandy, Kenneth L. 2,800,288.
- Bandy, Kenneth L. 2,800,327.
- Shenk, William E. 2,800,561.
- McKay, William R. Grading and leveling scrapers. 2,779,113, 1-29-57, Cl. 37-180.
- McKeag, Alfred H., to General Electric Co. Divalent tin activated strontium and strontium-barium tetraphosphate phosphors. 2,809,167, 10-8-57, Cl. 252-301.4.
- McKeague, Edward D., and C. B. Kenyon, to Standard Oil Co. Fines recovery from fluid catalytic conversion system. 2,776,930, 1-8-57, Cl. 196-50.
- McKeand, Douglas J.: *See—*
- Jones, Frederick A., Newnham, and McKeand. 2,776,330.
- McKee, Abner S., $\frac{1}{2}$ to D. J. McKee. Snow removing machine. 2,781,592, 2-19-57, Cl. 37-12.
- McKee, Arthur G., & Co.: *See—*
- Grabau, Alexander A., and Herre. 2,789,809.
- McKee, David J.: *See—*
- McKee, Abner S. 2,781,592.
- McKee Development Corp.: *See—*
- McKee, Ralph H. 2,783,146.
- McKee, Ralph H. 2,784,203.
- McKee, Laird C. Blower unit. 2,800,272, 7-23-57, Cl. 230-117.
- McKee, Ralph H., to McKee Development Corp. Semi-hydrotropic chemical lignocellulose pulping process. 2,783,146, 2-26-57, Cl. 92-9.
- McKee, Ralph H., to McKee Development Corp. Process of producing furfural from vegetal matter using solubilizing salts as catalysts. 2,784,203, 3-5-57, Cl. 260-347.9.
- McKee, Robert B., Jr., to The Dow Chemical Co. Injection molding apparatus. 2,814,831, 12-3-57, Cl. 18-30.
- McKee, Ruby G.: *See—*
- McKee, William F. 2,789,325.
- McKee, Walter S., Jr., R. L., and L. E. Troth. Projector slide tray. 2,805,503, 9-10-57, Cl. 40-79.
- McKee, Walter W., to Collins & Aikman Corp. Dye kettle reel. 2,793,034, 5-21-57, Cl. 271-2.3.
- McKee, William F., deceased; R. G. McKee, executrix, to Dodge Steel Co. Core blowing apparatus. 2,789,325, 4-23-57, Cl. 22-10.
- McKeever, Charles H.: *See—*
- Clarke, Duane G., McKeever, and Wolfe. 2,810,767.
- Freimiller, Louis R., and McKeever. 2,786,035.
- Freimiller, Louis R., and McKeever. 2,786,036.
- McKelvey, Lawrence N., Jr., to Graver Tank & Mfg. Co., Inc. Horizontal high pressure separator. 2,812,034, 11-5-57, Cl. 183-2.7.
- McKenna, Alexander G., and K. H. Beeber, to Ward Leonard Electric Co. Voltage regulator. 2,791,740, 5-7-57, Cl. 322-24.
- McKenna, Edward J. Combination card storage receptacles and display boards. 2,815,854, 12-10-57, Cl. 206-44.
- McKenna, Francis E.: *See—*
- Buselli, Alio J., and McKenna. 2,794,784.
- McKenna, James C., to Diamond Alkali Co. Material handling method. 2,785,018, 3-12-57, Cl. 302-29.
- McKenna, Quentin H., to Horizons Titanium Corp. Method of producing alkali metal titanium fluorides in which the titanium has a valence of less than four. 2,793,097, 5-21-57, Cl. 23-88.
- McKenney, Henry F., to Sperry Rand Corp., Ford Instrument Co. Div. Magnetic pulse generator. 2,817,773, 12-24-57, Cl. 307-106.
- McKenney, Henry F., and R. C. Gilbert, to Sperry Rand Corp. Secant solver. 2,815,169, 12-3-57, Cl. 235-61.
- McKenney Mfg. Co.: *See—*
- Hollansworth, McFerrell. 2,799,042.
- McKenzie, Albert G., $\frac{3}{4}$ to J. E. Becker. Fence posts. 2,785,876, 3-19-57, Cl. 256-19.
- McKenzie, Charles A.: *See—*
- Killey, Robert F., Welch, and McKenzie. 2,815,334.
- McKenzie, Clarence M. Quick acting C-clamp. 2,779,366, 1-29-57, Cl. 144-305.
- McKenzie, George D. Pneumatic individually directed cotton harvester. 2,785,522, 3-19-57, Cl. 56-31.
- McKenzie, Leona R. Tape dispensing device. 2,804,971, 9-3-57, Cl. 206-61.
- McKenzie, Robert T.: *See—*
- Faustini, Albert J., and McKenzie. 2,778,966.
- McKenzie, Robert T., to General Electric Co. Cathode support strap. 2,808,527, 10-1-57, Cl. 313-82.
- McKeown, Charles G.: *See—*
- MacMillan, Robert D., McKeown, and Rosin. 2,817,907.
- McKeown, Charles G., to Controlled Heat & Air Ltd. Means for cooling the load of a coil annealing furnace or the like. 2,781,188, 2-12-57, Cl. 266-2.
- McKeown, Lewis A. Control device for paper driers. 2,796,678, 6-25-57, Cl. 34-43.
- McKeown, Michael: *See—*
- Friedman, Herbert, and McKeown. 2,789,242.
- McKernan, Edward J., to Seaquist Mfg. Corp. Aerosol bomb having spaced propellant and dispensable liquids. 2,794,579, 6-4-57, Cl. 222-399.
- McKernan, Edward J., to Seaquist Mfg. Corp. Aerosol bomb. 2,797,965, 7-2-57, Cl. 299-95.
- McKewen, John H., to Giddings & Lewis Machine Tool Co. Pre-select hydraulic shifting means. 2,811,053, 10-29-57, Cl. 77-28.
- McKibbin, John T.: *See—*
- Mahler, Peter A., and McKibbin. 2,817,220.
- McKiernan, Kenneth G. Jacket for phonograph records. 2,807,359, 9-24-57, Cl. 206-62.
- McKiernan-Terry Corp.: *See—*
- Jareckie, Eugene A. 2,780,196.
- Kupka, John J., and Shattuck. 2,789,540.
- Smaltz, John C., and Jareckie. 2,813,591.
- Snow, Frederick O., Jr. 2,776,758.
- Snow, Frederick O., Jr. 2,792,128.
- Stewart, Bruce D. 2,815,531.
- McKiff, Thomas J., to Miller Mfg. Corp. Sawing tool for cutting circular holes. 2,779,361, 1-29-57, Cl. 143-85.
- McKillop, William M.: *See—*
- Ryno, Earle R., and McKillop. 2,785,795.

- McKim, Walter E. Rodent traps. 2,780,024, 2-5-57, Cl. 43-70.
- McKinlay, Donald, Jr., to The Bristol Co. Cold-end compensator for multiple-point pyrometers. 2,780,097, 2-5-57, Cl. 73-361.
- McKinley, Charles W., to General Motors Corp. Air cleaner assembly. 2,778,446, 1-22-57, Cl. 183-14.
- McKinley, Fred E. Dual solenoid controlled apparatus for preventing release of contaminants from an internal combustion engine. 2,787,989, 4-9-57, Cl. 123-119.
- McKinley, Fred E. Governor controlled apparatus for preventing release of contaminants from an internal combustion engine. 2,787,990, 4-9-57, Cl. 123-119.
- McKinley, Fred E. Fluid actuated apparatus for preventing release of contaminants from an internal combustion engine. 2,787,991, 4-9-57, Cl. 123-119.
- McKinley, Hopper. Electric fan. 2,786,627, 3-26-57, Cl. 230-256.
- McKinley, James G., to The Dayton Rubber Co. Cushions and method for manufacturing the same. 2,815,515, 12-10-57, Cl. 5-341.
- McKinley, John K.: *See*—
Richmond, Robert C., Marsch, Hubndorff, McKinley, and Massin. 2,818,137.
- McKinley, John K., G. S. Bright, and R. F. Nelson, to The Texas Co. Process for producing low viscosity petrolatum oxidate. 2,818,419, 12-31-57, Cl. 260-451.
- McKinley, Joseph B., to Gulf Research & Development Co. Method of preparing impregnated catalysts. 2,783,211, 2-26-57, Cl. 252-455.
- McKinley, Joseph B., and M. J. Derrig, to Gulf Research & Development Co. Reactor adapted for containing fluidized particles. 2,786,742, 3-26-57, Cl. 23-288.
- McKinley, Joseph B., and M. J. Derrig, to Gulf Research & Development Co. Fluid contacting process involving fluidized particles. 2,786,801, 3-26-57, Cl. 196-53.
- McKinley, Norma J.: *See*—
Geary, Robert R. 2,786,935.
- McKinley, Ora G. Fishhook extractor. 2,777,244, 1-15-57, Cl. 43-53.5.
- McKinlev, Paul A.: *See*—
Arnold, David C., and McKinley. 2,786,179.
Wollan, Rolf W., and McKinley. 2,800,723.
- McKinley, Theodore D., to E. I. du Pont de Nemours and Co. Process of solidifying and remelting zinc. 2,805,934, 9-10-57, Cl. 75-65.
- McKinley, Walter E., to Crown Cork and Seal Co. Holder for stick type medicators, cosmetics and toilet preparations. 2,818,167, 12-31-57, Cl. 206-56.
- McKinney, Lawrence A.: *See*—
Evans, Richard R., Mahacek, and McKinney. 2,780,361.
- McKinney, Leonard L.: *See*—
Uhing, Eugene H., and McKinney. 2,788,336.
- McKinney Mfg. Co.: *See*—
Hollansworth, McFerrell. 2,797,119.
- McKinney, William P., to Imperial Chemical Industries Ltd. Ammonium chloride. 2,797,982, 7-2-57, Cl. 23-100.
- McKinney, William W. Method for controlling hemorrhage in deborned cattle. 2,793,976, 5-28-57, Cl. 167-53.2.
- McKinnis, Art C., to Union Oil Co. of California. Aromatic phosphonic acid esterification catalysts. 2,776,985, 1-8-57, Cl. 260-475.
- McKinnis, Art C., to Union Oil Co. of California. Separation of isophthalic and terephthalic acids. 2,794,831, 6-4-57, Cl. 260-525.
- McKinnis, Art C., to Union Oil Co. of California. Oxidation of aromatic compounds. 2,809,204, 10-8-57, Cl. 260-346.7.
- McKinnis, Art C., to Brea Chemicals, Inc. Production of nitroalkanes and carbonyl compounds. 2,811,560, 10-29-57, Cl. 260-597.
- McKinnis, Art C., to Union Oil Co. of California. Separation of terephthalic acid from isophthalic acid. 2,813,120, 11-12-57, Cl. 260-525.
- McKinnon, Bain L. Collar tab supports. 2,795,794, 6-18-57, Cl. 2-132.
- McKinnon, Bain L. Squeeze bottle nebulizer. 2,796,294, 6-18-57, Cl. 299-88.
- McKinnon, Bain L. Orifice nebulizer. 2,796,295, 6-18-57, Cl. 299-88.5.
- McKinnon Chain Corp.: *See*—
Devonshire, William H., Wilson, and Parker. 2,817,747.
- McKinzie, Kline: *See*—
Turzillo, Lee, and McKinzie. 2,779,575.
- McKinzie, Otis B. Plow pilot. 2,790,866, 4-30-57, Cl. 97-46.81.
- McKissick, Charles C. Automatic fire extinguisher. 2,800,966, 7-30-57, Cl. 169-2.
- McKleven, John R., to Celanese Corp. of America. Production of anhydrous ketenes. 2,806,064, 9-10-57, Cl. 260-585.5.
- McKnight, Samuel J. Distance measuring device. 2,814,879, 12-3-57, Cl. 33-64.
- McKnight, William: *See*—
Nelson, Carl. 2,813,267.
- McKown, Glen D., to Automatic Safety Fuses and Flares, Inc. Fusee lighter. 2,807,208, 9-24-57, Cl. 102-37.8.
- McLafferty, George H., to United Aircraft Corp. Bleed means for confined supersonic flow. 2,811,828, 11-5-57, Cl. 60-35.6.
- McLagan, Russell G., to The American Laundry Machinery Co. Sleeve holder for pressing machine. 2,778,550, 1-22-57, Cl. 223-57.
- McLain, Joseph H., and T. A. Ruble. Ignition mixture. 2,792,294, 5-14-57, Cl. 52-2.
- McLamore, William M.: *See*—
Bavley, Abraham, and McLamore. 2,791,602.
Bavley, Abraham, and McLamore. 2,791,603.
- McLaren, Donald M.: *See*—
Miller, John M., Urquhart, and McLaren. 2,807,223.
- McLaren, Donald M., to The Babcock & Wilcox Co. Apparatus for burning solid fuels. 2,800,094, 7-23-57, Cl. 110-105.5.
- McLarty, Shirley, to Plastex Molding Co. Advertising spinner or flutter mill. 2,797,510, 7-2-57, Cl. 40-39.
- McLauchlan, A. B. Co., Inc.: *See*—
McLauchlan, Arthur B. 2,800,938.
- McLauchlan, Arthur B., to A. B. McLauchlan Co., Inc. Slicer for berries and the like. 2,800,938, 7-30-57, Cl. 146-73.
- McLauchlan, Wallace H.: *See*—
Waterhouse, William J., McLauchlan, and Claverie. 2,797,672.
- McLaughlin, Guy, Jr., to Armstrong Cork Co. Closure assembly device. 2,782,815, 2-26-57, Cl. 144-2.
- McLaughlin, John J., to The Wilkie Co. Gravity conveyer section. Re. 24,319, 5-21-57, Cl. 193-35.
- McLaughlin, Paul J., and B. B. Kine, to Rohm & Haas Co. Coated paper products and methods of making them. 2,790,735, 4-30-57, Cl. 117-155.
- McLaughlin, Paul J., W. W. Toy, and T. E. Bockstahler, to Rohm & Haas Co. Methods of making coated paper products and the products obtained. 2,790,736, 4-30-57, Cl. 117-155.
- McLaughlin, Robert C.: *See*—
Hollman, Peter I., and McLaughlin. 2,791,212.
Marden, Norman D., and McLaughlin. 2,812,660.
- McLaughlin, William I. Valve for reversible flow pressure fluid system. 2,808,811, 10-8-57, Cl. 121-46.5.
- McLay, Gavin S., to Stewarts and Lloyds Ltd. Pilger mill apparatus. 2,783,666, 3-5-57, Cl. 80-14.
- McLay, Gavin S., to Stewarts and Lloyds Ltd. Manufacture of metal hollows and apparatus therefor. 2,803,134, 8-20-57, Cl. 80-62.
- McLay, John: *See*—
Stock, Robert J., and McLay. 2,793,993.
- McLean, Allan D.: *See*—
Fontaine, John G., and McLean. 2,783,303.
- McLean, Colin C. Sofa bed. 2,808,595, 10-8-57, Cl. 5-43.
- McLean, Coreen. Handbags and the like. 2,792,043, 5-14-57, Cl. 150-28.
- McLean Development Laboratories, Inc.: *See*—
Lardin, Arthur R. 2,778,226.
Lardin, Arthur R. 2,802,338.
- McLean, Donald H., and P. J. Way, to Esso Research and Engineering Co. Textile oil. 2,810,694, 10-22-57, Cl. 252-8.8.
- McLean, Leland O. Log loader apparatus. 2,778,514, 1-22-57, Cl. 214-147.
- McLean, Leland O., $\frac{1}{4}$ to W. D. Carothers. Multiple reeved level luffing single hoist line for cranes and derricks. 2,807,374, 9-24-57, Cl. 212-58.
- McLean, Ralph M., Jr., to Standard Railway Equipment Mfg. Co. Wheel hold-down device. 2,781,615, 2-19-57, Cl. 51-104.
- McLean, Robert E., to J. C. Hockery as trustee. Can opener. 2,814,103, 11-26-57, Cl. 30-8.5.
- McLean, Robert F., to General Motors Corp. Automobile refrigerating apparatus. 2,780,076, 2-5-57, Cl. 62-117.1.
- McLean, Robert F., and R. Schilling, to General Motors Corp. Aerodynamic brake for motor vehicles. 2,797,951, 7-2-57, Cl. 296-1.
- McLean, William B., to the United States of America as represented by the Secretary of the Navy. Electric motor. 2,798,995, 7-9-57, Cl. 318-254.
- McLean, William L., Jr., to Parke, Davis & Co. Poliomyelitis vaccine. 2,793,160, 5-21-57, Cl. 167-78.
- McLeland, Harold H.: *See*—
Lattnr, Emert J., and McLeland. 2,805,795.
Lattnr, Emert J., and McLeland. 2,805,796.
- McLellan, George W. Gauging device for liquids under pressure. 2,795,954, 6-18-57, Cl. 73-298.
- McLellan, Kenneth M., to Industrial Rayon Corp. Apparatus for forming transfer tails in continuous process machines. 2,787,112, 4-2-57, Cl. 57-34.
- McLellan, Kenneth M., to Industrial Rayon Corp. Method and apparatus for the separation of a running strand comprised of a plurality of low twist yarns. 2,801,455, 8-6-57, Cl. 23-1.
- McLemore, Bruce B. Card holder. 2,785,901, 3-19-57, Cl. 273-150.
- McLendon, Quincy W. Paint applicators of the manually operated roller type. 2,813,292, 11-19-57, Cl. 15-230.
- McLeod, Charles A., to A. S. Campbell Co., Inc. Automatic brake release mechanisms. 2,781,117, 2-12-57, Cl. 192-4.
- McLeod, Donald, to United States Steel Corp. Hand tool for feeding strip to a rolling mill. 2,791,460, 5-7-57, Cl. 294-19.
- McLeod, Donald G.: *See*—
Way, Thomas H., and McLeod. 2,793,571.

- McLeod, John H., to Eastman Kodak Co. Mount for reflecting axicon. 2,775,918, 1-1-57, Cl. 88—14.
- McLeod, John H., to Eastman Kodak Co. Lens centering clamp and testing device. 2,807,982, 10-1-57, Cl. 88—57.
- McLeod, Kenneth A., to the United States of America as represented by the Secretary of the Navy. Portable magnetometer. 2,803,798, 8-20-57, Cl. 324—43.
- McLeod, Norman W. Multi-chambered vehicle tire. 2,780,266, 2-5-57, Cl. 152—340.
- McLerran, Archie R., to Dresser Equipment Co. Combined brace and hoist. 2,808,911, 10-8-57, Cl. 189—11.
- McLain, Earl L. Hub cap lock. 2,807,157, 9-24-57, Cl. 70—169.
- McLoad, Kenneth W.: *See—*
Randall, Clifton O., Zepernick, and McLoad. 2,793,355.
- McLuen, Carl T., to S & C Electric Co. Hydraulic actuating mechanism for operating electric circuit breakers and the like. 2,795,932, 6-18-57, Cl. 60—51.
- McLuen, Carl T., to Minneapolis-Honeywell Regulator Co. Adjustable pivot pneumatic control device. 2,811,165, 10-29-57, Cl. 137—85.
- McMackin, Edward G., J. E. McMillan, G. W. Miles, and W. E. Mooz, to Titanium Metals Corp. of America. Method of producing titanium metal. 2,804,386, 8-27-57, Cl. 75—84.5.
- McMahan, Charles R.: *See—*
Brown, Kenneth M., and McMahan. 2,781,296.
- McMahon, James E., Jr.: *See—*
Dodd, Arthur E., and McMahon. 2,816,217.
- McManigal, Robert M.: *See—*
Eubanks, Floyd G. 2,811,063.
- McManus, Bernard T., to P & M Enterprises, Inc. Chance device and control means therefor. 2,786,682, 3-26-57, Cl. 273—143.
- McManus, Grannan P. Pea or bean sheller. 2,808,836, 10-8-57, Cl. 130—30.
- McMaster, Archie J., W. H. Kitto, and K. Burian, to G-M Laboratories, Inc. Floor polishing and scrubbing machine. 2,785,424, 3-19-57, Cl. 15—49.
- McMaster, David. Automatic supply means for animal feeding troughs. 2,786,448, 3-26-57, Cl. 119—52.
- McMaster, Wardley D., to General Motors Corp. Spray booth. 2,805,841, 9-10-57, Cl. 261—3.
- McMath, Charles W., to The Buckeye Cellulose Corp. Flavoring material and method of making the same. 2,785,983, 3-19-57, Cl. 99—140.
- McMichael, John D.: *See—*
Karn, James D., McMichael, and McMullen. 2,783,855.
- McMillan, Brockway, to Bell Telephone Laboratories, Inc. Electronic computing device. 2,812,133, 11-5-57, Cl. 235—61.
- McMillan, Edwin M., to Chromatic Television Laboratories, Inc. Target structure for color television display tubes. 2,811,661, 10-29-57, Cl. 313—78.
- McMillan, Hugh P., to Samuel M. Dell and Co., Inc. Ferrule assembly for paint brushes. 2,779,043, 1-29-57, Cl. 15—193.
- McMillan, James G., Jr.: *See—*
Bennett, James L., Brooks, McMillan, and Plunkett. 2,776,965.
- McMillan, James G., Jr., and W. L. Plunkett, to Hercules Powder Co. Recovering spent nitrating liquor. 2,776,944, 1-8-57, Cl. 252—182.
- McMillan, James G., Jr., and W. L. Plunkett, to Hercules Powder Co. Manufacture of nitrocellulose. 2,776,964, 1-8-57, Cl. 260—220.
- McMillan, James G., Jr., and W. L. Plunkett, to Hercules Powder Co. Manufacture of nitrocellulose. 2,776,966, 1-8-57, Cl. 260—220.
- McMillan, John E.: *See—*
McMackin, Edward G., McMillan, Miles, and Mooz. 2,804,386.
- McMillan, Lachlan, and R. Stocker, to Ford Motor Co. Motor vehicle driveline mounting. 2,776,174, 1-1-57, Cl. 308—28.
- McMillan, Stephen L., to General Electric Co. Clothes dryer lint separator. 2,813,353, 11-19-57, Cl. 34—79.
- McMillan, Thomas S., to the United States of America as represented by the United States Atomic Energy Commission. Fluorination process. 2,811,413, 10-29-57, Cl. 23—14.5.
- McMillin, Frederick A., to California Research Corp. Apparatus for liquid-vapor separation. 2,786,546, 3-26-57, Cl. 183—79.
- McMorrin, Francis E., and N. S. C. Rafter. Delayed action switch. 2,794,668, 6-4-57, Cl. 200—34.
- McMullan, Keith S.: *See—*
Shipman, Roy W., and McMullan. 2,813,245.
- McMullen, Eugene J.: *See—*
De Garmo, Oliver, and McMullen. 2,795,614.
- McMullen, Wesley W.: *See—*
Karn, James D., McMichael, and McMullen. 2,783,855.
- McMullen, Wesley W., to General Motors Corp. Cleaner silencer. 2,783,857, 3-5-57, Cl. 183—73.
- McMullen, Wesley W., to General Motors Corp. Air intake device for engines. 2,789,662, 4-23-57, Cl. 183—44.
- McMullen, Wesley W., and J. N. Heller, to General Motors Corp. Filtering device. 2,779,431, 1-29-57, Cl. 183—15.
- McMullin, Earl L., to Orchard Industries, Inc. Fishing rod handle and reel seat. 2,782,547, 2-26-57, Cl. 43—22.
- McMullin, George M., to Automatic Devices Co., Inc. Automatic taximeter control device. 2,815,911, 12-10-57, Cl. 235—30.
- McMurray, Arthur W., to Ansonia Mills, Inc. Non-slip or friction-surfaced extensible woven fabric and method of producing said fabric. 2,809,673, 10-15-57, Cl. 139—423.
- McMurray, George F.: *See—*
Lambert, Bruno A. 2,789,287.
- McMurray, John C. Bug deflector for automobiles. 2,790,676, 4-30-57, Cl. 296—91.
- McMurray, Paul H., and J. M. Haggard. Hog restraining device. 2,801,612, 8-6-57, Cl. 119—98.
- McMurry, Arthur A., to Special Textiles, Inc. Drawsheet. 2,779,035, 1-29-57, Cl. 5—354.
- McMurry, Glenn D. Film or tape reader. 2,810,019, 10-15-57, Cl. 179—100.1.
- McNab, Inc.: *See—*
Channon, Kenneth F., Jr., and Estelle. 2,780,773.
- McNabney, Ralph, to the United States of America as represented by the United States Atomic Energy Commission. Absorption of iodine vapor. 2,795,482, 6-11-57, Cl. 23—87.
- McNair, Hugh N., S. B. Pelot, and W. F. Eldredge. Fluid proportioning device. 2,780,493, 2-5-57, Cl. 299—84.
- McNally, Edward M., to Voorhis-tiebout Co., Inc. Soap dispenser. 2,792,863, 5-21-57, Cl. 146—61.
- McNally, James A. Jet dart. 2,777,391, 1-15-57, Cl. 102—38.
- McNally, John G., 50% to M. E. McNally. Wire loop former. 2,802,467, 8-13-57, Cl. 128—303.
- McNally, Mary E.: *See—*
McNally, John G. 2,802,467.
- McNally Pittsburgh Mfg. Corp.: *See—*
Pate, Robert L. 2,795,141.
- McNamara, John E., and C. A. Sherman, to Weyerhaeuser Timber Co. Packaging apparatus. 2,817,937, 12-31-57, Cl. 53—198.
- McNamara, Paul E. Paint brush storage device. 2,782,909, 2-26-57, Cl. 206—15.1.
- McNaney, Joseph T., to General Dynamics Corp. Electrostatic recording apparatus. 2,777,745, 1-15-57, Cl. 346—74.
- McNaney, Joseph T., to Bendix Aviation Corp. Ground controlled aircraft landing system. 2,782,411, 2-19-57, Cl. 343—7.3.
- McNaney, Joseph T., to General Dynamics Corp. Cathode ray display tube with improved character selection. 2,790,103, 4-23-57, Cl. 313—69.
- McNaney, Joseph T., to General Dynamics Corp. Cathode ray apparatus. 2,803,769, 8-20-57, Cl. 313—77.
- McNaney, Joseph T., to General Dynamics Corp. Image storage apparatus. 2,805,860, 9-3-57, Cl. 315—11.
- McNaney, Joseph T., to General Dynamics Corp. Analog data converter. 2,811,665, 10-29-57, Cl. 315—8.5.
- McNaney, Joseph T., to General Dynamics Corp. Electron beam deflection control system. 2,811,668, 10-29-57, Cl. 315—17.
- McNatt, Eugene M., to the United States of America as represented by the Secretary of the Navy. Torque applying device. 2,795,956, 6-18-57, Cl. 74—5.4.
- McNatt, Eugene M., to Esso Research and Engineering Co. Wave detection in seismic prospecting. 2,803,001, 8-13-57, Cl. 340—15.
- McNaughton, Roy A., to Sylvania Electric Products Inc. Tapper for electron tubes. 2,794,950, 6-4-57, Cl. 324—20.
- McNeece, James A.: *See—*
Hutchens, J. K., and McNeece. 2,785,907.
- McNeely Co., Inc.: *See—*
McNeely, Ray J. 2,795,837.
McNeely, Ray J. 2,795,838.
- McNeely, George A., 1/2 to G. E. McNeely. Boat loading and carrying racks for automobiles. 2,797,007, 6-25-57, Cl. 214—450.
- McNeely, George E.: *See—*
McNeely, George A. 2,797,007.
- McNeely, Ray J., to McNeely Co., Inc. Skull cap holder for securing a skull cap to its skull portion. 2,795,837, 6-18-57, Cl. 27—21.
- McNeely, Ray J., to McNeely Co., Inc. Headrest and leg rest. 2,795,838, 6-18-57, Cl. 27—21.
- McNeice, James C., to Massey-Harris-Ferguson (Sales) Ltd. Front end loader attachment. 2,779,491, 1-29-57, Cl. 214—131.
- McNeice, James C., to The Massey-Harris Co. Hitch arrangement for tractors of the connection facilitating type. 2,791,444, 5-7-57, Cl. 280—479.
- McNeice, James C., and A. Patterson, to Massey-Harris-Ferguson (Sales) Ltd. Tip scoop. 2,781,928, 2-19-57, Cl. 214—140.
- McNeight, Samuel A.: *See—*
Dineen, Francis H., McNeight, and Vining. 2,777,760.
- McNeill, Gomer T., to Photogrammetry, Inc. Panorama camera. 2,794,379, 6-4-57, Cl. 95—16.
- McNeil Laboratories, Inc.: *See—*
Cain, Cornelius K. 2,786,841.
Cain, Cornelius K. 2,798,070.
Sam, Joseph. 2,780,633.
Swain, Ansel P. 2,800,485.
- McNeil Machine & Engineering Co., The: *See—*
Bandy, Owen L. 2,807,278.
Fox, Alexander P., and Reisert. 2,777,610.
Klein, Victor G. 2,813,949.
Klein, Victor G., and Mueller. 2,783,713.
Klein, Victor G., and Mueller. 2,793,593.
Mueller, Carl H. 2,808,779.

- McNeill Machine & Engineering Co., The: *See*—Continued
 Mueller, Carl H., Rotter, and Schneller. 2,818,476.
 Rotter, Lutwin C. 2,787,225.
 Soderquist, Leslie E. 2,775,789.
 Soderquist, Leslie E. 2,808,618.
 Soderquist, Leslie E. 2,812,544.
 Soderquist, Leslie E. 2,812,545.
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- McNeill, Albert G., to Bachmann Bros., Inc. Door for toy house. 2,780,028, 2-5-57, Cl. 46-19.
- McNeill, D. R., Jr.: *See*—
 Morrison, Harold E. 2,788,167.
- McNeill, Eric: *See*—
 Rideal, Eric K., and McNeill. 2,812,301.
- McNeill, Francis R., and J. A. Silbereis, to The Huffman Mfg. Co. Rotary disc mower cutter mounting means. 2,793,484, 5-28-57, Cl. 56-25.4.
- McNeill, Harry L. Ore concentration and apparatus therefor. 2,777,577, 1-15-57, Cl. 209-159.
- McNeill, Jon J., to Westinghouse Electric Corp. Flip-flop elements for control systems. 2,790,915, 4-30-57, Cl. 307-88.
- McNeill, Robert C.: *See*—
 Bauer, Robert F., McNeill, and Ledbetter. 2,808,229.
- McNeill, Robert C., H. Stratton, and A. D. Rhodes, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Off-shore drilling. 2,808,230, 10-1-57, Cl. 255-2.5.
- McNeill, William, to the United States of America as represented by the Secretary of the Army. Electrolytic protective coating for magnesium. 2,778,789, 1-22-57, Cl. 204-56.
- McNett, Robert E.: *See*—
 Boyer, Raymond W. 2,798,670.
- McNew, George L.: *See*—
 Visor, Frederick C., McNew, Koch, and Goenaga. 2,777,791.
- McNulty, Frank E.: *See*—
 Hopkins, John R., and McNulty. 2,794,483.
- McNulty, George M.: *See*—
 Cyphers, Elmer B., and McNulty. 2,813,890.
- McNulty, Joseph D., and E. A. Wich. Emulsion coating composition containing a synthetic resin, wood flour, and plaster of Paris. 2,806,008, 9-10-57, Cl. 260-17.4.
- McNutt, Bill R. Holders for films, sheets, and the like. 2,777,372, 1-15-57, Cl. 95-69.
- McNutt, John, to James Lees and Sons Co. Backing fabric control means for pile tufting machines. 2,818,037, 12-31-57, Cl. 112-79.
- McNutt, Louis C. Automatic pipe welding apparatus. 2,795,689, 6-11-57, Cl. 219-125.
- McOmber, Dean C. Apparatus for drying grain as thrashed. 2,777,212, 1-15-57, Cl. 34-86.
- McOrlly, Joseph, to Edwin L. Wiegand Co. Electric heaters. 2,790,062, 4-23-57, Cl. 219-37.
- McPhaden, Bruce: *See*—
 Bean, Morris M., and McPhaden. 2,782,477.
- McPhail, Robert G.: *See*—
 Franck, Kurt, and McPhail. 2,814,723.
- McPhee, Alexander H., and T. H. Reid, to Hepworth Machine Co., Inc. Water cooled brakes. 2,803,315, 8-20-57, Cl. 188-264.
- McPhee, Raymond D., to Joy Mfg. Co. Hinge pin lock. 2,780,109, 2-5-57, Cl. 74-254.
- McPhee, Raymond D., to Joy Mfg., Co. Hinge pin lock. 2,802,369, 8-13-57, Cl. 74-254.
- McPherson, Donald F.: *See*—
 Osborne, Alec V., and McPherson. 2,808,657.
- McPherson, Elmer A., to Upton Electric Furnace Co. Electrical service and heat dissipating connection for electrodes. 2,788,379, 4-9-57, Cl. 13-16.
- McPherson, James B., Jr.: *See*—
 Geoghegan, John T., and McPherson. 2,784,207.
- McPherson, James F., to Merck & Co., Inc. 1-acetyl-6-methoxy-9-methyl-3,4,5,6,7,8,9,10-octahydronaphthalene. 2,813,906, 11-19-57, Cl. 260-586.
- McPherson, Paul M. Thickness gauges. 2,817,150, 12-24-57, Cl. 33-147.
- McPhilly, Richard C. Knock-down furniture construction. 2,800,952, 7-30-57, Cl. 155-124.
- McQuaid, Howard S., to E. I. du Pont de Nemours and Co. Preparation of cyclohexyl sulfamic acid and its salts. 2,804,477, 8-27-57, Cl. 260-563.
- McQuaid, John G.: *See*—
 Muller, George H., and McQuaid. 2,815,099.
- McQuay-Norris Mfg. Co.: *See*—
 Hantack, Melvin. 2,813,180.
 Mayfield, George C. 2,811,399.
 Mayfield, George C. 2,811,762.
- McQueary, Milton F., $\frac{1}{2}$ to J. M. Boast. Knife and sheath with latch means. 2,783,536, 3-5-57, Cl. 30-151.
- McQueen, Madelyn A.: *See*—
 Woodward, Mary F., and McQueen. 2,807,023.
- McQuigg, Herbert C.: *See*—
 Guthrie, William C., Jr., and McQuigg. 2,814,825.
- McQuillen, Howard R., and R. J. Kistler, to Radio Corp. of America. Cathode-ray tube. 2,806,162, 9-10-57, Cl. 313-64.
- McQuiston, Raymond C. Method of preparing fiber dispersions containing an elastomeric binder. 2,807,543, 9-24-57, Cl. 92-21.
- McQuown, Marshall G., $\frac{1}{4}$ to A. M. Cibula. Portable hospital bathtub apparatus. 2,798,229, 7-9-57, Cl. 4-179.
- McKae, Edwin C., to Ford Motor Co. Vehicle steering assembly with ball joint suspension. 2,779,603, 1-29-57, Cl. 280-95.
- McRae, Edwin C., to Ford Motor Co. Tractor hydraulic system. 2,811,016, 10-29-57, Cl. 60-52.
- McRae, Wayne A., and N. W. Rosenberg, to Ionics, Inc. Treatment of electrolytic solutions. 2,777,811, 1-15-57, Cl. 204-151.
- McRea, John S., to The Sireno Co., Inc. Rotary beam warning light. 2,814,029, 11-19-57, Cl. 340-87.
- McKeynolds, Oliver B., Jr. Exploration plug. 2,811,839, 11-5-57, Cl. 61-35.
- McSherry, Thomas M. Mechanical analogue computer for use in a position indicator. 2,813,675, 11-19-57, Cl. 235-61.
- McShirley, Robert C. Machine tool having an oscillatable tool spindle and plural work holders movable in a circular path. 2,803,840, 8-27-57, Cl. 10-130.
- McTaggart, Edna R. Washing machine for Venetian blinds. 2,808,843, 10-8-57, Cl. 134-159.
- McTaggart, James E., to Admiral Corp. Dual delay automatic gain control circuit. 2,809,287, 10-8-57, Cl. 250-20.
- McTurk, William E.: *See*—
 Matuszak, Alfred H., McTurk, Cottle, and Young. 2,796,401.
- McVeigh, John R., to Kennametal Inc. Turbine wheel assembly. 2,802,680, 8-13-57, Cl. 287-53.
- McVeigh, John R. Blower fans. 2,810,513, 10-22-57, Cl. 230-134.
- McVety, Clyde E., to The Orr Felt and Blanket Co. Loom attachment for auxiliary pattern chain. 2,778,380, 1-22-57, Cl. 139-77.
- McVicker, James H. Automobile window screen. 2,805,712, 9-10-57, Cl. 160-369.
- McVicker, Robert F., and R. E. Taggart, to Lynch Corp. Wrapping machine feeder. 2,790,531, 4-30-57, Cl. 198-30.
- McWade, John E.: *See*—
 Sulpizio, Thomas J., and McWade. 2,806,988.
- McWane Cast Iron Pipe Co.: *See*—
 Case, Samuel L. 2,806,779.
- McWethy, Irvin E., to Admiral Corp. Centrifugal-type washing machine. 2,793,757, 5-28-57, Cl. 210-365.
- McWhirter, Eric M. S., to International Standard Electric Corp. Document jacketing and encoding machine. 2,806,335, 9-17-57, Cl. 53-78.
- McWhirter, Eric M. S., and S. B. Ost, to International Electric Corp. Apparatus and method for comparing recorded information. 2,785,388, 3-12-57, Cl. 340-149.
- McWhirter, Eric M. S., and S. B. Ost, to International Standard Electric Corp. Apparatus for microfilming documentary records. 2,787,190, 4-2-57, Cl. 88-24.
- McWhirter, Eric M. S., and F. W. Warden, to International Standard Electric Corp. Memory system. 2,814,440, 11-26-57, Cl. 235-61.11.
- McWhorter, Harold W. Disposable toothbrush. 2,793,381, 5-28-57, Cl. 15-136.
- McWhorter, John R., to E. I. du Pont de Nemours and Co. Process for drying silica aquagel. 2,810,207, 10-22-57, Cl. 34-9.
- McWhorter, Willis N.: *See*—
 Haase, Bartholomew, McWhorter, Dale, and Stahl. 2,797,659.
- McWilliams, Charles W., to Bendix Aviation Corp. Temperature compensated motor control system. 2,776,397, 1-1-57, Cl. 318-328.
- McWilliams, James B.: *See*—
 Hursh, Samuel R., and McWilliams. 2,789,516.
- McWilliams, James B., to Railway Maintenance Corp. Ballast cleaning machine. 2,814,387, 11-26-57, Cl. 209-247.
- Meacham, J. E.: *See*—
 Shepherdson, William L. 2,788,060.
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- Meacham, Larned A.: *See*—
 Busala, Alessandro, and Meacham. 2,818,470.
- Meacham, Larned A., to Bell Telephone Laboratories, Inc. Equalizing circuit. 2,801,288, 7-30-57, Cl. 179-81.
- Meacham, Larned A., to Bell Telephone Laboratories, Inc. Subscriber telephone set. 2,808,462, 10-1-57, Cl. 179-81.
- Mead, A. Reginald: *See*—
 Mead, Ruth S. 2,799,480.
- Mead Corp., The: *See*—
 Shick, Philip E. 2,788,273.
- Mead, Donald W., to Ventura Farms Frozen Foods, Inc. Compressed air product ejector. 2,788,030, 4-9-57, Cl. 141-147.
- Mead, Earl S. Instrument for drawing and measuring arcs. 2,817,903, 12-31-57, Cl. 33-27.
- Mead, Homer A. Tin snips. 2,803,058, 8-20-57, Cl. 30-252.
- Mead, Howard C.: *See*—
 Falge, Robert N., and Mead. 2,783,452.
 Falge, Robert N., and Mead. 2,800,641.
- Mead, Howard C., and R. C. Miller, to General Motors Corp. Method of uniting metal to plastic. 2,809,399, 10-15-57, Cl. 18-59.
- Mead Johnson & Co.: *See*—
 Barton, Raymond W. 2,804,224.
 Campbell, Kenneth N. 2,816,133.
 Miller, Robert H. 2,805,501.
- Mead, Ruth S., deceased; A. R. Mead, administrator. Ornamental fence construction. 2,799,480, 7-16-57, Cl. 256-19.

- Mead Specialties Co., Inc.: *See*—
Lieser, Mathias J. 2,792,019.
Lieser, Mathias J. 2,792,020.
- Mead, Theodore E. Handicap computer. 2,806,650, 9-17-57, Cl. 235-88.
- Mead, William H. Slurry mixing method and apparatus. 2,795,403, 6-11-57, Cl. 259-1.
- Mead, William H., and A. A. Zambruno, to W. H. Mead. Abrasive blasting apparatus. 2,810,991, 10-29-57, Cl. 51-8.
- Meade, Leonard P.: *See*—
Hunter, Loy R., and Meade. 2,817,235.
- Meade, Leonard P., to Phillips Petroleum Co. Underground storage system. 2,780,070, 2-5-57, Cl. 62-1.
- Meade, Leonard P., and G. F. Downs, Jr., to Phillips Petroleum Co. Underground storage system. 2,796,739, 6-25-57, Cl. 62-1.
- Meade, Richard S.: *See*—
Rice, Charles W., and Meade. 2,798,546.
- Meade, Robert C., to the United States of America as represented by the Secretary of the Navy. Electronic motor. 2,797,376, 6-25-57, Cl. 318-254.
- Meador, Ralph I. Kitchen appliance. 2,803,057, 8-20-57, Cl. 30-4.
- Meadors, Victor G.: *See*—
Freeman, William A., Jr., and Meadors. 2,818,231.
- Meadors, Victor G., to Esso Research and Engineering Co. Selective plugging procedure for improving secondary recovery operations. 2,800,184, 7-23-57, Cl. 166-9.
- Meadowcroft, Stanley, and G. Camac, to A. V. Roe & Co., Ltd. Bomb and like carriers for aircraft. 2,802,397, 8-13-57, Cl. 89-1.5.
- Meadows, Clyde J., to Syndreco. Electronic music instruction device. 2,791,147, 5-7-57, Cl. 84-470.
- Meadows, Geoffrey W., to E. I. du Pont de Nemours and Co. Stabilized soils. 2,801,933, 8-6-57, Cl. 106-193.
- Meadows, James L.: *See*—
Oosterhout, Johan C. D., Meadows, Miller, and Barger. 2,797,384.
- Meadows, Stanley G., L. Hallas, A. H. Coppard, and G. H. King, to Southern United Telephone Cables Ltd. Testing of the insulation of electric conductors. 2,805,391, 9-3-57, Cl. 324-54.
- Meadville Research Products Corp.: *See*—
Dotto, John. 2,799,367.
Dotto, John. 2,801,714.
- Meagher, Everett P. Road shaving equipment having an adjustable disc housing. 2,804,294, 8-27-57, Cl. 262-20.
- Meagher, George: *See*—
Meagher, Walter D. and G. 2,784,095.
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Meagher, Walter D. and G. 2,814,261.
- Meagher, John R.: *See*—
Coate, Ralph S., and Meagher. 2,782,380.
- Meagher, John R., and J. F. Sterner, to Radio Corp. of America. System for generating a bar pattern on a cathode ray tube. 2,818,526, 12-31-57, Cl. 315-22.
- Meagher, Walter D. and G. Tempering or seeding of chocolate. 2,784,095, 3-5-57, Cl. 99-23.
- Meagher, Walter D. and G. Chocolate and like enrobing machines. 2,787,443, 4-2-57, Cl. 257-4.
- Meagher, Walter D. and G. Drive arrangement for coating or enrobing machines. 2,788,766, 4-16-57, Cl. 118-24.
- Meagher, Walter D. and G. Machine for depositing viscous or plastic materials. 2,814,261, 11-26-57, Cl. 107-28.
- Meagher, William E. Device for facilitating the reopening of an ice fishing hole. 2,799,146, 7-16-57, Cl. 62-110.
- Meakin, Edgar N. Feed mechanism for extrusion mills. 2,798,444, 7-9-57, Cl. 107-14.
- Meals, William S.: *See*—
Evans, John G., Leach, and Meals. 2,786,734.
- Meanley, William J., to Bell Telephone Co. of Canada. Method and means for identifying wire-pairs. 2,806,995, 9-17-57, Cl. 324-66.
- Meares, John S., to E. I. du Pont de Nemours and Co. Calendar adjunct. 2,801,439, 8-6-57, Cl. 18-2.
- Mears, Max H. Pocket type cigarette extinguisher and saver. 2,781,762, 2-19-57, Cl. 131-256.
- Mears, Norman B., to Buckbee-Mears Co. Apparatus for producing light-sensitive coatings on metal sheets. 2,786,443, 3-26-57, Cl. 118-316.
- Mears, Norman B., to Buckbee-Mears Co. Apparatus and method of coating elongated webs with light-sensitive material. 2,791,514, 5-7-57, Cl. 117-34.
- Mears, Norman B. Method of forming patterns of luminescent materials for color kinescopes. 2,797,172, 6-25-57, Cl. 117-13.
- Mears, Norman B. Photo-printing apparatus. 2,814,975, 12-3-57, Cl. 95-76.
- Mears, William T., to General Motors Corp. Lamp socket mounting. 2,786,129, 3-19-57, Cl. 240-8.3.
- Mease, Robert O., to Records Service Corp. Photographic developer. 2,805,947, 9-10-57, Cl. 96-66.
- Meat Industry Suppliers, Inc.: *See*—
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Wasserman, Morris. 2,812,262.
- Meats, William H., to Telehoist Ltd. Control valves for hydraulically operated vehicle or other loaders. 2,784,704, 3-12-57, Cl. 121-46.
- Mecate, James E.: *See*—
Mecate, Manuel E. and J. E. 2,791,860.
- Mecate, Manuel E. and J. E. Casting weight. 2,791,860, 5-14-57, Cl. 43-12.
- Mecco, Jerry M., to American Cyanamid Co. High temperature vat dyeing process using magnesium compounds in the dye bath and compositions therefor. 2,803,516, 8-20-57, Cl. 8-34.
- Mechanic, Gerald: *See*—
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- Mechanical Handling Systems, Inc.: *See*—
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Dustman, William S. 2,806,157.
Klamp, Paul. 2,816,643.
Mullen, Edward, and Harris. 2,792,927.
Mullen, Edward, and Harris. 2,796,973.
Schmitz, Leonard F. 2,794,529.
- Mechanical Products, Inc.: *See*—
Ingwersen, Richard C. 2,798,919.
Ingwersen, Richard C. 2,798,920.
Ingwersen, Richard C. 2,816,192.
- Mechanical Research Ltd.: *See*—
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- Mechano Gear Shift Co.: *See*—
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- Mecklin, Robert W., and W. E. Voreck, Jr., to Standard Oil Co. Continuous rotary filtration. 2,805,773, 9-10-57, Cl. 210-104.
- Meckoski, Walter J. Speed selector. 2,783,655, 3-5-57, Cl. 74-242.1.
- Meco, Inc.: *See*—
Landes, Lewis G., and Davitto. 2,791,709.
- Meco-Pilot Mfg. Co.: *See*—
May, Edward M. 2,794,424.
- Mecum, Robert C., and C. F. Evans. Device for controlling continuous preformed forms for accounting and typewriting machines. 2,779,450, 1-29-57, Cl. 197-133.
- Medal, Leon E. Power tool. 2,805,691, 9-10-57, Cl. 144-1.
- Medal, Leon E., and H. F. Porbes, to Home and Building Parts Co., Inc. Panel construction. 2,783,507, 3-5-57, Cl. 20-4.
- Medart, Fred, Mfg. Co.: *See*—
Richards, Archer W. 2,817,389.
- Medders, Weldon L., and A. B. Foreman, Jr., to Houston Oil Field Material Co., Inc. Hydraulic jar. 2,801,078, 7-30-57, Cl. 255-27.
- Medearis, James F. Magnetic separator. 2,792,115, 5-14-57, Cl. 209-223.
- Medearis, Paul A.: *See*—
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- Meder, Arthur A., Jr., and H. T. Lewis, Jr., to Proctor & Schwartz, Inc. Brushing machine. 2,815,654, 12-10-57, Cl. 69-42.
- Medert, Adrian: *See*—
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- Medical Plastics, Inc.: *See*—
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- Medkeff, Russell J., to Askania Regulator Co. Pneumatic web guide. 2,814,487, 11-26-57, Cl. 271-2.6.
- Medlar, Lewis A.: *See*—
Godshalk, James B., and Medlar. 2,791,749.
Godshalk, James B., Medlar, and Keck. 2,802,182.
- Medlar, Lewis A., to Fox Products Co. Rectifying systems. 2,777,107, 1-8-57, Cl. 321-8.
- Medlar, Lewis A., to Fox Products Co. Mutual induction method of and means for measuring current density. 2,780,781, 2-5-57, Cl. 324-117.
- Medlar, Lewis A., to Fox Products Co. Suppressed zero meters. 2,817,816, 12-24-57, Cl. 324-131.
- Medley Mfg. Co., Inc.: *See*—
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- Medlin, Rosa G.: *See*—
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- Medlin, William L.: *See*—
Anderson, Robert E., and Medlin. 2,818,361.
- Medlock, Alfred A. Baby bottle holder. 2,807,430, 9-24-57, Cl. 248-106.
- Medlock, Milo B.: *See*—
Lesparre, Jean N., Medlock, and Morris. 2,811,452.
- Medowar, Jerome S. Removable game board apparatus. 2,801,856, 8-6-57, Cl. 273-136.
- Medriczyk, Andrew, to Potagrains Foods Refining Corp., Inc. Method of preparing a granular food product from potatoes. 2,798,815, 7-9-57, Cl. 99-207.
- Medway Paper Sacks Ltd.: *See*—
Ross, Rupert C., Smith, and Spence. 2,786,622.
- Medynski, Joseph. Spiral stitch sewing machine. 2,787,229, 4-2-57, Cl. 112-2.
- Mee, Fred A. Floor mop construction. 2,811,734, 11-5-57, Cl. 15-231.
- Meehan, Clarence J. Liquid transfer devices. 2,795,245, 6-11-57, Cl. 141-26.
- Meehan, Clarence L. and D. Patterson, 1/4 to E. R. Renouf and 1/4 to L. G. Chambers. Toy building brick. 2,800,743, 7-30-57, Cl. 46-25.
- Meehan, William J. Self-locking sink frame. 2,778,032, 1-22-57, Cl. 4-187.
- Meehanite Metal Corp.: *See*—
Moore, William H. 2,793,114.
- Meek, George W., to Airkem, Inc. Adjustable diffuser devices. 2,797,844, 7-2-57, Cl. 220-93.
- Meek, James M., and H. A. Foure, to the United States of America as represented by the Secretary of the Army. Fail-safe catch. 2,801,589, 8-6-57, Cl. 102-78.

- Meek, John B. Stilt step. 2,801,851, 8-6-57, Cl. 272—70.2.
 Meek, Walter N., Jr.: *See*—
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 Meeker, Charles E., Sr. Circle-cutting auxiliary table jig for band saw tables. 2,801,652, 8-6-57, Cl. 143—26.
 Meeker, Chester C.: *See*—
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 Meekin, James J., and L. J. Zent, to The Hettrick Mfg. Co. Swimming pool structure. 2,815,512, 12-10-57, Cl. 4—172.
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 Meewezen, Willem D., to North American Philips Co., Inc. Audio frequency amplifier with variable frequency characteristic. 2,808,472, 10-1-57, Cl. 179—171.
 Mefford, Dausfus H., and J. E. Mefford. Air-operated hair clipping device. 2,789,786, 4-23-57, Cl. 253—38.
 Mefford, Fred E. Garter grips. 2,777,183, 1-15-57, Cl. 24—263.
 Mefford, James E.: *See*—
 Mefford, Dausfus H., and J. E. 2,789,786.
 Mefford, Robert R. Collapsible container. 2,791,367, 5-7-57, Cl. 229—41.
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 Megator Pumps & Compressors Ltd.: *See*—
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 Mege, Paul A. Swivelling load-handling devices, notably for ships and the like. 2,782,938, 2-26-57, Cl. 212—3.
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 McGhee, William J., and Megna. 2,776,243.
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 Thelin, Jack H., Cherlow, and Megson. 2,783,278.
 Meguerian, Garbis H., and T. B. Tom, to Standard Oil Co. Cracked naphtha sweetening. 2,795,531, 6-11-57, Cl. 196—29.
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 Mehlhose, Kurt: *See*—
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 Mehlman, Samuel J., to Dynamic Electronics-New York, Inc. Circuit resonance indicator. 2,784,375, 3-5-57, Cl. 324—57.
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 Sloan, John W., Hofreiter, Mehlretter, and Wolff. 2,783,283.
 Mehlretter, Charles L., to the United States of America as represented by the Secretary of Agriculture. Calcium salt of condensation product of citric and gluconic acids. 2,813,892, 11-19-57, Cl. 260—484.
 Mehr, Louis, and G. H. Dick, to Shell Development Co. Stabilized pentaerythritol ester compositions. 2,815,327, 12-3-57, Cl. 252—47.5.
 Mehring, Hans: *See*—
 Lammerz, Ernst, and Mehring. 2,811,863.
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 Meier, Edwin H., 10% to S. M. Rosenberg. Methods and apparatus for presenting seismic information. 2,791,288, 5-7-57, Cl. 181—5.
 Meier, Edwin H., to Hughes Aircraft Co. Amplitude-modulated video pulse generator. 2,806,209, 9-10-57, Cl. 332—9.
 Meier, Georg. Push pencils. 2,817,315, 12-24-57, Cl. 120—20.
 Meier, Hermann: *See*—
 Jockers, Kurt, Meier, and Wintersberger. 2,798,791.
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 Mettler, Erhard K., and Meier. 2,812,935.
 Meier, Karl, to Machine Tool Works Oerlikon, Administration Co. Method for the dressing of bearded needles for knitting machines and device for carrying out the method. 2,776,696, 1-8-57, Cl. 153—39.
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 Meier, Robert H., to Deere Mfg. Co. Cotton picker of the spindle type. 2,795,096, 6-11-57, Cl. 56—41.
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 Meier-Maletz, Max and G. Drive for small machinery, alternatively to be used for electric and mechanical energy. 2,812,461, 11-5-57, Cl. 310—273.
 Meighen, Arthur D., to Commercial Solvents Corp. Heat exchange compositions. 2,803,603, 8-20-57, Cl. 252—75.
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 Meigs, Charles H., and H. Teitelman, to the United States of America as represented by the Secretary of the Navy. Superheater tube support. 2,779,316, 1-29-57, Cl. 122—510.
 Meijer, Roelf J., to Hartford National Bank and Trust Co., as trustee. Device for circulating a medium in a reciprocating engine. 2,781,632, 2-19-57, Cl. 60—24.
 Meijer, Roelf J., to North American Philips Co., Inc. Hot-gas reciprocating apparatus. 2,794,315, 6-4-57, Cl. 60—24.
 Meiklejohn, Adam: *See*—
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 Meiklejohn, Ian G. Debarking machine having interconnected log-feeding rollers and bark-removing cutterheads. 2,794,464, 6-4-57, Cl. 144—208.
 Meili, Ernst, to Electro-Watt Electrical and Industrial Management Co., Ltd. Device for intensifying an electric current. 2,809,317, 10-8-57, Cl. 313—226.
 Meiling, John C. Rural mail box. 2,802,623, 8-13-57, Cl. 232—35.
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 Meiller, F. X., Fabrikzeug- und Maschinenfabrik: *See*—
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 Steinbock, Edmund A., Jr., and Meiman. 2,777,177.
 Meinecke, Gunther, and W. Jung, to Ernst Leitz, G. m. b. H. Photographic camera with range finder. 2,809,572, 10-15-57, Cl. 95—44.
 Meinel, Aden B., to the United States of America as represented by the Secretary of the Navy. Launcher. 2,800,836, 7-30-57, Cl. 89—1.7.
 Meinel, Karl, to Wacker-Chemie G. m. b. H. Process for making polymeric nitrogen-containing derivatives of acrylamide or acrylamide and acrylonitrile in a strongly acid aqueous medium. 2,813,088, 11-12-57, Cl. 260—85.5.
 Meiners, Edwin P., and G. A. Schurman, to California Research Corp. Process for producing piezoelectric transducers. 2,787,520, 4-2-57, Cl. 29—25.35.
 Meiners, Edwin P., Jr., to California Research Corp. Removing normal movement from seismic traces. 2,810,898, 10-22-57, Cl. 340—15.
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 Meinhofer, Francis L., to Trojan Powder Co. Making 2,2-dimethylolpropane. 2,778,858, 1-22-57, Cl. 260—635.
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 Meisdalen, Noble J. Seeding attachment. 2,812,732, 11-12-57, Cl. 111—52.
 Meisel, George M., and W. L. Chronic, to Colorado Iron Works Co. Leak-proof spindle bearing. 2,785,024, 3-12-57, Cl. 308—187.1.
 Meisenheimer, Raymond L., to Radio Corp. of America. Cavity resonator circuit. 2,790,855, 4-30-57, Cl. 179—171.
 Meiser, Werner, and G. Domagk, to Farbenfabriken Bayer Aktiengesellschaft. Oxazolines. 2,814,626, 11-26-57, Cl. 260—307.
 Meiser, Werner, and G. Domagk, to Schenley Industries, Inc. Di-guanyl hydrazones. 2,815,377, 12-3-57, Cl. 260—564.
 Meissner, Donald K.: *See*—
 Proudfoot, Don A. Meissner, and Walton. 2,791,289.
 Meissner, Harold G.: *See*—
 Weigel, Albert C., and Meissner. 2,796,198.
 Meissner, Kurt, to Robert Bosch G. m. b. H. Control device for internal combustion engines. 2,817,325, 12-24-57, Cl. 123—140.
 Meissner, William E., to American Viscose Corp. Bale strap banding machine. 2,790,231, 4-30-57, Cl. 29—211.
 Meissner, William E., and H. W. Ballard, to American Viscose Corp. Carton set-up machine. 2,782,695, 2-26-57, Cl. 93—53.
 Meister, George: *See*—
 Armstrong, Law L., Meister, and Lopenski. 2,816,579.
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 Meister, George, and T. H. Heine, to Westinghouse Electric Corp. Low pressure fluorescent and discharge lamps. 2,802,129, 8-6-57, Cl. 313—109.
 Meister, George, and T. H. Heine, to Westinghouse Electric Corp. Electron emission coatings and method of preparing air stabilized barium oxide. 2,806,970, 9-17-57, Cl. 313—109.
 Meister, Herbert: *See*—
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 Meister, Leo T. Delay action fuse. 2,798,432, 7-9-57, Cl. 102—79.
 Meister, Martin, B. Zorn, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Treatment of drilling sludge. 2,798,043, 7-2-57, Cl. 252—8.5.
 Meister, Martin, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Process of production of tanning agents in solid form. 2,801,986, 8-6-57, Cl. 260—45.
 Meister, Martin, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Process of retanning leather with a condensation product of sulfones of monohydric phenols, non aromatic amines and formaldehyde. 2,809,088, 10-8-57, Cl. 8—94.21.

- Meixner, Alfred, to Voigtlander Aktiengesellschaft. Device for setting the shutter in photographic cameras. 2,813,470, 11-19-57, Cl. 95-31.
- Meixsell, Arthur. Revolving seesaw. 2,809,036, 10-8-57, Cl. 272-30.
- Mejean, Jacques G., to The Aerotec Corp. Altitude speed switch. 2,785,246, 3-12-57, Cl. 200-81.5.
- Mejean, Jacques G., to The Aerotec Corp. Apparatus for indicating or controlling the level of liquids. 2,810,036, 10-15-57, Cl. 200-84.
- Mejur Corp.: See—
Levine, Louis M. 2,779,351.
- Mekler, Dan. Protective device for electric outlets and implements connected therewith. 2,789,255, 4-16-57, Cl. 317-18.
- Mekler, Valentine: See—
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- Melair Corp.: See—
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- Melamed, Sidney: See—
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- Melamed, Sidney, to Rohm & Haas Co. Unsaturated alkylphenone insecticides for soft-bodied insects. 2,776,921, 1-8-57, Cl. 167-30.
- Melamed, Sidney, to Rohm & Haas Co. Amides of vinyl ethers containing hydroxyl groups and polymers thereof. 2,776,951, 1-8-57, Cl. 260-78.3.
- Melamed, Sidney, to Rohm & Haas Co. Substituted N-carbamyl derivatives of 2-methyl-oxazolidines and 2-methyl-tetrahydro-1,3-oxazines and their preparation. 2,778,825, 1-22-57, Cl. 260-244.
- Melamed, Sidney, to Rohm & Haas Co. Unsaturated carbamate ethers and thioethers, polymers thereof and methods of making them. 2,806,838, 9-17-57, Cl. 260-77.5.
- Melamed, Sidney, to Rohm & Haas Co. Textile and other shaped products having antistatic qualities and methods of producing them. 2,808,349, 10-1-57, Cl. 117-139.5.
- Melamed, Sidney, to Rohm & Haas Co. Quaternary ammonium compounds and methods of producing them. 2,810,713, 10-22-57, Cl. 260-80.3.
- Melamed, Sidney, to Rohm & Haas Co. Waxy n-vinyloxyalkyl-alkanecarboxamides. 2,816,880, 12-17-57, Cl. 260-77.5.
- Melamed, Sidney, and W. H. Watanabe, to Rohm & Haas Co. Amino-containing vinyl sulfides. 2,816,094, 12-10-57, Cl. 260-79.7.
- Meland, John M. Folding ski. 2,791,435, 5-7-57, Cl. 280-11.13.
- Melander, Leonard W., 1/2 to I. C. Benson. Process for eliminating urine odors in textile materials by applying lithium carbonate. 2,815,260, 12-3-57, Cl. 8-137.
- Melass, Vivian H., to The Dow Chemical Co. Method of repelling flies with dibutylphenyl monoether polyglycols. 2,786,796, 3-26-57, Cl. 167-30.
- Melbostad, Selmer A.: See—
Lindstaedt, Frank F., Melbostad, and Wright. 2,781,994.
- Melby, Lester R.: See—
Ellingboe, Ellsworth K., and Melby. 2,816,140.
Ellingboe, Ellsworth K., and Melby. 2,816,287.
- Melcher, Hans, to Friedrich Kocks G. m. b. H. Method of continuously producing welded pipe. 2,776,474, 1-8-57, Cl. 29-477.7.
- Melchior, Frederick C. Carburetor. 2,793,014, 5-21-57, Cl. 261-18.
- Melchore, James A.: See—
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- Meldahl, Waldemar J., to J. I. Case Co. Tractor mounted scoop. 2,812,082, 11-5-57, Cl. 214-140.
- Meldahl, Waldemar J., to J. I. Case Co. Tractor hitch arm mounting. 2,812,083, 11-5-57, Cl. 214-140.
- Meldrum, Robert A., to Pullman-Standard Car Mfg. Co. Sleeping car. 2,783,717, 3-5-57, Cl. 105-317.
- Melentine, Albert. Generator control by adjustable magnetic shunt. 2,807,772, 9-24-57, Cl. 322-50.
- Melick, Thomas E.: See—
Glaser, Harry W., and Melick. 2,816,161.
- Melidonis, Giovanni, to Fabbrica Italiana di Posateria e Oggetti di Metallo in genere G. B. Izar. Method and apparatus for forming metal blanks. 2,792,623, 5-21-57, Cl. 29-413.
- Melin, Arthur K. Cap gun construction. 2,778,138, 1-22-57, Cl. 42-54.
- Meline, Robert S.: See—
Hignett, Travis P., Siegel, Meline, and Kelso. 2,783,140.
- Melita, Sebastiano. Adjustable base for stringed instrument bridge. 2,786,382, 3-26-57, Cl. 84-298.
- Melitta, Sebastiano, 1/2 to A. J. Turchetti. Attachments for a self-developing camera. 2,800,843, 7-30-57, Cl. 95-31.
- Mellen, Richard A., and F. A. Pachmayr. Double nut fastener. 2,807,854, 10-1-57, Cl. 24-221.
- Melletto, Cyril W., to Chase Brass & Copper Co., Inc. Spout with adjustable discharge head. 2,790,632, 4-30-57, Cl. 261-59.
- Mellgren, Per-Gustaf, to Aktiebolaget Plurila. Apparatus for dyeing, bleaching and other liquid treatment of a material in granular, threaded or fibrous form. 2,808,715, 10-8-57, Cl. 68-190.
- Mellies, Russell L., and I. A. Wolff, to the United States of America as represented by the Secretary of Agriculture. Method of molding oxystarch. 2,788,546, 4-16-57, Cl. 18-55.
- Mello, Albert. Safety attachment for a stove. 2,777,816, 1-15-57, Cl. 70-177.
- Mellon, Melvin G.: See—
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- Mellon, Patrick R. Ash trays. 2,788,911, 4-16-57, Cl. 220-4.
- Mellor Bromley & Co. Ltd.: See—
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- Smith, Charles R. 2,804,676.
- Mellor, John H., to Canadian Copper Refiners Ltd. Apparatus for lowering cast ingots from a mold. 2,816,333, 12-17-57, Cl. 22-57.
- Mellowes, Charles N., to Mellowes Co. Method of packaging lock washers. 2,810,243, 10-22-57, Cl. 53-26.
- Mellowes Co.: See—
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- Melnor Metal Products Co., Inc.: See—
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- Meloche, Edward J. Method of and means for splicing webs. 2,812,145, 11-5-57, Cl. 242-58.5.
- Meloy, Norman F. Log tongs. 2,781,224, 2-12-57, Cl. 294-118.
- Melpar, Inc.: See—
Bradley, Emmett H. 2,778,886.
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Camp, Glen D. 2,799,784.
Furlow, William M., Jr., and Worrell. 2,814,022.
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Taynton, Ralph, and Vossen. 2,800,181.
- Melroe, Edward G. Folding drawbar and transport. 2,787,477, 4-2-57, Cl. 280-476.
- Meltdorff, Max, to VEB Druckmaschinenwerk Planeta, VVB Polygraph. Sheet feeding. 2,803,460, 8-20-57, Cl. 271-58.
- Meltesen, Irene O. Refrigerated cream and butter dispenser. 2,801,529, 8-6-57, Cl. 62-141.
- Melton, Arnold S.: See—
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- Melton, Terrell J.: See—
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- Melton, William L. Oil testing centrifuge. 2,789,757, 4-23-57, Cl. 233-26.
- Meltzer, Henry E., to Allover Mfg. Co. Grass cutter, trimmer and edger. 2,787,108, 4-2-57, Cl. 56-25.4.
- Meltzer, Henry E., to Allover Mfg. Co. Grass trimmer. 2,796,715, 6-25-57, Cl. 56-25.4.
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- Meltzer, Jacques, and H. O. Huisman, to North American Philips Co., Inc. Polychloro-diphenylsulfones and the use of such compounds for combating the stages in the development of mites. 2,812,281, 11-5-57, Cl. 167-30.
- Melville, Alexander: See—
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- Melville, David F. S.: See—
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- Melville, John B. Liquid dispenser with stirring means. Re. 24,323, 5-28-57, Cl. 259-108.
- Melvin, Francis F. Carton flap hold-down device. 2,801,453, 8-6-57, Cl. 24-81.
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- Memoli, Joseph D. Fish lure. 2,791,057, 5-7-57, Cl. 43-42.06.
- Mempel, Rudolf, and H. Schultz, to Licentia Patent-Verwaltungs-G. m. b. H. Resilient spacer rings for multiple bearing, rotatably supporting shafts. 2,803,507, 8-20-57, Cl. 308-184.
- Menardi, Harold B.: See—
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- Menaul, Paul L.: See—
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- Menaul, Paul L., to Pan American Petroleum Corp. Emulsion gels for well servicing. 2,801,218, 7-30-57, Cl. 252-8.55.
- Mencacci, Samuel A.: See—
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- Mencacci, Samuel A., to Food Machinery and Chemical Corp. Method and apparatus for cooling canned goods. 2,794,326, 6-4-57, Cl. 62-104.
- Mendel, John T., to Bell Telephone Laboratories, Inc. Microwave detector. 2,814,779, 11-26-57, Cl. 332-7.
- Mendelsohn, Meyer, to Ions Exchange and Chemical Corp. Process for making antiseptic article. 2,785,106, 3-12-57, Cl. 167-84.
- Mendelsohn, Meyer, to Yardney International Corp. Separator for electric batteries. 2,816,154, 12-10-57, Cl. 136-144.
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- Mendelsohn, Samuel H. Automobile seat and back pad. 2,791,268, 5-7-57, Cl. 155-182.
- Mendelsohn, Walter B. Display book. 2,795,059, 6-11-57, Cl. 35-53.
- Mendelson, Morris. Humidifier unit. 2,776,166, 1-1-57, Cl. 299-20.
- Mendenhall, Alfred L., Jr. Smoke detecting device. 2,783,390, 2-26-57, Cl. 250-218.
- Mendenhall, Charles A., to Bendix Aviation Corp. Engine starter gearing. 2,815,669, 12-10-57, Cl. 74-7.

- Mendenhall, Elbert V. Brace means for folding table legs. 2,801,143, 7-30-57, Cl. 311-98.
- Mendez, Alfred, to Indiana Gear Works, Inc. Planetary gearing. 2,804,785, 9-3-57, Cl. 74-801.
- Mendez, Bernardo. Vehicle loading assembly. 2,814,401, 11-26-57, Cl. 214-85.1.
- Meneghelli, Hugo A. Flow meter. 2,800,794, 7-30-57, Cl. 73-228.
- Meneghelli, Hugo A., to the United States of America as represented by the Secretary of the Navy. Attachment for rocket motors. 2,804,822, 9-3-57, Cl. 102-49.
- Menegus, Robert L., and R. L. Akers, to the United States of America as represented by the United States Atomic Energy Commission. Releasable holder for rod. 2,794,670, 6-4-57, Cl. 294-102.
- Meng, Victor W., to The Patent Scaffolding Co., Inc. Brace locks. 2,808,298, 10-1-57, Cl. 304-40.
- Mengani, Carl M.: See—
- Mayer, Arthur L., and Mengani. 2,809,344.
- Menge, Theodore L., Sr.: See—
- Laster, Edward C., Sr., and Menge. 2,795,197.
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- Mengelkamp, Richard A., and W. C. Mitchell, to Phillips Petroleum Co. Liquefied petroleum gas system. 2,788,779, 4-16-57, Cl. 123-122.
- Menhennett, Gerald H., to International Telephone and Telegraph Corp. Squeal circuit. 2,785,298, 3-12-57, Cl. 250-20.
- Menk, Elray W., to United States Steel Corp. Take-off equipment for plate shears. 2,793,693, 5-28-57, Cl. 164-47.
- Meke, Wilber J. Ashtray. 2,811,245, 10-29-57, Cl. 206-29.
- Menke, Shepard. Agitation apparatus. 2,793,010, 5-21-57, Cl. 259-72.
- Menkens, Carl A. Free-sliding trolling spinner. 2,785,496, 3-19-57, Cl. 43-42.19.
- Menkens, Carl A., and R. C. Stevenson. Meat patty forming machine. 2,793,394, 5-28-57, Cl. 17-32.
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- Menne, Wilhelm J., to G. Franck. Process for producing bearings for maintaining revolving shafts. 2,783,528, 3-5-57, Cl. 29-143.4.
- Mennen, Frederick C.: See—
- Robins, Betty N., and Mennen. 2,815,883.
- Mennen, Frederick C. Attachable wire form handle for utensils. 2,791,350, 5-7-57, Cl. 22-67.
- Mennesson, André L., to Solex S. A. Carburetors, including an auxiliary starting device. 2,786,659, 3-26-57, Cl. 261-41.
- Mennesson, Bernard, to Societe d'Appareils de Controle et d'Equipement des Moteurs S. A. C. E. M. Friction roller drive means for bicycle having auxiliary engine. 2,794,510, 6-4-57, Cl. 180-31.
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- Menohar, Pearson T., to Owens-Illinois Glass Co. Counting mechanism. 2,816,708, 12-17-57, Cl. 235-92.
- Menohar, Pearson T., and K. A. Strzala, to Owens-Illinois Glass Co. Apparatus for gauging glassware. 2,809,245, 10-8-57, Cl. 200-61.52.
- Menon, Luigi, to U. B. I. S. p. A. Utilizzo Brevetti Industriali. Pump and or rotative compressor with prismatic pistons. 2,785,851, 3-19-57, Cl. 230-153.
- Menser, Henry E., R. L. Jeffords, and C. O. Vancil, $\frac{1}{4}$ to C. Anderson. Pipe handling apparatus. 2,781,930, 2-19-57, Cl. 214-340.
- Mention, Maurice, and P. Bourguignon, to Les Usines de Melle (Societe Anonyme). Process for improving characteristics of plasticizers and products therefrom. 2,776,984, 1-8-57, Cl. 260-475.
- Mentley, Max B., and A. B. Bassoff, to National Broach & Machine Co. Machine for grinding the toothed surfaces of gears. 2,804,734, 9-3-57, Cl. 51-232.
- Mentzer, Charles B., and W. P. Flohr, Jr., to Landis Tool Co. Locator. 2,814,917, 12-3-57, Cl. 51-105.
- Mentzer, James S., to Cummins-Chicago Corp. Feeding arrangement. 2,813,717, 11-19-57, Cl. 271-37.
- Menu, Jean C.: See—
- Strauch, Raymond H., Allezard, and Menu. 2,786,199.
- Menz, Darwin D. Pivoted track mechanism for flush sliding doors. 2,778,051, 1-22-57, Cl. 16-96.
- Menzel, Friedrich. Seasonal control means for battery charging. 2,777,980, 1-15-57, Cl. 320-22.
- Menzel, Friedrich. Electrical generator regulator. 2,777,984, 1-15-57, Cl. 322-25.
- Menzel, Wolfgang A., and H. E. Ruchlemann, to the United States of America as represented by the Secretary of the Navy. Method and apparatus for measuring dielectric absorption in a high quality condenser. 2,791,750, 5-7-57, Cl. 324-60.
- Menzen, Paul. Process for the treatment of steel smeltings with light metals. 2,805,932, 9-10-57, Cl. 75-58.
- Menzi, Karl: See—
- Gross, Jean, Menzi, and Wegmann. 2,785,040.
- Menzies, George E. Rotary tool for cutting stationary bars of material. 2,809,697, 10-15-57, Cl. 164-60.
- Menzies, Robert J. Door seal structure. 2,813,315, 11-19-57, Cl. 20-67.
- Meohas, Isaac R. Disposable razor assembly with outwardly flared cutting edges. 2,817,897, 12-31-57, Cl. 30-53.
- Mercantile Trust Co.: See—
- Coffey, Irven E. 2,798,999.
- Mercast Corp.: See—
- Kohl, Everard F., and Kazenas. 2,790,218.
- Kohl, Everard F., and Kazenas. 2,790,722.
- Kohl, Everard F., and Lipsey. 2,790,219.
- Kramer, Irvin R. 2,797,457.
- Mercer, Bert M. Sliders for slide fasteners. 2,782,481, 2-26-57, Cl. 24-205.15.
- Mercer, Bert M. Slide fasteners. 2,790,224, 4-30-57, Cl. 24-205.15.
- Mercer, Clifton A. Fish stringer. 2,812,125, 11-5-57, Cl. 224-7.
- Mercer, George K., to Dunlop Rubber Co. Ltd. Fluid pressure underwater breathing apparatus. 2,815,750, 12-10-57, Cl. 128-142.
- Mercer, Glenn E., to Superior Mfg. Co. Solenoid operated powdered material dispenser. 2,782,962, 2-26-57, Cl. 222-227.
- Mercer, John E. Urine sampling device. 2,801,424, 8-6-57, Cl. 4-1.
- Mercer, Richard. Telecommunication systems. 2,807,672, 9-24-57, Cl. 179-18.
- Mercer, William M. Yieldable blade safety razor. 2,776,478, 1-8-57, Cl. 30-81.
- Merchant, Donald R.: See—
- Harbers, Henry C., and Merchant. 2,794,673.
- Harbers, Henry C., and Merchant. 2,815,980.
- Mercier, Amos J., and G. G. Morin, said Mercier assor. to said Morin. Stripper mechanism for lift trucks. 2,785,818, 3-19-57, Cl. 214-514.
- Mercier, Dewey P. Fishing sinker. 2,780,023, 2-5-57, Cl. 43-42.74.
- Mercier, George T., Jr.: See—
- Kobler, Jasper F., Jr., Mercier, and Stirling. 2,786,875.
- Mercier, Jacques H.: See—
- Greer, Edward M., and Mercier. 2,791,455.
- Mercier, Jean and J. H. 2,791,095.
- Mercier, Jacques H., to Greer Hydraulics, Inc. Clamping means for bladder of pressure accumulator. 2,792,022, 5-14-57, Cl. 138-30.
- Mercier, Jean. Door actuating mechanism. 2,778,632, 1-22-57, Cl. 268-66.
- Mercier, Jean. Pressure device. 2,786,488, 3-26-57, Cl. 138-30.
- Mercier, Jean. Pressure switch. 2,789,176, 4-16-57, Cl. 200-83.
- Mercier, Jean. Hydraulic follow-up systems. 2,791,092, 5-7-57, Cl. 60-51.
- Mercier, Jean. Closure valve for the oil port of a pressure accumulator. 2,801,067, 7-30-57, Cl. 251-50.
- Mercier, Jean. Fluid dispensing equipment. 2,814,422, 11-26-57, Cl. 222-335.
- Mercier, Jean. Piston accumulator. 2,817,361, 12-24-57, Cl. 138-31.
- Mercier, Jean. Hydraulic fluid pressure transmitter. 2,817,955, 12-31-57, Cl. 60-54.5.
- Mercier, Jean, and P. G. J. M. Audemar, said Audemar assor. to O. Marine. Pressure fluid distributor valves. 2,787,255, 4-2-57, Cl. 121-46.5.
- Mercier, Jean and J. H. Fluid motor system for hatch cover assembly. 2,791,095, 5-7-57, Cl. 60-97.
- Mercier, Jules: See—
- Alheritiere, Louis, and Mercier. 2,787,636.
- Mercier, Pierre, to Societe d'Etudes et de Constructions Aero-Navales. Oleo-pneumatic energy dissipating damping device. 2,805,853, 9-10-57, Cl. 267-64.
- Mercier, Stanley M., to The Jeffrey Mfg. Co. Control mechanism for staker-conveyer system. 2,781,890, 2-19-57, Cl. 198-124.
- Merck & Co., Inc.: See—
- Arth, Glen E., Poos, and Sarett. 2,791,591.
- Baade, William H., and Macek. 2,805,232.
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- Beyler, Roger E. 2,795,594.
- Chemerda, John M. 2,798,082.
- Chemerda, John M., Chamberlin, and Tristram. 2,777,843.
- Chemerda, John M., and Erickson. 2,786,053.
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- Chemerda, John M., and Reinhold. 2,811,521.
- Clarke, Robert E. 2,793,099.
- Ciarke, Robert E., and Collins. 2,793,942.
- Clark, Robert L., and Pessolano. 2,806,853.
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 Kuehl, Frederick A., Jr., and Shunk. 2,783,247.
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- Merck, E., Aktiengesellschaft: *See*—
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- Merck, Emanuel: *See*—
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- Merckling, Nicholas G.: *See*—
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- Mercur, Dave. Continuous strip envelope. 2,783,935, 3-5-57, Cl. 229-69.
- Mercur, Lewis J. Spring attachment for toilet seats. 2,814,049, 11-26-57, Cl. 4-251.
- Mercu-Ray Industries, Inc.: *See*—
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- Mercurio, Sam A.: *See*—
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- Mercury International Research Co.: *See*—
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- Mercury, Pearl. Chopping board. 2,796,902, 6-25-57, Cl. 146-215.
- Meredew, George C., K. V. W. Berris, and F. E. S. Smedley, to B. Bercovitz and Rolls-Royce Ltd. Compressed air-driven turbines. 2,782,001, 2-19-57, Cl. 253-59.
- Meredith, Covert B.: *See*—
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- Meredith, Frederick W. Automatic control systems for aircraft. 2,801,816, 8-6-57, Cl. 244-77.
- Meredith, Harlan L., to North American Aviation, Inc. Metallic power projector. 2,781,154, 2-12-57, Cl. 222-193.
- Meredith, Orville S. Chain grip pipe wrench. 2,784,628, 3-12-57, Cl. 81-68.
- Meredith, Pat. Boat sculling device. 2,809,604, 10-15-57, Cl. 115-28.
- Meredith, Z. Albert, to D. M. and G. D. Heaston. Valve for musical instruments. 2,794,358, 6-4-57, Cl. 84-388.
- Mérel, André, to Societe Generale de Mecanique et de Metallurgie. Elastic coupling devices. 2,792,694, 5-21-57, Cl. 64-11.
- Merelis, Morris C., to Rose-Derry Co. Child's car seat. 2,806,511, 9-17-57, Cl. 155-11.
- Meretey, Zoltan N., to Breeze Corp., Inc. Miniature slip ring and process of making the same. 2,786,985, 3-26-57, Cl. 339-5.
- Merewether, Walter J. Screen for automobile windows. 2,779,406, 1-29-57, Cl. 160-373.
- Mergen, Joseph M., and H. Murphy, to Curtiss-Wright Corp. Propeller pitch change mechanism. 2,793,703, 5-28-57, Cl. 170-160.29.
- Mergenthaler Linotype Co.: *See*—
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- Merget, Andrew E., to The De Laval Separator Co. Cleansing composition. 2,788,328, 4-9-57, Cl. 252-135.
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- Merian, Ernst, to Saul & Co., as nominee of Fidelity Union Trust Co. Disazo dyestuffs. 2,782,185, 2-19-57, Cl. 260-186.
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- Merian, Ernst, to Saul & Co., as nominee of Fidelity Union Trust Co. 2-amino-5-nitrobenzene-1-sulfonic acid fluoride and derivatives thereof. 2,794,833, 6-4-57, Cl. 260-543.
- Merino, Calixto G. Moistening device for fabric articles. 2,790,983, 5-7-57, Cl. 15-138.
- Merit Products, Inc.: *See*—
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- Merker, Dwight R., to Swift & Co. Deodorization of hydrogenated fatty oils. 2,783,260, 2-26-57, Cl. 260-424.
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- Merles, Antoine J. Apparatus for the automatic tuning of radioelectric transmitters or receivers. 2,818,506, 12-31-57, Cl. 250-40.
- Mernac Products, Inc.: *See*—
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- Mermer, Irving L. Tackless plastic stair nose. 2,787,036, 4-2-57, Cl. 20-79.
- Merner, Richard R.: *See*—
 Hunt, Madison, and Merner. 2,776,996.
- Merrell, Wm. S., Co. The: *See*—
 Schumann, Edward L., Van Campen, and Pogge. 2,804,422.
- Merrill, Edward W., to W. R. Grace & Co. Apparatus for making battery separators. 2,786,233, 3-26-57, Cl. 18-10.
- Merrill, Edward W. Viscometer. 2,812,656, 11-12-57, Cl. 73-60.
- Merrill, J. Carter, and J. A. Roberts, to Fairbanks, Morse & Co. Control provision for recording mechanism. 2,792,208, 5-14-57, Cl. 265-5.
- Merrill, Leonard M. Bell ringing mechanism. 2,810,124, 10-15-57, Cl. 340-398.
- Merrill, Leslie M.: *See*—
 Simpson, Lester C., and Merrill. 2,785,319.
- Merrill, Leslie M., to Elastic Stop Nut Corp. of America. Waterproof electrical cable connection and method of making the same. 2,812,506, 11-5-57, Cl. 339-60.
- Merrill, Marcellus S., and L. H. Erickson; said Erickson assor. to said Merrill. Apparatus for determining the unbalance of a rotating body in situ. 2,798,379, 7-9-57, Cl. 73-457.
- Merrill, Robert M.: *See*—
 Ludwig, Boyd E., and Merrill. 2,807,780.
- Merrill, Roger L. and T. M. Boland, and W. Hecox, to The Battelle Development Corp. Weighing system. 2,777,661, 1-15-57, Cl. 249-3.
- Merrill, Roger L., and W. Hecox, to The Exact Weight Scale Co. Cumulative summing system. 2,789,761, 4-23-57, Cl. 235-61.
- Merrill, Wesley P., to The Oilgear Co. Limited capacity check valve. 2,781,775, 2-19-57, Cl. 137-498.
- Merrimade, Inc.: *See*—
 Thompson, Charles D. 2,802,594.
- Merritt, Gerald C. Animal restraining device. 2,789,538, 4-23-57, Cl. 119-103.
- Merritt, Harry C., and T. A. McArn, to Downingtown Mfg. Co. Paper sheet transfer mechanism. 2,783,041, 2-26-57, Cl. 271-2.1.

- Merritt, Robert H. Torque responsive frictional mechanism. 2,787,341, 4-2-57, Cl. 188—141.
- Merritt, Thomas W., to Babson Bros. Co. Milk pipe line washing system. 2,800,134, 7-23-57, Cl. 134—168.
- Merritt, William G., 40% to F. and S. Theriault. Internal resistance fluid pressure clutch or brake. 2,808,130, 10-1-57, Cl. 188—90.
- Morrow Machine Co., The: *See—*
Pierce, Bernard N. 2,788,760.
- Merry, Walter. Dual driving mechanism. 2,791,915, 5-14-57, Cl. 74—562.5.
- Mersereau, Emory P., Jr., to Mohasco Industries, Inc. Method of fabricating thermoplastic yarn. 2,807,072, 9-24-57, Cl. 28—72.
- Mersereau, Emory P., Jr., and D. Karpoff, to Mohasco Industries, Inc. Axminster fabric. 2,787,293, 4-2-57, Cl. 139—401.
- Mersheimer, Hans, to General Motors Corp. Forward end of a self-supporting vehicle body. 2,800,359, 7-23-57, Cl. 296—28.
- Mersheimer, Hans, and M. Heintke, to General Motors Corp. Base frames for the substructure of self-supporting vehicle bodies. 2,788,223, 4-9-57, Cl. 280—106.
- Mertens, Edward W., to California Research Corp. Non-dusting asphaltic coatings. 2,797,169, 6-25-57, Cl. 106—273.
- Mertens, Frederic T.: *See—*
Ditman, John G., and Mertens. 2,809,885.
- Mertens, Hans-Joachim: *See—*
Dietrich, Wilhelm, Mertens, and Wetter. 2,793,999.
- Mertes, Thomas S., to Sun Oil Co. Countercurrent contact of liquid and solid. 2,813,781, 11-19-57, Cl. 23—310.
- Mertes, Thomas S., and H. B. Rhodes, to Sun Oil Co. Transfer of granular solids. 2,801,966, 8-6-57, Cl. 210—33.
- Mertler, Charles S., to Stevens Mfg. Co., Inc. Thermostat detent. 2,791,662, 5-7-57, Cl. 200—139.
- Mertler, Charles S., to Stevens Mfg. Co., Inc. Sealed electrical switches. 2,795,678, 6-11-57, Cl. 200—168.
- Mertler, Charles S., to Stevens Mfg. Co., Inc. Constant calibration thermostat. 2,806,106, 9-10-57, Cl. 200—138.
- Meryman, Harold T., and H. W. Shirer. Triboelectric detecting system. 2,787,784, 4-2-57, Cl. 340—258.
- Mertz, Clyde W., to Phillips Petroleum Co. Treatment of polymers produced by alkali metal catalyzed polymerization. 2,813,136, 11-12-57, Cl. 260—666.
- Mertz, Lawrence N., to Baird Associates, Inc. Interferometer. 2,815,452, 12-3-57, Cl. 250—83.3.
- Mertzweiler, Joseph K.: *See—*
Buchmann, Fred J., Mertzweiler, and Fasce. 2,796,436.
- Mertzweiler, Joseph K., to Esso Research and Engineering Co. Synthetic lubricating composition. 2,796,441, 6-18-57, Cl. 260—615.
- Mertzweiler, Joseph K., to Esso Research and Engineering Co. Preparation of catalyst and fatty acids from oxo process bottoms. 2,802,846, 8-13-57, Cl. 260—413.
- Mertzweiler, Joseph K., to Esso Research and Engineering Co. Cobalt hydrogenation catalysts. 2,808,443, 10-1-57, Cl. 260—638.
- Mertzweiler, Joseph K., to Esso Research and Engineering Co. Catalyst regeneration in oxo alcohol synthesis. 2,816,933, 12-17-57, Cl. 260—638.
- Mertzweiler, Joseph K., and R. B. Mason, to Esso Research and Engineering Co. Hydrogenation of oxo aldehydes in the presence of sulfative catalysts and water. 2,809,220, 10-8-57, Cl. 260—638.
- Merwin, Robert F., and R. C. Hoff, to Eriez Mfg. Co. Hopper magnet. 2,808,932, 10-8-57, Cl. 209—223.
- Merz, Edmund H., to Monsanto Chemical Co. Method for the preparation of formed thermoplastic sheets having resin foam integrally bonded thereto. 2,806,812, 9-17-57, Cl. 154—100.
- Merz Engineering, Inc.: *See—*
Haines, Malcolm P. 2,797,576.
- Merz, Kenneth A., to The Torrington Mfg. Co. Air impeller and motor unit. 2,782,982, 2-26-57, Cl. 230—117.
- Merz, Robert W. Casket placer for metal vaults. 2,817,138, 12-24-57, Cl. 27—26.
- Mesanko, George A., 25% to F. J. Mottey and 25% to J. H. Prothero. Clamp for coal loading pan. 2,815,840, 12-10-57, Cl. 193—6.
- Mescan, Bernard J., to AMP Inc. Electrical connections. 2,809,364, 10-8-57, Cl. 339—276.
- Mescher, Harold E.: *See—*
McAllister, Decker G., Parsons, and Mescher. 2,784,243.
- Meschino, Ronald G., to A. V. Roe Canada Ltd. Intake sprinkler for gas turbine engines. 2,812,899, 11-12-57, Cl. 230—132.
- Mesek, Fred K., to Johnson & Johnson. Apparatus for continuous treatment of fibers. 2,803,125, 8-20-57, Cl. 68—62.
- Meservey, Roy B. System means to assure sales recording and registering of merchandise sales. 2,807,007, 9-17-57, Cl. 340—213.
- Mesh, Theodore J., and G. D. Robinson, Jr., to Gilbert & Barker Mfg. Co. Electronic level-sensitive apparatus. 2,812,928, 11-12-57, Cl. 259—95.
- Meshberg, Philip. Nestable vessels. 2,803,375, 8-20-57, Cl. 220—94.
- Meshirer, David D., and D. Gulick. Microphone. 2,787,675, 4-2-57, Cl. 179—179.
- Mesick, Edith M.: *See—*
Mesick, Harry F., Jr. 2,776,472.
- Mesick, Harry F., Jr., deceased, by E. M. Mesick, administratrix, to General Electric Co. Method of making a ceramic-to-metal bond. 2,776,472, 1-8-57, Cl. 29—473.1.
- Mesko, Adam. Striking tool head and handle combination. 2,806,230, 9-17-57, Cl. 7—9.
- Mesler, Robert J., Jr.: *See—*
Colby, Robert W., and Mesler. 2,802,736.
Colby, Robert W., and Mesler. 2,805,949.
- Mesner, Max H.: *See—*
Rajchman, Jan A., Mesner, and Rosenberg. 2,797,321.
- Messenger, Joseph U.: *See—*
Nelson, Murrell D., Jr., and Messenger. 2,798,851.
- Messenger, William G.: *See—*
Baltrukonis, John H., Messenger, and Wheeler. 2,782,631.
- Messer, Adolf, G. m. b. H.: *See—*
Petzold, Bruno. 2,818,029.
- Messer, Frederick: *See—*
Locke, Arthur P., and Messer. 2,785,153.
Locks, Arthur P., and Messer. 2,785,154.
- Messerschmidt, Sebastian. Grinding machines with wear compensator. 2,812,623, 11-12-57, Cl. 51—165.
- Messerschmidt, Sebastian. Grinding machine with oscillating rotary work holder. 2,814,915, 12-3-57, Cl. 51—97.
- Messick, Thomas W. Shields for fish hooks. 2,812,611, 11-12-57, Cl. 43—57.5.
- Messick, Willard C., to Fyrlarm Co., Inc. Fire alarm device. 2,777,416, 1-15-57, Cl. 116—106.
- Messick, Willard C. Temperature responsive alarm device. 2,799,239, 7-16-57, Cl. 116—106.
- Messina, Giuseppe: *See—*
Muench, Werner, and Messina. 2,798,794.
- Messina, Nicholas V., to Tidewater Oil Co. Mineral oil lubricating compositions. 2,779,740, 1-29-57, Cl. 252—51.5.
- Messina, Nicholas V., to Tide Water Associated Oil Co. Mineral oil lubricating compositions. 2,783,206, 2-26-57, Cl. 252—51.5.
- Messina, Ralph P.: *See—*
Henkin, Hyman, and Messina. 2,783,181.
- Messineo, Charles: *See—*
Magash, Julius V., and Messineo. 2,792,833.
- Messing, Hjalmar S., to Davenport Machine & Foundry Co. Continuous press. 2,793,583, 5-28-57, Cl. 100—45.
- Messing, Hjalmar S. Apparatus for presoaking ligno-cellulose material. 2,799,579, 7-16-57, Cl. 92—7.
- Messing, Hjalmar S., and B. Nilsson, to American Defibrator, Inc. Blow-off steam condenser and heat exchanger for pulp producing apparatus and the like. 2,808,156, 10-1-57, Cl. 214—17.
- Messinger Bearings, Inc.: *See—*
Messinger, William. 2,775,931.
- Messinger, William, deceased; The First National Bank of Philadelphia, administrator, to Messinger Bearings, Inc. Press. 2,775,931, 1-1-57, Cl. 100—289.
- Mession Mfg. Co.: *See—*
Young, Henry B. 2,785,454.
- Messmer, Robert C.: *See—*
Braunlich, Richard H., Ghenn, Messmer, and Randolph. 2,803,851.
Webb, Wesley L., and Messmer. 2,790,244.
- Messner, Daryle, to Hoffman Electronics Corp. Remote control tuning apparatus or the like. 2,815,444, 12-3-57, Cl. 250—20.
- Messner, Georg. Process for melting down amalgams of aluminum or its alloys and for removing the mercury therefrom. 2,795,498, 6-11-57, Cl. 75—68.
- Messner, Harlan A., to The Ohio Crankshaft Co. High frequency inductor for small diameter holes. 2,810,053, 10-15-57, Cl. 219—10.51.
- Messrs. Dr. Böger K. G.: *See—*
Limberger, Walter. 2,783,016.
- Mesta Machine Co.: *See—*
Iversen, Lorenz. 2,784,620.
- Mestre, Auguste F., to International Business Machines Corp. Matrix memory systems. 2,800,643, 7-23-57, Cl. 340—174.
- Metal Box Co. Ltd., The: *See—*
Stuchbery, Arthur L. 2,805,856.
- Metal Cutting Tools, Inc.: *See—*
Getts, Sidney A. 2,801,860.
- Metal Diffusions, Inc.: *See—*
Samuel, George A. 2,811,466.
- Metal-Gas Co. Ltd.: *See—*
Gibson, Thomas. 2,809,127.
- Metal Hydrides Inc.: *See—*
Alexander, Peter P. 2,794,732.
Alexander, Peter P., and Wade. 2,794,733.
Bragdon, Robert W. 2,813,115.
Hinckley, Alfred A. 2,809,994.
- Metal Mouldings Corp.: *See—*
Chamberlin, Clarence P. 2,794,698.
- Metal Rolling and Tube Co. (Proprietary) Ltd.: *See—*
Matthey, Andre M. 2,793,027.
- Metal Specialty Co., The: *See—*
Rieppel, Perry J., Clapp, and Evans. 2,779,086.
- Metal Suberdop S. A.: *See—*
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Metal & Thermit Corp.: *See*—

- Banks, Clarence K. 2,816,852.
 Coffeen, William W. 2,789,061.
 Gloskey, Carl R. 2,805,234.
 Johnson, Ernest W. 2,801,258.
 Ramsden, Hugh E. 2,777,885.
 Ramsden, Hugh E. 2,777,886.
 Ramsden, Hugh E. 2,795,627.
 Ramsden, Hugh E. 2,795,628.
 Ramsden, Hugh E. 2,813,886.
 Ramsden, Hugh E. 2,813,887.
 Ramsden, Hugh E. 2,816,937.
 Ramsden, Hugh E. and Banks. 2,789,994.
 Ramsden, Hugh E., Weinberg, and Tomka. 2,789,104.
 Ramsden, Hugh E., Weinberg, and Tomka. 2,790,785.
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 Stareck, Jesse E., and Dow. 2,787,588.
 Stareck, Jesse E., and Dow. 2,787,589.
 Stareck, Jesse E., and Dow. 2,812,297.
 Stareck, Jesse E., and Seyb. 2,800,437.
 Stareck, Jesse E., and Seyb. 2,800,438.
 Stareck, Jesse E., Seyb, and Passal. 2,800,436.
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 Tomka, Louis A. 2,798,863.
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 Tomka, Louis A., and Weinberg. 2,798,862.
 Weinberg, Elliott L. 2,789,102.
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 Weinberg, Elliott L., and Tomka. 2,789,107.

Metal Trim Ltd.: *See*—

- Penkala, Emil. 2,805,106.

Metalastik Ltd.: *See*—

- Hirst, Archie J. 2,782,026.
 Hirst, Archie J. 2,791,893.
 Hirst, Archie J. 2,802,662.
 Hirst, Archie J. 2,812,175.
 Hirst, Archie J., and Chambers. 2,794,610.
 Stubbings, John E., and Hirst. 2,801,552.

Metalelectro Corp.: *See*—

- Horvitz, David. 2,802,031.

Osborn, Hans. 2,785,052

Metallgesellschaft Aktiengesellschaft: *See*—

- Clasen, Hermann. 2,796,397.
 Ebner, Karl. 2,790,595.
 Schmalfeld, Paul, and Danulat. 2,788,314.
 Thumma, Wilhelm, Roesner, and Volk. 2,785,056.
 Wendeborn, Helmut, Schwartz, Maelzer, and Rausch. 2,797,158.

Metall-Guss-und Presswerk Heinrich Diehl G. m. b. H.: *See*—

- Kiel, Wilhelm K. B., and Eichler. 2,780,411.

Metallon Products, Inc.: *See*—

- Greene, John W. 2,805,582.

Metallurgical Development Co.: *See*—

- Keeping, Patrick A. T. 2,801,162.
 Morgan, Stephen W. K., and Williams. 2,816,022.
 Woods, Stephen E. 2,779,673.

Metallurgical Processes Co.: *See*—

- Ness, Harold J. 2,799,604.
 Rusciano, Frank A. 2,799,490.
 Rusciano, Frank A. 2,799,491.

Metallurgical Processes Ltd.: *See*—

- Keeping, Patrick A. T. 2,801,162.
 Woods, Stephen E. 2,779,673.

Metallurgical Processes Ltd. and The National Smelting Co.

- Ltd.: *See*—
 Morgan, Stephen W. K., and Williams. 2,816,022.

Metals & Controls Corp.: *See*—

- Cardin, Wilfred W. 2,813,171.
 Epstein, Henry D. 2,816,191.
 Gwyn, Childress B., Jr. 2,815,421.
 Mascioli, Walter A., Epstein, and Cardin. 2,813,168.
 Wills, William H. 2,810,041.

Metalwash Machinery Co.: *See*—

- Lans, Irwin L. 2,783,975.
 Zademach, Erich R. 2,787,062.
 Zademach, Erich R. 2,800,995.
 Zademach, Erich R. 2,817,570.

Metcalf, Herbert E., to the United States of America as represented by the United States Atomic Energy Commission.

- Method and means of producing steam in neutronic reactors. 2,787,593, 4-2-57, Cl. 204-154.

Metcalf, Herbert E., to The United States of America as represented by the United States Atomic Energy Commission.

- Neutronic reactor. 2,809,157, 10-8-57, Cl. 204-193.2.

Metcalf, Howard F.: *See*—

- Hart, Gene E., and Metcalf. 2,785,553.

Metcalf, Joe S.: *See*—

- Alexander, John R., and Metcalf. 2,792,285.

Metcalf, Maurice E. Tank cleaning machine. 2,784,034, 3-5-57, Cl. 299-69.

Metcalf, Richard J., to Gulf Oil Corp. Process for phenol recovery and crude oil desalting. 2,785,120, 3-12-57, Cl. 204-190.

Metcalfe, Richard T., and E. T. Chrobak. Pre-stressed laminated ski. 2,795,431, 6-11-57, Cl. 280-11.13.

Metco Iron Oxide Corp.: *See*—

- Ross, Edgar D., and Griffin. 2,816,396.

Meter Advertising Co.: *See*—

- Wilson, William L. 2,798,325.

Meter Devices Co.: *See*—

- Newman, Thomas J. 2,811,704.

Meter, Raymond, to Sommer & Maca Glass Machinery Co.

- Endless conveyor. 2,796,707, 6-25-57, Cl. 51-215.
 Methe, Paul S., to Allegheny Ludlum Steel Corp. Titanium base alloys. 2,810,643, 10-22-57, Cl. 75-175.5.

Methode Mfg. Corp.: *See*—

- McGinley, William J. 2,776,415.

Methra A.-G.: *See*—

- Balde, Ulysse. 2,778,952.

Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc.

- Phosphorus derivatives of kojic acid and process of preparation. 2,778,767, 1-22-57, Cl. 167-33.

Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc.

- Sulfoxides and sulfones of 1,2-dichloroethylene derivatives. 2,793,234, 5-21-57, Cl. 260-607.

Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc.

- Phosphorus derivatives, process for their preparation and compositions containing same. 2,803,580, 8-20-57, Cl. 167-30.

Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc.

- Phosphorus derivatives, process for their preparation and compositions containing them. 2,811,476, 10-29-57, Cl. 167-33.

Metrailler, William J., and E. D. Stokes, to Esso Research and Engineering Co. Apparatus for transferring finely divided solids from zone to zone. 2,807,393, 9-24-57, Cl. 222-194.

Metromatic Mfg. Co., Inc.: *See*—

- Austin, Wendell F. 2,803,409.

Metropolitan-Vickers Electrical Co. Ltd.: *See*—

- Barlow, Ernest. 2,796,540.
 Barlow, Ernest, and Consterdine. 2,811,659.
 Chick, Douglas R., Petrie, and Chivers. 2,792,546.
 Creek, Frederick R. L. 2,805,090.
 Crowley-Milling, Michael C. 2,786,980.
 Dodds, John M. 2,811,654.
 Evans, Owen T., Hathaway, and Abram. 2,805,376.
 Fawdry, Arthur C., and Barker. 2,790,050.
 Kilner, William N. 2,778,959.
 Kilner, William N. 2,779,884.
 Miller, Charles W., and Crowley-Milling. 2,810,855.
 Richardson, Henry A. 2,796,523.
 Sherlock, James, and Dines. 2,807,768.
 Tudge, Joseph. 2,787,721.
 Turnbull, John S., and Nicholas. 2,815,552.
 Walker, John R. D., Oates, and Coombes. 2,803,221.

Metsker, Earl J. Hook holding hatband. 2,795,890, 6-18-57, Cl. 43-57.5.

Mettetal, Bert, to D. Mettetal, Sr. Throttle control valve for model aircraft engine. 2,806,458, 9-17-57, Cl. 123-65.

Mettetal, Don, Sr.: *See*—

- Mettetal, Bert. 2,806,458.

Mettler, Erhard K., and J. Meier; said Meier assor. to said Mettler. Check link arrangement for scales. 2,812,935, 11-12-57, Cl. 265-27.

Mettler, John D., Jr., to Union Carbide Corp. Direct production of tungsten carbide from tungstic oxide. 2,800,393, 7-23-57, Cl. 23-208.

Mettler, William J.: *See*—

- Hill, Joseph W. 2,794,204.
 Hill, Joseph W. 2,808,606.

Metts, Adonis A. Retrieving device. 2,791,785, 5-14-57, Cl. 9-9.

Metz, Haskell: *See*—

- Lykes, Norman R. 2,810,231.

Metz, Lester A., to Pull-Packaging, Inc. Method of and apparatus for packaging cigarettes and the like. 2,783,596, 3-5-57, Cl. 53-14.

Metze, Robert W., Jr., and R. J. Reise. Identical two-part headed fastener having engageable teeth. 2,797,605, 7-2-57, Cl. 85-4.

Metzeler Gummiwerke A. G.: *See*—

- Vieweg, Heinz. 2,791,705.

Metzger, Benjamin A.: *See*—

- Shafer, Homer J., and Metzger. 2,811,834.

Metzger, Floyd J. Silver catalysts. 2,805,207, 9-3-57, Cl. 252-476.

Metzger, Floyd J. Catalytic oxidation of ethylene. 2,805,229, 9-3-57, Cl. 260-348.5.

Metzger, Frank X. Peeling attachment for garbage disposal unit. 2,781,175, 2-12-57, Cl. 241-101.

Metzger, Frederick W., to Bell Telephone Laboratories, Inc. Lockout circuit. 2,787,731, 4-2-57, Cl. 315-121.

Metzger, Henry L., to Fort Orange Paper Co. Six-compartment tray. 2,785,844, 3-19-57, Cl. 229-28.

Metzger, Henry L., to Fort Orange Paper Co. Method of packaging. 2,789,405, 4-23-57, Cl. 53-14.

Metzger, Henry L., to Fort Orange Paper Co. Non-returnable carrier. 2,813,657, 11-19-57, Cl. 220-113.

Metzger, Henry L., to Fort Orange Paper Co. Returnable bottle carrier. 2,813,658, 11-19-57, Cl. 220-113.

Metzger, Paul. Method of making a soft collar. 2,806,223, 9-17-57, Cl. 2-143.

Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,792,946, 5-21-57, Cl. 213-104.

Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,812,075, 11-5-57, Cl. 213-126.

Metzings, Joseph. Sectional boat construction. 2,794,992, 6-11-57, Cl. 9-2.

Metzler, Charles L.: *See*—

- Hawthorne, Kenneth B., Hanlon, Schladermundt, Metzler, and Werk. 2,790,609.

- Metzler, Franklin A., Jr.: *See—*
 Stoll, Kenneth M., and Metzler. 2,814,791.
- Metzner, Albert W., to The Standard Register Co. Strip feeding mechanism. 2,775,937, 1-1-57, Cl. 101-292.
- Metzner, Albert W., to The Standard Register Co. Pin type feeding device. 2,782,894, 2-26-57, Cl. 197-133.
- Metzner, Albert W., to The Standard Register Co. Strip feeding mechanism. 2,787,215, 4-2-57, Cl. 101-288.
- Metzner, Albert W., to The Standard Register Co. Strip feeding mechanism. 2,807,347, 9-24-57, Cl. 197-133.
- Metzner, Joseph G. J.: *See—*
 Eissfeldt, Werner. 2,787,189.
- Meuleners, Robert L.: *See—*
 Jarboe, James A., III, and Meuleners. 2,797,191.
- Meull, Lloyd J., to The Dow Chemical Co. Method of treating fungus infected soil employing an haloketone. 2,802,768, 8-13-57, Cl. 167-22.
- Meulien, Henri, and J. Bertin, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Two-stroke engine. 2,805,655, 9-10-57, Cl. 123-65.
- Meulien, Henri L. P., L. J. Bauger, and H. Turinetti, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Jet deflecting device, especially intended for discharge nozzles or propulsion units. 2,797,547, 7-2-57, Cl. 60-35.54.
- Meulien, Henri L. P., J. H. Bertin, and M. Kadosch, to Societa Nationale d'Etude et de Construction de Moteurs d'Aviation. Jet deflecting device for jet propulsion units. 2,807,137, 9-24-57, Cl. 60-35.54.
- Meulien, Henri L. P., M. J. Baraut, and J. Le Foll, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Leak recovering device for pulse jet units. 2,814,930, 12-3-57, Cl. 60-35.6.
- Meulnart, Andre. Spinner. 2,796,695, 6-25-57, Cl. 43-44.86.
- Meunier, Joseph C. Heat deflector for sanctuary lamps. 2,812,653, 11-12-57, Cl. 67-21.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A. G. Method of injecting water into the combustion chamber of high speed diesel engines. 2,777,430, 1-15-57, Cl. 123-25.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A. G. Injection nozzle arrangement. 2,777,431, 1-15-57, Cl. 123-32.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A. G. Regulation of the piston temperature in internal combustion engines. 2,788,773, 4-16-57, Cl. 123-41.35.
- Meusel, Jerome A., to The Baltimore Spice Co. Method of producing a flavoring composition. 2,786,766, 3-26-57, Cl. 99-140.
- Meyer, A. F., Mfg. Co.: *See—*
 Getz, Benjamin E. 2,811,003.
- Meyer, Alfonso H., $\frac{1}{4}$ to M. N. Forde and $\frac{1}{4}$ to C. I. McCall. Scouring pad holder. 2,778,049, 1-22-57, Cl. 15-209.
- Meyer, Alvin F. Television chair. 2,803,291, 8-20-57, Cl. 155-153.
- Meyer, Alvin L., Jr., and R. D. Bale sweep. 2,817,449, 12-24-57, Cl. 214-145.
- Meyer, Alvin F. Sign. 2,817,913, 12-31-57, Cl. 40-39.
- Meyer, Amel R., to Chicago Bridge & Iron Co. Welding tool manipulating apparatus. 2,806,935, 9-17-57, Cl. 219-126.
- Meyer, Amel R., to Grover Tank & Mfg. Co., Inc. Welding process. 2,817,748, 12-24-57, Cl. 219-126.
- Meyer, Andre J., and A. J., Jr. Ellipsographs. 2,810,962, 10-29-57, Cl. 33-31.
- Meyer, Andre J., Jr.: *See—*
 Meyer, Andre J., and A. J. Meyer, Jr. 2,810,962.
- Meyer, Barthold F.: *See—*
 Kapanka, William F., and Meyer. 2,775,783.
- Meyer, Bernhard J. E.: *See—*
 Rottmann, Fred. 2,785,927.
- Meyer-Busch, Gert. Flyers for use in connection with spinning machines. 2,814,177, 11-26-57, Cl. 57-117.
- Meyer, Edgar J., and H. A. Maier, to American Optical Co. Optical angle measuring device. 2,783,675, 3-5-57, Cl. 88-14.
- Meyer, Edwin W.: *See—*
 Julian, Percy L., Meyer, Ryden, and Karpel. 2,816,108.
- Klein, Jerome G., Meyer, and Grotz. 2,815,333.
- Meyer, Engelbert A., to General Motors Corp. Window clip assembly for automotive vehicles. 2,793,071, 5-21-57, Cl. 296-84.
- Meyer, Ernst, to Schweizerische Lokomotiv- und Maschinenfabrik. Progressively adjustable friction gears. 2,787,164, 4-2-57, Cl. 74-199.
- Meyer, Eugen, to Aktiengesellschaft, Brown, Boveri & Cie. Salient pole construction and mode of attachment to rotor of dynamo-electric machine. 2,812,460, 11-5-57, Cl. 310-218.
- Meyer, Ewald I.: *See—*
 Meyer, Norbert H. and O. F. 2,776,763.
- Meyer, Ferdinand C.: *See—*
 Kyrides, Lucas P., Meyer, and Zienty. 2,776,980.
- Meyer, Franklin, Jr., to The Taft-Peirce Mfg. Co. Fluid gage apparatus. 2,775,818, 1-1-57, Cl. 33-147.
- Meyer, Franklin, Jr., to The Taft-Peirce Mfg. Co. Fluid gage apparatus. 2,779,188, 1-29-57, Cl. 73-37.8.
- Meyer, Franklin, Jr., to The Taft-Peirce Mfg. Co. Gage for measuring circumambient surfaces. 2,801,475, 8-6-57, Cl. 33-179.
- Meyer, Friedrich: *See—*
 Schmidt, Hans, and Meyer. 2,785,174.
- Meyer, Fritz, to Agfa Camera-Werk Aktiengesellschaft. Mirror reflex cameras. 2,784,654, 3-12-57, Cl. 95-42.
- Meyer, Geo. J., Mfg. Co.: *See—*
 Carter, Sidney T. 2,787,104.
- Carter, Sidney T. 2,804,961.
- Meyer, George L. N. 2,778,479.
- Norin, Allan A. 2,816,645.
- Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Conveyor for spray type pasteurizer. 2,778,479, 1-22-57, Cl. 198-195.
- Meyer, George L. N. Filler valve for pulp drinks or the like. 2,796,892, 6-25-57, Cl. 141-48.
- Meyer, Gerrit: *See—*
 Platteeuw, Joost C., Meyer, and Diepen. 2,815,267.
- Meyer, Harry A., to American Radiator & Standard Corp. Fan assembly. 2,799,446, 7-16-57, Cl. 230-273.
- Meyer, Henry C. A. Laundry machine. 2,798,610, 7-9-57, Cl. 210-144.
- Meyer, Henry F., to Harris-Seybold Co. Mounting for fountain roll. 2,777,388, 1-15-57, Cl. 101-364.
- Meyer, Herbert: *See—*
 Gunther, Hermann, and Meyer. 2,804,770.
- Meyer, John E. Sea anchor. 2,785,646, 3-19-57, Cl. 114-209.
- Meyer, John F. A.: *See—*
 Dunn, Reginald W., and Meyer. 2,815,477.
- Meyer, John J., to Independent Lock Co. Knob construction. 2,793,899, 5-28-57, Cl. 292-347.
- Meyer, Joseph A. Ring roll in leather-splitting machines. 2,803,126, 8-20-57, Cl. 69-10.
- Meyer, Julia: *See—*
 Rottmann, Fred. 2,785,927.
- Meyer, Lenore F. Snap fastener for use with buttons. 2,798,273, 7-9-57, Cl. 24-104.
- Meyer, Leo J. Sheller and grader. 2,796,987, 6-25-57, Cl. 209-98.
- Meyer, Le Roy S. Upholstery fastener. 2,802,297, 8-13-57, Cl. 45-138.
- Meyer, Lester W. A., and M. H. Broyles, to Eastman Kodak Co. Cellulose organic acid ester plastics containing methoxyphenyl p-hydroxybenzoate. 2,811,460, 10-29-57, Cl. 106-179.
- Meyer, Lester W. A., and M. H. Broyles, to Eastman Kodak Co. Cellulose organic acid ester plastics containing resorcinol mono-meta-hydroxybenzoate. 2,811,461, 10-29-57, Cl. 106-180.
- Meyer, Marlon B.: *See—*
 Meyer, Norbert H. and O. F. 2,776,763.
- Meyer, Maurice A.: *See—*
 Gordon, Bernard M., and Meyer. 2,799,829.
- Meyer, Norbert H. and O. F. $\frac{1}{2}$ to M. B. Meyer, $\frac{1}{4}$ to E. I. Meyer, $\frac{1}{4}$ to said N. H. Meyer, and $\frac{1}{4}$ to said O. F. Meyer. Vehicle mounted hydraulic bale loader. 2,776,763, 1-8-57, Cl. 214-83.26.
- Meyer, Ola C. Diaper. 2,815,026, 12-3-57, Cl. 128-284.
- Meyer, Ormand F.: *See—*
 Meyer, Norbert H. and O. F. 2,776,763.
- Meyer, Oskar, E. Ebert, and K. Frank, to Knapsack-Griesheim Aktiengesellschaft. Process for the preparation of ferroalloys. 2,805,933, 9-10-57, Cl. 75-60.
- Meyer, Otto, to Cosmopolitan A. G. Device for the introduction, removal, and detention of a pipeline scraper. 2,786,219, 3-26-57, Cl. 15-104.06.
- Meyer, Paul H. Deflecting tool. 2,797,894, 7-2-57, Cl. 255-1.6.
- Meyer, Ralph L., and S. Pakswier, to The Rauland Corp. Ionic discharge device construction. 2,802,131, 8-6-57, Cl. 313-193.
- Meyer, Raymond P., to Root Mfg. Co., Inc. Automatic power lawn mower. 2,815,633, 12-10-57, Cl. 56-25.4.
- Meyer, Reynold M. Implement lift. 2,787,944, 4-9-57, Cl. 97-47.63.
- Meyer, Robert E., to United Aircraft Corp. Flap type variable area thrust nozzle having an actuating mechanism including a movable duct. 2,813,395, 11-19-57, Cl. 60-35.6.
- Meyer, Robert H., and A. K. Johnson, to The Dow Chemical Co. Method for making anhydrous alkali metal alcoholates. 2,796,443, 6-18-57, Cl. 260-618.
- Meyer, Robert W., and R. G. Swanson, to Owens-Illinois Glass Co. Method and apparatus for inspecting caps. 2,793,746, 5-28-57, Cl. 209-111.
- Meyer, Roy D.: *See—*
 Meyer, Alvin L., Jr., and R. D. 2,817,449.
- Meyer, Sven F. E., to E. C. Andrae. Electric relay. 2,785,249, 3-12-57, Cl. 200-112.
- Meyer, Walter, to Standard Coil Products Co., Inc. Cascade amplifier with signal and AGC voltages applied to different stages. 2,795,694, 6-11-57, Cl. 250-20.
- Meyer, Walter H.: *See—*
 Meyer, Walter R., and Siekmann. 2,807,973.
- Meyer, Walter R., and Siekmann. 2,807,974.
- Meyer, Walter R., deceased, by W. H. Meyer, administrator, and H. J. Siekmann, to The R. K. Le Blond Machine Tool Co. Apparatus for manufacturing crankshafts automatically. 2,807,973, 10-1-57, Cl. 82-2.5.
- Meyer, Walter R., deceased, by W. H. Meyer, administrator, and H. J. Siekmann, to The R. K. Le Blond Machine Tool Co. Automatic bearing lathe. 2,807,974, 10-1-57, Cl. 82-9.
- Meyer, Walter W., to Muskegon Piston Ring Co. Seal. 2,806,720, 9-17-57, Cl. 286-11.
- Meyer, Wendel J., and I. Johnsen, Jr., to Pullman-Standard Car Mfg. Co. Cushioned underframe. 2,803,353, 8-20-57, Cl. 213-8.

- Meyer, William: *See*—
Krone, Howard C., and Meyer. 2,795,391.
- Meyercord Co., The: *See*—
Barnebey, Herbert L. 2,810,662.
Klopfenstein, Jess D. 2,776,510.
Klopfenstein, Jess D., Zimmerman, and Engstrom. 2,776,511.
- Meyerhans, Konrad: *See*—
Preiswerk, Eduard, Meyerhans, Ernst, Denz, and Juchli. 2,788,337.
- Meyerhoefer, Carl E., to Lewyt Corp. Vacuum cleaner assembly. 2,778,447, 1-22-57, Cl. 183-37.
- Meyerhoefer, Carl E., to Lewyt Corp. Vacuum cleaner assembly. 2,779,432, 1-29-57, Cl. 183-37.
- Meyerhoefer, Carl E., to Lewyt Corp. Filter bag. 2,792,076, 5-14-57, Cl. 183-51.
- Meyerhoefer, Carl E., to Lewyt Corp. Telescopic coupling with cam latch means. 2,793,055, 5-21-57, Cl. 285-7.
- Meyerhoefer, Carl E., to Lewyt Corp. Filter bag structure for vacuum cleaners. 2,808,898, 10-8-57, Cl. 183-51.
- Meyerhoefer, Carl E., to Lewyt Corp. Caster. 2,810,925, 10-29-57, Cl. 16-18.
- Meyer-Jagenberg, Gunther, W. Drese, and H. Zerlin, to Jagenberg-Werke Akt.-Ges. Apparatus for assembling, impregnating and delivering containers of paper, cardboard or the like carton forming material. 2,785,610, 3-19-57, Cl. 93-36.
- Meyer-Jagenberg, Gunther, and H. Zerlin, to Jagenberg-Werke Akt.-Ges. Liquid-tight container of paper, cardboard and the like, and method of manufacturing, filling and closing the same. 2,801,040, 7-30-57, Cl. 229-7.
- Meyers, Douglas C., to Shell Development Co. Automatic metering apparatus. 2,817,967, 12-31-57, Cl. 73-224.
- Meyers, George L.: *See*—
Meyers, Norman. 2,816,501.
- Meyers, George L. to The Eagle-Picher Co. Method of making a resilient foam-filled article. 2,801,199, 7-30-57, Cl. 154-110.
- Meyers, George L., to The Eagle-Picher Co. Method of forming plastic protuberances. 2,816,853, 12-17-57, Cl. 154-106.
- Meyers, George L., G. W. De Walt, and L. M. Keene, to Petrolite Corp. Oxidized wax and method of making same. 2,779,779, 1-29-57, Cl. 260-452.
- Meyers, Gordon S., P. Morozovitch, and G. A. Grant, to American Home Products Corp. Triester of germaine. 2,784,189, 3-5-57, Cl. 260-287.
- Meyers, Harold N., to Sealed Power Corp. Centrifugal sleeve casting mold. 2,781,564, 2-19-57, Cl. 22-113.5.
- Meyers, Harold S., to Waldorf Paper Products Co. Interlocking device. 2,793,759, 5-28-57, Cl. 211-49.
- Meyers, Herbert: *See*—
Meyers, Norman. 2,816,501.
- Meyers, John J., to Eastman Kodak Co. Construction for dampening engine noise. 2,808,122, 10-1-57, Cl. 181-33.
- Meyers, Mae E. Navigators plotting board. 2,813,338, 11-19-57, Cl. 33-1.
- Meyers, Murray: *See*—
Meyers, Norman. 2,816,501.
- Meyers, Norman, 25% each to G. L. M., and H. Meyers. Adjustable toaster. 2,816,501, 12-17-57, Cl. 99-390.
- Meyers, Richard A.: *See*—
Richards, Archer W., and Meyers. 2,780,267.
- Meyers, Richard K., and H. D. Kluge, to The Texas Co. Process for preparing magnesium alkyl phenolates. 2,788,325, 4-9-57, Cl. 252-42.7.
- Meyers, Stanley T., to Bell Telephone Laboratories, Inc. Negative impedance converter. 2,817,822, 12-24-57, Cl. 333-80.
- Meylan, André: *See*—
Ramseier, Otto, and Meylan. 2,803,940.
- Meynig, Robert E., to Black, Sivalls & Bryson, Inc. Liquid injector. 2,789,516, 4-23-57, Cl. 103-50.
- Meysan, Charles H., and F. H. Dodge. Carriage bracket for head anchor. 2,777,659, 1-15-57, Cl. 248-226.
- Meyst, William, 20% to W. Roeben, and 40% to R. Fagan. Identity and document recording apparatus. 2,817,996, 12-31-57, Cl. 88-24.
- Meystre, Charles: *See*—
Wettstein, Albert, Vischer, and Meystre. 2,778,776.
- Mezzera Società per Azioni: *See*—
Brunner, August, and Veronesi. 2,783,633.
- Miami Margarine Co., The: *See*—
Struble, Charles H., and Stephens. 2,787,550.
- Miao, Yun T.: *See*—
Tseng, Hung-tu, and Miao. 2,790,858.
Tseng, Hung-tu, and Miao. 2,790,859.
- Mica Insulator Co.: *See*—
Budnik, Frederick. 2,791,262.
- Mick, Richard. Valve ball mountings for toilet flush tanks. 2,781,520, 2-19-57, Cl. 4-57.
- Michael, Don L. Rip guide for portable electric saws. 2,800,933, 7-30-57, Cl. 143-43.
- Michael, Harold E., to Northrop Aircraft, Inc. Auxiliary air inlet door and duct coupling for jet aircraft air inlet ducts. 2,788,184, 4-9-57, Cl. 244-53.
- Michael, James F., to E. J. Brown Sales Co. Door knob assembly. 2,797,950, 7-2-57, Cl. 292-347.
- Michael, Julian. Fountain mop. 2,792,580, 5-21-57, Cl. 15-129.
- Michael, Ralph A., J. A. Newkirk, and W. E. Preston. Magnetic dust traps or filters. 2,789,655, 4-23-57, Cl. 183-7.
- Michael, Stanley H. High fidelity amplifying apparatus. 2,812,382, 11-5-57, Cl. 179-1.
- Michael, Wilbur F. Fish lure. 2,816,391, 12-17-57, Cl. 43-26.2.
- Michael, William H.: *See*—
Appleton, William C., and Michael. 2,810,281.
- Michaelis, Harold A., to General Electric Co. Cooking appliance. 2,786,929, 3-26-57, Cl. 219-37.
- Michaelis, Harold A., to General Electric Co. Frying apparatus. 2,805,314, 9-3-57, Cl. 219-43.
- Michaelis, Heinz: *See*—
Zerlin, Hans, and Michaelis. 2,799,211.
- Michaelis, Willi, to Franke & Heidecke Fabrik Photographischer Präzisions-Apparate. Protective housing for photographic cameras. 2,796,813, 6-25-57, Cl. 95-11.
- Michaels Art Bronze Co., The: *See*—
Eames, James O. 2,813,674.
- Michaels, John I.: *See*—
Davis, Charles J., Michaels, and Loesch. 2,788,906.
- Michaels, John I., C. J. Davis, and C. A. Loesch, to Mid-Western Industries, Inc. Tractor mounted power unit. 2,791,341, 5-7-57, Cl. 214-141.
- Michaels, Walter E., to Industrial Molasses Corp. Spraying nozzle. 2,794,683, 6-4-57, Cl. 299-149.
- Michalka, Alois M., to S. Curtis & Son, Inc. Cushioned hexagonal carton. 2,808,193, 10-1-57, Cl. 229-39.
- Michalka, Max, to Easton Metal Powder Co. Inc. Process for the prevention of separation and dust formation in magnetizable powders. 2,784,073, 3-5-57, Cl. 75-5.
- Michalko, Ignatius: *See*—
Knauer, William F., and Michalko. 2,804,509.
- Michalski, Joseph. Anti-derailing device. 2,800,861, 7-30-57, Cl. 104-246.
- Michalski, Martin. Vehicle attachment. 2,797,852, 7-2-57, Cl. 224-42.45.
- Michalsky, Peter. Collapsible wire carrier. 2,809,767, 10-15-57, Cl. 220-117.
- Michaud, André L.: *See*—
Mas, Robert J., and Michaud. 2,792,077.
- Michaud, Frank H. Vertically adjustable wheeled supporting frame for cabinets and the like. 2,783,055, 2-26-57, Cl. 280-444.
- Michaux, Raymond, to Institut de Recherches de la Siderurgie. Optical pyrometers for measuring the temperature of the metal bath during refining in the converter. 2,815,276, 12-3-57, Cl. 75-60.
- Michaux, Raymond, and H. Ruelland, to Institut de Recherches de la Siderurgie. Rotational viscosimeter. 2,814,945, 12-3-57, Cl. 73-59.
- Michel, George H., and K. W. Knight, to American Cyanamid Co. Stabilizing of vitamin B₁₂ solutions. 2,778,771, 1-22-57, Cl. 167-81.
- Michel, George H., and K. W. Knight, to American Cyanamid Co. Rapid preparation of encapsulation formula. 2,799,591, 7-16-57, Cl. 106-135.
- Michel, Howard H. Protective covers for burial caskets. 2,788,597, 4-16-57, Cl. 41-12.
- Michel, Josef M.: *See*—
Hager, Karl F., Michel, and Rosenthal. 2,801,979.
- Michel, Laurent P.: *See*—
Dingman, Robert W., Michel, Secord, and Schaeffer. 2,801,901.
- Michelbach, Mahlon F.: *See*—
Seary, Eugene G., and Michelbach. 2,814,855.
- Michels, Julian G., to The Norwich Pharmacal Co. 1-nitroso-2-imidazolidone and process. 2,776,979, 1-8-57, Cl. 260-309.7.
- Michelsen, Lloyd O. Tractor seat mounting. 2,814,335, 11-26-57, Cl. 155-51.
- Michelsen, Robert: *See*—
Dickmann, Heinz, Michelsen, and Scheller. 2,812,997.
- Michelson, Adolf M.: *See*—
Mitchell, Herschel K., and Michelson. 2,788,346.
- Michelson, Fred E. Keyway checkers. 2,807,091, 9-24-57, Cl. 33-174.
- Michelson, Harry, to National Detroit Publishers, Inc. Adjustable chase. 2,816,505, 12-17-57, Cl. 101-391.
- Michelson, Max.: *See*—
Dairiki, Setsuo, and Michelson. 2,801,390.
- Michener, Herbert E., Jr., and J. R. Smith, to The Garlock Packing Co. Mechanical shaft seal. 2,797,940, 7-2-57, Cl. 286-11.15.
- Michie, John S., to Reeves Pulley Co. V-belt pulley drive. 2,776,575, 1-8-57, Cl. 74-230.17.
- Michie, John S., to The Reliance Electric and Engineering Co. Keyless resiliently-expandable V-pulley. 2,797,587, 7-2-57, Cl. 74-230.17.
- Michie, John S., to The Reliance Electric and Engineering Co. Expandable V-pulley with variably driven elements and speed varying drive. 2,803,143, 8-20-57, Cl. 74-230.17.
- Michigan Abrasive Co.: *See*—
Dickey, Robert C., Hauck, and Archer. 2,784,695.
- Michigan Bumper Corp.: *See*—
Hespenheide, Wilbur G. 2,803,570.
- Michigan Chemical Co.: *See*—
Fleischmann, Herbert J. 2,808,313.
- Michigan College of Mining & Technology, Board of Control of the: *See*—
Yeadon, Donald J., Hooker, and Garland. 2,802,497.

- Michigan Tool Co.: *See*—
Bard, Larry A., Cardoze, and Hellstrom. 2,809,515.
Moncrieff, Alexander D. F. 2,778,279.
Scott, Clayton E. 2,808,141.
- Michigan Wire Cloth Co.: *See*—
Darnell, Rex C. 2,782,932.
- Mickelson, Nils B.: *See*—
May, Richard D., and Mickelson. 2,792,645.
- Mickey, Carl F. and L. E. Dispenser truck body for beer kegs. 2,818,185, 12-31-57, Cl. 214-83.2.
- Mickey, Lawrence E.: *See*—
Mickey, Carl F. and L. E. 2,818,185.
- Mickle, Virgil C., to George E. Failing Co. Apparatus for circulating drilling fluid in rotary drill. 2,786,651, 3-26-57, Cl. 255-24.
- Mickley, Harold S.: *See*—
Lustwerk, Ferdinand, Mickley, and Neumann. 2,817,959.
Lustwerk, Ferdinand, Mickley, and Neumann. 2,817,960.
- Mickley, Harold S., to Fairchild Engine and Airplane Corp. Engine exhaust disposal system. 2,786,457, 3-26-57, Cl. 123-41.86.
- Mickman, John V., to Minneapolis-Honeywell Regulator Co. Acceleration responsive device. 2,812,398, 11-5-57, Cl. 200-61.45.
- Mickus, Robert R., and G. W. Brewer, to Rice Growers Association of California. Rice treating process. 2,808,333, 10-1-57, Cl. 99-80.
- Micofil A.-G.: *See*—
Blumentritt, Werner. 2,804,784.
- Microcyclomat Co., The: *See*—
Lykken, Henry G. 2,779,467.
- Micromatic Hone Corp.: *See*—
Peden, Douglas T. 2,797,537.
- Micro-Poise Engineering and Sales Co.: *See*—
Lannen, Joseph P. 2,792,725.
- Microwave Development Laboratories: *See*—
Riblet, Henry J., Saad, and Williston. 2,812,503.
- Mid-Century Corp.: *See*—
Brown, David, and Saffer. 2,789,988.
Landau, Ralph. 2,814,652.
- Middeler, Paul. Apparatus for measuring and gauging cylindrical and conical bores and internal screw threads. 2,788,582, 4-16-57, Cl. 33-174.
- Middelhof, Jan, to American Enka Corp. Device for cutting staple fiber. 2,792,887, 5-21-57, Cl. 164-61.
- Middlemark, Marvin P. High frequency antennas. 2,780,808, 2-5-57, Cl. 343-806.
- Middlemark, Marvin P. Abrading machine actuated by water pressure. 2,813,376, 11-19-57, Cl. 51-5.
- Middlen, Joel. Livestock feeding apparatus. 2,807,234, 9-24-57, Cl. 119-51.
- Middlestadt, William F. Dispensing attachment for a liquid container. 2,786,718, 3-26-57, Cl. 299-97.
- Middlestetter, Brewster P. Spring motor. 2,780,313, 2-5-57, Cl. 185-9.
- Middleton, Arthur E.: *See*—
Hall, Donovan L., Middleton, and Olson. 2,787,688.
Shilliday, Theodore S., Peet, and Middleton. 2,812,273.
- Middleton, Charles C.: *See*—
Rolston, Norman, and Middleton. 2,791,265.
- Middleton, D. B.: *See*—
Thomas, Dorsey B. 2,814,714.
- Middleton, Herbert J. Attachments for can openers adapted to interrupt a stream of gas charged fluid discharging from the punctured can. 2,775,813, 1-1-57, Cl. 30-1.
- Middleton, James G., and J. D. Parrish, to Middleton & Parrish, Inc. Potato harvester. 2,777,266, 1-15-57, Cl. 55-51.
- Middleton, John F., to Foster Wheeler Corp. Apparatus for fractionally distilling composite liquids. 2,809,924, 10-15-57, Cl. 196-139.
- Middleton & Parrish, Inc.: *See*—
Middleton, James G., and Parrish. 2,777,266.
- Middleton, William H. Paraffin scraper. 2,785,757, 3-19-57, Cl. 166-170.
- Middleton, William J.: *See*—
Heckert, Richard E., and Middleton. 2,781,359.
Little, Ernest L., Jr., and Middleton. 2,790,805.
- Middleton, William J., to E. I. du Pont de Nemours and Co. Pyrroles having amino, cyano and mercapto or substituted mercapto groups and their preparation. 2,779,766, 1-29-57, Cl. 260-313.5.
- Middleton, William J., to E. I. du Pont de Nemours and Co. 1,4-diamino-2,3-dicyano-1,4-bis (substituted mercapto) butadienes and their preparation. 2,779,780, 1-29-57, Cl. 260-465.
- Middleton, William J., to E. I. du Pont de Nemours and Co. Heterocyclic compounds and their preparation. 2,790,806, 4-30-57, Cl. 260-294.9.
- Middleton, William J., to E. I. du Pont de Nemours and Co. 2,5-bis-(substituted mercapto)-3,4-dicyanopyrroles and their preparation. 2,793,215, 3-21-57, Cl. 260-326.5.
- Middleton, William J., to E. I. du Pont de Nemours and Co. Substituted pyridines and their preparation. 2,794,803, 6-4-57, Cl. 260-247.5.
- Middleton, William J., to E. I. du Pont de Nemours and Co. Substituted 2,5-diamino-3-cyanothiophenes and their preparation. 2,801,908, Cl. 260-332.2.
- Middleton, William J., to E. I. du Pont de Nemours and Co. 1,1,2,2-tetracyanoethanesulfonic acid and salts thereof. 2,809,972, 10-15-57, Cl. 260-270.
- Midgette, Ernst L., to Sarco Co., Inc. Thermodynamic steam trap. 2,817,353, 12-24-57, Cl. 137-183.
- Midgley, John M., and T. A. Straight, Jr., to Boeing Airplane Co. Airplane jacking method and apparatus. 2,803,360, 8-20-57, Cl. 214-152.
- Midkiff, Cecil L., 50% to M. I. Midkiff. Wrench holder. 2,810,472, 10-22-57, Cl. 206-16.
- Midkiff, Marjorie I.: *See*—
Midkiff, Cecil L. 2,810,472.
- Midland Chemical Corp.: *See*—
Collins, George J. 2,798,057.
Drummond, Folsom E. 2,787,555.
Novak, Leo J. 2,786,767.
Novak, Leo J., and Witt. 2,780,888.
Toulmin, Harry A., Jr. 2,789,911.
Toulmin, Harry A., Jr. 2,813,797.
- Midland Equipment Corp.: *See*—
Kafka, Robert S. 2,794,391.
- Midland Steel Products Co., The: *See*—
Almond, John R. 2,782,028.
- Midland Tar Distillers Ltd., The: *See*—
Morton, Frank, and Cumming. 2,790,834.
- Midlock, Bernard J., to Eastern Industries, Inc. Space resonant system. 2,797,324, 6-25-57, Cl. 250-36.
- Mid-States Gummed Paper Co.: *See*—
Humphner, Ferdinand W. 2,786,510.
Humphner, Ferdinand W. 2,786,672.
- Mid-States Steel and Wire Co.: *See*—
Cain, Joseph B. 2,788,934.
- Midvale Dental Supply Co.: *See*—
Clauser, John M. and F. K. 2,796,664.
- Mid-Valley Pipeline Co.: *See*—
Morrill, Edward F., Jr. 2,786,489.
- Midway Hosiery Mills, Inc.: *See*—
Bridges, Howard S., Sr. 2,812,651.
- Mid-West Abrasive Co.: *See*—
Atkinson, George R. 2,797,535.
- Midwest Controls Co.: *See*—
Se Bastian, Ford. 2,817,736.
- Midwest Hanger Co.: *See*—
Jones, Carl O. 2,801,145.
- Midwest Mfg. Corp.: *See*—
Aylor, Elmo E., and Vollmer. 2,805,876.
Pine, Orle E. 2,816,193.
Squire, Herbert D. 2,812,204.
- Midwest Rubber Reclaiming Co.: *See*—
Le Beau, Rée V. 2,783,213.
- Mid-Western Industries, Inc.: *See*—
Davis, Charles J., Michaels, and Loesch. 2,788,906.
Michaels, John I., Davis, and Loesch. 2,791,341.
- Miedema, Gerben. Cooling system auxiliary heater. 2,810,059, 10-15-57, Cl. 219-38.
- Miehe, Frank J.: *See*—
Nylund, John A., and Miehe. 2,803,927.
- Miehle-Goss-Dexter, Inc.: *See*—
Crafts, Curtis S. 2,797,085.
Di Genova, Andrew A. 2,813,538.
Hilgoe, Vernon J. 2,797,084.
McArthur, Donald W. 2,799,107.
Perry, John R., and Williams. 2,799,499.
Sites, Benjamin L. 2,814,989.
Stoohoff, Stanley T., and Williams. 2,801,846.
- Miehle Printing Press & Mfg. Co.: *See*—
Williams, Leo C. 2,781,842.
- Miele, Bernardo A. Ladder offset apparatus. 2,806,642, 9-17-57, Cl. 228-60.
- Mielziner, Willard S. Recording device. 2,793,928, 5-28-57, Cl. 346-136.
- Mierendorf, Robert C., and C. W. Porter, to Square D Co. Electric control circuit. 2,783,375, 2-26-57, Cl. 250-27.
- Miers, Archie M., and W. Van Der Sluys, to Pullman-Standard Car Mfg. Co. Hatch cover and lock. 2,816,683, 12-17-57, Cl. 220-57.
- Miescher, Karl: *See*—
Anner, Georg, and Miescher. 2,788,363.
- Miessen, Walter: *See*—
Walter, Willy, and Miessen. 2,801,102.
- Miessner, Benjamin F., to Miessner Inventions, Inc. Vibrator exciting action. 2,813,447, 11-19-57, Cl. 84-236.
- Miessner Inventions, Inc.: *See*—
Miessner, Benjamin F. 2,813,447.
- Mighton, Harold R., to E. I. du Pont de Nemours and Co. Process of preparing fibrous, non-woven, porous sheets. 2,802,767, 8-13-57, Cl. 154-124.
- Migliaccio, Etereo, to Bombirini, Parodi Delfino S. p. A. Projectile with extra-sensitive head. 2,780,995, 2-12-57, Cl. 102-66.
- Mihalakis, Agis I., to W. T. Snyder. Projection screens. 2,804,801, 9-3-57, Cl. 88-28.9.
- "Mijnssen & Co. N. V.": *See*—
Korthals Altes, Willem C. 2,796,573.
- Mike, John G. Ignition system for internal combustion engines. 2,781,412, 2-12-57, Cl. 123-148.
- Mikeska, Louis A.: *See*—
Bartlett, Jeffrey H., Morway, and Mikeska. 2,801,972.
Bartlett, Jeffrey H., Morway, Mikeska, and Gallo. 2,801,971.
Koencke, Donald F., and Mikeska. 2,806,877.
Matuszak, Alfred H., Mikeska, and Bartlett. 2,802,787.
Morway, Arnold J., Bartlett, and Mikeska. 2,801,973.

- Mikeska, Louis A., J. H. Bartlett, and A. J. Morway, to Esso Research and Engineering Co. Novel complex lubricating grease composition. 2,799,656, 7-16-57, Cl. 252—33.6.
- Mikeska, Louis A., and D. F. Koenecke, to Esso Research and Engineering Co. Durene dialdehyde and its preparation. 2,806,883, 9-17-57, Cl. 260—599.
- Miki, Takuichi: *See*—
- Abe, Yasuo, Harukawa, Ishikawa, Miki, Sumi, and Toga. 2,778,838.
- Mikiska, William F., to Minnesota Mining & Mfg. Co. Method of making polytetrafluoroethylene articles. 2,786,792, 3-26-57, Cl. 154—83.
- Mikkelsen, James N. Adjustable micrometer frame. 2,798,298, 7-9-57, Cl. 33—165.
- Miklas, Frank C., to General Electric Co. Control for electrically heated appliances. 2,802,921, 8-13-57, Cl. 200—138.
- Miklofsky, Haaren A., and H. S. Horiuchi, to the United States of America as represented by the Secretary of the Navy. Automatic dip soldering and dip tinning machine. 2,776,640, 1-8-57, Cl. 118—74.
- Miklosek, Martin, to Libbey-Owens-Ford Glass Co. Car coupling apparatus. 2,816,404, 12-17-57, Cl. 51—240.
- Mikol, Edward J. Computing gun sight. 2,782,988, 2-26-57, Cl. 235—61.5.
- Mikos, John J.: *See*—
- Baker, Charles H., and Mikos. 2,813,952.
- Mikos, John J., to S & C Electric Co. Contact construction. 2,793,267, 5-21-57, Cl. 200—115.5.
- Mikos, John J., to S & C Electric Co. Switch operating mechanism. 2,796,478, 6-18-57, Cl. 200—50.
- Mikos, John J., to S & C Electric Co. Circuit interrupter. 2,816,994, 12-17-57, Cl. 200—149.
- Mikotits, Amedea C. Insert for maternity garments. 2,787,792, 4-9-57, Cl. 2—221.
- Mikrovaerk A/S: *See*—
- Prasz, Oec F. 2,811,933.
- Mikulas, William, to Conmar Products Corp. Slide fasteners. 2,794,229, 6-4-57, Cl. 24—205.11.
- Mikulas, William, to American Motors Corp. Refrigerating apparatus. 2,801,146, 7-30-57, Cl. 312—301.
- Mikulas, William, to Conmar Products Corp. Slide fasteners. 2,810,174, 10-22-57, Cl. 24—205.15.
- Mikulski, Chester B. Culinary washing pad. 2,778,044, 1-22-57, Cl. 15—118.
- Milam, Bentley J.: *See*—
- Kagley, William H., and Milam. 2,813,561.
- Kagley, William H., and Milam. 2,816,587.
- Milam, Thomas B. Hydraulic lift. 2,781,866, 2-19-57, Cl. 187—17.
- Milana, Jerome L.: *See*—
- Pellerito, Philip A., and Milana. 2,794,989.
- Milani, Louis, Foods, Inc.: *See*—
- Hagerty, Elliot B. 2,803,548.
- Milbank, Harry C.: *See*—
- Iredell, Charles V., and Milbank. 2,798,808.
- Milbourne, Samuel C., to Bendix Aviation Corp. Constant output amplifier. 2,777,904, 1-15-57, Cl. 179—171.
- Miles, Charles C., to F. L. Jacobs Co. Window regulator. 2,806,690, 9-17-57, Cl. 268—124.
- Miles, Donald L., to American Chemical Paint Co. Method of treating phosphate coatings on metal surfaces. 2,813,815, 11-19-57, Cl. 148—615.
- Miles, Elbert S.: *See*—
- Hebard, Glen G., and Miles. 2,800,640.
- Miles, George N.: *See*—
- Coleman, Robert E., Jr., and Miles. 2,805,660.
- Miles, George S., to Bendix Aviation Corp. Altimeter. 2,797,388, 6-25-57, Cl. 324—33.
- Miles, Gordon W.: *See*—
- McMackin, Edward G., McMillan, Miles, and Mooz. 2,804,386.
- Miles, Joseph R. Scaffold erecting and dismantling apparatus. 2,794,558, 6-4-57, Cl. 214—1.
- Miles Laboratories, Inc.: *See*—
- Campbell, Kenneth N. 2,783,234.
- Croxall, Willard J., and Mirza. 2,799,692.
- Hartzgerink, Elmer E. 2,797,243.
- Kyrides, Lucas P. 2,792,398.
- Nicholls, Richard S., and Fonner. 2,799,660.
- Miles, Lawrence G. Siding construction. 2,796,637, 6-25-57, Cl. 20—5.
- Miles, Raymond C., to International Telephone and Telegraph Corp. Moving target indicator. 2,818,561, 12-31-57, Cl. 343—7.7.
- Miles, William H.: *See*—
- Stobb, Anton R., and Miles. 2,814,484.
- Miles, William S., to Johns-Manville Corp. Vapor barrier for hollow walls, and method of installing same. 2,788,552, 4-16-57, Cl. 20—101.
- Miles, William S., and R. L. Siering, to Johns-Manville Corp. Wall assembly. 2,796,158, 6-18-57, Cl. 189—34.
- Miley, George E. Magnetic level. 2,789,363, 4-23-57, Cl. 33—207.
- Miley, Walter M., to National Industrial Products Co. Process of methylating gluten. 2,801,235, 7-30-57, Cl. 260—112.
- Miley, Walter M., to National Industrial Products Co. Process of making gluten derivatives. 2,801,236, 7-30-57, Cl. 260—112.
- Miley, Walter M., L. M. Thomas, and G. M. Bierly, to The Keever Starch Co. Treatment of gluten. 2,797,212, 6-25-57, Cl. 260—112.
- Milford Products Corp.: *See*—
- Brett, William J. 2,784,413.
- Milford, Richard E., to General Electric Co. Automatic inspection gage. 2,803,755, 8-20-57, Cl. 250—230.
- Milhas, Fernand J., Jr. Toy fuel pump. 2,797,526, 7-2-57, Cl. 46—39.
- Milhizer, Edward W. Trailer coupling with universal joint. 2,779,607, 1-29-57, Cl. 280—510.
- Miliez, Janina. Container cap-seal and sealing apparatus. 2,778,179, 1-22-57, Cl. 53—291.
- Milik Conveyors Ltd.: *See*—
- Milik, Rudolf. 2,781,893.
- Milik, Rudolf, to Milik Conveyors Ltd. Troughing conveyor belt apparatus. 2,781,893, 2-19-57, Cl. 198—192.
- Milkas, Frank C., to General Electric Co. Adjustable thermostat for cooking appliance or the like. 2,806,107, 9-10-57, Cl. 200—138.
- Millar, David T. Sleeping chair-unit. 2,775,996, 1-1-57, Cl. 155—7.
- Millar, Norval P., to General Electric Co. Expanded scale voltmeter. 2,788,491, 4-9-57, Cl. 324—131.
- Millar, Samuel. Milking machines. 2,812,742, 11-12-57, Cl. 119—14.1.
- Millard, Ernest H., Jr., to Olin Mathieson Chemical Corp. Separation of acetylene from ethylene by hydrochlorination of the ethylene. 2,779,805, 1-29-57, Cl. 260—663.
- Millar's Machinery Co. Ltd.: *See*—
- Leech, Laurence A. 2,792,101.
- Millburn, George J.: *See*—
- Ise, John, Jr., and Millburn. 2,784,799.
- Millen, Edwin R., to Fisher Scientific Co. Constant sensitivity radiat energy measuring apparatus. 2,808,755, 10-8-57, Cl. 88—14.
- Millenar, Richard J., to Kartridg-Pak Machine Co. Sausage linking machine. 2,807,830, 10-1-57, Cl. 17—34.
- Miller, Abba. Antiskid device for vehicles. 2,800,201, 7-23-57, Cl. 188—5.
- Miller, Abe, to Miller Laundry Machinery Co. Extractor basket and cover therefor. 2,808,153, 10-1-57, Cl. 210—237.
- Miller, Al H. Bed traction device. 2,796,061, 6-18-57, Cl. 128—84.
- Miller, Albert D.: *See*—
- Durfee, Benjamin M., and Miller. 2,797,667.
- Miller, Albert R., 1/2 to F. G. Johnson. Dishwashing machine. 2,787,279, 4-2-57, Cl. 134—121.
- Miller, Alfred J., and S. H. Royer, to Union Carbide and Carbon Corp. Self-expanding wire reel. 2,797,880, 7-2-57, Cl. 242—110.
- Miller, Alfred L., to Celanese Corp. of America. Polymers of N-substituted unsaturated acid amides. 2,790,789, 4-30-57, Cl. 260—85.5.
- Miller, Alfred L., to Celanese Corp. of America. Production of copolymers of improved homogeneity. 2,798,868, 7-9-57, Cl. 260—85.5.
- Miller, Alfred L., to Celanese Corp. of America. Addition of acid to halt polyurethane producing reaction. 2,800,464, 7-23-57, Cl. 260—77.5.
- Miller, Andrew R., Jr. Weighing device for airplanes. 2,806,686, 9-17-57, Cl. 265—40.
- Miller, Ansel D.: *See*—
- Kuhagen, Fred W., and Miller. 2,798,696.
- Miller, Arthur A., to A. A. Miller and L. C. Casanov. Grinding wheels. 2,795,902, 6-18-57, Cl. 51—191.
- Miller, Arthur A., to L. C. Casanov and himself. Grinding wheels. 2,798,342, 7-9-57, Cl. 51—192.
- Miller, Arthur J., B. M. Pitt, and P. F. Grieger, to the United States of America as represented by the United States Atomic Energy Commission. Method for improved precipitation of uranium peroxide. 2,780,515, 2-5-57, Cl. 23—14.5.
- Miller, Avy L. Control system for gas-burning appliances. 2,807,420, 9-24-57, Cl. 236—9.
- Miller, Basil. Curb box charger. 2,817,795, 12-24-57, Cl. 317—159.
- Miller, Benjamin. Bags with detachable suspension and closure devices. 2,789,781, 4-23-57, Cl. 248—100.
- Miller, Benjamin. Bag holder. 2,815,186, 12-3-57, Cl. 248—99.
- Miller, Beulah F. Hair treatment cap. 2,781,764, 2-19-57, Cl. 132—9.
- Miller, Burton F., and R. A. Hartley, to Hughes Aircraft Co. Visual translator. 2,814,030, 11-19-57, Cl. 340—174.
- Miller, C. E.: *See*—
- Mueller, Herman H. 2,809,840.
- Mueller, Herman H. 2,809,841.
- Mueller, Herman H. 2,809,843.
- Miller, Carl J., to The Smead Mfg. Co. Ring binder. 2,809,852, 10-15-57, Cl. 281—21.
- Miller, Carroll D., and F. N. Becker, to The American Mono-Rail Co. Method of removing lint from textile machines. 2,798,825, 7-9-57, Cl. 134—37.
- Miller, Carroll D., and F. N. Becker, to The American Mono-Rail Co. Apparatus for automatically removing lint from a plurality of rows of textile looms. 2,812,251, 11-5-57, Cl. 15—312.
- Miller, Carroll E., to Cone Automatic Machine Co. Inc. Automatic lathe. 2,817,990, 12-31-57, Cl. 82—3.

- Miller, Catherine. Multi-purpose container. 2,786,474, 3-26-57, Cl. 131-238.
- Miller, Charles: *See*—
Boyko, John. 2,807,969.
- Miller, Charles A., to Parke, Davis & Co. Process for producing α -phenyl succinimides. 2,801,249, 7-30-57, Cl. 260-326.
- Miller, Charles A., to Parke, Davis & Co. Process for producing N-methyl- α -phenyl- α -methylsuccinimide. 2,806,037, 9-10-57, Cl. 260-326.5.
- Miller, Charles B.: *See*—
Gilbert, Everett E., and Miller. 2,793,964.
- Miller, Charles B., J. H. Pearson, and L. B. Smith, to Allied Chemical & Dye Corp. Hydrogenation of chlorotrifluoroethylene. 2,802,887, 8-13-57, Cl. 260-653.
- Miller, Charles B., and C. Woolf, to Allied Chemical & Dye Corp. Fluorine containing ethers and process for preparation thereof. 2,803,665, 8-20-57, Cl. 260-614.
- Miller, Charles B., and C. Woolf, to Allied Chemical & Dye Corp. Fluorine containing ethers and process for preparation thereof. 2,803,666, 8-20-57, Cl. 260-614.
- Miller, Charles B., and C. Woolf, to Allied Chemical & Dye Corp. Manufacture of chlorofluoroacetones. 2,807,646, 9-24-57, Cl. 260-593.
- Miller, Charles C.: *See*—
Rawlings, Frank N., Grantham, and Miller. 2,809,903.
- Miller, Charles S.: *See*—
Grodt, William F., and Miller. 2,794,663.
- Miller, Charles T., to Radio Corp. of America. Sorting apparatus. 2,788,124, 4-9-57, Cl. 209-114.
- Miller, Charles W.: *See*—
Falge, Robert N., and Miller. 2,806,180.
- Onksen, George W., and Miller. 2,808,539.
- Miller, Charles W., and M. C. Crowley-Milling, to Metropolitan-Vickers Electrical Co. Ltd. Linear accelerators for charged particles. 2,810,855, 10-22-57, Cl. 315-3.6.
- Miller, Claire K., and R. Sardeson, to Pako Corp. Method and apparatus for handling print strip. 2,779,408, 1-29-57, Cl. 164-17.
- Miller, Clare K.: *See*—
Sardeson, Robert, and Miller. 2,803,049.
- Miller, Clarence E.: *See*—
Saum, Arthur M., Miller, and McDonald. 2,805,765.
- Miller, Clarence W.: *See*—
Muller, George H., and Miller. 2,789,830.
- Miller, Clark O., and C. J. Dorer, Jr., to The Lubrizol Corp. Method for preparing organic phosphinodithioic compounds. 2,797,238, 6-25-57, Cl. 260-500.
- Miller, Clyde F.: *See*—
Edelman, Leonard B., and Miller. 2,814,179.
- Hirsch, Robert L., Miller, and Bellin. 2,780,996.
- Miller, Coleman J., to Westinghouse Electric Corp. High frequency amplifier. 2,781,421, 2-12-57, Cl. 179-171.
- Miller, Coleman J., to Westinghouse Electric Corp. Lightweight antennas. 2,814,038, 11-19-57, Cl. 343-757.
- Miller, Dale J. Valve. 2,776,106, 1-1-57, Cl. 251-275.
- Miller, Dale W., and V. Battenberg, to General Motors Corp. Propeller control. 2,798,563, 7-9-57, Cl. 170-160.21.
- Miller, Dave W. Tandem axle suspension and overload spring therefor. 2,811,213, 10-29-57, Cl. 180-22.
- Miller, Delmer E. and G. T. Rolling tamper. 2,796,712, 6-25-57, Cl. 55-77.
- Miller, Derek: *See*—
Cutts, Doris K., and Miller. 2,795,976.
- Miller, Donald L., to Bendix Aviation Corp. Engine starter gearing. 2,782,643, 2-26-57, Cl. 74-6.
- Miller, Donald S., to United States Steel Corp. Determining the permeability of magnetic material. 2,790,950, 4-30-57, Cl. 324-34.
- Miller, Earl H.: *See*—
Bagley, Paul C., McGivney, Bruhn, and Miller. 2,789,032.
- Miller, Earle C., to Riley Stoker Corp. Fuel feeder. 2,792,131, 5-14-57, Cl. 214-18.
- Miller, Earle C., to Riley Stoker Corp. Air heater. 2,817,498, 12-24-57, Cl. 257-224.
- Miller, Earle C., and O. Craig, to Riley Stoker Corp. Fuel burning apparatus. 2,800,888, 7-30-57, Cl. 122-479.
- Miller, Edward G., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Transistor oscillator. 2,797,328, 6-25-57, Cl. 250-36.
- Miller, Edward L. Work supporting attachment for shearing machines. 2,809,696, 10-15-57, Cl. 164-59.
- Miller, Edward M., to The C. L. Gougher Machine Co. Knob actuated combination lock. 2,789,425, 4-23-57, Cl. 70-149.
- Miller, Elias N. Capsule filler. 2,794,456, 6-4-57, Cl. 141-246.
- Miller, Elmer C., to Phillips Petroleum Co. Differential refractometer cell assembly. 2,810,315, 10-22-57, Cl. 83-14.
- Miller, Elmer C., to Phillips Petroleum Co. Composition analyzer utilizing radiation. 2,810,835, 10-22-57, Cl. 250-43.5.
- Miller, Emery P., to Ransburg Electro-Coating Corp. Method and apparatus for spray coating of articles. 2,777,784, 1-15-57, Cl. 117-93.
- Miller, Emery P., to Ransburg Electro-Coating Corp. Method and apparatus for spray coating of articles. 2,781,280, 2-12-57, Cl. 117-93.
- Miller, Emery P., to Ransburg Electro-Coating Corp. Spray coating apparatus and method. 2,784,114, 3-5-57, Cl. 117-93.
- Miller, Emery P., to Ransburg Electro-Coating Corp. Method and apparatus for electrostatic coating. 2,795,516, 6-11-57, Cl. 117-93.
- Miller, Emery P., to Ransburg Electro-Coating Corp. Electrostatic coating method. 2,798,008, 7-2-57, Cl. 117-93.
- Miller Engineering Corp.: *See*—
Hynson, Frederic R. 2,780,340.
- Miller, Frank H., Jr. 2,813,638.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Cyclic adsorption process for removing H₂S from natural gas. 2,784,804, 3-12-57, Cl. 183-114.2.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Method of making silica gel. 2,785,051, 3-12-57, Cl. 23-182.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Cyclic adsorption process for the recovery of ethane from a gaseous mixture consisting of methane and ethane. 2,799,360, 7-16-57, Cl. 183-114.2.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Cyclic adsorption process for removal and/or recovery of H₂S from natural gas. 2,799,361, 7-16-57, Cl. 183-114.2.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Cyclic adsorption process. 2,799,362, 7-16-57, Cl. 183-114.2.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Cyclic adsorption process. 2,799,363, 7-16-57, Cl. 183-114.2.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Cyclic adsorption process. 2,799,364, 7-16-57, Cl. 183-114.2.
- Miller, Ernest B., A. D. Sweet, and R. W. Prince, to Jefferson Lake Sulphur Co. Method of and apparatus for flash separating hydrocarbons. 2,784,798, 3-12-57, Cl. 183-4.3.
- Miller, Ernest P., Sr.: *See*—
Huge, Robert W. 2,801,833.
- Miller, Ervin R., to Chrysler Corp. Planetary transmission. 2,800,036, 7-23-57, Cl. 74-645.
- Miller, Ethel L. Cylinder and cylinder head connecting unit. 2,796,306, 6-18-57, Cl. 309-2.
- Miller, Eugene J. Non-ratchet emergency brake levers. 2,800,035, 7-23-57, Cl. 74-491.
- Miller, Everett E., to Zenith Processing Corp. Seed potato cutter. 2,801,661, 8-6-57, Cl. 146-78.
- Miller, Frank H., Jr., to Miller Engineering Corp. Palletizer. 2,813,638, 11-19-57, Cl. 214-6.
- Miller, Frank N. High speed light source. 2,793,323, 5-21-57, Cl. 315-168.
- Miller, Franklyn D.: *See*—
Hulse, Robert E., Atwood, Muller, and Miller. 2,801,211.
- Muller, Werner C., and Miller. 2,792,432.
- Muller, Werner C., Miller, and Hawkins. 2,801,210.
- Miller, Fred B., to Goodman Mfg. Co. Continuous miner of the rotating drum type. 2,808,253, 10-1-57, Cl. 262-9.
- Miller, Fred P., and S. Jaffe. Orthopedic brace joint. 2,812,760, 11-12-57, Cl. 128-80.
- Miller, George: *See*—
Renz, Emil K., and Miller. 2,783,808.
- Miller, George J., to The Walton Co. Tap extractor with slidably adjustable fingers. 2,782,667, 2-26-57, Cl. 81-90.
- Miller, George M. Permanent magnet for use with socket wrenches, conveyor belts, extension tubes, and the like. 2,806,396, 9-17-57, Cl. 81-125.
- Miller, George W.: *See*—
McCallum, Robert A., and Miller. 2,811,231.
- Miller, George W., to Goodman Mfg. Co. Drill securing and carrying arm. 2,808,232, 10-1-57, Cl. 255-51.
- Miller, Gilbert T.: *See*—
Miller, Delmer E. and G. T. 2,796,712.
- Miller, Gladys D.: *See*—
Harkenrider, Robert J. Re. 24,301.
- Miller, Glen W., P. A. Longwell, and B. H. Sage, to the United States of America as represented by the Secretary of the Navy. Deflagration inhibited powder grains and method of making same. 2,813,487, 11-19-57, Cl. 102-98.
- Miller, Gordon H.: *See*—
Oosterhout, Johan C. D., Meadows, Miller, and Barger. 2,797,384.
- Miller, Gray W., to Vickers Inc. Power transmission. 2,795,711, 6-11-57, Cl. 310-78.
- Miller, Gustave: *See*—
Arbetter, Abel A. 2,806,227.
- Bell, Keith L. 2,805,332.
- Coursey, Rudell. 2,792,225.
- Dickey, Sterling R. 2,777,380.
- Hunt, James A. 2,787,020.
- Moretti, Raymond, Sr. 2,794,083.
- Spencer, Everette J. 2,791,820.
- Wiebe, Arthur. 2,792,910.
- Miller, Harold: *See*—
Gallay, Wilfred, and Miller. 2,793,399.
- Miller, Harold A. Two cycle engine charge recirculator. 2,796,054, 6-18-57, Cl. 123-65.
- Miller, Harold L.: *See*—
Nutter, Hugh G., and Miller. 2,795,875.
- Miller, Harold N.: *See*—
Flan, Anthony, and Miller. 2,787,669.
- Miller, Harry A., Sr. Miniature switch. 2,814,698, 11-26-57, Cl. 200-159.
- Miller, Harry B., to Universal Winding Co. Shuttle. 2,785,702, 3-19-57, Cl. 139-196.
- Miller, Harry B., to M. L. Grant. Automatic starting mechanism for fare registering apparatus. 2,810,465, 10-22-57, Cl. 194-9.
- Miller, Harry B., to M. L. Grant. Coin flow channel construction. 2,816,639, 12-17-57, Cl. 194-1.

- Miller, Harry C. Combination resetting guard for combination padlocks. 2,780,087, 2-5-57, Cl. 70-51.
- Miller, Harry C. Combination lock. 2,807,954, 10-1-57, Cl. 70-333.
- Miller, Harry C., deceased, by L. D. Miller, executrix. Crab shedding float. 2,813,507, 11-19-57, Cl. 119-2.
- Miller, Harry C. Exposed shackle combination padlock. 2,814,940, 12-3-57, Cl. 70-25.
- Miller, Henry C., and J. C. Grigger, to Pennsalt Chemical Corp. Method of producing perchlorates. 2,813,825, 11-19-57, Cl. 204-82.
- Miller, Henry C. L., and R. H. Sides, to Miller Hoff, Inc. Method and means for making composition board. 2,783,784, 3-5-57, Cl. 141-1.
- Miller, Henry C. L., and H. A. Raddin, to Miller Hoff, Inc. Furnace for burning semi-liquid fuels. 2,808,011, 10-1-57, Cl. 110-7.
- Miller, Henry E., and V. L. Sheets, to Chicago Wheel & Mfg. Co. Mounted abrading wheels. 2,796,705, 6-25-57, Cl. 51-206.
- Miller, Herman, Furniture Co.: *See*—
Eames, Charles. 2,812,800.
- Miller, Hobart G., Jr.: *See*—
Eisner, Burton D., Miller, and Lehrer. 2,783,697.
- Miller, Hoff, Inc.: *See*—
Miller, Henry C. L., and Raddin. 2,808,011.
Miller, Henry C. L., and Sides. 2,783,784.
- Miller, Howard J. Ice fishing rod. 2,775,838, 1-1-57, Cl. 43-21.2.
- Miller, Howard R., to Union Carbide and Carbon Corp. Multiple arc timing system. 2,798,937, 7-9-57, Cl. 219-131.
- Miller, Hugh, to American Viscose Corp. Dual pump. 2,796,240, 6-18-57, Cl. 259-6.
- Miller, Hugh, to American Viscose Corp. Composite yarns and fabrics. 2,805,465, 9-10-57, Cl. 28-81.
- Miller, I., & Sons, Inc.: *See*—
Perugia, Andre. 2,795,866.
- Zuckerman, Merwin, and Longobardi. 2,795,867.
- Miller Industries, Inc.: *See*—
Miller, James T. 2,799,063.
- Miller, Jack W. Gauge for hanging window shades. 2,799,093, 7-16-57, Cl. 33-189.
- Miller, Jacob C., to Badger Meter Mfg. Co. Flexible angular shaft drive. 2,784,597, 3-12-57, Cl. 74-18.1.
- Miller, James A., to Clark Equipment Co. Multispeed transmission. 2,799,184, 7-16-57, Cl. 74-759.
- Miller, James A. Recording apparatus. 2,803,713, 8-20-57, Cl. 179-180.
- Miller, James E., to Bishop David Freeman Co. Valve construction. 2,799,101, 7-16-57, Cl. 38-77.
- Miller, James H., to Scaife Co. Valve. 2,789,575, 4-23-57, Cl. 137-112.
- Miller, James L. Butt-end roll rewinder. 2,794,606, 6-4-57, Cl. 242-58.
- Miller, James P.: *See*—
Rostonski, George B. 2,793,689.
- Miller, James R., to The B. F. Goodrich Co. Aqueous emulsion polymerization utilizing water-soluble salts of N-dodecyl-beta-alanine. 2,787,604, 4-2-57, Cl. 260-29.6.
- Miller, James R. Dual sound-control switch. 2,790,040, 4-23-57, Cl. 200-51.11.
- Miller, James T., to Miller Industries, Inc. Means for sealing openings. 2,799,063, 7-16-57, Cl. 20-69.
- Miller, Jess M. Magnifying mirror for medicine cabinet. 2,780,960, 2-12-57, Cl. 88-100.
- Miller, Joe. Detachable double sash safety lock. 2,815,238, 12-3-57, Cl. 292-258.
- Miller, John C. Traction device. 2,782,076, 2-19-57, Cl. 305-3.
- Miller, John G., to Porocel Corp. Preparation of ketols. 2,800,510, 7-23-57, Cl. 260-594.
- Miller, John H., to Weston Electrical Instrument Corp. Dynamometer instrument. 2,778,989, 1-22-57, Cl. 324-30.
- Miller, John K. Ventilating apparatus. 2,780,981, 2-12-57, Cl. 98-43.
- Miller, John M. Assembly for removing automotive axles and wheel assemblies. 2,797,004, 6-25-57, Cl. 214-331.
- Miller, John M. Gas operated rifle. 2,800,059, 7-23-57, Cl. 89-193.
- Miller, John M., W. M. Urquhart, and D. M. McLaren, to The Babcock & Wilcox Co. Method of and apparatus for burning fuel. 2,807,223, 9-24-57, Cl. 110-105.5.
- Miller, John W., to Motor Wheel Corp. Safety control for a gas fuel burner. 2,776,000, 1-1-57, Cl. 158-7.
- Miller, John W., and C. P. Sherman, to General Electric Co. Tube sealing and tip-off mechanism. 2,785,509, 3-19-57, Cl. 49-2.
- Miller, John W., and F. T. Stoney, to Motor Wheel Corp. Combustion apparatus. 2,798,541, 7-9-57, Cl. 158-91.
- Miller, Joseph C., to Coast Envelope Co. Clip. 2,777,179, 1-15-57, Cl. 24-66.
- Miller, Joseph E., to Press Seal Gasket Corp. Gasket and pipe end construction for bell and spigot pipe. 2,815,228, 12-3-57, Cl. 285-374.
- Miller, Joseph F., to Westinghouse Electric Corp. Welding gun. 2,806,125, 9-10-57, Cl. 219-130.
- Miller, Joseph N.: *See*—
Jackes, Stanley F., and Miller. 2,791,448.
- Miller, Karl. Knurling device. 2,796,779, 6-25-57, Cl. 80-5.1.
- Miller, Kay, to Kalamazoo Mfg. Co. Driving and braking mechanism for vehicle steerable wheel means. 2,779,425, 1-29-57, Cl. 180-26.
- Miller, Kenneth F.: *See*—
Uhlich, Morris B., and Miller. 2,798,592.
- Miller, Kenneth T. Cutting tool for coaxial cables. 2,778,255, 1-22-57, Cl. 81-9.5.
- Miller, Kenneth T. Apparatus for dressing the end of coaxial cable. 2,789,452, 4-23-57, Cl. 81-9.51.
- Miller, Kenneth T. Tool for slitting cable covering. 2,803,875, 8-27-57, Cl. 30-91.
- Miller, Kenneth T., Jr. Borescope. 2,778,242, 1-22-57, Cl. 74-502.
- Miller, Kenneth T., Jr. Borescope. 2,778,267, 1-22-57, Cl. 88-14.
- Miller, Labron W., and W. R. Stamler, to The W. R. Stamler Corp. Automatic loading station. 2,788,134, 4-9-57, Cl. 214-42.
- Miller, Lania D.: *See*—
Miller, Harry C. 2,813,507.
- Miller Laundry Machinery Co.: *See*—
Miller, Abe. 2,808,153.
- Miller, Lee. Electric operator for vertical жалюзи. 2,806,689, 9-17-57, Cl. 268-22.
- Miller, Leon F., to The Osborn Mfg. Co. Core blower, molding and draw machine. 2,783,509, 3-5-57, Cl. 22-21.
- Miller, Leon F., to The Osborn Mfg. Co. Core box top handling mechanism. 2,791,012, 5-7-57, Cl. 22-10.
- Miller, Leon L.: *See*—
Segal, Harry L., and Miller. 2,791,533.
Segal, Harry L., and Miller. 2,794,786.
- Miller, Leon R. Toilet seat lifter. 2,776,440, 1-8-57, Cl. 4-251.
- Miller, Leonidas C.: *See*—
Carnine, Arthur A., and Miller. 2,812,079.
- Miller, Leonidas C. Fluid pressure power-operated reciprocating saw. 2,808,083, 10-1-57, Cl. 143-68.
- Miller, Lester C., and J. M. Himes, to E. R. Wagner Mfg. Co. Easel hinge. 2,811,741, 11-5-57, Cl. 16-191.
- Miller, Loren W.: *See*—
Happe, Melvin J., and Miller. 2,786,319.
- Miller, Louis R., to Anderson Silver Plating Co. Valve for musical instruments. 2,798,401, 7-9-57, Cl. 84-392.
- Miller Lubricator Co.: *See*—
Harkenrider, Robert J. 2,798,776.
Harkenrider, Robert J. 2,801,138.
- Miller, Luther N. Longitudinally adjustable anchor for well servicing tools. 2,808,113, 10-1-57, Cl. 166-243.
- Miller, Manuel. Convertible blouse. 2,807,804, 10-1-57, Cl. 2-126.
- Miller Mfg. Corp.: *See*—
McKiff, Thomas J. 2,779,361.
- Miller, Merlin J. Magneto arrangement for internal combustion engine. 2,792,439, 5-14-57, Cl. 123-149.
- Miller, Meritt L., to General Electric Co. Device for testing wire insulation. 2,809,349, 10-8-57, Cl. 324-54.
- Miller, Merton R., to Ransburg Electro-Coating Corp. Method and apparatus for spray coating of articles. 2,781,279, 2-12-57, Cl. 117-93.
- Miller, Merton R., to Ransburg Electro-Coating Corp. Electrostatic method and apparatus for atomizing and for coating. 2,809,128, 10-8-57, Cl. 117-93.
- Miller Meter's, Inc.: *See*—
Sollenberger, Lester D. 2,815,166.
- Miller, Mike A., to Aluminum Co. of America. Fluxes for dip brazing aluminum. 2,789,074, 4-16-57, Cl. 148-26.
- Miller, Milan. Coat hanger. 2,814,426, 11-26-57, Cl. 223-94.
- Miller, Monroe E. Combustion products generators. 2,817,952, 12-31-57, Cl. 60-39.7.
- Miller, Nairn L., to North American Aviation, Inc. Wind tunnel force and moment measuring device. 2,785,569, 3-19-57, Cl. 73-147.
- Miller, Neil C., to Phillips Petroleum Co. Carbon black reactor. 2,781,250, 2-12-57, Cl. 23-259.5.
- Miller, Nicholas, to The Dole Valve Co. Thermostatic control device. 2,813,176, 11-12-57, Cl. 200-140.
- Miller, Norman R.: *See*—
Miller, Warren P. and N. R., and Williams. 2,816,538.
- Miller, Paul E. Wildfowl decoy mount. 2,787,074, 4-2-57, Cl. 43-3.
- Miller, Paul F., to The Aro Equipment Corp. Hose reel with traversing outlet. 2,787,500, 4-2-57, Cl. 299-78.
- Miller, Paula A., to The Preferred Engineering and Research Corp. Support clip for a pipe. 2,790,614, 4-30-57, Cl. 248-74.
- Miller, Philip, to Mohasco Industries, Inc. Method of making non-woven pile fabric. 2,787,571, 4-2-57, Cl. 154-76.
- Miller, Philip, and R. F. Bardsley, to Alexander Smith, Inc. Pile fabric. 2,780,245, 2-5-57, Cl. 139-403.
- Miller, Philip L., Sr. Fishing device. 2,799,110, 7-16-57, Cl. 43-15.
- Miller, Ralph. Method and apparatus for varying the final compression temperature in a four cycle internal combustion engine. 2,780,912, 2-12-57, Cl. 60-13.
- Miller, Ralph, to Nordberg Mfg. Co. Dual fuel variable speed engine control. 2,781,030, 2-12-57, Cl. 123-27.
- Miller, Ralph, to American Development Corp. Removal of acidic sulfur compounds with caustic-zinc solutions. 2,783,184, 2-26-57, Cl. 196-32.

- Miller, Ralph, to Nordberg Mfg. Co. Hydraulic mechanism for actuating an engine valve with variable timing. 2,785,667, 3-19-57, Cl. 123-90.
- Miller, Ralph, to American Development Corp. Removal of sulfur compounds from fluids. 2,809,930, 10-15-57, Cl. 204-136.
- Miller, Ralph. Direct reversing engine, and method of operating it. 2,815,010, 12-3-57, Cl. 123-41.
- Miller, Ralph. Supercharged engine. 2,817,322, 12-24-57, Cl. 123-75.
- Miller, Ralph S., and G. G. Hatch, to Quebec Iron and Titanium Corp. Method of smelting ilmenite. 2,808,324, 10-1-57, Cl. 75-10.
- Miller, Raymond H., to Federal Products Corp. Dial gauges. 2,813,420, 11-19-57, Cl. 73-83.
- Miller, Raymond J., and C. B. Richey, to Ford Motor Co. Control device for material distributing hopper. 2,777,733, 1-15-57, Cl. 298-20.
- Miller, Raymond V. Skin tensioning mechanism for shaving devices. 2,814,104, 11-26-57, Cl. 30-34.
- Miller, Richard: *See*—
- Hirschmann, Ralph F., Wendler, and Miller. 2,781,363.
- Miller, Richard A. Duplicating machine feed tray. 2,797,638, 7-2-57, Cl. 101-132.
- Miller, Richard A. Apparatus for mixing gypsum and the like. 2,805,051, 9-3-57, Cl. 259-154.
- Miller, Robert A.: *See*—
- Olson, Henry L., and Miller. 2,800,070.
- Miller, Robert C.: *See*—
- Mead, Howard C., and Miller. 2,809,399.
- Miller, Robert E., to Monsanto Chemical Co. Aryl (arylcyclohexyl) cyclohexanol compounds and a method of preparing said compounds. 2,809,998, 10-15-57, Cl. 260-618.
- Miller, Robert E., and R. Rosenthal, to Allied Chemical & Dye Corp. Production of dialkyl esters of isophthalic and terephthalic acids from nitriles. 2,809,208, 10-8-57, Cl. 260-475.
- Miller, Robert G., to Salem-Brosius, Inc. Trailer steering mechanism. 2,816,773, 12-17-57, Cl. 280-103.
- Miller, Robert G., to Salem-Brosius, Inc. Trailer steering mechanism. 2,816,774, 12-17-57, Cl. 280-103.
- Miller, Robert H., to International Harvester Co. Tractor propelled implement. 2,795,177, 6-11-57, Cl. 97-47.24.
- Miller, Robert H., to Mead, Johnson & Co. Apparatus for use in bulk preparation of infants' formulas. 2,805,501, 9-10-57, Cl. 40-64.
- Miller, Robert L.: *See*—
- Phillips, Leonard R., Miller, Godes, and Kurth. 2,800,018.
- Miller, Robert L., to Geo. D. Roper Corp. Pump or motor with pressure loading. 2,796,031, 6-18-57, Cl. 103-126.
- Miller, Robert P., F. Mathewson, and G. H. Meinzer, deceased (N. W. Meinzer, administratrix). 40% to The Farmers and Merchants National Bank of Los Angeles, executor of the estate of P. W. Prutzman, deceased. Screening mechanism. 2,777,578, 1-15-57, Cl. 209-243.
- Miller, Robert W. Building structure. 2,803,127, 8-20-57, Cl. 72-1.
- Miller, Roland E.: *See*—
- Rudnik, Raymond G., Miller, and Borgardt. 2,781,272.
- Miller, Ronald S.: *See*—
- Terry, Victor J., Kelly, Miller, and Kelly. 2,785,371.
- Miller, Ross J., to E. I. du Pont de Nemours and Co. Noiseless explosive rivet. 2,807,184, 9-24-57, Cl. 85-40.
- Miller, Rudi. Building construction. 2,797,446, 7-2-57, Cl. 20-2.
- Miller, Rudolph W. Boat propulsion mechanism with propellers in compartments. 2,777,414, 1-15-57, Cl. 115-52.
- Miller, Russell J.: *See*—
- Wilson, Russell W., Miller, and Long. 2,789,726.
- Miller, Samuel B., and M. S. Millhouse, to General Motors Corp. Power unit for freezing device. 2,776,545, 1-8-57, Cl. 62-108.5.
- Miller, Samuel W., Jr., and R. W. Greene, to John J. Nesbitt, Inc. Vertical louver wall box. 2,808,900, 10-8-57, Cl. 183-111.
- Miller, Sidney E., to American Bosch Arma Corp. Ignition generator. 2,815,394, 12-3-57, Cl. 123-149.
- Miller, Stuart C.: *See*—
- Stockard, John M., and Miller. 2,781,724.
- Miller, Theodore: *See*—
- Fromm, Kenneth N., and Miller. 2,795,730.
- Miller, Theodore, to Westinghouse Electric Corp. Controlling the luminosity of a phosphor screen. 2,780,731, 2-5-57, Cl. 250-71.
- Miller, Theodore A. Mold-supporting spider for casting machine. 2,784,454, 3-12-57, Cl. 18-34.
- Miller, Theodore A. Valved flexible hollow article. 2,808,967, 10-8-57, Cl. 222-215.
- Miller, Theodore A. and T. A., Jr. Vacuum extractor apparatus for removing hollow flexible molded articles from re-entrant mold cavities. 2,804,643, 9-3-57, Cl. 18-2.
- Miller, Theodore A., and T. A., Jr. Mold for making a sound producing article. 2,817,116, 12-24-57, Cl. 18-39.
- Miller, Theodore A., Jr.: *See*—
- Miller, Theodore A., and T. A., Jr. 2,804,643.
- Miller, Theodore A., and T. A., Jr. 2,817,116.
- Miller, Theodore H. System of building construction. 2,795,825, 6-18-57, Cl. 20-4.
- Miller, Theodore H. Rail fence. 2,796,236, 6-18-57, Cl. 256-59.
- Miller, Wallace W., and W. D. York. Litter bag holder with combined bag cover and tray for motor vehicles. 2,816,809, 12-17-57, Cl. 312-270.
- Miller, Walter F., to Bell Telephone Laboratories, Inc. Frequency supply circuits for carrier systems. 2,782,314, 2-19-57, Cl. 250-36.
- Miller, Walter F. Rear view mirror. 2,805,600, 9-10-57, Cl. 88-98.
- Miller, Walter W., and W. E. Berk, Jr., to United Specialties Co. Vehicle theft-preventing means. 2,795,659, 6-11-57, Cl. 200-6.
- Miller, Warren P. and N. R., and R. E. Williams, to American Playground Device Co. Picnic grill. 2,816,538, 12-17-57, Cl. 126-25.
- Miller, Warren S., to Olin Mathieson Chemical Corp. Production of fused salts from aqueous solutions thereof. 2,800,177, 7-23-57, Cl. 159-49.
- Miller, Wellington E., to Kay-Brunner Steel Products, Inc. Coupling and retractable trailer support and actuating means therefor. 2,809,054, 10-8-57, Cl. 280-429.
- Miller, Wendell E., and L. H. Reimer, to The Cessna Aircraft Co. Rotary pump or motor. 2,809,592, 10-15-57, Cl. 103-126.
- Miller, Wilbur A.: *See*—
- Glenger, Edwin B., Jr., and Miller. 2,801,445.
- Miller, William A. Ratchet-type floor laying tool. 2,798,691, 7-9-57, Cl. 254-14.
- Miller, William B., and D. A. Blankenship to Celanese Corp. of America. Lubrication of textile apparatus. 2,789,316, 4-23-57, Cl. 18-8.
- Miller, William E., and F. G. Hallden, to The Western Union Telegraph Co. Multiple stylus. 2,789,027, 4-16-57, Cl. 346-74.
- Miller, William G., $\frac{1}{4}$ to F. P. Keiper. Cartons. 2,794,546, 6-4-57, Cl. 206-52.
- Miller, William H. Bomb shelter. 2,792,794, 5-21-57, Cl. 109-1.
- Miller, William J., and H. W. Reno, to Admiral Corp. Adjustable oven rack. 2,804,068, 8-27-57, Cl. 126-337.
- Miller, William M., to Lawn Barber Corp. Lawn edger. 2,795,915, 6-18-57, Cl. 56-25.4.
- Miller, William M., to Lawn Barber Corp. Lawn edger with adjustable length cutting blade. 2,795,916, 6-18-57, Cl. 56-25.4.
- Miller, William N. Jr. Outdoor sign construction. 2,775,834, 1-1-57, Cl. 40-125.
- Miller, William R., to E. I. du Pont de Nemours and Co. Synthesis of iminodiacetonitrile. 2,794,044, 5-28-57, Cl. 260-465.5.
- Miller, William R., to E. I. du Pont de Nemours and Co. Synthesis of piperazine and substituted piperazines. 2,809,195, 10-8-57, Cl. 260-268.
- Miller, William R., to E. I. du Pont de Nemours and Co. Synthesis of piperazine. 2,809,196, 10-8-57, Cl. 260-268.
- Miller, William T. Polytetrafluoroethylene plastic. 2,792,377, 5-14-57, Cl. 260-33.8.
- Miller, William I. Gage and scriber. 2,776,491, 1-8-57, Cl. 33-42.
- Millers Falls Co.: *See*—
- Burkhardt, Harold H. 2,817,827.
- Hollien, Richard R., and Staiger. 2,808,085.
- Huxtable, Robert W. 2,794,468.
- Moore, Fred W. 2,796,704.
- Moretti, Whitfield, and Pratt. 2,808,082.
- Shortell, William H. 2,794,469.
- Millership, Ronald. Storage systems for electronic digital computing apparatus. 2,790,160, 4-23-57, Cl. 340-174.
- Millerrise, Carl H., to Detroit Controls Corp. Float arm locking means. 2,790,457, 4-30-57, Cl. 137-316.
- Millerrise, Carl H., to Detroit Controls Corp. Thermostat. 2,810,045, 10-15-57, Cl. 200-138.
- Millett, Henry, to Atlas Tack Corp. Carton. 2,804,251, 8-27-57, Cl. 229-2.5.
- Millett, Walter E., to the United States of America as represented by the Secretary of War. Wave guide structure. 2,790,957, 4-30-57, Cl. 333-31.
- Millheiser, Melvin: *See*—
- Wurzel, Hugo, and Millheiser. 2,787,926.
- Millhouse, Murray S.: *See*—
- Miller, Samuel B., and Millhouse. 2,776,545.
- Millhuff, Theresa M. Clothes hangers. 2,797,030, 6-25-57, Cl. 223-85.
- Millidge, Alfred F.: *See*—
- Graham, Archibald R., and Millidge. 2,811,557.
- Millidge, Alfred F., I. K. M. Robson, and A. Elce, to The Distillers Co. Ltd. Production of aliphatic acids. 2,800,506, 7-23-57, Cl. 260-533.
- Milligan, Charles H.: *See*—
- Sullivan, Thomas J., Milligan, and Gross. 2,799,556.
- Sullivan, Thomas J., Milligan, and Gross. 2,799,559.
- Milligan, Emory O.: *See*—
- Lofquist, Ralph J., and Milligan. 2,810,481.
- Milligan, James A., to J. I. Case Co. Air cooled engine. 2,811,957, 11-5-57, Cl. 123-41.65.
- Milligan, Robert R. D. Powdered soap dispenser. 2,786,610, 3-26-57, Cl. 222-230.
- Milligan, Robert T.: *See*—
- West, Frank B., and Milligan. 2,791,550.
- Milligan, Wilbur E. Conveyor apparatus. 2,778,475, 1-22-57, Cl. 198-33.
- Milligan, Wilbur E., to Walworth Co. Apparatus for assembling shell molds. 2,787,814, 4-9-57, Cl. 22-31.

- Milligan, Winfred O.: *See*—
Bown, Delos E., and Milligan. 2,801,272.
- Milliger, Max L., and J. W. La Orange; said La Orange assor. to said Milliger. Journal assembly for railway trucks. 2,811,396, 10-29-57, Cl. 308-180.
- Milliken, Thomas H., Jr.: *See*—
Cornelius, Edward B., Milliken, and Mills. 2,809,170.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Preparation and regeneration of supported noble metal catalysts. 2,785,138, 3-12-57, Cl. 252-415.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Treatment of platinum-containing catalyst. 2,806,004, 9-10-57, Cl. 252-466.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Recovery of metallic aluminum from aluminous ores. 2,813,786, 11-19-57, Cl. 75-68.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Purification of alumina and phosphates. 2,817,578, 12-24-57, Cl. 23-109.
- Millipore Filter Corp.: *See*—
Lovell, Stanley P., and Bush. 2,783,894.
- Millis, Walter T., to General Electric Co. Electron discharge device base structures. 2,788,503, 4-9-57, Cl. 339-94.
- Millman, Sidney: *See*—
Fletcher, Robert C., and Millman. 2,797,362.
- Millner, Tivadar, and J. Neugebauer, to Egyesült Izzólámpa és Villamossági Részvénytársaság. Manufacture of tungsten metal powder and articles made therefrom. 2,806,774, 9-17-57, Cl. 75-0.5.
- Mills, Patricia R. D.: *See*—
Phillips, Clive S., and Mills. 2,781,522.
- Mills, Clarence A., to Reflectotherm, Inc. Radiant cooling tunnels. 2,783,618, 3-5-57, Cl. 62-99.
- Mills Co., The: *See*—
Hult, Gustav W. 2,776,029.
- Mills, Donald C., to The Aetna-Standard Engineering Co. Roll adjusting mechanism. 2,796,781, 6-25-57, Cl. 80-43.
- Mills, Donald R., to International Business Machines Corp. Shaft position indicator. 2,814,443, 11-26-57, Cl. 235-92.
- Mills, Edward J., Jr., and D. G. Leis, to Union Carbide and Carbon Corp. Ethylene glycol purification. 2,788,373, 4-9-57, Cl. 260-637.
- Mills, Edward J., Jr., and W. J. Tapp, to Union Carbide Corp. Process for stabilizing polyglycol compounds. 2,812,360, 11-5-57, Cl. 260-616.
- Mills, Edward K., Jr. Bottom opening garbage can. 2,817,476, 12-24-57, Cl. 232-43.1.
- Mills, Eugene V., to Handcraft Co., Inc. Yarn feeding means for circular knitting. 2,789,422, 4-23-57, Cl. 66-136.
- Mills, George A.: *See*—
Cornelius, Edward B., Milliken, and Mills. 2,809,170.
- Heinefmann, Heinz, and Mills. 2,793,105.
- Mills, George L., to Bates Mfg. Co. Method and apparatus for weaving marseilles type fabric. 2,799,296, 7-16-57, Cl. 139-55.
- Mills, George S., to United States Rubber Co. Vulcanization of butyl rubber with dimethylol phenol product and triphenyl stibine. 2,803,620, 8-20-57, Cl. 260-43.
- Mills, Gordon S., and H. W. H. Robinson, to Monsanto Chemicals Ltd. Combination of 2,4,6-trialkylphenols and monoethers of dihydric phenols as rubber antioxidants. 2,789,108, 4-16-57, Cl. 260-45.95.
- Mills, Hiram L. Storage file for photographic slides. 2,781,125, 2-12-57, Cl. 206-73.
- Mills Industries, Inc.: *See*—
Steiner, Louis. 2,777,554.
- Mills, Ivor W., to Sun Oil Co. Refining mineral oil with molten caustic and adsorbent. 2,789,081, 4-16-57, Cl. 196-36.
- Mills, Ivor W., to Sun Oil Co. Apparatus for elevating granular solids. 2,805,102, 9-3-57, Cl. 302-53.
- Mills, Ivor W., to Sun Oil Co. Treatment of naphthenic acids. 2,806,058, 9-10-57, Cl. 260-514.
- Mills, Ivor W., and W. A. Gallup, to Sun Oil Co. Naphthenic acid treatment. 2,812,290, 11-5-57, Cl. 202-57.
- Mills, Jack, to Eli Lilly and Co. 2-chlorophenyl-3-methyl-2,3-butanediols. 2,812,363, 11-5-57, Cl. 260-618.
- Mills, Jack, to Eli Lilly and Co. N[β -(α -chlorophenyl)- β -(hydroxy)-ethyl] isopropyl amine, salts thereof, and compositions containing same. 2,816,059, 12-10-57, Cl. 167-65.
- Mills, John G. Attaching device for cords and the like. 2,817,133, 12-24-57, Cl. 24-126.
- Mills, John K., to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,798,167, 7-2-57, Cl. 307-81.
- Mills, John P., to British Timken Ltd. Electro-optical measuring, testing or grading apparatus. 2,818,172, 12-31-57, Cl. 209-88.
- Mills, John R., to Whirlpool-Seeger Corp. Conductive hinge for refrigerator door. 2,778,000, 1-15-57, Cl. 339-4.
- Mills, John W. Guide means for masons. 2,788,579, 4-16-57, Cl. 33-85.
- Mills, Lindley E. Dispensing package and method. 2,815,152, 12-3-57, Cl. 222-386.5.
- Mills, Orrie J. Paper manufacture. 2,810,940, 10-29-57, Cl. 19-155.
- Mills, Richard D.: *See*—
Abbondi, Frank B., and Mills. 2,784,145.
- Mills, Walter F. Sr. Installation gauge for a power take-off. 2,780,872, 2-12-57, Cl. 33-181.
- Mills, William A., to The Buckeye Steel Castings Co. Jig for finishing railway journal box surfaces. 2,801,506, 8-5-57, Cl. 51-241.
- Millsap, Robert E. Bearing puller. 2,789,343, 4-23-57, Cl. 29-259.
- Millsapugh, Frederick W., to Radio Corp. of America. Dichroic reflector optical system. 2,797,256, 6-25-57, Cl. 178-5.4.
- Milne, David T., to American Viscose Corp. Method and apparatus for the continuous expansion of tubular objects. 2,804,642, 9-3-57, Cl. 18-1.
- Milne, John R. Method of molding articles having spaced discontinuities therein. 2,781,549, 2-19-57, Cl. 18-47.5.
- Milner, David W., and E. C. Holdsworth, to The Vulcan Chemical Co. Ltd. Sulphonation of benzene. 2,807,641, 9-24-57, Cl. 260-505.
- Milnot Co.: *See*—
Niemann, Lawrence A. 2,818,341.
- Milone, Samuel. Inflatable hat. 2,803,015, 8-20-57, Cl. 2-177.
- Milprint, Inc.: *See*—
Billeb, Clyde K. 2,785,609.
- Hultkrans, Paul B. 2,790,284.
- Hultkrans, Paul B., and Smith. 2,790,594.
- Mathews, Katherine. 2,800,268.
- Rosen, Shy. 2,790,591.
- Rusch, Kenneth A. 2,800,163.
- Rusch, Kenneth A., and Hillman. 2,780,275.
- Schoen, Walter A. 2,781,701.
- Smith, Donald P. 2,800,269.
- Milrod, Murray, and R. W. C. Ellis. Block construction. 2,794,293, 6-4-57, Cl. 46-26.
- Milscro Mfg. Co.: *See*—
Swenson, Carl T. 2,798,535.
- Miltner, Bernard F. Automobile door handle. 2,783,074, 2-26-57, Cl. 292-336.3.
- Milton, Clare L., Jr., and C. A. Nielson, to the United States of America as represented by the Secretary of the Army. Process for producing seamless cosmetic gloves. 2,810,161, 10-22-57, Cl. 18-47.5.
- Milton, James. Torch tip. 2,784,778, 3-12-57, Cl. 158-116.
- Milton Mfg. Co., Inc.: *See*—
Price, Milton. 2,804,344.
- Milton, Robert M.: *See*—
Jones, Robert A., and Milton. 2,810,454.
- Milwaukee Electric Tool Corp.: *See*—
Schnettler, Jerome L. 2,800,636.
- Milwaukee Gas Specialty Co.: *See*—
Dietz, Gerald E., and Hilgert. 2,787,739.
- Fredrick, Russell E., Fritts, and Huck. 2,811,569.
- Fritts, Robert W., and Karrer. 2,790,021.
- Holmes, Gifford I., and Matthews. 2,785,873.
- Kile, Stephen L. 2,783,290.
- Matthews, Russell B. 2,788,942.
- Matthews, Russell B. 2,789,184.
- Matthews, Russell B. 2,791,394.
- Milwaukee Stamping Co.: *See*—
Dobrogowski, Daniel T., Roen, and Jones. 2,803,465.
- Milyard, Emmert. Combination metal working machine. 2,780,125, 2-5-57, Cl. 82-21.
- Mimitch, Robert H., to International Business Machines Corp. Mechanism for actuating a type bar drive. 2,807,345, 9-24-57, Cl. 197-17.
- Mims, Bruce L., to The Barden Corp. Rolling quality tester for rolling bearings. 2,785,566, 3-19-57, Cl. 73-9.
- Mims, Bruce L., to The Barden Corp. Bearing smoothness selector. 2,793,525, 5-28-57, Cl. 73-67.
- Mims, George I.: *See*—
Walker, William S., and Mims. 2,812,103.
- Minarczyk, Frank P., Jr., to The Cyril Bath Co. Apparatus for wipe forming metal. 2,806,505, 9-17-57, Cl. 153-40.
- Minati, Carlo. Adjustable chuck bearing device. 2,815,958, 12-10-57, Cl. 279-1.
- Minchenko, George, and W. Chepulis, to Western Electric Co., Inc. Apparatus for dielectric testing. 2,789,196, 4-16-57, Cl. 219-19.
- Minder, Peter M.: *See*—
Schultz, Blaine H., and Minder. 2,799,807.
- Minder, Peter M., to McGraw-Edison Co. Arrangement for switching capacitors. 2,802,171, 8-6-57, Cl. 323-128.
- Minder, Peter M., to McGraw-Edison Co. Protection of wye-connected capacitors in a delta system. 2,810,865, 10-22-57, Cl. 317-12.
- Minder, Peter M., and B. H. Schutz, to McGraw-Edison Co. Neutral grounding device. 2,794,154, 5-28-57, Cl. 317-12.
- Mindheim, Daniel: *See*—
Lindemann, Howard C., and Mindheim. 2,798,912.
- Lindemann, Howard C., and Mindheim. 2,803,106.
- Minduri, Molly H.: *See*—
Manning, Harold E. 2,787,845.
- Mine Safety Appliances Co.: *See*—
Bailey, Preston F., Schneider, and Richard. 2,798,221.
- Becker, Earl M. 2,796,953.
- Becker, Earl M., and Brochetti. 2,792,199.
- Brown, Harry S. 2,805,356.
- Bub, Robert A. 2,800,195.
- Bub, Robert A., and Silverman. 2,784,802.
- Busch, Clarence T. 2,801,000.
- Evans, Robert B., Byrnes, and Schubert. 2,798,222.
- Fisher, Joseph R. 2,777,128.
- Fisher, Joseph R. 2,781,517.

- Mine Safety Appliances Co.: *See*—Continued
 Fisher, Joseph R., and West. 2,796,609.
 Green, Daniel A. 2,784,713.
 Jacobson, Moses G., De Luca, and McInnes. 2,795,756.
 King, Earle C., and Heckel. 2,799,522.
 Mangold, Francis L., and Tidball. 2,811,221.
 Strange, John P. 2,805,134.
 Werner, Robert C. 2,787,219.
- Minematsu, Kenzo. Expandable band for watches having edges designed for decreasing cuff wear. 2,790,302, 4-30-57, Cl. 59-79.
- Miner, Charles H., to Miner Pulley & Transmission Co. Automatic variable pitch pulley. Re. 24,347, 8-20-57, Cl. 74-230.17.
- Miner, John D., Jr., to Westinghouse Electric Corp. Electrical brush and dynamoelectric apparatus embodying the same. 2,777,081, 1-8-57, Cl. 310-228.
- Miner Pulley & Transmission Co.: *See*—
 Miner, Charles H. Re. 24,347.
- Miner, Richard Y., and Q. J. Evans, to American Bosch Arma Corp. Range computing apparatus. 2,785,857, 3-19-57, Cl. 235-61.5.
- Miner, Robert G., to The Trane Co. Refrigeration apparatus with load limit control. 2,817,213, 12-24-57, Cl. 62-3.
- Miner Rubber Co. Ltd., The: *See*—
 Austin, Noel A. 2,787,063.
- Miner, Samuel S., to United States Rubber Co. Automatic blank cutter. 2,795,275, 6-11-57, Cl. 164-21.
- Miner, W. H., Inc.: *See*—
 Danielson, Vernon S. 2,808,945.
 Forssell, Eric G. 2,777,400.
 Forssell, Eric G. 2,779,480.
 Forssell, Eric G. 2,787,384.
 Forssell, Eric G. 2,795,339.
 Forssell, Eric G. 2,809,757.
 Gadbois, Lewis F. 2,812,073.
 Mulchahy, Harry W. 2,793,765.
 Pawlak, Anthony E. 2,788,067.
- Minera, Salvador A. Size grader for generally spherical, ovoidal and ellipsoidal objects and means for moving such objects along a path of travel. 2,792,113, 5-14-57, Cl. 209-107.
- Minerals Refining Co.: *See*—
 Cardon, Paul B. 2,776,877.
 Duke, James B. 2,788,257.
- Minerley, Frederick K., to Air-Way Industries, Inc. Spray device. 2,783,090, 2-26-57, Cl. 299-86.
- Mingasson, Georges R. H.: *See*—
 Sureau, Robert F. M., and Mingasson. 2,787,515.
- Miniature Switch Corp.: *See*—
 Zanichkowsky, Martin, and Sciarinno. 2,808,482.
- Minier, Eudoxie G. Electric heaters. 2,792,487, 5-14-57, Cl. 219-40.
- Mininberg, Harvey B. Combined speedometer signalling device. 2,785,393, 3-12-57, Cl. 340-266.
- Mining Engineering Co. Ltd., The: *See*—
 Duncan, Angus W. 2,790,539.
- Mining Process and Patent Co.: *See*—
 Daman, Arthur C. 2,814,129.
 Myers, John F. 2,792,939.
- Minisini, Albert. Arrow head. 2,806,317, 9-17-57, Cl. 43-6.
- Minister of National Defence of Her Majesty's Canadian Government, The: *See*—
 King, Robert O. 2,786,877.
- Minister of National Defense, His Majesty The King in the right of Canada, as represented by the: *See*—
 Serson, Paul H., and Mack. 2,809,528.
- Minister of Supply, Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland as represented by the: *See*—
 Martin, Peter. 2,807,933.
- Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The: *See*—
 Anthony, Alastair. 2,787,218.
 Culshaw, William. 2,814,724.
 Kretschmer, Willi. 2,785,532.
 Kretschmer, Willi. 2,808,700.
 Shepherd, James V. 2,807,114.
- Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See*—
 Dippy, Robert J. 2,800,652.
 Dippy, Robert J. 2,800,653.
- Minitec: *See*—
 King, Gilbert, Roberts, and Weil. 2,777,034.
- Mink, Anna M.: *See*—
 Schmitz, Harry. 2,783,554.
- Minneapolis Brewing Co.: *See*—
 Laskow, Luke L., and Klewel. 2,791,852.
- Minneapolis-Honeywell Regulator Co.: *See*—
 Adkisson, William M. 2,811,325.
 Alcott, Rollin A. 2,812,404.
 Alderson, Ross C. Re. 24,273.
 Alderson, Ross C., and Schuck. 2,798,682.
 Anderson, John W. 2,816,722.
 Armstrong, Robert W. 2,790,052.
 Avery, Harold T. 2,784,792.
 Bald, Edward A. 2,814,704.
 Bancroft, John W. 2,793,529.
 Barnes, Bryce E. 2,784,337.
 Beard, Richard B. 2,787,903.
- Minneapolis-Honeywell Regulator Co.: *See*—Continued
 Beard, Richard B. 2,787,904.
 Beard, Richard B. 2,811,037.
 Beard, Richard B. 2,817,229.
 Beck, Roland D. 2,817,696.
 Belcher, Wallace E., Jr. 2,793,813.
 Bishofberger, Carl J. 2,801,825.
 Bonnell, Charles R. 2,811,043.
 Booth, John G. 2,784,601.
 Booth, John G., Du Bois, and West. 2,808,725.
 Booth, John G., Newbold, and Whitehead. 2,814,312.
 Booth, Russell N. 2,790,044.
 Burggren, Robert C. 2,787,678.
 Chudyk, Alex B. 2,776,536.
 Clay, Homer B. 2,813,235.
 Cole, George H. 2,797,372.
 Cryslar, John B., Gaddis, and Hallanger. 2,788,941.
 Cunnien, James M. 2,786,632.
 Dalton, Robert L. 2,812,909.
 Dehmloew, Louis L. 2,804,522.
 Du Bois, Robert C. 2,802,485.
 Eckman, Donald P., and Horn. 2,795,239.
 Ehret, Robert J. 2,787,511.
 Ehret, Robert J., and Moore. 2,778,942.
 Ellenberger, Stanley D. 2,789,486.
 Embree, John M. 2,779,197.
 Flagg, Raymond P., Nickells, and Osen. 2,795,637.
 Gaddis, Gene R. 2,778,571.
 Gille, Willis H. 2,784,924.
 Gille, Willis H., and Mitchell. 2,776,396.
 Glickman, Richard B. 2,817,973.
 Goldberg, Ernest W. 2,806,309.
 Goldberg, Ernest W. 2,815,813.
 Goss, Jack K. 2,814,951.
 Gruber, Warren M. 2,798,157.
 Harrison, Thomas R. 2,811,856.
 Harrison, Thomas R. 2,813,419.
 Harrison, Thomas R., and Wannamaker. 2,785,860.
 Hersey, Millar P., Jr. 2,779,931.
 Hudson, Kenneth C. 2,776,565.
 Jamieson, John R. 2,788,190.
 Jensen, James L. 2,776,382.
 Johnson, William N. 2,814,743.
 Jordan, Arthur H. 2,788,013.
 Jordan, Arthur H. 2,791,481.
 Kautz, Murrell F. 2,815,034.
 Kliever, Waldo H. 2,779,655.
 Kling, John D. 2,817,351.
 Kotas, Donald E. 2,811,855.
 Kronmiller, Carl G. 2,786,924.
 Kutzler, Robert J. 2,780,426.
 Kutzler, Robert J. 2,786,973.
 Kutzler, Robert J. 2,790,303.
 Kutzler, Robert J. 2,814,638.
 Kutzler, Robert J., and Taylor. 2,807,794.
 Larsen, Finn J. 2,794,946.
 Larsen, Roy L. 2,777,105.
 Livingston, Herschel N. 2,790,146.
 Livingston, Herschel N. 2,798,986.
 Martin, Wilbert A. 2,814,703.
 Martinson, Edward E. W. 2,789,767.
 McDonald, Joseph G. 2,803,719.
 McLuen, Carl T. 2,811,165.
 Mickman, John V. 2,812,398.
 Moore, Warren, Jr., and Ehret. 2,778,574.
 Moxness, Sven K. 2,781,547.
 Murphy, Carl P. 2,791,670.
 Nina, Anthony A. 2,785,256.
 Olson, Elwyn H. 2,806,924.
 Peters, Max D. 2,782,278.
 Pierstorff, Buckley C. 2,787,512.
 Pinckaers, Balthazar H. 2,807,758.
 Pinckaers, Balthazar H. 2,812,142.
 Popowsky, William J. 2,789,543.
 Popowsky, William J. 2,792,566.
 Roche, Norlin J. 2,814,689.
 Salerno, Paul G. 2,815,915.
 Schoepfel, John F. 2,814,954.
 Schuck, Oscar H. 2,787,428.
 Schwerke, Robert E. 2,795,667.
 Sheldon, Donald F. 2,806,159.
 Side, Frederick W. 2,800,914.
 Smith, Harvey J. 2,814,740.
 Smith, James W. 2,784,313.
 Sparrow, Hubert T. 2,782,996.
 Sparrow, Hubert T. 2,805,026.
 Stavnes, Sigward A., and Wilson. 2,801,826.
 Storm, John F. 2,787,783.
 Streater, Jack W., and Popowsky. 2,783,423.
 Waldhauer, Charles H., Jr. 2,793,341.
 Walter, Jack C. 2,786,902.
 Werme, John V., Dever, and Duke. 2,814,731.
 Williams, Elwyn C. 2,811,573.
 Woodward, Herbert S. 2,790,943.
 Zimmerli, Fred H. 2,788,441.
- Minneapolis-Moline Co.: *See*—
 Hedtke, Robert G. 2,781,719.
 Knapp, William E., and Roth. 2,778,548.
 Swenson, William E., and Nielsen. 2,793,533.
- Minnece, Salvatore, to General Electric Co. Automatic parallel operation of transformers. 2,780,735, 2-5-57, Cl. 307-83.

- Minnesota Mining & Mfg. Co.: *See*—
 Abbott, Charles W. 2,802,321.
 Ahlbrecht, Arthur H., and Brown. 2,803,656.
 Ahlbrecht, Arthur H., Brown, and Smith. 2,803,615.
 Aldrich, Walter S. 2,798,552.
 Aldrich, Walter S., and Hanes. 2,787,941.
 Allison, Roy R. 2,788,079.
 Barnhart, William S. 2,817,678.
 Bollmeier, Emil W. 2,792,560.
 Bollmeier, Emil W. 2,805,764.
 Brice, Thomas J., and Severson. 2,790,815.
 Brown, Harvey A. 2,809,990.
 Casey, James H., and McFadden. 2,804,907.
 Clark, Bryce L. 2,813,043.
 Cross, Bert S., and Gebhard. 2,804,417.
 Franer, Victor R., and Steinhauser. 2,785,087.
 Husted, Donald R., and Ahlbrecht. 2,782,184.
 Husted, Donald R., and Ahlbrecht. 2,795,615.
 Johnson, Arnold E. 2,776,068.
 Johnson, Wayne R. 2,813,927.
 Johnson, Wayne R. 2,816,162.
 Johnson, Wayne R. 2,817,701.
 Larsen, Walter C., Gansher, and Wanielista. 2,788,625.
 Miskiska, William F. 2,786,792.
 Mullin, John T. 2,794,066.
 Palmquist, Philip V. 2,786,778.
 Pickett, Theodore C. 2,776,492.
 Pole, Gordon R. 2,806,773.
 Polster, John A. 2,798,551.
 Purvis, Robert J., and Beck. 2,789,063.
 Rendall, John L., and Pearson. 2,795,601.
 Riedesel, Richard G., and Frigstad. 2,794,726.
 Stedry, Paul J. 2,811,501.
 Stephens, Joseph F. 2,783,174.
 Stradley, Norman H., and Hann. 2,800,414.
 Stradley, Norman H., and Beck. 2,790,723.
 Weber, Charles W., and Barnhart. 2,816,147.
- Minnesota Plastics: *See*—
 Brandt, Jens J. 2,810,777.
 Minnick, Edward L., to Standard Electronics Corp. Crystal assembly and mounting means therefor. 2,807,731, 9-24-57, Cl. 310-9.2.
 Minnick, Edward L., and C. W. Mann, to Standard Electronics Corp. Crystal mounting means. 2,814,741, 11-26-57, Cl. 310-9.1.
 Minnick, Robert C., to Bell Telephone Laboratories, Inc. Switching circuits. 2,779,934, 1-29-57, Cl. 340-174.
 Minor, Harold D. Door construction and a concealed hinge assembly therefor. 2,808,610, 10-8-57, Cl. 16-162.
 Minshall, Glenn A. Salt and pepper shakers. 2,804,997, 9-3-57, Cl. 222-143.
 Minsinger, Manfred, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alpha,beta-dichloropropionic acid esters. 2,813,893, 11-19-57, Cl. 260-487.
 Minsk, Louis M., to Eastman Kodak Co. Coated gelatin light filter. 2,801,188, 7-30-57, Cl. 117-68.
 Minsk, Louis M., to Eastman Kodak Co. Polymeric gentisamide antistain agents for color photography. 2,816,028, 12-10-57, Cl. 96-100.
 Minsk, Louis M., and C. C. Unruh, to Eastman Kodak Co. Ethylene-vinyl cinnamate copolymers. 2,801,233, 7-30-57, Cl. 260-86.7.
 Minter, Jerry B., 2nd. Magnetic tape transducer mechanism. 2,794,605, 6-4-57, Cl. 242-55.11.
 Minter, John O., and T. B. Hensley. Well tubing stop. 2,816,613, 12-17-57, Cl. 166-219.
 Minton, Clarence W., and J. G. O'Hara, to May Hosiery Mills. Automatic transfer knitting machine and method. 2,799,149, 7-16-57, Cl. 66-24.
 Mintz, Jacob J., to Seal-Sac Inc. Garment bag of the moth-proofing type. 2,793,742, 5-28-57, Cl. 206-10.
 Minute Maid Corp.: *See*—
 Bonnell, James M. 2,810,649.
 Miossec, Jean, and R. Perret, to Compagnie des Machines Bull (Societe Anonyme). Type wheel actuating means in settable printing machines. 2,790,381, 4-30-57, Cl. 101-91.
 Miquel y Merino, Miguel, to Papel Para Cigarros, S. A. Method of making tobacco distillate adapted to treat cigarette paper. 2,805,668, 9-10-57, Cl. 131-143.
 Miquel y Merino, Miguel, to Papel Para Cigarros, S. A. Refluxed tobacco extract and method of making the same. 2,805,669, 9-10-57, Cl. 131-143.
 Mira, zavody na pletene a stavkove zbozi, narodni podnik: *See*—
 Svaty, Vladimir. 2,793,489.
 Svaty, Vladimir, Mohelnicky, and Zahradnik. 2,796,085.
 Svaty, Vladimir, and Taticek. 2,813,688.
- Mirando, Louis: *See*—
 Rosenberg, David, and Mirando. 2,803,023.
- Mirel, Arthur G., to American Machine & Foundry Co. Button sewing machine. 2,811,939, 11-5-57, Cl. 112-108.
- Mires, Joseph E., to Somerville Ltd. Cardboard box. 2,782,981, 2-26-57, Cl. 229-52.
- Mirkin, Max: *See*—
 Rosenblum, William H., and Mirkin. 2,787,782.
- Mirkin, Sholem I. Hotel guest letter and message boxes. 2,801,046, 7-30-57, Cl. 232-34.
- Miron, Walter F. Cutting board for slicing various food products. 2,816,588, 12-17-57, Cl. 146-215.
- Mironoff, Nicolas, to Ateliers des Charmilles S. A. Arrangement for machining conductive material through electric discharges. 2,779,857, 1-29-57, Cl. 219-69.
- Mirr, Gordon J.: *See*—
 Bader, Alfred R., and Mirr. 2,809,183.
 Mirr, Gordon J., and A. R. Bader, to Pittsburgh Plate Glass Co. Use of hydroxytetracetic acid as an accelerator of polymerization. 2,809,182, 10-8-57, Cl. 260-45.4.
- Mirra, Michael J.: *See*—
 Fronmuller, George D., and Mirra. 2,798,085.
- Mirza, John: *See*—
 Croxall, Willard J., and Mirza. 2,799,692.
- Mirza, Rio N., to Fairchild Engine and Airplane Corp. System for cooling a turbine bearing of a gas turbine power plant. 2,789,416, 4-23-57, Cl. 60-35.6.
- Mischler, Warren D., to Bell Telephone Laboratories, Inc. Frequency conversion circuits. 2,776,373, 1-1-57, Cl. 250-36.
- Misco Precision Casting Co., Division of Consolidated Foundries and Mfg. Corp.: *See*—
 Operhall, Theodore. 2,806,271.
- Misek, Victor A., to Sanders Associates, Inc. Balanced modulator. 2,812,495, 11-5-57, Cl. 332-9.
- Misek, Victor A., to Sanders Associates, Inc. Balanced modulator and oscillator. 2,812,496, 11-5-57, Cl. 332-14.
- Mish, William A., Jr. Tobacco harvester. 2,797,827, 7-2-57, Cl. 214-83.1.
- Mishcon, Samuel, to Supreme Knitting Machine Co., Inc. Method and apparatus for knitting pile fabric. 2,796,751, 6-25-57, Cl. 66-93.
- Mishelevich, Benjamin, to Westinghouse Air Brake Co. Alternating current cycle repeater for measuring time. 2,791,682, 5-7-57, Cl. 246-182.
- Misiura, Bronislaw, to United States Steel Corp. Bloom-tumbling tool. 2,788,237, 4-9-57, Cl. 294-17.
- Miskel, John J., to Chas. Pfizer & Co., Inc. Hypodermic syringe. 2,778,360, 1-22-57, Cl. 128-218.
- Mission Appliance Corp.: *See*—
 Sloier, Harold E. 2,800,152.
- Missouri Automatic Control Corp.: *See*—
 Markham, Charles E. 2,787,118.
- Mr. Boston, Distiller Inc.: *See*—
 Boraks, Max G. 2,787,547.
- Mr. Robot, Inc.: *See*—
 Lee, John C. 2,804,023.
- Mistretta, Salvatore A. Sorter and counter for pharmaceutical products. 2,812,076, 11-5-57, Cl. 214-1.
- Misuraca, Louis J. Method of making check protecting stamps. 2,804,821, 9-3-57, Cl. 101-401.1.
- Mital, Roop N., to North American Philips Co., Inc. Series connected transistor amplifier. 2,801,298, 7-30-57, Cl. 179-171.
- Mitchel, Ralph H., to General Motors Corp. Process for making gaseous discharge tube. 2,800,383, 7-23-57, Cl. 316-22.
- Mitchell, Albert L., to Mitchell Industrial Tire Co., Inc. Method of assembling laminated tires. 2,801,463, 8-6-57, Cl. 29-433.
- Mitchell, Andrew, 3rd, to E. I. du Pont de Nemours and Co. Cellular resins from arylene diisocyanates and polysulfide polymers and method of making same. 2,814,600, 11-26-57, Cl. 260-2.5.
- Mitchell Camera Corp.: *See*—
 Jonson, Gustave W. 2,800,038.
 Kirkham, Alan R. 2,817,995.
- Mitchell, Charles B. Safety harness. 2,817,393, 12-24-57, Cl. 155-189.
- Mitchell, Charles F. Bowling ball insert pad. 2,777,693, 1-15-57, Cl. 273-63.
- Mitchell, Clair D.: *See*—
 Walter, Homer E., Sadler, Malkames, and Mitchell. 2,796,351.
- Mitchell, David, to The Glacier Metal Co. Ltd. Plain bearings or anti-friction elements. 2,788,324, 4-9-57, Cl. 252-12.2.
- Mitchell, David C., and D. A. Starkey, to The Glacier Metal Co. Ltd. Method of impregnating porous metal strip with polytetrafluoroethylene. 2,813,041, 11-12-57, Cl. 117-21.
- Mitchell, Donald A. Tufting machine. 2,785,643, 3-19-57, Cl. 112-79.
- Mitchell, Doren, and E. Vroom, to Bell Telephone Laboratories, Inc. Recording systems. 2,784,049, 3-5-57, Cl. 346-44.
- Mitchell, Dorman S., and C. F. Treanor, to Swift & Co. Automatic head dropper for poultry. 2,810,926, 10-29-57, Cl. 17-11.
- Mitchell, Edward, and E. L. Humphrey, to Gulf Research & Development Co. Production of surface-active agents for sulfonation of petroleum oil. 2,807,589, 9-24-57, Cl. 252-353.
- Mitchell, Fern W., Jr., and P. A. Shaffer, Jr. Coulometer. 2,781,490, 2-12-57, Cl. 324-111.
- Mitchell, George: *See*—
 Lui, Harry M., and Abrams. 2,788,481.
- Mitchell, George A., and E. J. Gayetsky, to Lombard Corp. Billet holding and handling apparatus for electric induction heaters. 2,813,959, 11-19-57, Cl. 219-10.69.
- Mitchell, George F. Processes for preparing tea products. 2,785,979, 3-19-57, Cl. 99-77.
- Mitchell, Gerald A.: *See*—
 Brown, Raymond W., and Mitchell. 2,813,251.
 Brown, Raymond W., Mitchell, and Schultz. 2,794,211.

- Mitchell, Gerald A., and N. V. Yost, to Western Electric Co., Inc. Gas pressure measuring devices. 2,801,387, 7-30-57, Cl. 324-33.
- Mitchell, Glenn S.: *See*—
Barry, George D. 2,786,429.
Flowers, Alfred A., and Mitchell. 2,798,154.
- Mitchell, Harry A.: *See*—
Knop, James C., and Mitchell. 2,799,921.
- Mitchell, Harry A., to The Turner Brass Works. Halide leak detector. 2,809,101, 10-8-57, Cl. 23-254.
- Mitchell, Herschel K., and A. M. Michelson, to California Institute Research Foundation. Process of preparing orotidine. 2,788,346, 4-9-57, Cl. 260-211.5.
- Mitchell Industrial Tire Co., Inc.: *See*—
Mitchell, Albert L. 2,801,463.
- Mitchell, Irving L., to Ebert Electronics Corp. Mercury switches. 2,776,351, 1-1-57, Cl. 200-112.
- Mitchell, James S., and G. F. Crofton, to Corex Chemical Ltd. Apparatus for injecting liquids into liquid lines. 2,804,091, 8-27-57, Cl. 137-566.
- Mitchell, John, to T. W. & C. B. Sheridan Co. Newspaper stuffing machine. 2,796,255, 6-18-57, Cl. 270-57.
- Mitchell, John E., Co.: *See*—
Dyson, Thomas N. 2,776,454.
Mitchell, Orville, 2,789,576.
Mitchell, Orville. 2,815,524.
- Mittell, John F.: *See*—
Rau, Howard J. 2,783,573.
- Mitchell, Kent C.: *See*—
Mitchell, Robert E. and K. C. 2,779,146.
- Mitchell, Len B., to Ideal Industries, Inc. Voltage tester. 2,791,748, 5-7-57, Cl. 324-149.
- Mitchell, Leshar A.: *See*—
Sonnenfeld, Richard J., and Mitchell. 2,807,597.
- Mitchell, Lester F., and E. J. Janke, to Addressograph-Multigraph Corp. Cleaner for rotary printing or duplicating machines. 2,791,177, 5-7-57, Cl. 101-425.
- Mitchell, Lester F., and D. B. Brewster, to Addressograph-Multigraph Corp. Clamp for master sheets of rotary printing machines. 2,813,482, 11-19-57, Cl. 101-132.
- Mitchell Maintenance Co., Inc.: *See*—
Mitchell, Maurice E. 2,778,694.
Mitchell, Maurice E. 2,787,278.
Mitchell, Maurice E. 2,787,343.
- Mitchell Mfg. Co.: *See*—
Blink, Peter. 2,807,512.
- Mitchell, Maurice E., to Mitchell Maintenance Co., Inc. Mobile swinging lift platform equipment. 2,778,694, 1-22-57, Cl. 304-29.
- Mitchell, Maurice E., to Mitchell Maintenance Co., Inc. Apparatus for over-head service work. 2,787,278, 4-2-57, Cl. 134-11.
- Mitchell, Maurice E., to Mitchell Maintenance Co., Inc. Apparatus for servicing overhead equipment. 2,787,343, 4-2-57, Cl. 189-11.
- Mitchell, Norris W., and C. S. Kelley, to Phillips Petroleum Co. Solvent extraction of hydrocarbon oils. 2,777,800, 1-15-57, Cl. 196-1447.
- Mitchell, Orville, to J. E. Mitchell Co. Hydraulic valve for constant speed control. 2,789,576, 4-23-57, Cl. 137-116.
- Mitchell, Orville, to John E. Mitchell Co. Mower roller scraper. 2,815,524, 12-10-57, Cl. 15-256.5.
- Mitchell, Raymond P., and Z. Z. Shorter. Fishing lure. 2,817,920, 12-31-57, Cl. 43-26.2.
- Mitchell, Reid L.: *See*—
Schlosser, Paul H., Mitchell, and Gray. 2,814,569.
- Mitchell, Reid L., to Rayonier Inc. High-alpha cellulose. 2,805,169, 9-3-57, Cl. 106-163.
- Mitchell, Reid L., and P. H. Schlosser, deceased; by E. S. Schlosser, executrix, to Rayonier Inc. Alkaline refining of wood pulp. 2,811,518, 10-29-57, Cl. 260-212.
- Mitchell, Robert C.: *See*—
Christian, Raymond A., Colley, Crawford, Ganger, and Mitchell. 2,805,748.
Christian, Raymond A., Strachan, and Mitchell. 2,805,822.
- Mitchell, Robert E.: *See*—
Gille, Willis H., and Mitchell. 2,776,396.
- Mitchell, Robert E. and K. C. Combination rotary mower and lawn sweeper. 2,779,146, 1-29-57, Cl. 56-25.4.
- Mitchell, Robert H.: *See*—
Shannon, Richard F., and Mitchell. 2,793,130.
- Mitchell, Robert L. Multi-colored rubber mats and apparatus for formation thereof. 2,807,564, 9-24-57, Cl. 154-49.
- Mitchell, Robert L., and R. M. Pritchett, to Celanese Corp. of America. Continuous production of pentaerythritol. 2,790,836, 4-30-57, Cl. 260-635.
- Mitchell, Rosa.: *See*—
Norris, Jack E. 2,806,556.
- Mitchell, Rosalia. Hair curling device. 2,787,275, 4-2-57, Cl. 132-41.
- Mitchell, Stanley P.: *See*—
Townsend, Frederick H., and Mitchell. 2,809,315.
- Mitchell, Walter G., to Thor Power Tool Co. Multiple unit assembly for rotary tools. 2,807,972, 10-1-57, Cl. 81-54.
- Mitchell, Wilbur C.: *See*—
Mengelkamp, Richard A., and Mitchell. 2,788,779.
- Mitchell, William A.: *See*—
Rehbein, Charles A., and Mitchell. 2,798,795.
- Mitchell, William A., to General Foods Corp. Method for making a quick-setting gelatin dessert. 2,785,072, 3-12-57, Cl. 99-130.
- Mitchell, William E. Form of concrete curb openings. 2,809,414, 10-15-57, Cl. 25-118.
- Mitchell, William E., to Dunlop Rubber Co. Ltd. Apparatus for controlling tension in cord wound from one package to another. 2,812,144, 11-5-57, Cl. 242-45.
- Mitchell, William E. Adjustable hood. 2,817,137, 12-24-57, Cl. 25-118.
- Mitchell, William L. Tool guiding and positioning edge trim cutoff gauge. 2,799,077, 7-16-57, Cl. 29-67.
- Miter, Gordon.: *See*—
Davis, Carl M., and Miter. 2,786,721.
- Mithra A.-G.: *See*—
Balde, Ulysse. 2,809,785.
- Mitnick, Jacob J., to Magnet Wire, Inc. Wire spool. 2,780,420, 2-5-57, Cl. 242-123.
- Mitrovich, Milenko, to Chance Vought Aircraft, Inc. Reciprocal movement transmitter having lost motion. 2,814,957, 12-3-57, Cl. 74-471.
- Mitsch, George.: *See*—
Kaden, Willy, and Mitsch. 2,816,494.
- Mittag, Fritz H., and H. Ringhandt, to International Standard Electric Corp. Dispatch tube system. 2,815,182, 12-3-57, Cl. 243-16.
- Mittag, Heinz.: *See*—
Niepmann, Friedrich, and O. Niepmann, Hahn, and Mittag. 2,798,260.
- Mittell, Frank C., and R. J. Culleton, to North American Aviation, Inc. Anti-extrusion device for annular seals. 2,809,080, 10-8-57, Cl. 309-23.
- Mittelman, Edward R., and W. D. Drummond, to Westinghouse Electric Corp. Temperature compensated reference cavity. 2,795,764, 6-11-57, Cl. 333-82.
- Mittelmann, Eugene, to Wilson & Co., Inc. High frequency processing of meat and apparatus therefor. 2,816,034, 12-10-57, Cl. 99-107.
- Mittelstadt, Clarence F., H. C. Peters, and M. P. Baldy, to Blaw-Knox Co. Truckmixer. 2,793,013, 5-21-57, Cl. 259-168.
- Mittl, Stephen J.: *See*—
Bickel, David K., and Mittl. 2,817,619.
- Mitts & Merrill.: *See*—
Quinsey, Thomas E., and Krueger. 2,812,815.
- Mitz, Milton A., and A. E. Heath, to Armour Co. Coenzyme concentrates and methods for the preparation thereof. 2,781,339, 2-12-57, Cl. 260-211.5.
- Mix, Albert L., to General Foods Corp. Coconut shelling machine. 2,783,801, 3-5-57, Cl. 146-7.
- Mix, Gail E. Fan having detachable blades. 2,794,509, 6-4-57, Cl. 170-173.
- Mix & Genest Aktiengesellschaft.: *See*—
Peek, Max. 2,799,385.
Sindzinski, Willy, and Muller. 2,801,725.
- Mixer, Robert Y.: *See*—
Bailey, Donald L., and Mixer. 2,777,869.
- Mixer, Robert Y., and D. L. Bailey, to Union Carbide and Carbon Corp. Polymerization of vinylalkoxysilanes. 2,777,868, 1-15-57, Cl. 260-448.2.
- Mixer mobile Manufacturers, Inc.: *See*—
Wagner, Eddie B. 2,797,002.
Wagner, Eddie B. 2,811,265.
- Mixon, Lorenzo S. Drain tile. 2,782,604, 2-26-57, Cl. 61-11.
- Miyamoto, Kasumi. Ironing board for shirts, dresses and the like. 2,803,897, 8-27-57, Cl. 38-137.
- Miyamoto, Katsuhel. Colloidal suspension of amylose and alpha-amylopectin. 2,801,184, 7-30-57, Cl. 106-213.
- Miyawaki, Hidekichi.: *See*—
Inoue, Yoshikame, Takeuchi, Fukuda, and Miyawaki. 2,798,039.
- Mizen, Walter J., to Bendix Aviation Corp. Pump. 2,792,789, 5-21-57, Cl. 103-173.
- Mizrahi, Eli, and A. Pino. Rotating loudspeaker. 2,813,928, 11-19-57, Cl. 179-1.
- Mizzoni, Renat H., and C. R. Scholz, to Ciba Pharmaceutical Products, Inc. Tris-[di(lower)alkylaminoalkyl]-amines. 2,808,438, 10-1-57, Cl. 260-583.
- Mládek, Bedřich, to Vytvoř Praha, Narodni Podnik. Continuously operating stuffing and dividing machine for doughlike material. 2,777,403, 1-15-57, Cl. 107-14.
- Mlachnik, Albert A.: *See*—
Pharris, John A., and Mlachnik. 2,817,868.
- Mlynarek, Walter F. Lubricator for articulated conveyor belts. 2,800,199, 7-23-57, Cl. 184-16.
- Mlynczak, Lawrence L., to the United States of America as represented by the Secretary of the Army. Commutator. 2,790,967, 4-30-57, Cl. 340-208.
- Mobay Chemical Co.: *See*—
McGregor, William A., Jr., and Mahoney. 2,785,739.
- Mobelfabrik Westfallia H. Rottmann.: *See*—
Kliem, Hans H. R., and Zaage. 2,784,753.
- Moberg, Sigurd M.: *See*—
Brooks, Winfred M., and Moberg. 2,796,277.
- Moberg, Sigurd M., to E. J. Brooks Co. Locking seal. 2,778,666, 1-22-57, Cl. 292-325.
- Moberg, Sigurd M., to E. J. Brooks Co. Manually closable seal. 2,800,349, 7-23-57, Cl. 292-325.
- Moberg, Sigurd M., to E. J. Brooks Co. Non-reusable device for closing a flexible tube. 2,809,651, 10-15-57, Cl. 137-67.
- Moberg, Sigurd M., to E. J. Brooks Co. Seal. 2,809,859, 10-15-57, Cl. 292-308.
- Moberger, Arvid F. Flexible container. 2,777,630, 1-15-57, Cl. 229-45.

- Moberly, Charles W.: *See*—
 Jones, Rufus V., and Moberly. 2,786,047.
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- Mobile Shade Co., Inc.: *See*—
 Jones, Howard G. 2,811,935.
- Mobley, William R. Positive automatic means and method of controlling liquid or liquid mixtures in the process of separation. 2,808,933, 10-8-57, Cl. 210-83.
- Moccasin Sporting Goods, Inc.: *See*—
 Cross, August B. 2,813,365.
- Mocheil, Walter E., and C. Weaver, to E. I. du Pont de Nemours and Co. Polyvinyl acetals of aldehydes containing a betaine group. 2,818,403, 12-31-57, Cl. 260-73.
- Mock, Ernest T.: *See*—
 Gilman, Harris H., Henning, Mock, and Postlewaite. 2,800,974.
- Mock, Frank C., to Bendix Aviation Corp. Power control system for turbine propeller engines. 2,796,136, 6-18-57, Cl. 170-135.74.
- Mock, Frank C., to Bendix Aviation Corp. Manifold fuel injector. 2,810,374, 10-22-57, Cl. 123-119.
- Mock, James C. Controls for signal circuits. 2,793,272, 5-21-57, Cl. 200-153.
- Mockiewicz, Sylvester C., to American Buff Co. Buffing wheel. 2,803,096, 8-20-57, Cl. 51-193.
- Mockiewicz, Sylvester C., to American Buff Co. Combination sisal and cotton buff. 2,803,097, 8-20-57, Cl. 51-193.
- Mockrin, Isadore: *See*—
 La Lande, William A., Jr., and Mockrin. 2,776,205.
- Mockrin, Isadore, to Pennsalt Chemicals Corp. Production of metal fluorides. 2,800,389, 7-23-57, Cl. 23-88.
- Mod, Robert R.: *See*—
 Magne, Frank C., Skau, and Mod. 2,791,596.
- Moeder, Helle L. Musical instrument. 2,780,126, 2-5-57, Cl. 84-1.15.
- Model Engineering & Mfg., Inc.: *See*—
 Steele, Horace M. 2,777,426.
- Model Plastic Corp.: *See*—
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- Modern Coffees, Inc.: *See*—
 Weisman, Maurice. 2,786,761.
- Modern Corp.: *See*—
 Brigner, Charles F., Jr. 2,799,079.
- Modern Equipment Co.: *See*—
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- Schwengel, Harold W. 2,817,508.
- Modern Faucet Mfg. Co.: *See*—
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- Modern Hanger Corp., The: *See*—
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- Modern Metal Craftsmen, Inc.: *See*—
 Tyree, Andrew T. 2,792,086.
- Modern Plastic Machinery Corp.: *See*—
 Rothacker, Francis N. 2,802,085.
- Tornberg, Henning T. 2,802,361.
- Modern Precasting Co.: *See*—
 Fisher, Milton W., and E. G. 2,783,029.
- Modern Service Engineering Co.: *See*—
 Cyran, Eugene V., and Jackson. 2,804,849.
- Modern Tool & Die Co.: *See*—
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- Modern Upholstered Chair Co., Inc.: *See*—
 Gerson, Jerome S. 2,788,843.
- Modern Village Stores, Inc.: *See*—
 Crawford, Wayland H. 2,776,730.
- Crawford, Wayland H., and Hartup. 2,784,043.
- Modes, Edward E.: *See*—
 Legeza, Thomas B., and Modes. 2,778,197.
- Modes, Edward S. Door latch. 2,793,894, 5-28-57, Cl. 292-128.
- Modeweg, Leslie J. Plant irrigating device. 2,799,121, 7-16-57, Cl. 47-38.
- Modglin Co., Inc.: *See*—
 Watt, James. 2,794,998.
- Modine, Arthur B., to Modine Mfg. Co. Fluid conduit structure. 2,795,402, 6-11-57, Cl. 257-256.
- Modine Mfg. Co.: *See*—
 Modine, Arthur B. 2,795,402.
- Huggins, Homer D., and Simpelaar. 2,792,200.
- Nesbitt, Clifford W. 2,803,294.
- Simpelaar, Clyde S. 2,782,010.
- Simpelaar, Clyde S. 2,789,797.
- Simpelaar, Clyde S. 2,803,440.
- Modl, Erich K.: *See*—
 Krivsky, William A., and Modl. 2,781,255.
- Modler, Hans. Machine for grinding and superfinishing barrel-shaped rollers and the like. 2,795,900, 6-18-57, Cl. 51-108.
- Modoc Peat Moss Co.: *See*—
 Geraghty, Cecil J., Kennedy, and Seabrook. 2,798,800.
- Modrey, Henry J., to AMI Inc. Connecting cord for use in connection with an electric power unit. 2,776,385, 1-1-57, Cl. 310-71.
- Modrey, Henry J. Nut and slotted retainer therefor adapted for assembly with tubular members. 2,784,759, 3-12-57, Cl. 151-41.75.
- Modrey, Henry J., to Interlock Corp. Self-locking mechanical coupling assembly. 2,805,875, 9-10-57, Cl. 287-20.5.
- Modrovsky, Joseph, and W. A. Sherwood, to The Farmingdale Corp. Pump for viscous fluids. 2,777,394, 1-15-57, Cl. 103-84.
- Moe, Clarence M. Ice making and ejecting machine. 2,787,133, 4-2-57, Cl. 62-106.
- Moekel, John N., to Pepperell Mfg. Co. Blanket cloth and method of making the same. 2,792,851, 5-21-57, Cl. 139-383.
- Moeller, Arthur W. Low voltage guide light. 2,777,943, 1-15-57, Cl. 240-52.
- Moeller, August: *See*—
 Wagner, Ernst, and Moeller. 2,809,138.
- Moeller, Benjamin A., and A. B. Stevens. Liquid conservation system. 2,790,578, 4-30-57, Cl. 220-85.
- Moeller, Carl A.: *See*—
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- Claff, Clarence L., and Moeller. 2,800,855.
- Moeller, Clifford Z., deceased; L. N. Moeller, executrix of said C. Z. Moeller. Electric fence insulator. 2,805,277, 9-3-57, Cl. 174-161.
- Moeller, John. Electrically operated rear view mirror. 2,806,408, 9-17-57, Cl. 88-77.
- Moeller, John D.: *See*—
 Barish, Thomas, Moeller, Treseder, and Wright. 2,797,761.
- Moeller, Kurt G. F.: *See*—
 Baugh, Herbert H., and Moeller. 2,796,759.
- Moeller, Leona N.: *See*—
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- Moeller, Sanford A. Bass drum pedal. 2,800,828, 7-30-57, Cl. 84-422.
- Moelter, Gregory M.: *See*—
 Davies, Richard E., and Moelter. 2,785,146.
- Moeltzner, Ernst F. W., to Landis Machine Co. Mechanisms for forming cylindrical work pieces. 2,808,147, 10-1-57, Cl. 203-150.
- Moen, Anver B. Snow plow. 2,795,871, 6-18-57, Cl. 37-43.
- Moen, Norman G. Leader holder. 2,789,389, 4-23-57, Cl. 43-57.5.
- Moen, Walter B.: *See*—
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- Moerbe, Herbert J. Brick and stone cutting machine. 2,781,036, 2-12-57, Cl. 125-23.
- Moergeli, Eduard, to Ciba Ltd. Trichloromethyl halogen benzenes and process of making same. 2,790,786, 4-30-57, Cl. 260-651.
- Moerkens, Jozef C., to North American Philips Co., Inc. Low-pressure arc-discharge tube arrangement. 2,794,938, 6-4-57, Cl. 315-138.
- Moerkens, Jozef C., to North American Philips Co., Inc. Apparatus for starting and controlling electric discharge devices. 2,805,364, 9-3-57, Cl. 315-95.
- Moerkens, Jozef C., to North American Philips Co., Inc. Gas or vapor discharge tube device. 2,808,540, 10-1-57, Cl. 315-98.
- Moersch, George W., to Parke, Davis & Co. Process for the production of 1-g-nitrophenyl-2-dichloroacetamidopropane-1,3-diols. 2,807,645, 9-24-57, Cl. 260-562.
- Moesinger, Fred, Jr., to Union Carbide and Carbon Corp. Flat powder stream forming process. 2,794,755, 6-4-57, Cl. 148-9.5.
- Mofenson, Jack: *See*—
 Dunham, Richard M., and Mofenson. 2,815,447.
- Moffett, Eugene W., to Pittsburgh Plate Glass Co. 3 substituted catechols as anti-skinning agents for coating compositions. 2,789,955, 4-23-57, Cl. 260-22.
- Moffett, James. Garment bag. 2,782,908, 2-26-57, Cl. 206-7.
- Moffett, Robert B.: *See*—
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- Moffett, Robert B., to The Upjohn Co. O-(phenylcarbonyl)-n-methyl scopolamine quaternary ammonium salts. 2,781,346, 2-12-57, Cl. 260-292.
- Moffett, Robert B., to The Upjohn Co. Organic compounds. 2,812,334, 11-5-57, Cl. 260-326.3.
- Moffett, Robert B., to The Upjohn Co. Organic compounds. 2,814,622, 11-26-57, Cl. 260-243.
- Moffett, Robert B., to The Upjohn Co. Certain esters of N-methyl scopolamine quaternary ammonium salts. 2,814,623, 11-26-57, Cl. 260-292.
- Moghadam, Leon M., now by change of name to Leo Markoff-Moghadam. Magnetic fastener. 2,809,411, 10-15-57, Cl. 24-203.
- Mogren, Eben F. Telltale device. 2,799,962, 7-23-57, Cl. 43-17.
- Mohasco Industries, Inc.: *See*—
 Ashcroft, Alfred F., and Schock. 2,792,323.
- Ashcroft, Alfred G. 2,796,654.
- Bejeuhr, Walter G. 2,815,772.
- Cogovan, Edward J., and Friderici. 2,810,948.
- Cogovan, Edward J., and Peebles. 2,790,225.
- Florio, Patrick A. 2,786,787.
- Florio, Patrick A. 2,805,116.
- Mersereau, Emory P., Jr. 2,807,072.
- Mersereau, Emory P., Jr., and Karpoff. 2,787,293.
- Miller, Philip. 2,787,571.
- Pospiszel, Joseph T. 2,782,755.
- Rice, Walter A. 2,781,789.
- Rice, Walter A. 2,810,950.
- Runton, Leslie A. 2,804,764.
- Shattuck, Ewart H. 2,810,471.
- Underwood, Garfield J. 2,779,354.
- Mohaupt, Elizabeth: *See*—
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- Mohawk Business Machines Corp.: See—
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- Mohawk Heat Relief Co.: See—
Smiley, Paul E. 2,812,835.
- Mohelnicky, Josef: See—
Svatý, Vladimir, Mohelnicky, Zahradnik. 2,796,085.
- Mohlenbrock, Karl. Racing toy. 2,814,492, 11-26-57, Cl. 273-86.
- Mohler, Robert D., and W. A. Kelley, to Motorola, Inc. Control system. 2,794,156, 5-28-57, Cl. 317-149.
- Mohn, Heinrich, to Heraeus Quarzschmelze G. m. b. H. Textile guiding drums. 2,800,704, 7-30-57, Cl. 29-123.
- Mohnkern, Gerald E.: See—
Chenault, Roy L., and Mohnkern. 2,779,697.
- Mohr, Albert C., to Stauffer Chemical Co. Manufacture of treble superphosphate. 2,792,297, 5-14-57, Cl. 71-41.
- Mohr, Glenn R., to Westinghouse Electric Corp. Grid excitation. 2,781,449, 2-12-57, Cl. 250-36.
- Mohr, Howard E. Method of locating apertures for electrical outlet boxes in wallboard and means useful therein. 2,775,812, 1-1-57, Cl. 29-407.
- Mohr, John G., and C. F. Harr, to L-O-F Glass Fibers Co. Apparatus for forming curled glass fibers. 2,797,529, 7-2-57, Cl. 49-7.
- Mohr, Karl. Swiveled cable connector. 2,790,152, 4-23-57, Cl. 339-8.
- Mohr, Rudolf: See—
Quandt, Hans-Hubert. 2,784,581.
- Möhring, Gustav, and A. Weber, to Famatex G. m. b. H. Tenter clip arrangement. 2,799,913, 7-23-57, Cl. 26-57.
- Mohrs, Ernst, and A. Claus, to Firma Rheinisch-Westfälische Kalkwerke Aktiengesellschaft, and Firma Maschinenfabrik A. Claus. Discharge apparatus for ovens such as limekilns and the like. 2,785,885, 3-19-57, Cl. 263-29.
- Moinichen, Ralph R. Automatic hammer. 2,816,289, 12-17-57, Cl. 1-45.
- Moir, John. Movable jaw wrench and hydraulically controlled stop device therefor. 2,778,259, 1-22-57, Cl. 81-84.
- Moir, Thomas D., and J. C. Skakel, to Great Lakes Carbon Corp. Materials-handling device. 2,801,065, 7-30-57, Cl. 248-120.
- Moise, James E.: See—
Johnson, Frank B., Smith, and Moise. 2,778,859.
- Moise, James E., to Esso Research and Engineering Co. Production of activated coke from petroleum acid sludge coke. 2,790,781, 4-30-57, Cl. 252-421.
- Moise, James E., and M. A. Segura, to Esso Research and Engineering Co. Process for preparing alkali-metal catalyzed polymers. 2,791,618, 5-7-57, Cl. 260-669.
- Mojonnier, Albert B.: See—
Angell, Paul M., and Mojonnier. 2,815,625.
- Mojonnier, Albert B. Freon filling method and apparatus. 2,785,537, 3-19-57, Cl. 62-1.
- Mojonnier, Albert B. Carton sealing mechanism. 2,798,349, 7-9-57, Cl. 53-373.
- Mojonnier Bros. Co.: See—
McGovern, Bernard J., Skoli, and Witt. 2,781,798.
- McGovern, Bernard J., Skoli, and Witt. 2,790,629.
- Moklebust, Olav, to National Lead Co. Process for production of metallic iron concentrates and titanium dioxide concentrates from ores containing ilmenite. 2,778,724, 1-22-57, Cl. 75-30.
- Moklebust, Olav, to National Lead Co. Process for treating ilmenite-containing materials to produce metallic iron concentrates and titanium dioxide concentrates. 2,811,434, 10-29-57, Cl. 75-30.
- Moldenhauer, August J., ½ to J. H. Bruninga. Process and apparatus for comminuting fodder. 2,793,119, 5-21-57, Cl. 99-8.
- Mole, M., & Son Ltd.: See—
Coughtrie, Thomas R. 2,799,195.
- Moleman, Pieter F., and J. P. Beyersbergen, to Hartford National Bank and Trust Co., as trustee. Transistor pulse oscillator. 2,784,315, 3-5-57, Cl. 250-36.
- Molen, Richard V.: See—
Nesbit, Robert M., and Molen. 2,794,189.
- Moler, Charles C., to Overhead Door Corp. Latch assembly. 2,816,785, 12-17-57, Cl. 292-143.
- Moles, Leslie, to Hughes Aircraft Co. Continuous fusion furnace. 2,788,432, 4-9-57, Cl. 219-85.
- Moles, Leslie, to Hughes Aircraft Co. Means for vapor deposition of metals. 2,812,411, 11-5-57, Cl. 219-19.
- Moles, Leslie, to Hughes Aircraft Co. Method for producing evaporation fused junction semiconductor devices. 2,802,759, 8-13-57, Cl. 148-15.
- Molinari, Everett, ½ to J. S. Burger. Writing desk for truck vehicles. 2,799,967, 7-23-57, Cl. 45-58.
- Molinari, Henry G., to Becton Dickinson and Co. Hypodermic syringe and barrel blank. Re. 24,322, 5-28-57, Cl. 128-218.
- Molinari, Henry G., to Becton Dickinson and Co. Hypodermic syringe and barrel blank. 2,776,661, 1-8-57, Cl. 128-218.
- Moline Machine Co., Ltd.: See—
Williams, Harry. 2,790,087.
- Moline Tool Co.: See—
Eipper, Daniel C., and Weber. 2,775,821.
- Molinini, Louis J.: See—
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- Molins, Desmond W., to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 2,798,495, 7-9-57, Cl. 131-94.
- Molins, Desmond W., to Molins Machine Co. Ltd. Machines for manipulating cut tobacco. 2,809,638, 10-15-57, Cl. 131-21.
- Molins, Desmond W., F. Pocock, and S. R. Hopkins. Apparatus to remove ejected shells from turret. 2,779,243, 1-29-57, Cl. 89-33.
- Molins, Desmond W., and J. A. Mason, to Molins Machine Co. Ltd. Tobacco-cutting machinery. 2,791,223, 5-7-57, Cl. 131-145.
- Molins, Desmond W., G. Smith, J. A. Mason, and F. F. Ruau, to Molins Machine Co., Ltd. Grinder for the knives of tobacco cutting machines. 2,798,346, 7-9-57, Cl. 51-247.
- Molins, Desmond W., and G. F. W. Powell, to Molins Machine Co., Ltd. Machines for manipulating cut tobacco. 2,800,131, 7-23-57, Cl. 131-21.
- Molins, Desmond W., and G. F. W. Powell, to Molins Machine Co. Ltd. Machines for manipulating cut tobacco. 2,815,759, 12-10-57, Cl. 131-21.
- Molins Machine Co. Ltd.: See—
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- Molins, Desmond W. 2,798,495.
- Molins, Desmond W. 2,809,638.
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- Molins, Desmond W., and Powell. 2,800,131.
- Molins, Desmond W., and Powell. 2,815,759.
- Molins, Desmond W., Smith, Mason, and Ruau. 2,798,346.
- Osborn, Howard, and Rowlands. 2,809,832.
- Rowlands, Tom. 2,791,125.
- Rowlands, Tom, and Osborn. 2,808,261.
- Molitor, Arvid A. Indexing device. 2,795,973, 6-18-57, Cl. 74-822.
- Molke, Eric C. Wide span structures. 2,783,721, 3-5-57, Cl. 108-1.
- Moll, John L., to The Ohio State University Research Foundation. Isolation of radio frequency losses in oscillator and wave guide systems. 2,807,745, 9-24-57, Cl. 315-522.
- Molla, Charles P. Metal plate corner posts and table top retainer. 2,799,400, 7-16-57, Cl. 211-135.
- Molla, Pietro, to S. A. F. F. A.-S. p. A. Fabbrie Fiammiferi ed Affini. Automatic machine for cutting to size from a roll of corrugated and double corrugated paper, smooth cardboard or other similar materials. 2,782,852, 2-26-57, Cl. 164-62.
- Molla, Pietro, to Società per Azioni Fabbrie Fiammiferi ed Affini. Machine for manufacturing formed paper. 2,814,332, 11-26-57, Cl. 154-30.
- Moller, Clifford B. Force pump for slurries. 2,785,638, 3-19-57, Cl. 103-150.
- Mollenberg, Leroy, to General Electric Co. Combination fan and centrifugal mechanism for electric motor. 2,811,656, 10-29-57, Cl. 310-60.
- Mollenberg, Leroy, to General Electric Co. Means for securing a capacitor in a dynamoelectric machine housing. 2,811,657, 10-29-57, Cl. 310-72.
- Molloy, Everett W.: See—
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- Molling, Gilman E. Method of producing a composite liquid bituminous binder. 2,783,162, 2-26-57, Cl. 106-278.
- Molling, Gilman E. Road making and the like. 2,783,163, 2-26-57, Cl. 106-280.
- Molnar, Albert S. Multiple pick hammer. 2,778,256, 1-22-57, Cl. 81-15.
- Molnar, Imre, to General Telephone Laboratories, Inc. Traffic supervisory arrangements in telephone systems. 2,796,466, 6-18-57, Cl. 179-27.
- Molnar, Julius P.: See—
Glass, Myron S., Molnar, Och, and Thatcher. 2,810,830.
- Molnar, Julius P., and C. R. Moster, to Bell Telephone Laboratories, Inc. Traveling wave type electron discharge devices. 2,797,353, 6-25-57, Cl. 315-35.
- Molnar, William R., to General Electric Co. Clothes washing machine. 2,807,949, 10-1-57, Cl. 68-18.
- Moloney Electric Co.: See—
Duenke, Clarence G. 2,804,600.
- Steitz, George. 2,811,217.
- Moloney, Raymond T.: See—
Breitenstein, Charles T. 2,800,650.
- Hooker, Donald E. 2,777,907.
- Nicolaus, Frank G. 2,800,212.
- Nicolaus, Frank G. 2,800,637.
- Nicolaus, Frank G. 2,818,481.
- Pearl, Donald C. 2,818,213.
- Russell, Obed M., and Breitenstein. 2,804,763.
- Troeller, Charles G., Hampel, Eckstein, and Nicolaus. 2,805,379.
- Molotsky, Hyman M., to Velsicol Chemical Corp. Production of a,a,a,2,3,4-hexachlorotoluene. 2,804,483, 8-27-57, Cl. 260-651.
- Molotsky, Hyman M., and E. G. Ballweber, to Velsicol Chemical Corp. Production of halogenated compounds. 2,795,608, 6-11-57, Cl. 260-539.
- Molotsky, Hyman M., and E. G. Ballweber, to Velsicol Chemical Corp. Production of halogenated compounds. 2,807,579, 9-24-57, Cl. 204-158.
- Moltane, David P. Playpen. 2,784,420, 3-12-57, Cl. 5-98.
- Molter, Ruth V. Combined ironing board and carrying case for iron. 2,785,484, 3-19-57, Cl. 38-112.
- Molybdenum Corp. of America: See—
Tisdale, Norman F., and N. F. Tisdale, Jr. 2,799,575.
- Molyneux, Harold G., to Siemens Edison Swan Ltd. Electric discharge lamps. 2,811,671, 10-29-57, Cl. 315-49.

- Momb, Alvin K. Fishing lure. 2,778,145, 1-22-57, Cl. 43-42.51.
- Momberg, James W., to The Singer Mfg. Co. Top-controlled oscillation mechanisms for electric fans. 2,791,122, 5-7-57, Cl. 74-25.
- Momberg, James W., to The Singer Mfg. Co. Streamlined composite gear housings and end-covers for electric oscillating fans. 2,814,747, 11-26-57, Cl. 310-258.
- Monaco, Anthony L.: *See*—
Seifter, Joseph, Monaco, and Hoover. 2,799,619.
- Monaco, Foster, A. S. Valente, and M. Zerilli, to Mastercraft Plastics Co., Inc. Enclosed bassinet. 2,800,894, 7-30-57, Cl. 128-1.02.
- Monaco, Gabriel R.: *See*—
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- Monaco, George C. Method and apparatus for making a comestible. 2,811,117, 10-29-57, Cl. 107-1.
- Monaghan, J. J., Co., Inc.: *See*—
Haverland, William H. 2,816,540.
- Polzin, Marvin H., Geer, and Fowler. 2,780,222.
- Monahan, Jack J., to Western Electric Co., Inc. Plating rack. 2,801,965, 8-6-57, Cl. 204-297.
- Monahan, John C. Flow equalizer. 2,781,771, 2-19-57, Cl. 137-101.
- Monahan, John C. Expandable guard for shaft seals. 2,797,945, 7-2-57, Cl. 288-2.
- Monahan, Patrick B. Non-spillable bottle. 2,801,015, 7-30-57, Cl. 215-1.
- Monarch Aluminum Mfg. Co.: *See*—
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- Monarch Electric Corp.: *See*—
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- Monarch Equipment Corp.: *See*—
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- Monarch Logging Co., Inc.: *See*—
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- Monarch Machine Tool Co. The: *See*—
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Greene, Claude E., and Sturm. 2,781,684.
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Sassen, Bernard. 2,791,885.
Sassen, Bernard, and Guschling. 2,782,651.
- Monckmeier, Gustav C. Coupler with a pair of pivoted jaws and automatic latching means. 2,798,741, 7-9-57, Cl. 280-504.
- Moncrieff, Alexander D. F., to Michigan Tool Co. Loading mechanism. 2,778,279, 1-22-57, Cl. 90-1.6.
- Moncrieff, Leslie J., to British Celanese Ltd. Covering. 2,782,459, 2-26-57, Cl. 18-1.
- Moncrieff, Leslie J., to British Celanese Ltd. Method of embossing thermoplastic fabrics. 2,814,077, 11-20-57, Cl. 18-56.
- Moncrieff-Yeates, Alexander J., and M. L. Sugarman, Jr., to Radio Corp. of America. Method of and means for controlling light. 2,792,752, 5-21-57, Cl. 88-61.
- Moncrieff-Yeates, Alexander J., to Radio Corp. of America. Photoconductive thermography. 2,798,959, 7-9-57, Cl. 250-65.
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- Mondale, Buford F. Bath tub air vent. 2,807,027, 9-24-57, Cl. 4-179.
- Mondolfo, Lucio F., to The Illinois Institute of Technology. Method for producing easily oxidized high melting point metals and their alloys. 2,803,536, 8-20-57, Cl. 75-63.
- Mondria, Hendrik, J. W. Ruwhof, and E. Sweep, to Shell Development Co. Separating solid hydrocarbons from mixtures thereof with oils. 2,791,539, 5-7-57, Cl. 196-18.
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- Mondry, Leo, to Sectional Flooring Corp. Flooring. 2,807,057, 9-24-57, Cl. 20-7.
- Money, John W., to The Quaker Oats Co. Crumbles adaptor for pellet machine. 2,778,323, 1-22-57, Cl. 107-14.
- Monforts, A.: *See*—
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- Mongar, John L.: *See*—
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- Mongello, Thomas, to the United States of America as represented by the Secretary of the Navy. Subcaliber mortar trainer shell. 2,801,586, 8-6-57, Cl. 102-49.
- Mongello, Thomas, to the United States of America as represented by the Secretary of the Navy. Target elevating mechanism. 2,805,066, 9-3-57, Cl. 273-105.6.
- Mongiello, Angelo A., and Z. Bilous, said Bilous assor. to said Mongiello. Machine for forming cheese balls of uniform weight and shape. 2,803,878, 8-27-57, Cl. 31-7.
- Mongin, Georges P.: *See*—
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- Monide, Inc.: *See*—
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- Monitor Dispenser Co., Inc.: *See*—
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- Monjonniere, Albert B. Method of filling preformed fiber cartons. 2,811,817, 11-5-57, Cl. 53-37.
- Monk, Clarence B., J. R. Alsterda, J. E. Young, and P. V. Johnson, to Structural Clay Products Research Foundation. Device for making structural clay tile panels. 2,777,184, 1-15-57, Cl. 25-1.
- Monkemeyer, Karl: *See*—
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- Monkley, Edward H. Apparatus for varying the torque and speed of a driven shaft. 2,791,895, 5-14-57, Cl. 64-30.
- Monkowski, Henry V., to United States Steel Corp. Furnace with radiant tube therein. 2,791,997, 5-14-57, Cl. 126-91.
- Monkowski, Henry V., to United States Steel Corp. Method of resurfacing worn machine parts. 2,798,269, 7-9-57, Cl. 22-200.
- Monks, Frank E., to Fuller Label & Box Co. Neckband forming machine. 2,777,369, 1-15-57, Cl. 93-79.
- Monnier, Paul: *See*—
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- Monolith Portland Midwest Co.: *See*—
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- Monotype Corp. Ltd., The: *See*—
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- Monro, Randolph. Protective hood. 2,800,901, 7-30-57, Cl. 128-141.
- Monroe Bag Valve Corp.: *See*—
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- Monroe, Benjamin F., and J. W. Lucas, to Hardman Tool & Engineering Co. Folding service tray. 2,805,904, 9-10-57, Cl. 311-21.
- Monroe Calculating Machine Co.: *See*—
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- Monroe, Carl M., W. E. Rader, and W. J. Raab, to Shell Development Co. 2-alkyl-3,4,5,6-tetrahydropyrimidine, nitrate and fungicidal composition thereof. 2,802,770, 8-13-57, Cl. 167-33.
- Monroe, Charles Z., and D. German, to Ex-Cell-O Corp. Closure flap manipulating mechanism for carton filling machine. 2,780,900, 2-12-57, Cl. 53-284.
- Monroe, Charles Z., and N. G. Raymond, to Ex-Cell-O Corp. Web control for carton converting machine. 2,798,582, 7-9-57, Cl. 192-127.
- Monroe, Roger F.: *See*—
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- Monroe, Roger F., and A. W. Anderson, to The Dow Chemical Co. 1-ethynyl-cyclohexyloxyalkanois. 2,802,878, 8-13-57, Cl. 260-611.
- Monroe, Roger F., F. J. Lowes, and J. F. Mulloy, to The Dow Chemical Co. Method for retarding the premature polymerization of polymerizable vinylidene compounds. 2,805,190, 9-3-57, Cl. 202-57.
- Monroe, Roger F., and F. J. Lowes, to The Dow Chemical Co. α -ethynyl-2,4,6-trimethyl-3-cyclohexene-1-methanol. 2,806,067, 9-10-57, Cl. 260-617.
- Monroe, Rollo O., to The Johnson Corp. Rotary self-supporting pressure joint. 2,791,449, 5-7-57, Cl. 285-134.
- Monsanto Canada Ltd.: *See*—
Garmaise, David L., and McKay. 2,792,404.
McKay, Arthur F., Braun, and Paris. 2,816,896.
McKay, Arthur F., and Garmaise. 2,782,205.
- Monsanto Chemical Co.: *See*—
Alexander, John R. 2,792,284.
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Barrett, Gerald R. 2,812,317.
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Birum, Gail H. 2,809,912.
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 Chapin, Earl C. 2,803,622.
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 Cummings, Howard D. 2,806,861.
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 D'Amico, John J. 2,776,976.
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 Fincke, John K. 2,802,035.
 Fordham, James W. L. 2,804,443.
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 Fraser, George L. 2,817,614.
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 Freerks, Marshall C., and Speziale. 2,812,352.
 Freifeld, Milton, and Keeney. 2,817,115.
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 Hamm, Philip C. 2,805,927.
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 Harris, Alva F. 2,808,348.
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 Harris, James O., and Tung. 2,794,020.
 Harris, James O., and Vaughn. 2,792,422.
 Harris, Jay C. 2,799,583.
 Hatton, Roger E., and Lasslo. 2,780,642.
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 Kosmin, Milton. 2,785,968.
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 Kosolapoff, Gennady M. 2,795,566.
 Krase, Herbert J., and Dye. 2,786,075.
 Kyrides, Lucas P., Meyer, and Zienty. 2,776,980.
 Laurie, William A. 2,804,442.
 Lection, Frank J. 2,793,105.
 Leeper, Harold M. 2,806,833.
 Lobdell, Alban J. 2,776,286.
 Marshall, William W. 2,790,014.
 Maute, Robert L. 2,784,217.
 McDonald, David W. 2,784,216.
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 Merz, Edmund H. 2,806,812.
 Miller, Robert E. 2,809,998.
 Montgomery, Phillip D. 2,816,129.
 Morse, Roy E. 2,792,308.
 Mowry, David T., and Schlesinger. 2,786,071.
 Neville, Richard P., and Palmer. 2,816,076.
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 Nickerson, Ralph F. 2,799,914.
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 Ott, John B. 2,806,822.
 Park, Harold F. 2,796,437.
 Prill, Erhard J. 2,802,032.
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 Quinn, John F., and Osuch. 2,812,238.
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 Reetz, Theodor. 2,799,365.
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 Richard, William R., Jr. 2,777,833.
 Rider, Stuart H., Anas, and Fraser. 2,816,865.
 Rossin, Elmer H. 2,795,513.
 Rossin, Elmer H., and Scott. 2,816,004.
 Roth, Murray H. 2,816,827.
 Ruehrwein, Robert A. 2,795,567.
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 Russell, Cecil H. 2,796,324.
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 Scott, Milton J., and Peacock. 2,806,020.
 Seaton, William H. 2,782,230.
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 Shumard, Roland S. 2,795,554.
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 Slocombe, Robert J. 2,784,169.
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 Sullivan, James D. 2,777,002.
 Taylor, Keith M. 2,813,901.
 Terpstra, Marrine A. 2,783,265.
 Terpstra, Marrine A. 2,817,681.
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 Thompson, Quentin E. 2,803,653.
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 Underwood, William M. 2,813,301.
 Wade, William W. 2,796,333.
 Walker, Harry M. 2,816,100.
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 Weeks, Lloyd E. 2,802,303.
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 Wildi, Bernard S., and Altwicker. 2,813,879.
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Dodgson, Douglas P. 2,799,693.
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 Monsarrar, Nicholas, to Fram Corp. Flocked filter media. 2,782,933, 2-26-57, Cl. 210-169.
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- Montagna, Amelio E.: *See*—
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- Montaine, Herbert A.: Head for folding machine. 2,813,284, 11-19-57, Cl. 12-55.
- Montalto, James J.: Room signal for visibly indicating information. 2,798,320, 7-9-57, Cl. 40-67.
- Montanaro, Vincent X.: Removable handles for receptacles. 2,806,732, 9-17-57, Cl. 294-33.
- Montavon, Marc: *See*—
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- Isler, Otto, Lindlar, Montavon, Ruegg, and Zeller. 2,806,885.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,779,792.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,779,793.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,780,651.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,789,127.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,799,709.
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- Montehausse, Andre J., and D. Dautry, to International Standard Electric Corp.: Regulating device for electrical switching equipment. 2,799,754, 7-16-57, Cl. 200-166.
- Montclair Research Corp.: *See*—
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- Rust, John B., and Spialter. 2,813,839.
- Montecatini Società Generale per l'Industria Mineraria e Chimica: *See*—
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- Guidi, Ettore. 2,803,311.
- Marullo, Gerlando. 2,799,630.
- Marullo, Gerlando, and Mazzetti. 2,812,829.
- Marullo, Gerlando, Maffezzoni, and Agamennone. 2,796,426.
- Natta, Giulio. 2,791,290.
- Natta, Giulio, Pino, and Ercoli. 2,805,245.
- Paleari, Luigi, and Negromanti. 2,804,478.
- Montecatini, Società Generale per l'Industria Mineraria e Chimica-Milan: *See*—
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- Montefalco, Jack M., and M. J. West, to The B. F. Goodrich Co.: Side position regulating apparatus. 2,786,675, 3-26-57, Cl. 271-2-6.
- Monteleone, John D.: Solution catching device. 2,810,389, 10-22-57, Cl. 132-9.
- Montella, Angelo R.: *See*—
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- Monterman, William A., to International Minerals & Chemical Corp.: Printing ink with anti-skinning agent. 2,798,000, 7-2-57, Cl. 106-24.
- Montgomery, Charles W.: *See*—
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- Horne, William A., and Montgomery. 2,801,208.
- Montgomery, Clarence G., to G. C. Graham, F. Pannizzo, and I. J. Kunik: Program timers. 2,790,862, 4-30-57, Cl. 200-37.
- Montgomery, Donald H., and C. D. Pulsifer, to The New Britain Machine Co.: Stock support. 2,791,321, 5-7-57, Cl. 203-60.
- Montgomery, Duncan B., to Blaw-Knox Co.: Method of drying viscous fluids which form films of varying thickness on revolving, heated drums. 2,811,200, 10-29-57, Cl. 159-49.
- Montgomery, Elmer I., and H. G. Obendorf: Damp air auto cooler. 2,796,014, 6-18-57, Cl. 98-2.
- Montgomery, George E., to Phillips Petroleum Co.: Slidable jaw adapter for wrench. 2,787,181, 4-2-57, Cl. 81-179.
- Montgomery, Henry S.: Elevator bucket. 2,789,684, 4-23-57, Cl. 198-152.
- Montgomery, Horace M., and E. M. Smith, to Gorman-Rupp Industries, Inc.: Transfer valve. 2,788,014, 4-9-57, Cl. 137-122.
- Montgomery, Jack E.: *See*—
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- Montgomery, Jack L., to Lockheed Aircraft Corp.: Frangible jackets for missiles, and the like. 2,802,396, 8-13-57, Cl. 89-1-5.
- Montgomery, James B.: *See*—
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- Montgomery, James L., to the United States of America as represented by the Secretary of the Navy: Servo systems. 2,781,482, 2-12-57, Cl. 318-29.
- Montgomery, James L.: Potentiometer. 2,797,286, 6-25-57, Cl. 201-56.
- Montgomery, James L.: Accelerometer. 2,797,911, 7-2-57, Cl. 264-1.
- Montgomery, James P., Jr., to Westinghouse Electric Corp.: Regulating apparatus. 2,788,479, 4-9-57, Cl. 318-146.
- Montgomery, James P., Jr., D. A. Powpsel, and W. M. Brittain, to Westinghouse Electric Corp.: Amplifier apparatus for motor control. 2,795,751, 6-11-57, Cl. 318-323.
- Montgomery, James W., Sr.: Fish stringer. 2,788,165, 4-9-57, Cl. 224-7.
- Montgomery, John A.: *See*—
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- Montgomery, John C.: *See*—
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- Montgomery, John C., to The Hoover Co.: Anti-chattering air supported cleaner. 2,814,064, 11-26-57, Cl. 15-326.
- Montgomery, John R., to American Totalisator Co., Inc.: Anti-jumper for ticket printing and issuing machine. 2,783,706, 3-5-57, Cl. 101-66.
- Montgomery, John R., to American Totalisator Co., Inc.: Anti-jammer for ticket printing and issuing machine. 2,783,707, 3-5-57, Cl. 101-66.
- Montgomery, L. Robert: *See*—
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- Montgomery, Lancelot R., $\frac{1}{2}$ to L. R. Montgomery: Veterinarian mouth speculum. 2,775,965, 1-1-57, Cl. 128-19.
- Montgomery, Maxson H.: Punting block for football shoes. 2,796,684, 6-25-57, Cl. 36-2-5.
- Montgomery, Phillip D., to Monsanto Chemical Co.: Process for the production of tris(β -cyanoethyl)-amine. 2,816,129, 12-10-57, Cl. 260-465.5.
- Montgomery, Richard F., and N. L. H. Koot: Self-propelled borehole logging. 2,776,564, 1-8-57, Cl. 73-151.
- Montgomery, Robert N.: *See*—
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- Montgomery, Robert S., to The Dow Chemical Co.: Method of making cinnamic acid and salts thereof, 2,802,869, 8-13-57, Cl. 260-515.
- Montgomery, William G., and S. A. Huffman: said Huffman assor. to said Montgomery. Flat bed and cylinder printing press. 2,790,383, 4-30-57, Cl. 101-191.
- Montgomery, William J.: Carton holder. 2,782,064, 2-19-57, Cl. 294-31-2.
- Montgomery, William T. S.: Apparatus for reducing the oversized material in the suction line of a dredge. 2,804,272, 8-27-57, Cl. 241-81.
- Montguire, David M.: Connection facilitating and adjustable draft device. 2,798,740, 7-9-57, Cl. 280-477.
- Monti, Gaudenzio: Royal coffee making spoon. 2,810,958, 10-29-57, Cl. 30-327.
- Monticello Mfg. Corp.: *See*—
Hoose, Francis D. 2,803,477.
- Montijo, Ralph E., Jr., to Radio Corp. of America: Web feeding mechanism. 2,788,209, 4-9-57, Cl. 271-2-3.
- Montminy, Alcide J.: Athletic field marker. 2,803,382, 8-20-57, Cl. 222-171.
- Montooth, George A., to The Brunswick-Balke-Collender Co.: Pin pickup apparatus. 2,788,212, 4-9-57, Cl. 273-42.
- Montooth, George A., to The Brunswick-Balke-Collender Co.: Bowling pin handling mechanism. 2,817,527, 12-24-57, Cl. 273-42.
- Montooth, George A., to The Brunswick-Balke-Collender Co.: Pinsetting machines. 2,817,529, 12-24-57, Cl. 273-43.
- Montooth, George A., and A. M. Bowen, to The Brunswick-Balke-Collender Co.: Bowling ball delivery mechanism. 2,809,037, 10-8-57, Cl. 273-49.
- Montosuro, Joseph: Shoe construction. 2,814,132, 11-26-57, Cl. 36-37.
- Montrose-Oster, Louis E. W., to Pollopat Patents Ltd.: Electric motor driving arrangement. 2,806,191, 9-10-57, Cl. 318-8.
- Moody, William C., to Calculagraph Co.: Time and date printing mechanism. 2,796,315, 6-18-57, Cl. 346-59.
- Moody, William C., Sr., to Control Products, Inc.: Three wire thermal switch. 2,814,694, 11-26-57, Cl. 200-137.
- Moody, Arthur M. G., to The Trane Co.: Refrigerating apparatus with motor driven centrifugal compressor. 2,793,506, 5-28-57, Cl. 62-117.6.
- Moody, Arthur M. G., to The Trane Co.: Centrifugal compressor and method of controlling the same. 2,817,475, 12-24-57, Cl. 230-114.
- Moody, John L., and B. P. Silverman, to Friden Calculating Machine Co., Inc.: Multiple voltage electric motor. 2,807,766, 9-24-57, Cl. 318-252.
- Moody, Lawrence C., to Texas Longhorn Boat Mfg. Co., Inc.: Retractable wheel assembly for boats. 2,781,529, 2-19-57, Cl. 9-1.
- Moody, Norman F., to the United States of America as represented by the United States Atomic Energy Commission: Trigger circuit. 2,797,319, 6-25-57, Cl. 250-27.
- Moon, Carl: Wringer. 2,778,214, 1-22-57, Cl. 68-263.
- Moon, Clifford G., and A. A. Lafete, to Draper Corp.: Picker check. 2,796,086, 6-18-57, Cl. 139-165.
- Moon, Clifford G., J. M. Budzyna, and R. Mucciarone, to Draper Corp.: Picker check. 2,796,087, 6-18-57, Cl. 139-165.
- Moon, Donald P.: *See*—
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- Moon, James, to Signal Oil and Gas Co.: Borehole electrodes. 2,779,915, 1-29-57, Cl. 324-10.
- Moon, Sterling C., to The Jeffrey Mfg. Co.: Continuous mining machine having a laterally movable mining head. 2,793,848, 5-28-57, Cl. 262-7.
- Moon, Sterling C., to The Colmol Co.: Self-contained mobile power driven conveyer system. 2,799,386, 7-16-57, Cl. 198-92.
- Mooney, Arthur G.: Expendable pallet. 2,798,685, 7-9-57, Cl. 248-120.
- Mooney, James E., Jr., $\frac{1}{2}$ to S. F. Wooley: Pony tail holder for ladies' hair. 2,796,069, 6-18-57, Cl. 132-46.
- Mooney, Lewis H.: Fishing pole holder. 2,784,517, 3-12-57, Cl. 43-16.
- Moore, Arnold R., to Radio Corp. of America: Semiconductor. 2,811,653, 10-29-57, Cl. 307-88.5.
- Moore, Arthur H., to The Bridgeport Metal Goods Mfg. Co.: Torch head safety flash light. 2,817,754, 12-24-57, Cl. 240-10.66.
- Moore, Arthur J., M. D. Hopkins, and A. B. Johnson, to Houdaille Industries, Inc.: Plural motor control circuit adapted for evaporator forming machine. 2,807,936, 10-1-57, Cl. 60-97.

- Moore, Arthur R. Cervical collar. 2,801,630, 8-6-57, Cl. 128-75.
- Moore, Aubrey. Valve control mechanism for pumping systems. 2,788,797, 4-16-57, Cl. 137-455.
- Moore, Bailey W.: See—
- Batson, Oscar R., Moore, and Christie. 2,776,657.
- Moore, Benjamin T., and R. T. McAllister. Dispensing apparatus. 2,786,607, 3-26-57, Cl. 222-183.
- Moore, Bernard D. Universal head for a camera tripod. 2,802,633, 8-13-57, Cl. 248-179.
- Moore, Bruce D. Car washer. 2,793,379, 5-28-57, Cl. 15-129.
- Moore Business Forms, Inc.: See—
- Hageman, Louis F., and Mabon. 2,778,424.
- Sornberger, George E. 2,805,855.
- Willard, Robert P. 2,796,260.
- Moore, Carl E. Polynitrophenols. 2,798,793, 7-9-57, Cl. 23-230.
- Moore, Charles B., and H. I. Franklin. Fuel charging device for a tractor tank trailer. 2,777,606, 1-15-57, Cl. 222-26.
- Moore, Charles B., and H. I. Franklin. Fuel charging device for a tractor tank. 2,794,573, 6-4-57, Cl. 222-26.
- Moore, Charles D.: See—
- Platner, John B., and Moore. 2,791,205.
- Moore, Charles H., Jr., and R. Dahlstrom, to National Lead Co. Synthetic rutile crystal and method for making same. 2,792,287, 5-14-57, Cl. 23-202.
- Moore, Chester F. Blank cartridge adapter for rifles. 2,805,602, 9-10-57, Cl. 89-14.
- Moore, Clarence C. Semi-portable device to darken rooms. 2,786,519, 3-26-57, Cl. 160-87.
- Moore, David P. Pile fabric knitting machine. 2,779,176, 1-29-57, Cl. 66-9.
- Moore, David P. Fishing tackles. 2,803,083, 8-20-57, Cl. 43-44.93.
- Moore, David P. Method of making knitted fur fabric. 2,805,564, 9-10-57, Cl. 66-194.
- Moore Dry Kiln Co.: See—
- Beckley, Arthur H. 2,799,381.
- Haumann, George. 2,784,784.
- Moore, Edmund W., to General Railway Signal Co. Searchlight signals. 2,790,154, 4-23-57, Cl. 340-50.
- Moore, Edward B.: See—
- Davis, Richard C., and Moore. 2,802,099.
- Moore, Edward B., and A. Stack, to Vapor Heating Corp. Temperature selector switch. 2,794,103, 5-28-57, Cl. 201-55.
- Moore, Edward F., and C. E. Shannon, to Bell Telephone Laboratories, Inc. Electrical circuit analyzer. 2,776,405, 1-1-57, Cl. 324-73.
- Moore, Eldon B., and E. S. Nachtman, to La Salle Steel Co. Method of coating steel and product thereof. 2,788,301, 4-9-57, Cl. 148-4.
- Moore, Ezra L., and C. E. Smith, to Arvin Industries, Inc. Reclining chaise longue. 2,776,704, 1-8-57, Cl. 155-117.
- Moore, Ezra L., and C. E. Smith, to Arvin Industries, Inc. Folding chair. 2,787,316, 4-2-57, Cl. 155-143.
- Moore Fabrics, Inc.: See—
- Moore, John V. 2,788,026.
- Moore, Frank L., to The Gray Mfg. Co. Sound translating apparatus. 2,808,268, 10-1-57, Cl. 274-13.
- Moore, Fred W., to General Electric Co. Stopper assembly. 2,787,423, 4-2-57, Cl. 241-100.5.
- Moore, Fred W., to Millers Falls Co. Orbital sander. 2,796,704, 6-25-57, Cl. 51-170.
- Moore, George A. Apparatus for curling containers. 2,778,287, 1-22-57, Cl. 93-36.5.
- Moore, George A. Unitary container. 2,778,557, 1-22-57, Cl. 229-16.
- Moore, George A. Portable resilient closure for container. 2,787,410, 4-2-57, Cl. 229-43.
- Moore, George A. Telescopic container. 2,790,589, 4-30-57, Cl. 229-19.
- Moore, George C., Co.: See—
- Siliciano, Samuel F. 2,804,100.
- Moore, George E., and F. M. Cooper, to General Electric Co. Propellant system. 2,791,883, 5-14-57, Cl. 60-35.6.
- Moore, George L., to Air Reduction Co. Triorganoethynyl fluorosilanes. 2,802,851, 8-13-57, Cl. 260-448.2.
- Moore, Goodloe E. Insulation hanger. 2,793,887, 5-28-57, Cl. 287-20.5.
- Moore-Handley Hardware Co., Inc.: See—
- Shaw, Willie J. 2,811,386.
- Moore, Harry. Game or puzzle. 2,807,471, 9-24-57, Cl. 273-155.
- Moore, Harry O., to Silabert Corp. Automatic can opener. 2,779,096, 1-29-57, Cl. 30-4.
- Moore, Harry W.: See—
- Biddison, John M. 2,808,640.
- Biddison, John M. 2,809,141.
- Moore, Howard N. Individual packaging machine. 2,808,691, 10-8-57, Cl. 53-194.
- Moore, Howard R. Method of coating ferrous metal surface and composition therefor. 2,784,124, 3-5-57, Cl. 148-6.15.
- Moore, Ira H. Trench cribbing. 2,796,738, 6-25-57, Cl. 61-41.
- Moore, James A., and E. L. Wittle, to Parke, Davis & Co. Pantethine inhibitors. 2,807,644, 9-24-57, Cl. 260-561.
- Moore, James F., and F. B. Hansen. Bingo boards. 2,778,642, 1-22-57, Cl. 273-135.
- Moore, James H., to National Research Corp. Production of metals. 2,776,204, 1-1-57, Cl. 75-49.
- Moore, James H., to National Research Corp. Nickel-base alloy. 2,805,154, 9-3-57, Cl. 75-171.
- Moore, James H., to National Research Corp. Process for producing stainless steel and alloy thereof. 2,815,273, 12-3-57, Cl. 75-49.
- Moore, James H., P. J. Clough, and A. E. Franks, to National Research Corp. Process of preparing high purity nickel. 2,815,279, 12-3-57, Cl. 75-82.
- Moore, James T. Artificial lure and hook retriever. 2,779,120, 1-29-57, Cl. 43-17.2.
- Moore, Jerrell O. Fountain comb. 2,794,443, 6-4-57, Cl. 132-113.
- Moore, John R. Clothes drying device. 2,778,551, 1-22-57, Cl. 223-68.
- Moore, John V., to Moore Fabrics, Inc. Woven elastic fabric. 2,788,026, 4-9-57, Cl. 139-421.
- Moore, Joseph A. Garment hanger. 2,802,577, 8-13-57, Cl. 211-96.
- Moore, Lee C., Corp.: See—
- Campbell, Erwin A. 2,787,385.
- Jenkins, Cecil, and Turner. 2,787,342.
- Woolslayer, Homer J., Iddings, Jenkins, and Campbell. 2,780,325.
- Woolslayer, Homer J., Iddings, Borg, and Jenkins. 2,780,326.
- Woolslayer, Homer J., Jenkins, and Campbell. 2,804,948.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,339.
- Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,804,949.
- Woolslayer, Homer J., Turner, Turner, and Campbell. 2,787,344.
- Moore, Louis D.: See—
- Schulken, Roger M., Jr., and Moore. 2,816,088.
- Moore, Marietta T., to Di-Cel Corp. Package trays. 2,797,855, 7-2-57, Cl. 229-42.
- Moore, Marjorie B., to Abbott Laboratories. Dichlorobenzoyl-ethylenediamine. 2,785,200, 3-12-57, Cl. 260-558.
- Moore, Marjorie B., and M. R. Vernsten, to Abbott Laboratories. Morpholino alkyl ethers of hydroxybenzoic acid esters. 2,810,719, 10-22-57, Cl. 260-247.2.
- Moore, Meade F., and W. Christensen, to American Motors Corp. Air conditioning system. 2,789,794, 4-23-57, Cl. 257-7.
- Moore, Meade F., and W. Christensen, to American Motors Corp. Air conditioning apparatus. 2,796,820, 6-25-57, Cl. 98-2.
- Moore & Munger: See—
- Padgett, John W. 2,783,161.
- Moore, Nelson C. Lumber tallying devices. 2,791,839, 5-14-57, Cl. 33-169.
- Moore, Norman C., to The Plessey Co. Ltd. Process for producing metal ceramic compositions. 2,785,974, 3-19-57, Cl. 75-206.
- Moore, Norman C., to The Plessey Co. Ltd. Sparking plug assemblies and other spark discharge devices. 2,803,771, 8-20-57, Cl. 313-130.
- Moore, Pernel J., to National Lead Co. Gas extracting apparatus. 2,792,072, 5-14-57, Cl. 183-2.5.
- Moore Products Co.: See—
- Clements, Thomas W. 2,811,138.
- Kirk, David B. 2,801,473.
- Mackenzie, Elbert K., and Eisenhardt. 2,817,318.
- Moore, Ralph G. D., to General Aniline & Film Corp. Rosin derivatives of diazonaphthol- and diazo-phenol-sulfonamides. 2,797,213, 6-25-57, Cl. 260-141.
- Moore, Raymond J. F. Hydraulic power transmission systems. 2,804,016, 8-27-57, Cl. 103-3.
- Moore, Raymond L., H. T. Markley, and J. J. Baker. Method of vegetable tanning completely delimed hides. 2,804,367, 8-27-57, Cl. 8-94.17.
- Moore, Raymond P., Jr., to Radio Corp. of America. Stabilized semi-conductor oscillator circuits. 2,791,693, 5-7-57, Cl. 250-36.
- Moore, Redding F., 50% to R. F. Moore, Jr. Phonograph record basket. 2,796,263, 6-18-57, Cl. 274-1.
- Moore, Redding F., Jr.: See—
- Moore, Redding F. 2,796,263.
- Moore, Richard R., to National Cylinder Gas Co. Conveyor assembly for dielectric heater. 2,807,699, 9-24-57, Cl. 219-10.69.
- Moore, Richard S. Cattle holding gate. 2,778,334, 1-22-57, Cl. 119-98.
- Moore, Robert A., to Socony Mobil Oil Co., Inc. Fuel oil composition containing combination of aliphatic and alkyl amines. 2,793,943, 5-28-57, Cl. 44-72.
- Moore, Robert B., to Phillips Petroleum Co. Control and indicating system for scrubbing gases with scrubber liquor. 2,799,851, 7-16-57, Cl. 340-237.
- Moore, Robert C., to Philco Corp. Television system employing horizontal dot interlacing. 2,801,278, 7-30-57, Cl. 178-5.4.
- Moore, Robert C., to Philco Corp. Color television camera switching system. 2,808,455, 10-1-57, Cl. 178-5.4.
- Moore, Robert D. Fishing lure. 2,783,578, 3-5-57, Cl. 43-42.16.
- Moore, Robert E., to Amana Refrigeration, Inc. Refrigerator door liquid dispenser. 2,811,021, 10-29-57, Cl. 62-89.
- Moore, Robert E., to Amana Refrigeration Inc. Freezer cabinet door construction. 2,816,331, 12-17-57, Cl. 20-35.

- Moore, Robert E., W. R. Bower, and D. F. Williams, to Amana Refrigeration, Inc. Gasket. 2,811,406, 10-29-57, Cl. 312-296.
- Moore, Robert E., F. A. Noll, and P. A. Zimmerman, to Amana Refrigeration, Inc. Cabinet shelf. 2,811,407, 10-29-57, Cl. 312-351.
- Moore, Robert F. Hay tedding machine. 2,810,253, 10-22-57, Cl. 56-372.
- Moore, Robert J., R. C. Jones, and R. E. Thorpe, to Shell Development Co. Lubricating oil compositions. 2,816,867, 12-17-57, Cl. 252-33.4.
- Moore, Robert J., R. C. Jones, and R. E. Thorpe, to Shell Development Co. Lubricating oil compositions. 2,816,868, 12-17-57, Cl. 252-42.7.
- Moore, Robert L.: *See*—
Schmidt, Harold R., and Moore. 2,792,412.
- Schulz, Wallace W., Watts, and Moore. 2,796,424.
- Moore, Samuel E. Flow control device. 2,812,772, 11-12-57, Cl. 137-202.
- Moore, Sewell T.: *See*—
Suen, Tzeng J., and Moore. 2,797,206.
- Moore, Vincent, to Curtiss-Wright Corp. Compressor flow control means. 2,781,634, 2-19-57, Cl. 60-35.6.
- Moore, Walter E., to Knapp-Monarch Co. Twin window fans. 2,787,207, 4-2-57, Cl. 98-94.
- Moore, Walter G. Illuminating device. 2,797,310, 6-25-57, Cl. 240-11.2.
- Moore, Walter L., Jr., to General Electric Co. Waste disposal apparatus. 2,782,057, 2-19-57, Cl. 285-206.
- Moore, Warren, Jr.: *See*—
Ehret, Robert J., and Moore. 2,778,942.
- Moore, Warren L. Storage facilities. 2,815,873, 12-10-57, Cl. 214-16.1.
- Moore, William C., to Welch Allyn, Inc. Surgical instrument. 2,790,437, 4-30-57, Cl. 128-2.
- Moore, William C., to Welch Allyn, Inc. Disposable speculum cover. 2,797,684, 7-2-57, Cl. 128-9.
- Moore, William C., to Welch Allyn, Inc. Flashlight construction. 2,818,499, 12-31-57, Cl. 240-10.68.
- Moore, William H., to Meehanite Metal Corp. Process for producing superior cast iron. 2,793,114, 5-21-57, Cl. 75-130.
- Moore, William L., to the United States of America as represented by the Secretary of the Air Force. Protective helmet suspension. 2,784,408, 3-12-57, Cl. 2-3.
- Moore, William W.: *See*—
Dames, Trent R., Moore, and Maloney. 2,799,552.
- Moorhead, Emily L. Hair curler. 2,781,046, 2-12-57, Cl. 132-38.
- Moorhead, John K.: *See*—
Matarese, John G., and Moorhead. 2,811,417.
- Moorhead, Milton M., Jr.: *See*—
Ballard, James W., and Moorhead. 2,787,649.
- Moorhead, Walter H. Self locking flexible grommet. 2,800,526, 7-23-57, Cl. 174-153.
- Moorman, Charles L., to Union Asbestos & Rubber Co. Apparatus for forming finned tubing. 2,779,995, 2-5-57, Cl. 29-202.
- Moos, Amanda C. Potato masher and beater. 2,785,718, 3-19-57, Cl. 146-213.
- Mooser, Alfred. Leveling device. 2,793,468, 5-28-57, Cl. 45-139.
- Moosman, Jack A., to Johnston Testers, Inc. Adjustable flow bean. 2,792,896, 5-21-57, Cl. 166-226.
- Mooz, William E.: *See*—
Couch, George R., and Mooz. 2,779,727.
- McMackin, Edward G., McMillan, Miles, and Mooz. 2,804,386.
- Mora, Anacleto, $\frac{1}{2}$ to N. Wollard and $\frac{1}{2}$ to A. Mora. Polyhydric phenol-bisulfite addition product composition and method for cold waving. 2,783,762, 3-5-57, Cl. 132-7.
- Mora, Fernando M. Retort arrangement. 2,794,774, 6-4-57, Cl. 202-117.
- Mora, Fernando M. Continuous process for producing acetone using calcium acetate liquor as starting material. 2,794,838, 6-4-57, Cl. 260-595.
- Mora, Fernando M. Continuously operating liquid tar cracking and hydrocarbons rectifying equipment. 2,813,062, 11-12-57, Cl. 202-3.
- Morain, Willard A.: *See*—
Ramsey, Robert P., and Morain. 2,815,641.
- Moral Arnaiz, Alfonso: *See*—
Ribera Casamada, Felix, Moral Arnaiz, and Ribera Llorens. 2,780,462.
- Morali, Charles. Laminated inner sole. 2,784,502, 3-12-57, Cl. 36-44.
- Moran, Clarence E., to Utility Pole Co. Metal pole structure and method. 2,808,133, 10-1-57, Cl. 189-23.
- Moran, Gerald L., to Sylvania Electric Products Inc. Lead activated calcium tungstate phosphor containing small amounts of sodium and lithium. 2,807,586, 9-24-57, Cl. 252-301.5.
- Moran, Harold J., to Switlick Parachute Co., Inc. Delayed opening parachute case. 2,778,587, 1-22-57, Cl. 244-150.
- Moran, Harold J., to Switlick Parachute Co., Inc. Parachute container. 2,780,428, 2-5-57, Cl. 244-149.
- Moran, James G. Christmas decoration. 2,806,314, 9-17-57, Cl. 41-10.
- Moran, James M., and H. K. MacKechnie, to Knapp-Monarch Co. Temperature control for electric blankets. 2,784,288, 3-5-57, Cl. 219-20.
- Moran, Joseph A. Folding material handling cart. 2,782,047, 2-19-57, Cl. 280-36.
- Moran, Joseph G., and R. E. Lucado. Fountain drawing pen. 2,780,203, 2-5-57, Cl. 120-47.
- Moran, Martin F., to Western Electric Co., Inc. Internal pitch diameter gage. 2,808,655, 10-8-57, Cl. 33-199.
- Moran, Thomas J.: *See*—
Dann, Morris, Peterson, and Moran. 2,807,923.
- Moran, William O. Draft equalizing stack head with rain guards. 2,781,716, 2-19-57, Cl. 98-58.
- Moran, William O. Positive draft controller. 2,811,095, 10-29-57, Cl. 98-62.
- Morana, Simon J., and G. F. Simons, to The Beryllium Corp. Production of beryllium fluoride. 2,804,372, 8-27-57, Cl. 23-88.
- Morand, Robert, to Exlam Societe Anonyme. Metal container and process for its manufacture. 2,791,349, 5-7-57, Cl. 220-54.
- Morandi, Federico. Spring-clamp joint for releasably securing artificial teeth. 2,808,648, 10-8-57, Cl. 32-9.
- Morano, Patrick J., to Even-Pul Foundations, Inc. Girdle. 2,805,421, 9-10-57, Cl. 2-37.
- Morano, Sam. Welder's pipe setting gauge. 2,803,883, 8-27-57, Cl. 33-174.
- Moravecky, Frank J. Dispenser for abrasive grit. 2,808,969, 10-8-57, Cl. 222-361.
- Morawski, London T.: *See*—
Parker, John J., and Morawski. 2,782,521.
- Parker, John J., and Morawski. 2,805,864.
- Parker, John J., and Morawski. 2,806,705.
- Morbeck, Robert C., and R. J. Lang, to Esso Research and Engineering Co. Hydrogenation of catalytic naphthas. 2,810,004, 10-15-57, Cl. 260-683.6.
- Mordkin, Michael: *See*—
Brooks, Clarence E., and Mordkin. 2,811,404.
- More, Philip J., to Birtman Electric Co. Rotatable polisher member. 2,779,964, 2-5-57, Cl. 15-230.
- More, Warren, Jr., and R. J. Ehret, to Minneapolis-Honeywell Regulator Co. Oscillating control apparatus. 2,778,574, 1-22-57, Cl. 236-78.
- Morehead, Chalmers, to Westinghouse Electric Corp. Mercury vapor lamp manufacture. 2,798,786, 7-9-57, Cl. 316-22.
- Morehouse, Clarence K., and R. Glicksman, to Radio Corp. of America. Primary cell. 2,809,225, 10-8-57, Cl. 136-83.
- Morehouse, Llewellyn D. Lever and spring wheel suspension for boats. 2,811,371, 10-29-57, Cl. 280-124.
- Morehouse, Neal F.: *See*—
McGuire, Willis C., Morehouse, Walde, and Van Essen. 2,815,313.
- Morehouse, Silas A. Safety refrigerator lock. 2,797,655, 7-2-57, Cl. 109-63.5.
- Morel, Roger: *See*—
Felici, Noel, Point, and Morel. 2,797,345.
- Morel, Roger, to Societe Anonyme de Machines Electrostatiques. Construction of an electrostatic machine having an insulating conveyor. 2,785,320, 3-12-57, Cl. 310-6.
- Morel, Roger, to Societe Anonyme de Machines Electrostatiques. System of excitation and of regulation of the output potential of electrostatic generators. 2,799,002, 7-9-57, Cl. 322-2.
- Moreland, Bernadine S., $\frac{1}{2}$ to E. E. Greigg. Float type attachment for drink receptacle. 2,801,541, 8-6-57, Cl. 73-319.
- Moreland, Edward R. Safety control for automobiles. 2,793,706, 5-28-57, Cl. 180-82.
- Morelli, Dino A.: *See*—
Lindsay, James E., and Morelli. 2,813,427.
- Morelli, Dino A., and B. Pinsker, said Morelli assor. to said Pinsker. Mobile brickmaking machine. 2,787,040, 4-2-57, Cl. 25-2.
- Morello, Victor S.: *See*—
Poffenberger, Noland, and Morello. 2,803,685.
- Morenus, George H.: *See*—
Armstrong, Raymond L., and Gerald H. and George H. Morenus. 2,778,923.
- Morenus, Gerald H.: *See*—
Armstrong, Raymond L., and Gerald H. and George H. Morenus. 2,778,923.
- Moretta, Giuseppe. Piece tensioning device for circular knitting machines for hosiery. 2,795,943, 6-18-57, Cl. 66-149.
- Moretti, Louis J.: *See*—
Fluck, Linton A., and Moretti. 2,784,159.
- Moretti, Raymond, Sr., to G. Miller. Tire pressure signal switch device. 2,794,083, 5-28-57, Cl. 200-61.23.
- Moretti, Whitfield, and L. C. Pratt, to Millers Falls Co. Portable power free end jig saw. 2,808,082, 10-1-57, Cl. 143-68.
- Moretz, Ralph M., Sr. Automatic safety drill press switch. 2,787,679, 4-2-57, Cl. 200-61.58.
- Morey, Everett D., to General Electric Co. Clothes dryer with clothes odorizing means. 2,807,893, 10-1-57, Cl. 34-133.
- Morey, Woodruff A., to Whiting Corp. Apparatus for automatically regulating electric arc furnaces. 2,804,493, 8-27-57, Cl. 13-13.
- Morgan, Adolphus J., Jr. Tools for making slots in metal by use of a drill. 2,811,878, 11-5-57, Cl. 77-62.
- Morgan, Byran E., and C. L. Prokop, to Esso Research and Engineering Co. Cementing of wells. 2,776,713, 1-8-57, Cl. 166-22.

- Morgan, Bryan E., and G. K. Dumbauld, to Esso Research and Engineering Co. Well cementing composition. 2,798,003, 7-2-57, Cl. 106-90.
- Morgan, Bryan E., and G. K. Dumbauld, to Esso Research and Engineering Co. Well cementing composition. 2,801,931, 8-6-57, Cl. 106-90.
- Morgan, Bryan E., and G. G. Priest, to Esso Research and Engineering Co. Perforating wells. 2,805,722, 9-10-57, Cl. 166-35.
- Morgan, Bryan E., and G. G. Priest, to Esso Research and Engineering Co. Composition for treating wells and method for using same. 2,806,531, 9-17-57, Cl. 166-29.
- Morgan, Bryn T., to Topflight Corp. Business mailing piece. 2,805,816, 9-10-57, Cl. 229-92.8.
- Morgan, Charles E.: See—
- Ward, Frank T. 2,789,015.
- Morgan Construction Co.: See—
- Comtois, Ernest R., and Prentice. 2,782,901.
- Hall, Henry S. 2,795,409.
- Hill, William J. 2,786,588.
- Hitchcock, John H., and Murrah. 2,804,925.
- Kinnicutt, Roger, Jr. 2,815,847.
- Morgan, Myles, and Wilson. 2,810,569.
- O'Malley, Joseph M. 2,781,179.
- O'Malley, Joseph M., and Hill. 2,815,690.
- Prentice, Alfred F. 2,813,643.
- Wilson, Norman A. 2,810,570.
- Morgan Crucible Co., The: See—
- Hilton, Raymond F., and Martin. 2,788,284.
- Walmsey, John. 2,778,066.
- Morgan, David E., and J. E. Tolan, to Warren Webster & Co. Method for expelling air from a closed hot water system. 2,790,606, 4-30-57, Cl. 237-63.
- Morgan, David H. Overhead guide and roller for sliding doors. 2,807,058, 9-24-57, Cl. 20-19.
- Morgan, David L., to Robertshaw-Fulton Controls Co. Thermostatic steam trap. 2,778,573, 1-22-57, Cl. 236-56.
- Morgan Development Laboratories, Inc.: See—
- Morgan, Porter S. 2,815,837.
- Morgan, Donald C., to Westinghouse Electric Corp. Stem mount for electric incandescent lamp. 2,776,852, 1-8-57, Cl. 287-20.
- Morgan, Earnie J.: See—
- Phillips, Harold P., and Morgan. 2,800,378.
- Morgan, Edwin, and T. C. Sippel, to Scotland Mills, Inc. Fabric with variant-height tufts and method. 2,808,855, 10-8-57, Cl. 139-392.
- Morgan, Edwin, and T. C. Sippel, to Scotland Mills, Inc. Tufted and embossed fabric and method of manufacture. 2,809,669, 10-15-57, Cl. 139-37.
- Morgan, Eric R., to Canadian Patents and Development Ltd. Ferromagnetic non-ferrous alloys. 2,797,995, 7-2-57, Cl. 75-134.
- Morgan, Eric R., and V. F. Zackay, to Ford Motor Co. Process of producing nitrogen rich wrought austenitic alloys. 2,783,169, 2-26-57, Cl. 148-3.
- Morgan, Eric R., and V. F. Zackay, to Ford Motor Co. Preparation of iron aluminum alloys. 2,804,387, 8-27-57, Cl. 75-124.
- Morgan, Ernest J.: See—
- Phillips, Harold P., and Morgan. 2,815,255.
- Morgan, Erving B., to American Seating Co. Friction device for lifting lid box. 2,775,781, 1-1-57, Cl. 16-86.
- Morgan, Erving B., and E. T. Manne, to American Seating Co. Toggle-bolt for installing theater chair standards on ventilator grilles. 2,790,370, 4-30-57, Cl. 98-37.
- Morgan, Erving B., E. T. Manne, and F. F. Haberman, to American Seating Co. Seat mounting for theater chairs or the like. 2,815,065, 12-3-57, Cl. 155-85.
- Morgan, Frank, to the United States of America as represented by the United States Atomic Energy Commission. Method of separating plutonium. 2,799,554, 7-16-57, Cl. 23-14.5.
- Morgan, Frank, to the United States of America as represented by the United States Atomic Energy Commission. Method of separating plutonium. 2,799,555, 7-16-57, Cl. 23-14.5.
- Morgan, George C. Trenching attachment for excavating buckets. 2,783,558, 3-5-57, Cl. 37-98.
- Morgan, George C., to Continental Gin Co. Log-debarker flexible tool-mounting. 2,810,413, 10-22-57, Cl. 144-208.
- Morgan, Gerard E., Jr.: See—
- Rappleyea, Frederick A., and Morgan. 2,785,406.
- Morgan, Gerard E., Jr., and J. V. Lukasik, to John T. Riddell, Inc. Snug tie for shoes. 2,806,300, 9-17-57, Cl. 36-2.5.
- Morgan, H. W., & Co., Inc.: See—
- Morgan, Harry W. 2,814,260.
- Morgan, Harry W., to H. W. Morgan & Co., Inc. Pie making machine. 2,814,260, 11-26-57, Cl. 107-12.
- Morgan, James E. Computing device. 2,801,797, 8-6-57, Cl. 235-89.
- Morgan, James W., to W. D. Keith. Card holding attachment for tables. 2,818,261, 12-31-57, Cl. 273-150.
- Morgan, John W. H., to The English Electric Co. Ltd. Dynamo-electric machines. 2,786,951, 3-26-57, Cl. 310-61.
- Morgan, Joseph A.: See—
- Bernard, Herbert J., and Morgan. 2,797,107.
- Morgan, Lester W.: See—
- Turnbull, John C., and Morgan. 2,814,707.
- Morgan, Margaret A. Diaper washing apparatus. 2,811,847, 11-5-57, Cl. 68-213.
- Morgan, Myles, and N. A. Wilson, to Morgan Construction Co. Reeling apparatus. 2,810,569, 10-22-57, Cl. 266-3.
- Morgan, Porter S., to Morgan Development Laboratories, Inc. Ratchet screw driver. 2,815,837, 12-10-57, Cl. 192-44.
- Morgan, Robert C. Switch cut-out for automobile doors. 2,786,911, 3-26-57, Cl. 200-61.79.
- Morgan, Russell L.: See—
- Dixon, James K., and Morgan. 2,801,983.
- Morgan, Russell L., and J. J. Padbury, to American Cyanamid Co. Resin-forming composition for stabilization of soil and process of using same. 2,801,984, 8-6-57, Cl. 260-41.
- Morgan, Stephen W. K., and C. K. Williams, to Metallurgical Processes Ltd., and The National Smelting Co. Ltd., d. b. a. Metallurgical Development Co. Smelting of lead-containing ores. 2,816,022, 12-10-57, Cl. 75-87.
- Morgan, Thomas D., and W. L. Morris, to Phillips Petroleum Co. Simultaneous equation solver. 2,803,399, 8-20-57, Cl. 235-61.
- Morgan, Thomas P. Article of footwear. 2,803,894, 8-27-57, Cl. 36-11.5.
- Morgan, Tracy B., Jr., to Bartelt Engineering Co. Dispensing mechanism. 2,791,355, 5-7-57, Cl. 222-411.
- Morgan, Walter A., to General Electric Co. Electrical linear actuating element. 2,805,375, 9-3-57, Cl. 318-48.
- Morgan, Willard L.: See—
- Colbert, William H., and Morgan. 2,808,351.
- Morgan, Willard L., to Libbey-Owens-Ford Glass Co. Rear view mirror. 2,796,805, 6-25-57, Cl. 88-77.
- Morgan, Willard L., and S. H. Harwig, to Libbey-Owens-Ford Glass Co. Method and apparatus for masking support bodies. 2,781,282, 2-12-57, Cl. 117-212.
- Morgan, William E., to Helena Rubinstein, Inc. Method and preparations for the permanent dyeing of keratinous material. 2,776,668, 1-8-57, Cl. 132-7.
- Morgan, William H. Hearing aids. 2,794,075, 5-28-57, Cl. 179-107.
- Morgan, Zannie B. Fishhook spring set. 2,801,487, 8-6-57, Cl. 43-15.
- Morganstern, Howard B.: See—
- Best, Morton P., and Morganstern. 2,797,308.
- Morgenlaender, Oskar: See—
- Reinartz, Robert, and Morgenlaender. 2,775,935.
- Morgenroth, George E.: See—
- Clary, Hugh L., Johnson, and Morgenroth. 2,809,609.
- Morgenroth, Henri. Charge forming device. 2,779,576, 1-29-57, Cl. 261-64.
- Morgenstern, David M.: See—
- Federman, Alfred P., and Morgenstern. 2,799,066.
- Morgenthau, John L.: See—
- Claus, Carl J., and Morgenthau. 2,786,872.
- Morger, Ernst A., to Keuffel & Esser Co. Lettering set. 2,809,431, 10-15-57, Cl. 33-23.
- Mori, Ernest A., to Gulf Research & Development Co. Internal-external gear pump with self-sealing tooth tips. 2,790,394, 4-30-57, Cl. 103-126.
- Mori, Ernest A., to Gulf Research & Development Co. Positive displacement-type hammer drill. 2,800,884, 7-30-57, Cl. 121-15.
- Moriarty, Edward J. Hand truck. 2,795,433, 6-11-57, Cl. 280-47.28.
- Moriarty, John L. Baby lifeguard. 2,783,481, 3-5-57, Cl. 5-93.
- Moriarty, Maurice. Linkage device for connecting an implement to the hydraulic lift mechanism of a tractor. 2,777,590, 1-15-57, Cl. 214-140.
- Moriarty, Wallace A., and B. N. Henry, to James R. Kearney Corp. Electrical clamps. 2,784,387, 3-5-57, Cl. 339-263.
- Moriceau, Pierre, to Harry Ferguson de France, Societe Anonyme. Disc tiller construction. 2,798,419, 7-9-57, Cl. 97-54.
- Moriconi, Emil J.: See—
- O'Connor, William F., and Moriconi. 2,786,076.
- Morin, George: See—
- Mercier, Amos J., and Morin. 2,785,818.
- Morin, George G., to Morin Mfg. Co., Inc. Control means for wood grapples and the like. 2,802,585, 8-13-57, Cl. 214-147.
- Morin, George V., to Chicopee Mfg. Corp. Disposable absorbent pad. 2,788,003, 4-9-57, Cl. 128-284.
- Morin, Louis H. Method of forming die cast products on pre-die cast and remeltable cores. 2,777,166, 1-15-57, Cl. 18-59.
- Morin, Louis H. Automatic lock sliders. 2,779,078, 1-29-57, Cl. 24-205.14.
- Morin, Louis H. Center ledge scoop for separable fasteners. 2,790,223, 4-30-57, Cl. 24-205.13.
- Morin, Louis H. Apparatus for applying low pressure advance and high pressure squeeze in the hydraulic operation of die casting dies. 2,780,836, 2-12-57, Cl. 18-30.
- Morin, Louis H., to Coats & Clark, Inc. Cores and dies for producing hollow bodies. 2,781,548, 2-19-57, Cl. 18-42.
- Morin, Louis H. One-stringer separable fastener. 2,784,473, 3-12-57, Cl. 24-205.
- Morin, Louis H. Reverse spring lock means for two-way separators and sliders. 2,784,474, 3-12-57, Cl. 24-205.11.
- Morin, Louis H., to West Disinfecting Co. Machine for forming folded paper towels. 2,787,462, 4-2-57, Cl. 270-79.
- Morin, Louis H. Method of producing separable fastener stringers with extruded plastic fastener on one edge portion of the tape thereof. 2,791,807, 5-14-57, Cl. 18-59.

- Morin, Louis H. Non-jamming removable slider. 2,792,611, 5-21-57, Cl. 24—205.15.
- Morin, Louis H. Center ledge scoop for separable fasteners. 2,798,274, 7-9-57, Cl. 24—205.13.
- Morin, Louis H. Center ledge scoop for separable fasteners. 2,798,275, 7-9-57, Cl. 24—205.13.
- Morin, Louis H. Covered reusable buttons. 2,799,908, 7-23-57, Cl. 24—113.
- Morin, Louis H., to West Disinfecting Co. Machine for adhering folded paper towel bundles. 2,805,638, 9-10-57, Cl. 118—1.
- Morin, Louis H. Jam-freeing slider for separable fasteners. 2,811,764, 11-5-57, Cl. 24—205.14.
- Morin, Louis H., to Coats & Clark, Inc. Weaving frames. 2,817,139, 12-24-57, Cl. 28—15.
- Morin, Madeleine, (nee Faust). Lamp shade. 2,794,116, 5-28-57, Cl. 240—108.
- Morin Mfg., Inc.: See—
Morin, George G. 2,802,585.
- Morin, Richard D., and R. E. Sharpe, to G & A Laboratories, Inc. Free-flowing rosin materials. 2,797,211, 6-25-57, Cl. 260—97.
- Morison, William J. Apparatus for cleaning vehicles. 2,803,025, 8-20-57, Cl. 15—21.
- Moritz, Jean. Manufacture of sulphuric acid. 2,791,493, 5-7-57, Cl. 23—261.
- Moritzack, Fred, and J. Scherr. Adjustable headrest for beds. 2,788,529, 4-16-57, Cl. 5—72.
- Morize, Pierre, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Apparatus for extraction of aluminium. 2,783,991, 3-5-57, Cl. 266—35.
- Mork, Ralph G., to International Business Machines Corp. Cathode ray control apparatus. 2,810,860, 10-22-57, Cl. 315—27.
- Mork, Raymond P., to Time, Inc. Precision carriage displacement device. 2,778,232, 1-22-57, Cl. 74—125.5.
- Morlacchi, Enrico J. Butter and cheese holder and slicer. 2,814,113, 11-26-57, Cl. 31—17.
- Morlan, Erwin A.: See—
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- Morley, Arnold W., and A. R. Mortimer, to D. Napier & Son Ltd. Fuel supply control for rocket type jet propulsion units. 2,814,929, 12-3-57, Cl. 60—35.6.
- Morley, Frederick W. W., to Rolls-Royce Ltd. Axial-flow compressors and turbines. 2,804,323, 8-27-57, Cl. 287—53.
- Morley, Frederick W. W., and A. A. Rubbra, to Rolls-Royce Ltd. Variable area jet propulsion nozzle. 2,796,731, 6-25-57, Cl. 60—35.6.
- Morley, Harold V.: See—
Rimington, Claude, Lawson, Searle, and Morley. 2,815,349.
- Morner, Hans G.: See—
Dorman, Leonard M., and Morner. 2,797,463.
- Morner, Hans G. Waterproof closure. 2,777,181, 1-15-57, Cl. 24—201.
- Morozovitch, Paul: See—
Myers, Gordon S., Morozovitch, and Grant. 2,784,189.
- Morr, Ralph V.: See—
Hill, George B., Stott, and Morr. 2,815,232.
- Morrell, Albert M., to Radio Corp. of America. Color-kinescopes, etc. 2,795,719, 6-11-57, Cl. 313—35.
- Morrell, Charles E., to Esso Research and Engineering Co. Preparation of oxo octyl alcohols and plasticizer esters. 2,781,396, 2-12-57, Cl. 260—475.
- Morrell, Charles E., C. S. Carlson, and J. Stewart, to Esso Research and Engineering Co. Purification of C₄ to C₆ alcohols by extractive distillation. 2,788,315, 4-9-57, Cl. 202—39.5.
- Morrell, Edward S., to G. Toebe. Welder's helmet and arc current controlling apparatus. 2,778,928, 1-22-57, Cl. 219—147.
- Morrell, James N.: See—
Elliott, Lynn T., and Morrell. 2,775,908.
- Morrell, James N., and L. Ince. Valve operator. 2,775,907, 1-1-57, Cl. 74—625.
- Morrell, John P. Power driven material handling truck with stacking mechanism. 2,799,417, 7-16-57, Cl. 214—514.
- Morren, Henri, to Union Chimique Belge, S. A. Substituted 2-methyl-Δ² imidazolines. 2,778,836, 1-22-57, Cl. 260—309.6.
- Morren, Henri, to Union Chimique Belge, S. A. Phenyl cyclohexyl bis diethylaminoethanes. 2,781,398, 2-12-57, Cl. 260—570.5.
- Morrill, Austin L., and J. P. Kelly, to Raytheon Mfg. Co. Tear tabs for tin cans and methods for forming them. 2,806,628, 9-17-57, Cl. 220—54.
- Morrill, Edward F., Jr., to Mid-Valley Pipeline Co. Pipe line plugs. 2,786,489, 3-26-57, Cl. 138—89.
- Morrill, Elliott, and R. G. Landwerlen, to The Best Foods, Inc. Leather paste polish containing wax and a mono-glyceride. 2,776,268, 1-1-57, Cl. 260—23.
- Morrill, Elliott, and L. Newburn, to The Best Foods, Inc. Leather liquid polish. 2,782,171, 2-19-57, Cl. 260—8.
- Morrill, Frank B., to James Hunter Machine Co. Cloth holding means for tenters. 2,787,822, 4-9-57, Cl. 26—62.
- Morrill, Harry L., Jr. Automobile seat. 2,811,199, 10-29-57, Cl. 155—182.
- Morrill, Henry L.: See—
Clark, William A., and Morrill. 2,776,237.
- Morrill, Wayne J. Mechanical movement device. 2,791,121, 5-7-57, Cl. 74—23.
- Morrill, Wayne J. Selective circuits and protective switching arrangement. 2,792,544, 5-14-57, Cl. 318—220.
- Morrill, Wayne J. Hysteresis actuator. 2,794,877, 6-4-57, Cl. 200—61.39.
- Morrill, Wayne J. Gearing arrangement for dynamoelectric machines. 2,810,844, 10-22-57, Cl. 310—83.
- Morris, Avery W.: See—
Hollowell, John R., and Morris. 2,807,496.
- Morris, Charles E.: See—
Lesparre, Jean N., Medlock, and Morris. 2,811,452.
- Morris, Charles H. F., Jr., to Radio Corp. of America. Method of providing insulator with multiplicity of conducting elements. 2,793,178, 5-21-57, Cl. 204—15.
- Morris, Chester L.: See—
Brown, Arling D., Jr., Morris, and Valenti. 2,805,113.
- Morris, Daniel L., to Food Chemical and Research Laboratories, Inc. Crystalline compounds of tryptophane and methods of manufacturing them. 2,799,684, 7-16-57, Cl. 260—319.
- Morris, Donald W., to The Enterprise Division of General Metals Corp. Master and link connecting rod system. 2,815,680, 12-10-57, Cl. 74—580.
- Morris, Emory L.: See—
Polk, Isaac H. 2,795,939.
- Morris, Frank A., to General Dynamics Corp. Code detecting system. 2,787,780, 4-2-57, Cl. 340—173.
- Morris, Frank A., and R. B. Trousdale, to General Dynamics Corp. Time elapse telephone switching system. 2,816,168, 12-10-57, Cl. 179—15.
- Morris, Fred J., to The Electro Mechanics Co. Micrometric dial assembly. 2,803,966, 8-27-57, Cl. 74—10.52.
- Morris, George E. Skin cleanser composition. 2,809,166, 10-8-57, Cl. 252—161.
- Morris, George V., to Zenith Radio Corp. Code storage device. 2,794,851, 6-4-57, Cl. 178—22.
- Morris, James W.: See—
Blakely, Jim B., and Morris. 2,806,753.
- Morris, Jean K.: See—
Morris, William W. 2,817,737.
- Morris, John A., to the United States of America as represented by the Secretary of the Navy. Direct depth recorder. 2,812,995, 11-12-57, Cl. 346—108.
- Morris, John De L. S., to W. T. Coleman. Cassette conveying apparatus. 2,795,702, 6-11-57, Cl. 250—66.
- Morris, John E.: See—
Porter, Frederick W. B., Howes, and Morris. 2,800,429.
- Morris, John M.: See—
Carrier, Robert M., Jr., and Morris. 2,797,796.
- Morris, John M., to Carrier Conveyor Corp. Method of and apparatus for conveying pulverulent material. 2,795,318, 6-11-57, Cl. 198—220.
- Morris, John M., to Carrier Conveyor Corp. Discharge gate for conveyors. 2,806,583, 9-17-57, Cl. 198—220.
- Morris, Joseph L. Methods and means for creating patterns and controlling knitting changes. 2,808,712, 10-8-57, Cl. 66—50.
- Morris, Joseph L. Double spring beard needle for knitting machines. 2,808,713, 10-8-57, Cl. 66—119.
- Morris, Laythn C. Landing net. 2,817,175, 12-24-57, Cl. 43—11.
- Morris, Leo R., and R. P. Mayer, to The Dow Chemical Co. Process for making chloroacetal. 2,803,668, 8-20-57, Cl. 260—615.
- Morris Motors Ltd.: See—
Griffin, Charles A. 2,805,737.
- Morris, Nelle J.: See—
Ramsay, Thomas W. 2,794,218.
- Morris, Ona W. Method for making bobbins. 2,807,874, 10-1-57, Cl. 29—414.
- Morris, Philip, Inc.: See—
Shaw, Robert J. 2,785,843.
- Morris, Rupert C.: See—
Buls, Vernon W., and Morris. 2,807,636.
- Morris, Rupert C., and V. W. Buls, to Shell Development Co. Polyhydric alcohol ester of a tertiary alkyl-substituted cyclohexanecarboxylic acid. 2,807,638, 9-24-57, Cl. 260—468.
- Morris, Rupert C., and J. L. Van Winkle, to Shell Development Co. Phosphorus esters. 2,815,361, 12-3-57, Cl. 260—461.105.
- Morris, Vernon B., Jr., to Bendix Aviation Corp. Hypsometer evaluator. 2,816,707, 12-17-57, Cl. 235—84.
- Morris, William. Condiment shaker. 2,779,518, 1-29-57, Cl. 222—501.
- Morris, Walter H., to Beaver Products, Inc. Ball-bearing screw assembly. 2,795,149, 6-11-57, Cl. 74—424.8.
- Morris, William E., to Baxter Laboratories, Inc. Serology sample container. 2,808,053, 10-1-57, Cl. 128—272.
- Morris, William E., and J. M. Verdi, to Allied Chemical & Dye Corp. Decorative core stock laminating varnishes and phenolic resin core and decorative laminates produced therefrom. 2,801,198, 7-30-57, Cl. 154—43.
- Morris, William L.: See—
Morgan, Thomas D., and Morris. 2,803,399.
- Morris, William W., ½ to C. B. Ellis, and ½ to J. K. Morris. Electrical resistance nets. 2,817,737, 12-24-57, Cl. 201—63.
- Morrisett, O. L., and H. E. Schwegman, to Halliburton Oil Well Cementing Co. Well packer. 2,808,889, 10-8-57, Cl. 166—190.

- Morrison, Albert R., to Owens-Corning Fiberglas Corp. Twine. 2,775,860, 1-1-57, Cl. 57-140.
- Morrison, Albert R., to Owens-Corning Fiberglas Corp. Method of sizing glass fibers to form strands. 2,778,764, 1-22-57, Cl. 154-91.
- Morrison, Alexander L.: *See*—
Long, Robert F., and Morrison. 2,777,851.
- Morrison, Benjamin, to Hudson Bay Mining and Smelting Co. Ltd. Geophysical prospecting. 2,784,370, 3-5-57, Cl. 324-4.
- Morrison, Charles S., H. H. Denison, and F. D. Jones, to Deere & Co. Corn harvester attachment for combine. 2,794,307, 6-4-57, Cl. 56-18.
- Morrison, Creighton H. Middlings separator. 2,803,344, 8-20-57, Cl. 209-127.
- Morrison, Dwight E.: *See*—
Kornfeld, Edmund C., Kline, and Morrison. 2,809,974.
- Morrison, Emmett G. Disc brake. 2,794,521, 6-4-57, Cl. 188-72.
- Morrison, George H., and R. L. Rupp, to Sylvania Electric Products Inc. Processes for purifying inorganic materials. 2,814,592, 11-26-57, Cl. 204-140.
- Morrison, George O., to Shawinigan Resins Corp. Polyvinyl acetate powder and process of making the same. 2,800,463, 7-23-57, Cl. 260-29.1.
- Morrison, Hackley. Oscillating fans. 2,808,198, 10-1-57, Cl. 230-259.
- Morrison, Hackley, Jr.: *See*—
Morrison, Hugh S. 2,775,928.
- Morrison, Harold E., $\frac{1}{2}$ to G. B. Haynes, and $\frac{1}{2}$ to D. R. McNeill, Jr. Molded ladder. 2,788,167, 4-9-57, Cl. 228-18.
- Morrison, Harold E., to Whirlpool-Seeger Corp. Clothes drier. 2,799,948, 7-23-57, Cl. 34-90.
- Morrison, Harold E., to Whirlpool-Seeger Corp. Automatic gas ignition and burner control system. 2,800,176, 7-23-57, Cl. 158-125.
- Morrison, Harold E., to Whirlpool-Seeger Corp. Electrically controlled safety igniter circuit for gas burners. 2,812,806, 11-12-57, Cl. 158-124.
- Morrison, Heber J., to Westinghouse Electric Corp. Feedback amplifier. 2,777,019, 1-8-57, Cl. 179-171.
- Morrison, Hugh S., to Hackley Morrison, Jr. Springs for automatic shutters. 2,775,928, 1-1-57, Cl. 98-119.
- Morrison, James, Brass Mfg. Co. Ltd., The: *See*—
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- Morrison, Joseph P. Illuminated mirror door. 2,791,675, 5-7-57, Cl. 240-4.1.
- Morrison, Lester G. Paint cup. 2,788,926, 4-16-57, Cl. 222-394.
- Morrison, Montford. Electric impulse motor-device. 2,780,764, 2-5-57, Cl. 318-491.
- Morrison, Montford. Synchronous motor device. 2,808,551, 10-1-57, Cl. 318-47.
- Morrison-Pelsue Co., The: *See*—
Pelsue, Thurman A., and Braa. 2,811,962.
- Morrison, Philip, to the United States of America as represented by the United States Atomic Energy Commission. Radiation shield. 2,796,529, 6-18-57, Cl. 250-108.
- Morrison, Robert L., to West Canadian Collieries, Ltd. Gas entrained lump-breaking and drying equipment. 2,808,213, 10-1-57, Cl. 241-40.
- Morrison, Robert P. Method and apparatus for recovering valuable minerals. 2,801,003, 7-30-57, Cl. 209-13.
- Morrison, Robert W.: *See*—
Crosby, Gifford W., Holm, Morrison, and Sandner. 2,795,535.
- Morrison, Samuel: *See*—
Peak, Charles. 2,793,599.
- Morrison Supply Co.: *See*—
Eubanks, Glenn M. 2,779,203.
- Morrison, Wendell C., to Radio Corp. of America. Video transmitter. 2,808,569, 10-1-57, Cl. 332-37.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Gas distribution systems for a multiplicity of tanks containing liquefied hydrocarbons. 2,780,921, 2-12-57, Cl. 62-1.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method of liquefying gas. 2,783,624, 3-5-57, Cl. 62-175.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Turbo-blower cooling means. 2,796,746, 6-25-57, Cl. 62-136.
- Morrison, Willard L., to Constock Liquid Methane Corp. Means for storing and transporting cold liquid hydrocarbons. 2,798,364, 7-9-57, Cl. 62-1.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method and apparatus for reducing power needed for compression. 2,799,997, 7-23-57, Cl. 62-1.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Apparatus for making soap. 2,800,398, 7-23-57, Cl. 23-290.5.
- Morrison, Willard L. Method of packaging food and the like. 2,807,548, 9-24-57, Cl. 99-171.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method of liquefying natural gas at casing head pressure. 2,811,843, 11-5-57, Cl. 62-175.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method for liquefying natural gas at casing head pressure. 2,814,936, 12-3-57, Cl. 62-175.5.
- Morrison, William A., to Ingersoll-Rand Co. Fluid actuated percussive tool. 2,810,549, 10-22-57, Cl. 255-4.4.
- Morrison, William F. Cap valve for liquid dispensers. 2,786,613, 3-26-57, Cl. 222-545.
- Morrisette, Brandon F. Child's spring suspended chair. 2,784,765, 3-12-57, Cl. 155-18.
- Morrissey, Richard T.: *See*—
Frederick, Marvin R., and Morrissey. 2,809,372.
- Morrissey, Richard T., to The B. F. Goodrich Co. Method for preparing brominated isolefin-polyolefin interpolymer derivatives. 2,816,098, 12-10-57, Cl. 260-85.3.
- Morrissey, William J., to International Resistance Co. Multiple point welding electrode. 2,813,967, 11-19-57, Cl. 219-119.
- Morrow, Anthony B.: *See*—
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- Morrow, Charles T.: *See*—
Barnaby, Roland E., and Morrow. 2,817,779.
- Morrow, Clarence H., to the Hotstream Heater Co. Draft hood. 2,789,555, 4-23-57, Cl. 126-307.
- Morrow, David, to Fairchild Engine and Airplane Corp. Extensible ladder. 2,798,653, 7-9-57, Cl. 228-19.2.
- Morrow, Harry M., to The Bowditch Co. Coal cutting bit having a skewed cutting face. 2,786,663, 3-26-57, Cl. 262-33.
- Morrow, Harry M., to The Bowditch Co. Coal cutting bit having a skewed cutting face. 2,786,664, 3-26-57, Cl. 262-33.
- Morrow, Joseph H., to Fuller Co. Material trap. 2,813,630, 11-19-57, Cl. 209-474.
- Morrow, Walker C. Barbecue. 2,815,707, 12-10-57, Cl. 99-421.
- Morrow, Wallace E.: *See*—
Anhorn, Victor J., Stewart, and Morrow. 2,776,247.
- Morrow, William S.: *See*—
Horn, Carl A., and Morrow. 2,806,443.
- Morsch, Jesse J. Temperature-activated devices. 2,790,323, 4-30-57, Cl. 73-339.
- Morschel, Franz. Wire connector with dovetailed casing. 2,780,791, 2-5-57, Cl. 339-198.
- Morschel, Franz. Multi-pole relay switches. 2,794,093, 5-28-57, Cl. 200-104.
- Morse Chain Co.: *See*—
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McIntyre, Elmer L. 2,778,469.
- Morse, Charles A. Abrading machine. 2,812,627, 11-12-57, Cl. 51-241.
- Morse, Charles H.: *See*—
Leek, Wayne E., Morse, and Webb. 2,782,688.
- Morse, Edgar W.: *See*—
Fogelberg, Clement V., and Morse. 2,785,330.
- Morse, Forbes. Switch contact element. 2,794,888, 6-4-57, Cl. 200-166.
- Morse, Glenn B.: *See*—
Vanderlinde, Clarence, and Morse. 2,799,091.
- Morse, Isidore. Magnetic type electric motor. 2,792,509, 5-14-57, Cl. 310-46.
- Morse, Joe V.: *See*—
Pistole, Harry, Calvert, Williams, Morse, Pryor, Corley, and Evans. 2,804,147.
- Morse, Lawrence H., to Addressograph-Multigraph Corp. Register device for sheet feeding mechanism. 2,798,720, 7-9-57, Cl. 271-49.
- Morse, Milton. Moisture-proofing device. 2,795,144, 6-11-57, Cl. 74-17.8.
- Morse, Richard A., to Pan American Petroleum Corp. Oil recovery by underground combustion. 2,793,696, 5-28-57, Cl. 166-11.
- Morse, Roy E., to Monsanto Chemical Co. Alkylene oxide condensates and use thereof as defoaming agents. 2,792,308, 5-14-57, Cl. 99-205.
- Morse, Willard B.: *See*—
Humphrey, Earl L., and Morse. 2,778,801.
- Mort, Eugene V.: *See*—
Berry, John G., and Mort. 2,804,134.
- Mortaro, Samuel J.: *See*—
Brunelli, Angelo J., and Mortaro. 2,799,886.
- Mortier, Michel, to BIBIS Societe d'Etudes et d'Exploitation de Containers. Combination container and inflatable pouch with closure means therefor. 2,818,196, 12-31-57, Cl. 220-63.
- Mortimer, Alfred R.: *See*—
Morley, Arnold W., and Mortimer. 2,814,929.
- Mortimer, Alfred R., to D. Napier & Son Ltd. Combustion turbine units. 2,793,496, 5-28-57, Cl. 60-39.35.
- Mortimer, George D., to Sylvania Electric Products Inc. Apparatus and method of preparing crystals of germanium group. 2,809,136, 10-8-57, Cl. 148-1.6.

- Mortimer, Harry T. Suppressed carrier modulator. 2,782,376, 2-19-57, Cl. 332-51.
- Mortimer, Harry T. Magnetic power amplifier. 2,799,738, 7-16-57, Cl. 179-171.
- Mortimer, Harry T. D. C. to A. C. converter. 2,804,547, 8-27-57, Cl. 250-36.
- Morton, Alden D., and P. H. Vecchiola. Method of and apparatus for molding cavities in settable molding material. 2,794,233, 6-4-57, Cl. 25-128.
- Morton, Allen W., to The Glenn L. Martin Co. Blind rivet having tapered expander pin therein. 2,787,932, 4-9-57, Cl. 85-40.
- Morton, Byron B., and R. S. Rice, to The International Nickel Co., Inc. Protectively sheathed structure exposed to sea water. 2,791,096, 5-7-57, Cl. 61-54.
- Morton, Craig V., to General Motors Corp. Carburetor. 2,807,448, 9-24-57, Cl. 261-23.
- Morton, Evans T., to Admiral Corp. Hinge cord guard. 2,786,094, 3-19-57, Cl. 174-52.
- Morton, Evans T., to Admiral Corp. Refrigerator liner sealing means. 2,793,781, 5-28-57, Cl. 220-9.
- Morton, Frank, and A. P. C. Cumming, to The Midland Tar Distillers Ltd. Separation of phenols from hydrocarbons. 2,790,834, 4-30-57, Cl. 260-627.
- Morton, George A., and K. W. Robinson to Radio Corp. of America. Logarithmic count rate or frequency meter. 2,796,533, 6-18-57, Cl. 250-214.
- Morton, Glen R., $\frac{3}{4}$ to A. H. Sturges. Self-pressurizing lubricating pump. 2,795,360, 6-11-57, Cl. 222-261.
- Morton, Glen R. Grease gun filler pump. 2,801,776, 8-6-57, Cl. 222-380.
- Morton, Gordon E. Table fork cleaner. 2,817,864, 12-31-57, Cl. 15-111.
- Morton, Harold S., to the United States of America as represented by the Secretary of War. Toss bombing apparatus. 2,805,601, 9-10-57, Cl. 89-15.
- Morton, Henry E. Flash trimming machine. 2,781,698, 2-19-57, Cl. 90-38.
- Morton, Henry E. Belt tightener. 2,798,380, 7-9-57, Cl. 74-242.8.
- Morton, Jack A., to Bell Telephone Laboratories, Inc. High frequency amplifier. 2,779,891, 1-29-57, Cl. 315-35.
- Morton, Jack A., to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,790,926, 4-30-57, Cl. 315-35.
- Morton, Jack A., to Bell Telephone Laboratories, Inc. Electrical switching and storage. 2,791,761, 5-7-57, Cl. 340-173.
- Morton, John R.: See—
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- Morton, Leon S. Applicator for feeding substances into readily penetrable materials, such as earth and food products. 2,776,634, 1-8-57, Cl. 111-92.
- Morton Packing Co.: See—
Welch, Park C. 2,806,438.
- Morton, Robert E.: See—
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- Morton, Robert E. Contour welding machine. 2,800,570, 7-23-57, Cl. 219-124.
- Morton Salt Co.: See—
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Suppiger, Gerhart S., and Phillips. 2,799,432.
- Morton, Sherman: See—
Mutchler, Norman D. 2,793,460.
- Morton, Walter N. T. Continuously operable centrifugal ore concentrator. 2,782,925, 2-26-57, Cl. 209-211.
- Morway, Arnold J.: See—
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Bartlett, Jeffrey H., Morway, and Mikeska. 2,801,972.
Bartlett, Jeffrey H., Morway, Mikeska, and Gallo. 2,801,971.
Bartlett, Jeffrey H., Morway, and Munday. 2,801,970.
Cottle, Delmer L., Young, and Morway. 2,816,074.
Kolfenbach, John J., Morway, and Smith. 2,782,166.
Mikeska, Louis A., Bartlett, and Morway. 2,799,656.
Vesterdal, Hans G., and Morway. 2,798,573.
Young, David W., Morway, and Cottle. 2,795,546.
Young, David W., Morway, and Sayko. 2,810,695.
- Morway, Arnold J., F. Knott, Jr., and J. H. Bartlett, to Esso Research and Engineering Co. Production of lubricating greases from oxo esters. 2,779,736, 1-29-57, Cl. 252-35.
- Morway, Arnold J., and A. Beerbower, to Esso Research and Engineering Co. Greases prepared by alkali fusion of fatty materials. 2,790,769, 4-30-57, Cl. 252-33.2.
- Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Lubricating greases thickened with soaps obtained by alkali fusion of amino alcohols. 2,801,969, 8-6-57, Cl. 252-33.6.
- Morway, Arnold J., J. H. Bartlett, and L. A. Mikeska, to Esso Research and Engineering Co. Grease process utilizing the alkali fusion of aldehydes. 2,801,973, 8-6-57, Cl. 252-41.
- Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Grease process utilizing the alkali fusion products of cyclic alcohols. 2,801,974, 8-6-57, Cl. 252-41.
- Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Lubricating greases containing alkali fusion products of polysaccharides. 2,801,976, 8-6-57, Cl. 252-42.
- Morway, Arnold J., J. H. Bartlett, and J. C. Mundy, to Esso Research and Engineering Co. Preparation of grease thickeners from oxo reaction products. 2,801,977, 8-6-57, Cl. 252-42.
- Mory, Rudolf: See—
Schmid, Max, Mory, and Zickendraht. 2,816,103.
- Mosack, Anthony J. Audio modulating and control device. 2,816,620, 12-17-57, Cl. 181-31.
- Mosbacher, Bruce H. Solenoid valve with impact type actuator. 2,792,195, 5-14-57, Cl. 251-77.
- Mosbacher, Bruce H. Rubbing and abrading machines. 2,795,901, 6-18-57, Cl. 51-170.
- Mosbacher, Bruce H., to Geo. D. Roper Corp. Rotary pump. 2,801,593, 8-6-57, Cl. 103-126.
- Mosbacher, Bruce H., to Geo. D. Roper Corp. Pressure loaded pump or motor. 2,817,297, 12-24-57, Cl. 103-126.
- Mosca, Alexandre. Vehicle anti-skid device. 2,801,668, 8-6-57, Cl. 152-236.
- Moseley, Charles F. Self-lubricating oil well stuffing box. 2,789,846, 4-23-57, Cl. 286-17.
- Moseley, Earl J. Floating type minnow bucket. 2,791,061, 5-7-57, Cl. 43-56.
- Moseley, Francis L., to Collins Radio Co. Automatic landing system. 2,800,292, 7-23-57, Cl. 244-77.
- Moseley, James T. W.: See—
Carlson, Harold A., and Moseley. 2,783,032.
Carlson, Harold A., and Moseley. 2,790,631.
- Moseley, James T. W. Manifold. 2,806,457, 9-17-57, Cl. 123-52.
- Moseley, John F.: See—
Davies, Frank, Moseley, and Thomas. 2,789,584.
- Moseley, John F., and F. Davies, to The British Cotton Industry Research Association. Looms having automatic bobbin-changing mechanism. 2,808,076, 10-1-57, Cl. 139-256.
- Moseley, Wallace F., to Plunger Lift Elevators, Inc. Automotive grinding and polishing apparatus for cylindrical work pieces. 2,801,497, 8-6-57, Cl. 51-3.
- Mosely, Neal J., to Detroit Controls Corp. Heating and cooling control valve. 2,776,796, 1-8-57, Cl. 236-1.
- Mosely, Neal J., to Detroit Controls Corp. Flow control devices. 2,777,464, 1-15-57, Cl. 137-516.3.
- Moser, Arthur J., to International Resistance Co. Variable resistor. 2,779,845, 1-29-57, Cl. 201-53.
- Moser, Byron: See—
Ponder, Raymond E. 2,796,280.
- Moser, Eduard, A. Bolleter, and C. Wittwer, to Ciba Ltd. Diazoamino compounds. 2,781,337, 2-12-57, Cl. 260-140.
- Moser, Eduard, A. Bolleter, and C. Wittwer, to Ciba Ltd. Diazoamino compounds. 2,781,338, 2-12-57, Cl. 260-140.
- Moser, Frank T. Extrusion nozzle. 2,778,322, 1-22-57, Cl. 107-14.
- Moser, Franz R. Binder for sand cores and molds. 2,816,041, 12-10-57, Cl. 106-38.7.
- Moser, Harold W. Trolling outboard motor control. 2,804,838, 9-3-57, Cl. 115-18.
- Moser, J. G.: See—
Orsatti, Ernest R. 2,798,147.
- Moser, John F., Jr.: See—
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- Moser, John F., Jr., to Esso Research and Engineering Co. Control of bogging in fluidized coking system. 2,788,312, 4-9-57, Cl. 196-55.
- Moser, John F., Jr., to Esso Research and Engineering Co. Predicting bed defluidization in fluid cokers. 2,808,368, 10-1-57, Cl. 196-55.
- Moser, Kenneth T.: See—
Bell, Dixon T., and Moser. 2,817,513.
- Moser, Otto. Teletypewriters. 2,790,026, 4-23-57, Cl. 178-17.
- Moser, Robert C. Hydraulic tappet. 2,792,819, 5-21-57, Cl. 123-90.
- Moser, Rudolph J., and R. S. Hull, to The National Cash Register Co. Automatic totalizer selection in accordance with numerical entries. 2,798,665, 7-9-57, Cl. 235-6.
- Moses, Alexander K., Jr.: See—
Dunning, John W., Moses, and Toth. 2,779,724.
- Moses, Charles. Resilient type shoe tree for open heel type shoes. 2,787,013, 4-2-57, Cl. 12-115.8.
- Moses, Graham L., and M. M. Fromm, to Westinghouse Electric Corp. Insulated coil. 2,809,230, 10-8-57, Cl. 174-138.
- Moses, Sidney A., to the United States of America as represented by the Secretary of the Navy. Projectile for shaped charges. 2,809,585, 10-15-57, Cl. 102-56.
- Moses, William, to Wallerstein Co., Inc. Dry mix for food-stuffs. 2,801,921, 8-6-57, Cl. 99-94.
- Mosesman, Max A.: See—
Dinwiddie, James A., and Mosesman. 2,776,264.
Kinwiddie, James A., and Mosesman. 2,813,081.

- Mosesman, Max A., and A. T. Watson, to Esso Research and Engineering Co. Method for increasing capacity of a porous adsorbent for liquid phase exchange adsorption. 2,780,358, 2-5-57, Cl. 210—42.5.
- Mosher, Oren G., to Eagle Machinery Co., Ltd. Automatic weighing machine. 2,812,151, 11-5-57, Cl. 249—37.
- Mosher, Ralph E., and R. A. Stiveson, to R. A. Cummings, Jr. Flush barrier type metered parking apparatus. 2,805,498, 9-10-57, Cl. 39—6.
- Mosher, William O.: *See*—
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Lambert, Harry L., and Mosher. 2,810,466.
- Moshy, Raymond J.: *See*—
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- Mosier, Jacques, to Ford Motor Co. Electromagnetic horn motor. 2,784,363, 3-5-57, Cl. 318—134.
- Mosier, Jacques, to Ford Motor Co. Horn adjustment apparatus and method. 2,787,763, 4-2-57, Cl. 324—158.
- Mosier, William H., to Owens-Corning Fiberglass Corp. Apparatus for packaging fibrous materials. 2,789,406, 4-23-57, Cl. 63—118.
- Moskowitz, Seymour. Hydraulic fluid devices. 2,795,196, 6-11-57, Cl. 103—153.
- Mosler, Arthur R., to The Mosler Safe Co. Repository or safe. 2,775,947, 1-1-57, Cl. 109—47.
- Mosler Safe Co., The: *See*—
Mosler, Arthur R. 2,775,947.
- Mosley, Frederick F.: *See*—
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- Mosley, Zack T. Buoyant chair. 2,803,839, 8-27-57, Cl. 9—11.
- Moslo, Ernest P. Molding machine die protection means. 2,801,442, 8-6-57, Cl. 18—16.
- Moslo, Ernest P., and A. H. Radde; said Radde assor. to said Moslo. Plastic molding machine. 2,778,062, 1-22-57, Cl. 18—30.
- Moss, Charles E., to Power Jets (Research and Development) Ltd. Blading for gas turbine engines. 2,801,789, 8-6-57, Cl. 230—116.
- Moss, George W.: *See*—
Moss, Paul W., and G. W. 2,804,414.
- Moss, Herbert: *See*—
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- Moss, Paul W. and G. W., to Eaton Mfg. Co. Chill iron alloy castings. 2,804,414, 8-27-57, Cl. 148—31.
- Mossberg, Carl W. Coolant type drilling tool. 2,817,983, 12-31-57, Cl. 77—68.
- Mossey, Joseph L., to Bendix Aviation Corp. Brake adjusting device. 2,792,084, 5-14-57, Cl. 188—196.
- Mossington, Manlius C., to Empire Electronics, Inc. Radio speaker assembly. 2,804,934, 9-3-57, Cl. 181—31.
- Mosso, Angelo: *See*—
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- Mosstype Roller Co., Inc.: *See*—
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- Mostello, Anthony J.: *See*—
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- Moster, Clarence R.: *See*—
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- Mostovetch, Nicolas: *See*—
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- Mother's Cake & Cookie Co.: *See*—
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- Moti, Urban E. Fence wire staple leg clamping tool. 2,806,220, 9-17-57, Cl. 1—210.
- Motor Products Corp.: *See*—
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Geppert, Donovan V., and Yost. 2,799,827.
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Renno, Donald G. 2,797,127.
Renno, Donald G. 2,797,128.
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- Motor Wheel Corp.: *See*—
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Cataline, Aial L. 2,818,270.
Conrad, Granville R. 2,786,541.
Gray, Richard D. 2,786,694.
Horn, Harry J. 2,785,777.
Horn, Harry J. 2,800,368.
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Huntley, Frederick H. 2,788,847.
Lill, Etchison G. 2,786,321.
Miller, John W. 2,776,000.
Miller, John W., and Stoney. 2,798,541.
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- Motorney, Paul, to T. Motorney. Reversible service tray for automobiles and the like. 2,798,780, 7-9-57, Cl. 311—22.
- Motorney, Theodore: *See*—
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- Motorola, Inc.: *See*—
Affrunti, Andrew J. 2,802,056.
Backman, Kenneth E. H., and Madland. 2,799,001.
Baroch, George F. 2,798,206.
Berg, Howard O. 2,794,909.
Birkenes, Bernhard. 2,790,856.
Byles, Theodore A. 2,786,889.
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Curry, Arnet A., and Castro. 2,784,263.
Doremus, John A. 2,777,950.
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Dyke, Edwin. 2,786,133.
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Eberhard, Everett. 2,811,643.
Fyler, George W. Re. 24,336.
Fyler, George W. 2,781,475.
Geppert, Donovan V. 2,779,902.
Geppert, Donovan V. 2,779,903.
Geppert, Donovan V. 2,790,141.
Hill, Frederick P., and Byles. 2,791,685.
Huard, George R., Jr. 2,779,901.
Huard, George R., Jr. 2,795,745.
Krakora, James J., Jr. 2,782,406.
Magnuski, Henry, and Dyke. 2,803,802.
Mattingly, Lawrence J. 2,802,140.
Mattingly, Lawrence J. 2,807,662.
Mohler, Robert D., and Kelley. 2,794,156.
Neese, James A. 2,811,046.
Nieter, Temple. 2,783,193.
Owen, George E., Jr., and Harasek. 2,813,155.
Pawlowski, Frank L. 2,808,507.
Race, Richard T. 2,810,071.
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Schlesinger, Kurt. 2,796,518.
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Silver, John F. 2,806,966.
Stenerson, Charles K. 2,789,256.
Stewart, James R., and Crow. 2,809,236.
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Weisz, William J., and Jones. 2,782,405.
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Wingert, Raymond R. 2,806,945.
Yost, Russell R., Jr. 2,797,267.
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Zimmerman, Jack J. 2,777,477.
- Motsinger, Armand V. Rotary-heat-engine. 2,789,415, 4-23-57, Cl. 60—24.
- Motsinger, George C.: *See*—
Baxter, Donald L., and Motsinger. 2,792,471.
- Motsinger, George C., to Reliable Electric Co. Hinge construction for cable terminal. 2,782,455, 2-26-57, Cl. 16—128.
- Mott, Carl W., to International Harvester Co. Differential gearing unit. 2,788,679, 4-16-57, Cl. 74—714.
- Mott, Chester D., to Fansteel Metallurgical Corp. Product of arc welding. 2,804,885, 9-3-57, Cl. 138—74.
- Mott, Jacob L., Sr. Writing instrument. 2,811,946, 11-5-57, Cl. 120—42.12.
- Mott, Lambert H., to Connecticut Metals, Inc. Process for making porous metallic bodies. 2,792,302, 5-14-57, Cl. 75—214.
- Mottern, Henry O.: *See*—
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- Mottern, Henry O., and T. J. Peters, to Esso Research and Engineering Co. Process for making alkyl phenolic materials and derivatives thereof. 2,800,451, 7-23-57, Cl. 252—42.7.
- Mottet, Arthur L., to International Paper Co. Wood reducing apparatus with hold down attachment. 2,796,093, 6-18-57, Cl. 144—162.
- Mottet, Arthur L., to International Paper Co. Wood deburring apparatus. 2,811,183, 10-29-57, Cl. 144—162.
- Mottey, Francis J.: *See*—
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- Mottlau, August Y.: *See*—
Dyloff, George V., Skiba, and Mottlau. 2,791,698.
- Mottram, Anthony W. T., to Armstrong Siddeley Motors Ltd. Combined stop and by-pass valve. 2,788,019, 4-9-57, Cl. 137—625.48.
- Mottu, Andre, to Societe Genevoise d'Instruments de Physique. Automatic stopping system for a machine tool slide. 2,812,671, 11-12-57, Cl. 77—4.
- Motzet, Hans, and O. Boller, to Maschinenfabrik Augsburg-Nurnberg A. G. Double cam. 2,817,258, 12-24-57, Cl. 74—567.
- Mouer, Earl W., to Landis Tool Co. Self-aligning locator pin. 2,813,385, 11-19-57, Cl. 51—237.

- Moulin, Norbert L., to The Magnavox Co. Mechanism for converting rotary motion to intermittent unidirectional motion. 2,784,599, 3-12-57, Cl. 74-84.
- Moulinaud, et Retordier de Chavanoz: *See*—
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- Moulton, Jean-Marie. Negative impedance device. 2,792,553, 5-14-57, Cl. 333-80.
- Moulthrop, Homer A., to the United States of America as represented by the United States Atomic Energy Commission. Method of conducting a person between a safe region and a dangerous region. 2,813,022, 11-12-57, Cl. 2-2.
- Moulthrop, Le Roy E. Tick filling machines. 2,794,454, 6-4-57, Cl. 141-67.
- Moulton, L. R., Co., Inc.: *See*—
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- Moulton, Lloyd J.: *See*—
Gleitz, Jerome D., and Moulton. 2,802,330.
- Moulton, Lloyd J., to Curtiss-Wright Corp. Marquette Metal Products Division. Rotary pump with output pressure limiter. 2,791,966, 5-14-57, Cl. 103-42.
- Moulton, Lloyd J., to Curtiss-Wright Corp., Marquette Metal Products Division. Dual fuel engine control system. 2,794,430, 6-4-57, Cl. 123-27.
- Moulton, Lloyd J., to Curtiss-Wright Corp., Marquette Metal Products Division. Hydraulic speed governor with solenoid force acting on its pilot valve. 2,797,913, 7-2-57, Cl. 264-8.
- Moulton, Lloyd J., to Curtiss-Wright Corp. Textile mill spindles. 2,802,331, 8-13-57, Cl. 57-130.
- Moulton, Stephen W., and J. S. Bryan, to Philco Corp. Carrier wave modifying system. 2,798,201, 7-2-57, Cl. 332-1.
- Mounce, Whitman D. Stepping switch. 2,779,014, 1-22-57, Cl. 340-147.
- Mounce, Whitman D., to Esso Research and Engineering Co. Reinforced inflatable packer. 2,779,419, 1-29-57, Cl. 166-187.
- Mounce, Whitman D., to Esso Research and Engineering Co. Drill stem tester. 2,813,587, 11-19-57, Cl. 166-103.
- Mounteer, Carlyle A., C. J. Chrones, J. F. Manildi, and W. I. Shevell, to G. M. Ginnini & Co., Inc. Pressure responsive indicating means. 2,785,570, 3-19-57, Cl. 73-182.
- Mountford, Irene J.: *See*—
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- Mountford, Lawrence A.: *See*—
Carriol, Louis A., and L. A. and I. J. Mountford. 2,810,495.
- Mountford, Lawrence A., to Shell Development Co. Fluid flow and pressure control valve. 2,788,192, 4-9-57, Cl. 251-62.
- Mount Sinai Hospital Research Foundation, Inc.: *See*—
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- Mount Vernon Mills, Inc.: *See*—
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- Mountz, Elton E. Rotary row crop beater. 2,781,624, 2-19-57, Cl. 55-118.
- Mourier, Georges, to Compagnie Generale de Telegraphie Sans Fil. Traveling wave tubes of circular structure. 2,812,473, 11-5-57, Cl. 315-39.3.
- Mourier, Georges, and G. Guilbaud, to Compagnie Generale de Telegraphie Sans Fil. Modulating devices for tubes having crossed electric and magnetic fields. 2,794,935, 6-4-57, Cl. 315-3.5.
- Mouzon, James C. Binaural hearing apparatus and method. 2,783,312, 2-26-57, Cl. 179-107.
- Mowat, Benona C. Proportional mixing container having rotatable control rod. 2,788,801, 4-16-57, Cl. 137-576.
- Mowat, Benona C. Valved fuel cell employing proportional mixing chamber. 2,814,308, 11-26-57, Cl. 137-576.
- Mowers, Henry D.: *See*—
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McDonnell, Joseph M., and Mowers. 2,802,458.
- Mowery, Jesse R., Jr., to De Walt Inc. Automatic brake for power tools. 2,785,710, 3-19-57, Cl. 143-157.
- Mowry, David T., and A. H. Schlesinger, to Monsanto Chemical Co. 2-thiocyanooethyl phenylcarbanilates. 2,786,071, 3-19-57, Cl. 260-454.
- Mowry, Lorenz J.: *See*—
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Shoup, Thomas E., Sholle, and Mowry. 2,814,716.
- Mowry, Lorenz J., to Gregory Industries, Inc. Welding tool. 2,816,210, 12-10-57, Cl. 219-98.
- Moxley, William N. Massage pillow. 2,786,465, 3-26-57, Cl. 128-34.
- Moxness, Sven K., to Minneapolis-Honeywell Regulator Co. Molding procedure and apparatus. 2,781,547, 2-19-57, Cl. 18-30.
- Moy, Joseph P. Dispensing bottle. 2,815,156, 12-3-57, Cl. 222-520.
- Moy, Muriel: *See*—
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- Moy, William L.: *See*—
Billingsley, Lewell E. 2,804,314.
- Moyaert, Benoit. Cigarette dispenser and lighter. 2,791,351, 5-7-57, Cl. 221-145.
- Moyer, David F., to General Motors Corp. Circuit breaker. 2,812,403, 11-5-57, Cl. 200-111.
- Moyer, David F., to General Motors Corp. Circuit breaker. 2,815,420, 12-3-57, Cl. 200-166.
- Moyer, Hallard C., to Sinclair Refining Co. 9-octadecenamide-polyethylene compositions. 2,803,612, 8-20-57, Cl. 260-28.5.
- Moyer, John S.: *See*—
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- Moyer, Robert B. Therapeutic chair with tilt top. 2,786,512, 3-26-57, Cl. 155-43.
- Moyer, Robert P., to Kirsch Co. Bottom rail construction for Venetian blind. 2,783,831, 3-5-57, Cl. 160-173.
- Moyer, Robert P., to Kirsch Co. Tilt mechanism for Venetian blinds. 2,809,531, 10-15-57, Cl. 74-222.
- Moyer, Robert P., to Kirsch Co. Venetian blind bottom rail and clip construction. 2,817,398, 12-24-57, Cl. 160-177.
- Moyers, William R.: *See*—
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- Moyes, James, to Chrysler Corp. Tailgate-supporting bumper-guard construction. 2,796,287, 6-18-57, Cl. 296-57.
- Moyie, Clarence L., and C. G. Humiston, to The Dow Chemical Co. Production of preserved alkaline paper. 2,780,546, 2-5-57, Cl. 92-21.
- Moyle, Richard W., Jr. Sample taking conveyor. 2,814,204, 11-26-57, Cl. 73-424.
- Moyriban, John D., to Westinghouse Electric Corp. Synchronizing apparatus. 2,777,075, 1-8-57, Cl. 307-87.
- Moyroud, Louis: *See*—
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- Moyroud, Louis M.: *See*—
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- Mozina, Ignace C.: *See*—
Kastner, John J., and Mozina. 2,806,188.
- Mozley, Paul P., and H. B. Sipple, to Lockheed Aircraft Corp. Method for providing protective metal coatings on metal. 2,797,174, 6-25-57, Cl. 117-65.
- Mozley, Robert F., to Sperry Rand Corp. Ranging system. 2,786,197, 3-19-57, Cl. 343-7.3.
- Mroz, Edward L. Washer having biting teeth on inner and outer periphery thereof. 2,778,399, 1-22-57, Cl. 151-35.
- Mucciarone, Rocco: *See*—
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- Mucilli, Raphael P. Hot water heater and storage tank. 2,778,918, 1-22-57, Cl. 219-38.
- Muccino, Louis F. Golf Balls. 2,786,684, 3-26-57, Cl. 273-227.
- Mucher, George J., to Clarostat Mfg. Co., Inc. Discontinuous wire-wound resistance and method of making. 2,783,343, 2-26-57, Cl. 201-63.
- Mucher, George J., to Clarostat Mfg. Co., Inc. Switch-control assembly. 2,784,283, 3-5-57, Cl. 201-55.
- Mucher, George J., to Clarostat Mfg. Co., Inc. Control. 2,798,926, 7-9-57, Cl. 201-48.
- Mucher, George J., to Clarostat Mfg. Co., Inc. Coupling for electrical controls. 2,814,702, 11-26-57, Cl. 200-168.
- Mucher, George J., and G. L. Chapman, to Clarostat Mfg. Co., Inc. Potentiometer. 2,811,620, 10-29-57, Cl. 201-48.
- Mucher, George J., and A. R. Joy, to Clarostat Mfg. Co., Inc. Control structure and method of forming the same. 2,811,621, 10-29-57, Cl. 201-63.
- Muck, Otto H. Massage apparatus with vibratory electric lamp. 2,809,629, 10-15-57, Cl. 128-24.2.
- Mueckter, Heinrich, and E. Jansen, to Chemie Gruenenthal G. m. b. H. Benzimidazole-penicillin salt. 2,776,279, 1-1-57, Cl. 260-239.1.
- Muczenski, Henry, and J. H. Penney, to Westinghouse Electric Corp. Dynamoelectric machine. 2,809,307, 10-8-57, Cl. 310-60.
- Mud Control Laboratories, Inc.: *See*—
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- Mudd, Charles E.: *See*—
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- Mudd, Derek P., to Lionweld Ltd. Methods of connecting intersecting members. 2,798,284, 7-9-57, Cl. 29-155.
- Mudge, William A., to The International Nickel Co., Inc. Electrical heating unit. 2,816,200, 12-10-57, Cl. 201-67.
- Muddiman, Earil R., to United States Steel Corp. Apparatus for handling strip. 2,779,550, 1-29-57, Cl. 242-80.
- Muehlbauer, Fritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of dyestuffs of the phthalocyanine series. 2,795,585, 6-11-57, Cl. 260-314.5.
- Muehlfeld, Clarence G. Chick brooder. 2,787,697, 4-2-57, Cl. 219-35.
- Muehlhouse, Benjamin H., and J. H. Sumner. Masts or towers. 2,795,303, 6-11-57, Cl. 189-14.
- Muehlhausen, Charles H.: *See*—
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- Muehter, Manfred W.: *See*—
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- Muehter, Manfred W., to American District Telegraph Co. Burglar alarm system with equal day and night current. 2,814,033, 11-19-57, Cl. 340-276.
- Muehter, Manfred W., to American District Telegraph Co. Remote testing circuit. 2,817,075, 12-17-57, Cl. 340-214.
- Muelberger, Eric, Jr. Combined bottle closure and order indicating device. 2,791,846, 5-14-57, Cl. 40-4.

- Mueller, Albert C., and E. C. Shokal, to Shell Development Co. Epoxy esters of carbonic acids and their polymers. 2,795,572, 6-11-57, Cl. 260-77.5.
- Mueller, Arthur: *See*—
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- Mueller, Arthur W.: *See*—
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- Mueller, Carl F. and W. A. Ozone generator. 2,808,374, 10-1-57, Cl. 204-313.
- Mueller, Carl H.: *See*—
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- Mueller, Carl H., to The McNeil Machine & Engineering Co. Injector. 2,808,779, 10-8-57, Cl. 103-2.
- Mueller, Carl H., L. C. Rotter, and R. F. Schneller, to The McNeil Machine & Engineering Co. Valve. 2,818,476, 12-31-57, Cl. 200-61.86.
- Mueller, Charles W., to Radio Corp. of America. Semiconductor rectifiers. 2,781,480, 2-12-57, Cl. 317-234.
- Mueller, Charles W., to Radio Corp. of America. Semiconductor devices with alloyed conductivity-type-determining substance. 2,817,613, 12-24-57, Cl. 148-33.
- Mueller, Christ S.: *See*—
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- Mueller Co.: *See*—
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Mueller, Frank H. 2,794,352.
Mueller, Frank H. 2,795,437.
Mueller, Frank H. 2,815,766.
Mueller, Frank H., and Smith. 2,800,812.
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Mueller, Frank H., and Tratzik. 2,784,627.
- Mueller, Egon W. Means for restoration of a damaged socket member of a snap fastener. 2,810,312, 10-22-57, Cl. 81-15.
- Mueller, Emil. Sheet or web material folding machine. 2,794,635, 6-4-57, Cl. 270-70.
- Mueller, Erwin. Stapling magazine and feed means for stapling machines. 2,801,414, 8-6-57, Cl. 1-3.
- Mueller, Eugene A.: *See*—
Walker, Mercer D., and Mueller. 2,793,780.
- Mueller, Frank H., to Mueller Co. Gas pressure regulator. 2,788,798, 4-16-57, Cl. 137-456.
- Mueller, Frank H., to Mueller Co. Drilling machine for use with self-tapping service T. 2,794,352, 6-4-57, Cl. 77-42.
- Mueller, Frank H., to Mueller Co. Removable guide and support sleeve for meter nuts. 2,795,437, 6-11-57, Cl. 285-23.
- Mueller, Frank H., to Mueller Co. Lubricated rotary plug valve. 2,815,766, 12-10-57, Cl. 137-246.15.
- Mueller, Frank H., and E. E. Tinkler, to Mueller Co. Relief valve. 2,776,798, 1-8-57, Cl. 236-93.
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- Mueller, John D. Method of firing pottery. 2,788,561, 4-16-57, Cl. 25-156.
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- Muffy, Glenn. Plural evaporator reversal control mechanism. 2,795,112, 6-11-57, Cl. 62-3.
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- Mugler, Charles M., to Rol-Fol Table, Inc. Roller brake. 2,812,041, 11-5-57, Cl. 188-74.
- Mühlbach, Anton, to United Shoe Machinery Corp. Rotary knives for trimming machines. 2,782,854, 2-26-57, Cl. 164-70.
- Muhlhauser, Fritz. Sunken handle. 2,793,386, 5-28-57, Cl. 16-124.
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- Kirchel, Alan A. 2,786,104.
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- Mulcahy, Harry W., to W. H. Miner, Inc. Draft gears. 2,793,765, 5-28-57, Cl. 213—23.
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- Walsh, Joseph W., and McCombe. 2,810,594.
- Mulder, Arend J. Beater or hammer mill. 2,808,997, 10-8-57, Cl. 241—60.
- Mulder, Johannes G. W., to North American Philips Co., Inc. Gas-filled amplifying tube. 2,805,365, 9-3-57, Cl. 135—115.
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- Mulkin, Marion A. Therapeutic gravity actuated sustained pressure applicator. 2,803,244, 8-20-57, Cl. 128—68.
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- Blamey, William F., Jr., and Mullany. 2,776,139.
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- Fenimore, Ronald W. 2,785,353.
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- Mullen, Maxine C.: See—
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- Müller, Paul A. Machinery for producing filter strands from fibrous pulp. 2,796,810, 6-25-57, Cl. 92—39.
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- Müller, Robert A., to Atlas Plywood Corp. Beam support type box structure. 2,812,096, 11-5-57, Cl. 217—65.
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- Mulligan, Francis J.: See—
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- Mullins, Edward J. Drain fitting for oil well tubing. 2,804,829, 9-3-57, Cl. 103-179.
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- Mulrooney, Vincent D. Automobile signalling systems. 2,787,778, 4-2-57, Cl. 340-75.
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- Munger, Charles G. Method of making plastic lined concrete pipe and joints therein. 2,816,323, 12-17-57, Cl. 18-59.
- Munger, Stanley H., to E. I. du Pont de Nemours and Co. Decobalting of oxo products with live steam. 2,779,796, 1-29-57, Cl. 260-60.
- Munk, Otto, to Halkey-Roberts Corp. Closure device for flexible-walled hollow articles. 2,777,490, 1-15-57, Cl. 150-8.
- Munn, John E. Conversion of metals into metal oxides and hydroxides. 2,811,421, 10-29-57, Cl. 23-200.
- Munoz, Felix: See—
De Ormaetxea, Pedro, and Munoz. 2,784,045.
- Munoz Lopez, Maximo: See—
De los Santos Izquierdo, Federico, and Munoz Lopez. 2,802,549.
- Munro, Gordon, to Murray & Tregurtha, Inc. Side entrance tunnel hull. 2,812,738, 11-12-57, Cl. 115-39.
- Munro, Jerrold A. Folding convertible stroller. 2,812,949, 11-12-57, Cl. 280-41.
- Munro, Wendell F.: See—
Kaplan, Earl, and Munro. 2,804,464.
- Munroe, David J., to Webster Electric Co. Oil burner control system. 2,779,347, 1-29-57, Cl. 137-116.
- Munroe, David J., to Webster Electric Co. Recorder-reproducer winding mechanism. 2,783,951, 3-5-57, Cl. 242-55.
- Munroe, David J., to Webster Electric Co. Pumps. 2,794,398, 6-4-57, Cl. 103-5.
- Munsch, Adrian A. Tables of horizontally nestable form. 2,782,837, 2-26-57, Cl. 155-124.
- Munschauer, Frederick E., to Niagara Machine & Tool Works. Shear. 2,778,421, 1-22-57, Cl. 164-47.
- Munsey, Herbert H. Gun sight. Re. 24,313, 5-14-57, Cl. 33-47.
- Munsingwear, Inc.: See—
Anderson, Carroll R. 2,791,021.
- Munson, Everis D., to Brown & Bigelow. Writing instrument. 2,800,881, 7-30-57, Cl. 120-42.03.
- Munson, George E. Combined boom and platform support. 2,803,389, 8-20-57, Cl. 228-60.
- Munson, Ralph H., and B. T. Setchell. Relays. 2,777,923, 1-15-57, Cl. 200-87.
- Munster, Allen C.: See—
Sunstein, David E., and Munster. 2,788,450.
- Muntean, Eugen: See—
Leb, Anton, Lidl, Gager, Muntean, Schauenstein, Keintzel, and Bolz. 2,801,203.
- Munters, Carl G. Heat insulated walls of cold-storage rooms. 2,804,657, 9-3-57, Cl. 20-4.
- Munters, Carl G. Apparatus for effecting physical interaction between a gaseous and a liquid medium. 2,809,817, 10-15-57, Cl. 261-24.
- Munters, Carl G. Gas and liquid contact apparatus. 2,809,818, 10-15-57, Cl. 261-24.
- Muntz, Alan, & Co. Ltd.: See—
Lovatt, Bernard C. 2,779,644.
Oxnam, George J. 2,781,777.
- Muntz TV, Inc.: See—
Wilson, Rex C. 2,786,159.
- Munz, Otto J.: See—
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- Muolo, Richard. Child's auxiliary seat. 2,792,054, 5-14-57, Cl. 155-79.
- Mural, Hirotada. Inhaling and sniffing pipe. 2,809,634, 10-15-57, Cl. 128-195.
- Mural, Frank: See—
Cressanthus, Andrew G., and Mural. 2,807,718.
- Murakami, Tomomi, and J. C. Achenbach, to Radio Corp. of America. Tuning means for multiple-band signal receiving systems. 2,789,227, 4-16-57, Cl. 250-40.
- Muraoka Rubber Reclaiming Co., Ltd.: See—
Oishi, Yoshimitsu. 2,786,635.
Oishi, Yoshimitsu. 2,786,636.
- Mureek, Slavo J.: See—
Christian, Carl A., and Mureek. 2,813,243.
- Murchison, Bessie F.: See—
Murchison, Blackwell K. 2,795,156.
- Murchison, Blackwell K., deceased; B. F. Murchison, executrix. Knife sharpening device having angularly and lineally adjustable cutters. 2,795,156, 6-11-57, Cl. 76-86.
- Murdoch, Alexander, Jr. Temperature regulator. 2,778,572, 1-22-57, Cl. 236-46.
- Murdock, Clayton E., to Eitel-McCullough, Inc. Ceramic electron tube. 2,812,468, 11-5-57, Cl. 313-317.
- Murdock, Clayton E., and J. J. Woerner, to Eitel-McCullough, Inc. Stem structure for beam type tubes. 2,814,751, 11-26-57, Cl. 313-247.

- Murdock, Elen B., and E. M. Knupfer. Spoon. 2,803,059, 8-20-57, Cl. 30—324.
- Murdock, Forrest L., Sr. Gas, oil and water separator. 2,785,766, 3-19-57, Cl. 183—27.
- Murdock, Stanley A., to The Dow Chemical Co. Antistatic synthetic fibers. 2,815,301, 12-3-57, Cl. 117—139.5.
- Muris, Franz: *See*—
Fischer, Ernst, and Muris. 2,792,385.
- Murphree, Eger V., to the United States of America as represented by the United States Atomic Energy Commission. Process for producing uranium halides. 2,811,414, 10-29-57, Cl. 23—14.5.
- Murphy, Arthur C.: *See*—
Murphy, Frank W. and A. C. 2,791,393.
- Murphy, Arthur J., $\frac{1}{2}$ to S. L. Atkins. Loom. 2,781,788, 2-19-57, Cl. 139—11.
- Murphy, Brian J. M., and J. R. Pope, to United Shoe Machinery Corp. Heel trimming machines. 2,779,957, 2-5-57, Cl. 12—88.
- Murphy, Brian J. M., and J. R. Pope, to United Shoe Machinery Corp. Heel trimming machines. 2,802,226, 8-13-57, Cl. 12—90.
- Murphy, Carl P., to Minneapolis-Honeywell Regulator Co. Air-conditioning system. 2,791,670, 5-7-57, Cl. 219—39.
- Murphy, Charles A.: *See*—
Cunningham, Jerry B., and Murphy. 2,817,417.
- Murphy Chemical Co. Ltd., The: *See*—
Pianka, Max, and Chambers. 2,810,756.
- Murphy, Clarence R., to Warren Petroleum Corp., Inc. Extraction process for the purification of aqueous formaldehyde. 2,799,710, 7-16-57, Cl. 260—606.
- Murphy, Clyde G.: *See*—
La Berge, Robert W., and Murphy. 2,778,745.
- Murphy, Daniel. Pump and lubricator combination. 2,794,399, 6-4-57, Cl. 103—111.
- Murphy Diesel Co.: *See*—
Holloway, John H. 2,779,210.
- Murphy, Donald F.: *See*—
Ogden, William L. W., and Murphy. 2,781,664.
- Murphy, Donald W., to Bethlehem Steel Co. Process for operating a Bessemer converter. 2,801,161, 7-30-57, Cl. 75—60.
- Murphy, Donald W., to Bethlehem Steel Co. Method of controlling the partial blowing of Bessemer steel. 2,807,537, 9-24-57, Cl. 75—60.
- Murphy, Donald W., and P. M. Holsing, deceased (V. K. Holsing, administratrix). Register. 2,797,871, 7-2-57, Cl. 235—13.
- Murphy, Edward A.: *See*—
Murphy, Thomas F. and E. A. 2,785,793.
- Murphy, Edward M.: *See*—
Lowman, Henry C. J., Murphy, Musgrave, and Somers. 2,799,739.
- Murphy, Frank: *See*—
Durant, Lyndon A., Ehrler, and Murphy. 2,791,152.
- Murphy, Frank W. and A. C. Gas shut off valve. 2,791,393, 5-7-57, Cl. 251—68.
- Murphy, Goodrich, to The Budd Co. High capacity private compartment passenger vehicle. 2,808,787, 10-8-57, Cl. 105—315.
- Murphy, Howard: *See*—
Mergen, Joseph M., and Murphy. 2,793,703.
- Murphy, Howard F.: *See*—
Winkler, Herman E., and Murphy. 2,817,217.
- Murphy, Hubert W.: *See*—
Flynn, Edwin H., and Murphy. 2,812,323.
- Murphy, James P.: *See*—
Howey, Walter C. 2,793,253.
- Murphy, James R., and J. K. Darin, to Gulf Research & Development Co. Fluidized coking of solid carbonaceous materials. 2,807,571, 9-24-57, Cl. 202—14.
- Murray, Jerome L., to Pollard & Johnston. Retractable vehicle top with actuator responsive to rain switch. 2,802,694, 8-13-57, Cl. 296—117.
- Murphy, John E.: *See*—
Keating, Henry E., Murphy, and Poss. 2,783,508.
- Murphy, John M.: *See*—
Saunders, Orson V., Murphy, and Sharpe. 2,810,271.
- Murphy, John H., to Detroit Duo Grip Brake Corp. Hydraulic brake assembly. 2,783,858, 3-5-57, Cl. 188—76.
- Murphy, John H., to Detroit Duo-Grip Brake Corporation. Brake assembly. 2,787,340, 4-2-57, Cl. 188—76.
- Murphy, John, L. S. Gournay, and M. O. Johnson, to Socony Mobil Oil Co., Inc. Determination of pore size distribution in large core samples. 2,794,338, 6-4-57, Cl. 73—38.
- Murphy, John M., and L. J. Mann, to General Motors Corp. Two compartment refrigerator. 2,792,691, 5-21-57, Cl. 62—4.
- Murphy, Lloyd T. Pulper. 2,779,251, 1-29-57, Cl. 92—24.
- Murphy Machine Products: *See*—
Olesen, Nels S. 2,799,309.
- Murphy, Nelson F.: *See*—
Charlton, Curtis S., and Murphy. 2,807,575.
- Murphy, Norman B.: *See*—
Noxon, Paul A., and Murphy. 2,776,807.
- Murphy, Orlando J.: *See*—
Henning, Harley A., and Murphy. 2,811,707.
- Lovell, Clarence A., and Murphy. 2,799,730.
- McGuigan, John H., and Murphy. 2,817,828.
- Murphy, Orlando J., to Bell Telephone Laboratories, Inc. Pulse system producing nulls in electrical networks. 2,801,050, 7-30-57, Cl. 235—61.
- Murphy, Owen K.: *See*—
O'Hara, David J. 2,808,827.
- Murphy, Paul B.: *See*—
Andrews, Ernest G., Cesareo, and Murphy. 2,797,862.
- Murphy, Paul M. Orienting mechanism. 2,779,214, 1-29-57, Cl. 74—797.
- Murphy, Raymond A., to Columbia Veneer Co. Veneer taping machine. 2,789,600, 4-23-57, Cl. 144—279.
- Murphy, Richard W., $\frac{1}{2}$ to T. W. Murphy. Method and apparatus for cleaning members of an extracting machine. 2,805,967, 9-10-57, Cl. 134—23.
- Murphy, Robert H., to The Wiremold Co. Elbow connection for surface wiring conduits. 2,790,653, 4-30-57, Cl. 285—156.
- Murphy, Samuel F., Jr., and R. J. Demaison, to Quigley Co., Inc. Composition and method of coating the refractory surface of a furnace therewith. 2,809,126, 10-8-57, Cl. 117—54.
- Murphy, Samuel P.: *See*—
Tettis, Ralph J. 2,809,425.
- Murphy, T. W.: *See*—
Murphy, Richard W. 2,805,967.
- Murphy, Thomas P. and E. A. Safety shut down for conveyor systems. 2,785,793, 3-19-57, Cl. 198—232.
- Murphy, Walter P.: *See*—
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- Murphy, William J., to Perkins Marine Lamp & Hardware Corp. Window construction. 2,789,635, 4-23-57, Cl. 160—103.
- Murphy, William J., H. V. Snow, and J. H. Zich, to Ford Motor Co. Row marker for planters. 2,786,405, 3-26-57, Cl. 97—230.
- Murphy, William L.: *See*—
Crabtree, Toby C., Jr. 2,811,743.
- Murphy, William P., to the United States of America as represented by the Secretary of the Army. Extractor for revolver type automatic gun. 2,777,237, 1-15-57, Cl. 42—68.
- Murrah, Edmund S.: *See*—
Hitchcock, John H., and Murrah. 2,804,925.
- Murray, Alexander, and E. M. Robertson, to Eastman Kodak Co. Photographic color reproduction process. 2,787,543, 4-2-57, Cl. 96—14.
- Murray, Allen E., to Bausch & Lomb Optical Co. Focusing lens for ophthalmic instrument. 2,777,364, 1-15-57, Cl. 88—57.
- Murray, Arthur J. Service unit for cold foods. 2,810,276, 10-22-57, Cl. 65—15.
- Murray Corp. of America, The: *See*—
Anderson, Anders. 2,809,650.
- Engel, J. Anthony, Flannery, and Hullar. 2,797,497.
- Glassey, Philip P., and Walker. 2,788,010.
- Leach, Hugh K. 2,813,413.
- May, Claude H. 2,778,656.
- Rogers, John P. 2,811,870.
- Stelljes, Charles R. 2,788,101.
- Stillwell, William E., Jr. 2,785,537.
- Stillwell, William E., Jr. 2,806,095.
- Muirhead, James. 2,792,129.
- Todd, Richard F. 2,813,543.
- Murray Deodorisers Ltd.: *See*—
Murray, Henry L. 2,815,289.
- Murray, Everett H., Jr.: *See*—
Hartough, Howard D., and Murray. 2,784,174.
- Murray, George, and T. B. Watkins, to The General Electric Co. Ltd. Automatic frequency control. 2,788,445, 4-9-57, Cl. 250—36.
- Murray, Harry B.: *See*—
Boerner, Lewis W., Holmes, and Murray. 2,799,352.
- Murray, Henry L., to Murray Deodorisers Ltd. Method of and means for facilitating the sterilising of apparatus for steam treatment of liquids. 2,815,289, 12-3-57, Cl. 99—216.
- Murray, Herbert C., and D. H. Peterson, to The Upjohn Co. 15-oxy-androstenes and 15-oxy-19-norandrostenes. 2,793,216, 5-21-57, Cl. 260—397.4.
- Murray, Herbert C., and D. H. Peterson, to The Upjohn Co. 8-hydroxy-11-deoxycorticosterones. 2,800,490, 7-23-57, Cl. 260—397.45.
- Murray, Herbert L. Poultry feed dispenser. 2,786,447, 3-26-57, Cl. 119—52.
- Murray, Hilton B. Molding and counter top installation. 2,785,937, 3-19-57, Cl. 311—103.
- Murray, Howard J. Automobile testing device. 2,782,634, 2-26-57, Cl. 73—71.7.
- Murray, Howard L. Milling cutter. 2,814,854, 12-3-57, Cl. 29—105.
- Murray, James, to Shwayder Brothers. Hinge and check. 2,815,528, 12-10-57, Cl. 16—140.
- Murray, James G., Jr.: *See*—
Bourek, Rudolf, Skozdopole, and Wachendorfer. 2,797,746.
- Bourek, Rudolf, and Wachendorfer. 2,788,175.
- Murray, James J. Bead seating tourniquet for tubeless tires. 2,778,415, 1-22-57, Cl. 157—1.21.
- Murray, James V., Jr., and J. R. Anderson, to Union Carbide and Carbon Corp. Process for recovery of naphthalene from crude naphthalene. 2,779,722, 1-29-57, Cl. 202—59.
- Murray, John F., to Thompson Products, Inc. Pressure loaded gear pump. 2,816,512, 12-17-57, Cl. 103—126.
- Murray, John W.: *See*—
Manning, Ralph M., Kernander, Murray, and Camp. 2,816,184.

- Murray, Maurice J.: *See*—
Haensel, Vladimir, and Murray. 2,818,394.
- Murray, Maurice J., and H. A. Plagge, to Universal Oil Products Co. Process for removing arsenic from a hydrocarbon feed oil used in a reforming process employing a noble metal as a catalyst. 2,779,715, 1-29-57, Cl. 196-50.
- Murray, Maxton F., A. C. Ott, and R. L. Pederson, to The Upjohn Co. Steroid intermediates. 2,806,039, 9-10-57, Cl. 260-345.2.
- Murray-Ohio Mfg. Co.: *See*—
Douglas, Alvin P. 2,798,771.
Douglas, Alvin P., and Hahn. 2,797,105.
Schreckengost, Viktor, and Hahn. 2,798,739.
- Murray, Peter, I. E. Denton, and D. Wilkinson, to National Research Development Corp. Production of thoria ware. 2,807,857, 10-1-57, Cl. 25-156.
- Murray, Ralph P. Garment hanger. 2,777,621, 1-15-57, Cl. 223-94.
- Murray, Ralph P. Folding garment hanger. 2,782,969, 2-26-57, Cl. 223-94.
- Murray, Ray M., Jr., to Clough Equipment Co. Balanced pneumatic conveying systems for pulverulent material. 2,814,531, 11-26-57, Cl. 302-22.
- Murray, Robert S. Manipulation resisting combination lock. 2,792,703, 5-21-57, Cl. 70-314.
- Murray, Roy W., Jr.: *See*—
Finkel, Leonard, and Murray. 2,789,270.
- Murray, Thomas M. Diaper washing attachment for lavatory fixtures. 2,791,781, 5-14-57, Cl. 4-1.
- Murray, Thomas W.: *See*—
Faulhaber, James W., Fisher, Simons, and Murray. 2,804,756.
- Murray & Tregurtha, Inc.: *See*—
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- Murray, William A., to The B. F. Goodrich Co. Method of making side-driving belts. 2,792,872, 5-21-57, Cl. 154-4.
- Musacchia, George. Disposal unit for cloth articles and the like. 2,805,425, 9-10-57, Cl. 4-10.
- Musat, George: *See*—
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Poole, Arthur J., Musat, and Clark. 2,806,518.
- Muschamp, Harold L., and J. R. Grady. Bunch builder for winding machines. 2,811,318, 10-29-57, Cl. 242-27.1.
- Müschenborn, Walter: *See*—
Reerink, Wilhelm, Müschenborn, and Nötzold. 2,781,904.
- Muse, John F., to Baker Oil Tools, Inc. Apparatus for lowering and elevating tools in well bores. 2,799,344, 7-16-57, Cl. 166-123.
- Muse, Robert B.: *See*—
Fleming, Edward P., Fitt, and Muse. 2,810,563.
- Musgrave, Daniel D. Automatic firearm. 2,777,365, 1-15-57, Cl. 89-155.
- Musgrave, John C., Jr.: *See*—
Lowman, Henry C. J., Murphy, Musgrave, and Somers. 2,799,739.
- Musgrave, Kenneth L.: *See*—
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- Musgrave, Orly. Power driven rotary cutter trailer assembly. 2,779,147, 1-29-57, Cl. 56-25.4.
- Musgrave, William J., to John E. Fast & Co. Impregnated dielectric material. 2,782,134, 2-19-57, Cl. 117-154.
- Musgrove, Frederick E.: *See*—
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- Musgrove, Thomas P., to Godfrey L. Cabot, Inc. Process for decontaminating oleaginous liquids. 2,799,645, 7-16-57, Cl. 210-42.
- Musho, Peter. Photographic printing machine. 2,780,154, 2-5-57, Cl. 95-75.
- Mushovic, Peter, and H. W. Schultz, to General Motors Corp. Method for making composite stock. 2,782,498, 2-26-57, Cl. 29-497.5.
- Muskat, Irving E.: *See*—
Lukman, John C., and Muskat. 2,789,903.
- Muskegon Piston Ring Co.: *See*—
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Hamm, Douglas W. 2,785,027.
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- Swartz, Allan E., and Hamm. 2,798,779.
- Muskin Mfg. Co., Inc.: *See*—
Muskin, Nathan, and Barrera. 2,807,026.
- Muskin, Nathan, and S. E. Barrera, to Muskin Mfg. Co., Inc. Wading pool. 2,807,026, 9-24-57, Cl. 4-177.
- Musolf, Gunter F., J. F. Eckert, Jr., and G. A. Senior, to Radio Corp. of America. Cathode ray tube protecting and energizing circuits. 2,808,536, 10-1-57, Cl. 315-20.
- Musschott, Albert, and D. A. Davis, to Link-Belt Co. Feeder. 2,818,162, 12-31-57, Cl. 198-46.
- Mussell, Dorsey R., and H. H. Roth, to The Dow Chemical Co. Method and composition for the improvement of soil structure. 2,778,809, 1-22-57, Cl. 260-41.
- Musser, C. W., and F. W. Dietsch, to the United States of America as represented by the Secretary of the Army. Devices for moving objects such as aircraft canopies. 2,780,961, 2-12-57, Cl. 89-1.
- Musser, C. Walton, to the United States of America as represented by the Secretary of the Army. Recoilless types ammunition having self-contained venturi. 2,791,961, 5-14-57, Cl. 102-38.
- Musser, C. Walton, to the United States of America as represented by the Secretary of the Army. Gun aiming mechanism with associated trigger release mechanism and supporting mount. 2,805,603, 9-10-57, Cl. 89-41.
- Musser, C. Walton, to the United States of America as represented by the Secretary of the Army. Reinforced-fin rotating band. 2,809,587, 10-15-57, Cl. 102-93.
- Musser, Clair O. Bells. 2,787,929, 4-9-57, Cl. 84-406.
- Musser, Clair O., to Knickerbocker Plastics Co., Inc. Musical box construction. 2,807,181, 9-24-57, Cl. 84-95.
- Musser, Clair O., to Knickerbocker Plastic Co. Inc. Pop-up target. 2,809,836, 10-15-57, Cl. 273-102.1.
- Musser, Clarence W.: *See*—
Bluford, Guion S., and Musser. 2,789,471.
- Musser, Clarence W., to the United States of America as represented by the Secretary of War. Cartridge case holder and extractor and breech mechanism for heat caliber recoilless gun. 2,807,195, 9-24-57, Cl. 89-21.
- Musser, David M., to Onyx Oil and Chemical Co. Process of shrinkproofing regenerated cellulose fabric with alkoxy-methylene quaternary ammonium compositions and product produced therewith. 2,793,929, 5-28-57, Cl. 8-116.2.
- Mussnug, Adolph H.: *See*—
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- Musslewhite, Ernest, Jr., and J. C. Roediger, to Esso Research and Engineering Co. Separation of contact solids according to degree of contamination. 2,780,585, 2-5-57, Cl. 196-52.
- Mussy, Rene M. Bobby pin holder. 2,796,871, 6-25-57, Cl. 132-1.
- Mussy, Rene M. Dual purpose hair roller. 2,796,872, 6-25-57, Cl. 132-40.
- Musyl, Robert. Apparatus for manufacturing profiled bodies. 2,806,330, 9-17-57, Cl. 51-101.
- Mustee, Bernard E., to E. L. Mustee and Sons, Inc. Waste and storage water control system for laundry tubs. 2,780,241, 2-5-57, Cl. 137-590.
- Mustee, Bernard E., to E. L. Mustee & Sons, Inc. Distribution system for laundry equipment. 2,799,289, 7-16-57, Cl. 137-207.
- Mustee, Bernard E., to E. L. Mustee & Sons, Inc. Laundry water distribution system. 2,817,098, 12-24-57, Cl. 4-195.
- Mustee, E. L., and Sons, Inc.: *See*—
Mustee, Bernard E. 2,780,241.
Mustee, Bernard E. 2,799,289.
Mustee, Bernard E. 2,817,098.
- Mustillo, Nunzio, and A. C. de Digiaco. Pumps. 2,815,719, 12-10-57, Cl. 103-178.
- Mutaffis, Thomas D.: *See*—
Brouillard, Robert E., Mutaffis, and Shrader. 2,796,418.
- Mutchler, Norman D., $\frac{1}{2}$ to S. Morton and $\frac{1}{2}$ to B. H. Toay. Fishing lure. 2,793,460, 5-28-57, Cl. 43-42.26.
- Mutchnik, Henry. Detachable leg mountings for tables and chairs. 2,801,144, 7-30-57, Cl. 311-110.
- Mutolese, Michael, to H. Daroff & Sons, Inc. (also known as The House of Worsted-Tex, Inc.). Pressing head and buck. 2,800,260, 7-23-57, Cl. 223-57.
- Muttera, William H., Jr.: *See*—
Tobey, Frederic S., and Muttera. 2,818,168.
- Mutti, Adolph J. Anti-crash auto door lock. 2,785,916, 3-19-57, Cl. 292-144.
- Mutti, Henry L.: *See*—
Powers, Howard A., Mutti, and Boyles. 2,782,274.
- Mutti, Victor E. Dragline bucket. 2,814,890, 12-3-57, Cl. 37-135.
- Mutzenback, Edward: *See*—
Roth, Kenneth P. 2,803,471.
- Muzak Corp.: *See*—
Coco, Joseph C. 2,802,060.
- Muzzey, Benjamin C., to Boeing Airplane Co. Multiple derivative instruments. 2,795,957, 6-18-57, Cl. 74-5.6.
- Muzzey, Benjamin C., H. Recker, and V. J. Sims, Jr., to Boeing Airplane Co. Rate gyros. 2,817,974, 12-31-57, Cl. 74-5.4.
- Muzzy, Maurice F.: *See*—
Nygren, Gilbert A., and Muzzy. 2,778,586.
- Myer, Fred C.: *See*—
Myer, Howard I. and F. C. 2,779,309.
Myer, Howard I. and F. C. 2,779,310.
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- Myer, Howard I. and F. C. Dairy stable sanitation equipment. 2,779,310, 1-29-57, Cl. 119-27.
- Myer, Jack. Micrometer mounting. 2,788,580, 4-16-57, Cl. 33-167.
- Myer, Jon H. Egg aligner. 2,796,967, 6-25-57, Cl. 198-33.
- Myerberg, Michael: *See*—
Ianuzzi, Anthony P. 2,782,670.
- Myers, Charles. Material elevator. 2,786,550, 3-26-57, Cl. 187-12.
- Myers, Charles E. Pressure control device. 2,786,600, 3-26-57, Cl. 222-20.
- Myers, Charles F. Supports. 2,795,388, 6-11-57, Cl. 248-122.
- Myers, Chester G., and O. Fiore; said Fiore assor. to said Myers. Box construction. 2,797,854, 7-2-57, Cl. 229-30.
- Myers, Clarence R.: *See*—
Stevens, Harold W., and C. R. and J. B. Myers. 2,806,678.
- Myers, Crystal: *See*—
Myers, Herman E. 2,812,756.
- Myers, Elman B., to Scarborough Associates, Inc. Lamp. 2,818,521, 12-31-57, Cl. 313-113.
- Myers, George D., to Houdry Process Corp. Make-up catalyst addition in a hydrocarbon conversion process. 2,786,800, 3-26-57, Cl. 196-52.
- Myers, Glen H. Mechanically operated cover. 2,815,204, 12-3-57, Cl. 268-74.

- Myers, Harold N., to Sealed Power Corp. Method of cooling of centrifugal sleeve molds. 2,797,459, 7-2-57, Cl. 22—200.5.
- Myers, Henry: *See*—
Ryder, Richard D. G., and Myers. 2,807,343.
- Myers, Henry F., and O. A. Proells, to United States Steel Corp. Galvanizing composition and process. 2,793,965, 5-28-57, Cl. 117—109.
- Myers, Herman E., $\frac{1}{2}$ to C. Myers. Bow and arrow fishing device. 2,812,756, 11-12-57, Cl. 124—23.
- Myers, Homer S., to the United States of America as represented by the Secretary of the Navy. 2,806,137, 9-10-57, Cl. 250—17.
- Myers, John B.: *See*—
Stevens, Harold W., and C. R. and J. B. Myers. 2,806,678.
- Myers, John F. Process of simultaneously wet grinding and classifying a sulfide ore. 2,791,382, 5-7-57, Cl. 241—24.
- Myers, John F., to Mining Process and Patent Co. Aeration and flotation cell and method of froth flotation. 2,792,939, 5-21-57, Cl. 209—166.
- Myers, John H., to Waldorf Paper Products Corp. Foldable shoe tree having means for engaging the heel of a shoe. 2,799,032, 7-16-57, Cl. 12—128.
- Myers, John W.: *See*—
Mabry, Lloyd C., Jr., and Myers. 2,817,626.
- Myers, John W., to Phillips Petroleum Co. Isomerization of aromatic hydrocarbon. 2,818,451, 12-31-57, Cl. 260—668.
- Myers, John W., and L. C. Mabry, Jr., to Phillips Petroleum Co. Reforming catalysts of alumina, molybdenum oxide, fluorine, and one or both of titania and iron oxide, and method for making same. 2,784,162, 3-5-57, Cl. 252—466.
- Myers, Joseph R. Wall fastener affixing devices. 2,799,860, 7-23-57, Cl. 1—49.8.
- Myers, L. E., Co., The.: *See*—
Martin, Harold J. 2,802,489.
- Martin, Harold J. 2,806,380.
- Myers, Leslie C. Pillow. 2,795,802, 6-18-57, Cl. 5—337.
- Myers, Lester W.: *See*—
Townsend, John E., and Myers. 2,811,196.
- Myers, Lew L., F. P. Parish, and J. L. Straughn, to Sanitary Products Corp. Film-tipped catamenial tampons. 2,808,832, 10-8-57, Cl. 128—285.
- Myers, Louis. Ice cream disher. 2,780,183, 2-5-57, Cl. 107—48.
- Myers, Lowell E.: *See*—
Vermette, Albert P., and Myers. 2,799,796.
- Myers, Melvin C., Jr.: *See*—
Byrnes, Irving F., Myers, and Zettler. 2,811,708.
- Myers, Myron L., and G. C. Marcot, to American Cyanamid Co. Oxidation depressants for titanous sulfate solutions. 2,800,391, 7-23-57, Cl. 23—117.
- Myers, Ralph C. Mold disk position indicator. 2,807,353, 9-24-57, Cl. 199—48.
- Myers, Raymond E.: *See*—
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- Wertz, John L. 2,817,923.
- Myers, Raymond R., and A. C. Zettlemoyer, to Olin Mathieson Chemical Corp. Viscometer. 2,796,758, 6-25-57, Cl. 73—60.
- Myers, Robert R., Jr. Method of making printing plates. 2,800,856, 7-30-57, Cl. 101—401.1.
- Myers, Robert R., Jr. Method of producing printing plates. 2,814,990, 12-3-57, Cl. 101—401.1.
- Myers, Rolland D., and S. Hormats, to the United States of America as represented by the Secretary of War, as trustee. Drying apparatus. 2,816,372, 12-17-57, Cl. 34—216.
- Myers Sherman Co., The: *See*—
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- Myers, Wayne E., to The American Laundry Machinery Co. Rug conveyor for dry room. 2,783,868, 3-5-57, Cl. 198—178.
- Myers, William H.: *See*—
Conkling, Roy F. 2,783,351.
- Myers, Willard H. Magnetic cigarette extinguishing container. 2,779,342, 1-29-57, Cl. 131—256.
- Myhre, Wilhelm: *See*—
Nielsen, Tor W. 2,792,127.
- Mykleby, Olaf S.: *See*—
Tomek, Bernard R., and Mykleby. 2,778,668.
- Myles, Asa H., to Square D Co. Control system for, and a method of, controlling a plurality of direct current motors. 2,784,360, 3-5-57, Cl. 318—63.
- Myles, John D., and E. L. Pierce. Retractable support for trailer draft means. 2,784,007, 3-5-57, Cl. 280—150.5.
- Myting, Lauritz E., to The Allen-Sherman-Hoff Co. Automatic solids handling system. 2,776,171, 1-1-57, Cl. 302—27.
- Myting, Lauritz E., to The Allen-Sherman-Hoff Co. Snubber vent for a storage silo. 2,807,202, 9-24-57, Cl. 98—54.
- Myrent, Harry L., and J. T. Elwood, to Vapor Heating Corp. Immersion type thermostat. 2,802,081, 8-6-57, Cl. 200—141.
- Myrick, Lucious C. Expandible collar. 2,800,660, 7-30-57, Cl. 2—116.
- Myrold, Albin O.: *See*—
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- Myrold, Conrad and A. O. 2,815,781.
- Myrold, Conrad and A. O. Straw disintegrator. 2,815,781, 12-10-57, Cl. 146—117.
- Mysse, Louis B. Transformer construction. 2,792,555, 5-14-57, Cl. 336—98.
- Mysse, Louis B. Pilot light assembly. 2,784,398, 3-5-57, Cl. 340—381.
- Mytinger, Lee S. Capsule and tablet pocket carrier. 2,777,570, 1-15-57, Cl. 206—42.
- NSU Werke Aktiengesellschaft: *See*—
Roder, Albert. 2,784,709.
- N. V. Algemeene Norit Maatschappij: *See*—
Van der Weel, Thonis J. 2,787,579.
- N. V. Billiton Maatschappij: *See*—
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- N. V. Brabantse Kunstweverij "De Huifkar": *See*—
Isbouts, Petrus. 2,808,078.
- N. V. Bronswerk: *See*—
Van Dongen, Dingeman. 2,779,589.
- N. V. "COQ": *See*—
Hidde Nijland, Hendrik A. 2,777,920.
- Hidde Nijland, Hendrik A. 2,784,270.
- Hidde Nijland, Hendrik A. 2,810,893.
- N. V. Centrale Suiker Maatschappij: *See*—
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- Van Jusingha, Jacob. 2,785,180.
- N. V. Eternit v. h. Eerste Nederlandsche Fabriek van Asbest-Cementplaten "Martinit": *See*—
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- N. V. Fijne Vleeschwaren-en Conservenfabriken van Anton Hunink: *See*—
Kemps, Andreas W. W. 2,806,793.
- N. V. Industriële Onderneming W. H. Braskamp: *See*—
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- N. V. "Jervalon" Maatschappij voor Voedingsmiddelen op Wetenschappelijke basis (Scientific Food Co.): *See*—
Petuely, Friedrich. 2,811,450.
- N. V. Maatschappij tot Exploiteren van Octrooien en Licenties "Matepa": *See*—
Kalis, Kornelis P. 2,817,587.
- N. V. Metallic Industry: *See*—
Cahn, Karl. 2,792,809.
- N. V. Nederlandsche Instrumenten Compagnie "Nedinsco": *See*—
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- N. V. Nederlandsche Machinefabriek "Artillerie-Inrichtingen": *See*—
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- Blaisse, Berndt S., Bulthuis, and Becker. 2,785,604.
- Bouwers, Albert. 2,780,142.
- Bouwers, Albert. 2,803,996.
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- Nieuwenhoven, Hendricus J. C. 2,817,998.
- N. V. Organon: *See*—
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- N. V. Technische Maatschappij Marchand-Andriessen: *See*—
Van Marle, Frederick. 2,792,218.
- N. V. Tema: *See*—
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- N. V. Vereenigde Tabaksindustrieën Mignot & De Block: *See*—
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- Verhappen, Jacobus T., Maas, and Verbakel. 2,813,388.
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- N. V. P. F. van Ulissinge & Co's Katoenfabrieken: *See*—
Seelen, Petrus J. H. 2,793,033.
- Naab, Gerard A., to Fox Products Co. Gauging apparatus. 2,783,541, 3-5-57, Cl. 33—147.
- Naamlooze Vennootschap Kunstzijkespinnerij Nyma: *See*—
Janssen, Henricus J. H. 2,787,610.
- "Naamloze Vennootschap Vereenigde Glasfabrieken (United Glassworks)": *See*—
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- Nabeit, Ivar. Door lock for automaton for delivering benzine, oil or other goods. 2,780,088, 2-5-57, Cl. 70—389.
- Naber, Joseph S.: *See*—
Hupert, Julius J., and Naber. 2,805,336.
- Nabors, Lester G.: *See*—
Kennedy, Thomas J., and Nabors. 2,786,879.
- Nabreski, Benjamin D.: *See*—
Rove, Gene, Van Dyke, and Nabreski. 2,789,508.
- Nachman Corp.: *See*—
Gleason, William W. 2,784,422.
- Gleason, William W. 2,790,979.
- Nachman, Joseph F., to the United States of America as represented by the Secretary of the Navy. Method of rendering an aluminum-iron alloy ductile. 2,801,942, 8-6-57, Cl. 148—2.
- Nachmansohn, David: *See*—
Wilson, Irwin B., Ginsburg, and Nachmansohn. 2,816,113.
- Nachtman, Elliot S.: *See*—
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- Nachtman, Elliot S., to La Salle Steel Co. Method for improving the machinability of steel. 2,789,069, 4-16-57, Cl. 148—4.
- Nachtmann, Walter: *See*—
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- Nack, Herman R., to The Commonwealth Engineering Co. of Ohio. Metal coated glass fiber and method of its formation. 2,791,515, 5-7-57, Cl. 117—71.

- Nack, Herman R., to The Commonwealth Engineering Co. of Ohio. Catalytic nickel plating apparatus. 2,817,311, 12-24-57, Cl. 118-48.
- Nack, Herman R., and W. A. Waldie, to Chadeloid Corp. Stain and method of application. 2,802,746, 8-13-57, Cl. 106-34.
- Nack, Herman R., H. J. Homer, and J. R. Whitacre, to The Commonwealth Engineering Co. of Ohio. Apparatus and method for the production of metallized materials. 2,812,272, 11-5-57, Cl. 117-107.
- Nack, Herman R., and J. R. Whitacre, to The Commonwealth Engineering Co. of Ohio. Process of plating glass fiber rovings with iron metal. 2,818,351, 12-31-57, Cl. 117-107.
- Nackenhorst, Fred P. H., to Oklahoma Steel Castings Co., Inc. Lead screw tapper. 2,784,267, 3-5-57, Cl. 200-47.
- Nackers, Albert G. Rotating disk game device. 2,803,464, 8-20-57, Cl. 273-142.
- Nackers, Albert G. Rotating disk game device. 2,809,041, 10-8-57, Cl. 273-143.
- Nadeau, Elphege. Hand-loom shuttle. 2,783,781, 3-5-57, Cl. 139-197.
- Nadeau, Elphege. Portable hand loom. 2,798,512, 7-9-57, Cl. 139-33.
- Nadeau, Elphege. Hand loom. 2,811,175, 10-29-57, Cl. 139-29.
- Nadeau, Gale F.: See—
White, Walter R., and Nadeau. 2,775,954.
- Nadeau, Gale F., to Eastman Kodak Co. Cementable low-curl sheeting and method of making the same. 2,812,279, 11-5-57, Cl. 154-136.
- Nadeau, Gale F., and C. B. Thompson, to Eastman Kodak Co. Removable layers for film. 2,801,191, 7-30-57, Cl. 117-138.8.
- Nadel, Alvin. Yarn with decorative covering. 2,807,132, 9-24-57, Cl. 57-151.
- Nadel, Bernard. Metal stock feeder mechanism. 2,810,573, 10-22-57, Cl. 271-2.5.
- Nadel, Manuel R., to Comptone Co., Ltd. Display devices. 2,816,666, 12-17-57, Cl. 211-13.
- Naderhoff, Heinrich, to L. Schuler A. G. Machine tool. 2,777,518, 1-15-57, Cl. 164-50.
- Nadler, August. Lawn mower handle attachment. 2,796,718, 6-25-57, Cl. 56-249.
- Nadler, Harry: See—
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- Nadler, Martin L., to E. I. du Pont de Nemours & Co. Chemical process. 2,810,681, 10-22-57, Cl. 202-57.
- Nadler, Max A.: See—
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- Nadolski, Paul M., to Bell Telephone Laboratories, Inc. Phase indicator. 2,816,266, 12-10-57, Cl. 324-88.
- Nadrowski, Arthur S., and B. C. Wells, to Westinghouse Electric Corp. Pneumatic timing device. 2,808,881, 10-8-57, Cl. 161-1.
- Naftali, Esther: See—
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- Naftali, Rudolph, and E. Naftali. Necktie construction. 2,796,611, 6-25-57, Cl. 2-151.
- Nagel-Chase Mfg. Co., The: See—
Schultz, Edward H., Jr. 2,787,165.
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Schultz, Edward H., Jr. 2,800,679.
- Nagel, Eric W., to Wrought Iron Range Co. Oven liner. 2,797,680, 7-2-57, Cl. 126-19.
- Nagel, George W., to Westinghouse Electric Corp. Temperature control. 2,795,697, 6-11-57, Cl. 250-27.
- Nagel, Hans-Joachim, to Manufacture de Machines du Haut-Rhin. Method of forming metal cups, out of which hollow metal bodies with closed bottom can be manufactured by further drawing. 2,814,863, 12-3-57, Cl. 29-534.
- Nagels, Frederik, to Chemische Fabriek L. van der Grinten N. V. Apparatus for carrying out a transfer process. 2,780,973, 2-12-57, Cl. 95-89.
- Nagin, Harold, to Reliance Steel Products Co. Flooring structure. 2,781,703, 2-19-57, Cl. 94-30.
- Nagin, Harold, to Reliance Steel Products Co. Road form and anchor therefor. 2,795,836, 6-18-57, Cl. 25-118.
- Nagle, Floyd B.: See—
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- Nagle, Floyd B., to The Dow Chemical Co. Molding compositions of alkenyl aromatic resins and copolymers of butadiene and a monovinyl aromatic hydrocarbon and method of making the same. 2,810,707, 10-22-57, Cl. 260-45.5.
- Nagle, Henrietta M. Filter cigarette holder. 2,778,364, 1-22-57, Cl. 131-182.
- Nagle, Joseph J., to F. T. Donaghy. Grinding attachment for machine tools. 2,802,320, 8-13-57, Cl. 51-241.
- Nagle, Wilson D., and F. La Barre, Jr., to Curtiss-Wright Corp. Gage for measuring depth of scratches and abrasions. 2,799,940, 7-23-57, Cl. 33-172.
- Nagy, Arpad. Diamond dressing tools. 2,791,211, 5-7-57, Cl. 125-11.
- Nagy, Rudolph, and R. W. Wollentin, to Westinghouse Electric Corp. Electroluminescent cell. 2,791,723, 5-7-57, Cl. 315-115.
- Nagy, Stephen: See—
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- Nahin, Paul G.: See—
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- Naifeh, Joseph M.: See—
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- Nail, James J.: See—
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- Nail, Walter P. Method of making pouches. 2,779,144, 1-29-57, Cl. 53-29.
- Nail, Walter P. Protective covers for chesterfields, chairs, and the like. 2,779,396, 1-29-57, Cl. 155-182.
- Najer, Henry: See—
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- Najjar, John, to Ford Motor Co. Vehicle speedometer mounting. 2,804,931, 9-3-57, Cl. 180-90.
- Najmowski, Michael F. Antifriction device for tool carriage of metal working machine. 2,801,888, 8-6-57, Cl. 308-6.
- Nakaji, Edward M., and H. M. Sullivan, to Central Scientific Co. Vacuum release valves. 2,793,830, 5-28-57, Cl. 251-147.
- Nakaseko, Nobuo: See—
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- Nakken, Theodore H. Photographic objective comprising air spaced axially aligned positive and negative lenses. 2,792,750, 5-21-57, Cl. 88-57.
- Nale, Clifford E. Water skiing device. 2,816,310, 12-17-57, Cl. 9-21.
- Nalezty, Frank, 50% to V. Nalezty. Leading paddle. 2,792,263, 5-14-57, Cl. 306-44.
- Nalezty, Victoria: See—
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- Nalle, George S., Jr. Plastic dish with cover connection. 2,780,259, 2-5-57, Cl. 150-0.5.
- Nalle, George S., Jr. Dispatcher's board with movable facing sections. 2,804,607, 8-27-57, Cl. 340-225.
- Nallinger, Friedrich K. H. Drive, particularly for vehicles. 2,777,332, 1-15-57, Cl. 74-368.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Vehicle, and more particularly suspension of the wheels thereof by half axles. 2,806,543, 9-17-57, Cl. 180-73.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Air filter. 2,812,751, 11-12-57, Cl. 123-119.
- Nallinger, Friedrich K. H. Container lining. 2,814,414, 11-26-57, Cl. 220-65.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Fuel control device for internal combustion engines. 2,817,323, 12-24-57, Cl. 123-103.
- Nalven, Robert M., to Combustion Engineering, Inc. Soot blowing apparatus. 2,797,669, 7-2-57, Cl. 122-392.
- Namur, Carl A., to Girton Mfg. Co. Centrifugal pump. 2,784,673, 3-12-57, Cl. 103-103.
- Nanco, Inc.: See—
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- Nankervis, George L., Co.: See—
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- Nanna, Frank S. Clip holder for playing cards and the like. 2,818,262, 12-31-57, Cl. 273-150.
- Nanni, Americo V. Speed changing device. Re. 24,288, 3-19-57, Cl. 24-63.
- Nanz, Ernst, to Societe d'Equipements Industriels et Laitiers, and W. J. Sidler. Butter washing device. 2,791,834, 5-14-57, Cl. 31-33.
- Naomi, Perry. Pushtoy for infants. 2,789,391, 4-23-57, Cl. 46-32.
- Napier, D., & Son Ltd.: See—
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Chamberlin, Reginald H. D. 2,795,110.
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Cowdrey, Cecil L., and Kinsella. 2,791,668.
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Farries, Alexander G. 2,787,694.
Gilbert, Ronald A. 2,791,655.
Lines, Anthony H. 2,786,128.
Morley, Arnold W., and Mortimer. 2,814,929.
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- Napiorski, Carl A.: See—
Arnold, Cornelius S., Calaman, Napiorski, and Fleming. 2,794,620.
- Naples, Angelo F.: See—
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- Napoli, Vincent B. Surgical splint. 2,785,672, 3-19-57, Cl. 128-87.
- Napp, Sidney M., to Besly-Welles Corp. Grinding machine utilizing abrasive discs. 2,805,525, 9-10-57, Cl. 51-118.
- Naras Research, Inc.: See—
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Schwartz, Nathan R. 2,799,773.
- Nardulli, Michael J., to M. J. Nardulli, A. F. Naples and P. F. Nardulli, as trustees. Window structures. 2,799,060, 7-16-57, Cl. 20-52.2.

- Nardulli, Michael J., to Western Engineering Trust. Auxiliary windows. 2,816,632, 12-17-57, Cl. 189-76.
- Nardulli, Peter F.: *See—*
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- Narel, Joseph W., to Norton Co. Grinding machine. 2,813,381, 11-19-57, Cl. 51-105.
- Narel, Joseph W., and G. C. Joyce, to Norton Co. Grinding machine-work loader. 2,813,380, 11-19-57, Cl. 51-105.
- Narmco Sporting Goods Co.: *See—*
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- Narozny, Ronald S., to Malco Tool & Mfg. Co. Terminal pin for printed circuit board. 2,811,702, 10-29-57, Cl. 339-220.
- Narozny, Ronald S., to Malco Tool & Mfg. Co. Prong receiving connector member. 2,814,024, 11-19-57, Cl. 339-193.
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- Narrow, Anton H. and E. A. Lubricator means for strip casting machines. 2,807,843, 10-1-57, Cl. 22-57.2.
- Narrow, Edward A.: *See—*
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- Narscius, Kazys: *See—*
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- Nash, Alfred G.: *See—*
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- Nash, Charles D.: *See—*
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- Nash, Daniel J., to Nash Inc. Self-opening receptacle. 2,795,259, 6-11-57, Cl. 150-37.
- Nash, Daniel J., to Nash Inc. Automatic flap opener. 2,804,113, 8-27-57, Cl. 150-10.
- Nash, Daniel J., to Nash Inc. Flat-bottomed coin purse. 2,804,114, 8-27-57, Cl. 150-44.
- Nash, Dudley O., to Sperry Rand Corp. Transmission and revolution counting apparatus. 2,809,291, 10-8-57, Cl. 250-27.
- Nash Engineering Co.: *See—*
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- Nash, Fred, Jr.: *See—*
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- Nash, Humphrey L., $\frac{1}{4}$ to H. L. Nash, Jr., and $\frac{1}{4}$ to J. Nash II, as trustees. Rotary pump. 2,812,719, 11-12-57, Cl. 103-123.
- Nash, Humphrey L., Jr.: *See—*
Nash, Humphrey L. 2,812,719.
- Nash Inc.: *See—*
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Nash, Daniel J. 2,804,114.
- Nash, James F., Jr., C. D. Nash, and L. H. Basham. Apparatus for inserting tissue sheets in folder blanks while being folded. 2,789,815, 4-23-57, Cl. 270-45.
- Nash, John, II: *See—*
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- Nash-Kelvinator Corp.: *See—*
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Philipp, Lawrence A. 2,816,318.
- Nash, Martin E., to Phillips Petroleum Co. Cooling and handling of petroleum pitches. 2,802,236, 8-13-57, Cl. 18-1.
- Nash, Robert J. Shuttlecock cap. 2,804,305, 8-27-57, Cl. 273-106.
- Nashua Corp.: *See—*
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Davis, Austin E. 2,793,966.
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Wilson, Edward W. 2,781,621.
- Nasica, Jean R. L.: *See—*
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- Naslund, Robert S. Automobile safety bar device. 2,801,866, 8-6-57, Cl. 280-150.
- Nasmith, John L., and F. K. Daniels, to Vickers-Armstrongs Ltd. Machines for attaching box corner stays and the like. 2,812,176, 11-5-57, Cl. 271-2.4.
- Nassofer, Irving, deceased, by M. Nassofer, administratrix. Friction gear drive mechanism. 2,812,838, 11-12-57, Cl. 192-4.
- Nassofer, Marcia: *See—*
Nassofer, Irving. 2,812,838.
- Natale, Joseph A., 49% to L. Cooper. Collapsible table. 2,782,085, 2-19-57, Cl. 311-32.
- Nathan, Alan H.: *See—*
Hogg, John A., Beal, Nathan, and Lincoln. 2,790,814.
- Nathan, Alan H., and J. A. Hogg, to The Upjohn Co. Alkyl piperidinepropionates. 2,784,190, 3-5-57, Cl. 260-294.
- Nathan, Charles C.: *See—*
Goldman, Marcene S., and Nathan. 2,817,635.
- Nathan, Charles C., to The Texas Co. Inhibition of corrosion. 2,799,648, 7-16-57, Cl. 252-8.55.
- Nathan, Charles C., to The Texas Co. Stick corrosion inhibitors. 2,805,202, 9-3-57, Cl. 252-8.55.
- Nathan, Emanuel, to The Opticase Co. Fold-over spectacle case. 2,805,766, 9-10-57, Cl. 206-5.
- Nathan, Frederick. Photoengraving burning-in apparatus. 2,794,104, 5-28-57, Cl. 219-19.
- Nathan, Marvin F., to The M. W. Kellogg Co. Fluidized hydrocarbon conversion process using a platinum containing catalyst. 2,791,542, 5-7-57, Cl. 196-50.
- Nathan, Tracy D., to Hamilton Kent Mfg. Co. Pipe and socket with flexible lip gasket. 2,809,853, 10-15-57, Cl. 285-110.
- Nathan, Walter, to Round Tubes & Cores Co. Telescopic carrying case. 2,803,322, 8-20-57, Cl. 190-45.
- Nathanson, Max. Heating unit. 2,777,930, 1-15-57, Cl. 219-19.
- Nathanson, Max. Heating device. 2,782,289, 2-19-57, Cl. 219-19.
- Nathanson, Max. Heater. 2,804,533, 8-27-57, Cl. 219-34.
- Natho, Paul J., to Pan American Production Co. Surface controlled subsurface tubing pressure shut-off valve. 2,780,290, 2-5-57, Cl. 166-72.
- National Acme Co., The: *See—*
Butler, Bertell C., and Busch. 2,779,956.
- National Aircraft Corp.: *See—*
Peifrey, Lowell S. 2,790,089.
Rhode, Clyde W. 2,790,118.
- National Airol Burner Co., Inc.: *See—*
Ferguson, William. 2,813,578.
- National Aluminate Corp.: *See—*
Green, Jerome, and Boies. 2,815,328.
Luvisi, George W. 2,787,965.
Luvisi, George W. 2,787,968.
Lyons, Raymond J. 2,787,966.
Nohejl, Thomas C. 2,787,967.
Steinmetz, Walter E. 2,789,044.
- National Automatic Tool Co., Inc.: *See—*
Norman, Richard M., and Powell. 2,804,752.
Opel, Earl E. 2,793,546.
Rodal, Ralph. 2,777,702.
Schafer, Robert A. 2,780,116.
- National Automotive Fibres, Inc.: *See—*
Fredericks, George F. 2,792,321.
Fredericks, George F. 2,792,322.
- National Bank of Detroit: *See—*
Sahlin, Henry. 2,814,395.
- National Biscuit Co.: *See—*
Davidson, Bruce J. 2,809,777.
- National Blank Book Co.: *See—*
Schade, Frank S. 2,817,341.
- National Brass Co.: *See—*
Grevengoed, Paul H., and Young. 2,779,186.
Kimble, Kenneth G., Gage, and Grevengoed. 2,783,774.
Young, Herbert. 2,778,667.
Young, Herbert W., and Grevengoed. 2,778,665.
- National Briefcase Mfg. Co.: *See—*
Powell, Robert W., and Tirskey. 2,782,890.
- National Broach & Machine Co.: *See—*
Bassoff, Arthur B. 2,815,579.
Gates, Thomas S. 2,803,342.
Mentley, Max B., and Bassoff. 2,804,734.
Praeg, Walter S. 2,803,066.
- National Cash Register Co., The: *See—*
Adams, Clyde S., Cormack, and Frazier. 2,783,227.
Adams, Clyde S., Cormack, and Frazier. 2,783,228.
Adams, Clyde S., Cormack, and Frazier. 2,784,186.
Bates, Denis H. 2,798,672.
Christian, Raymond A., Colley, Crawford, Ganger, and Mitchell. 2,805,748.
Christian, Raymond A., and Strachan. 2,788,880.
Christian, Raymond A., Strachan, and Mitchell. 2,805,822.
Cormack, Marjorie J., and Thacker. 2,777,780.
Frieberg, Nelson R. 2,801,048.
Frieberg, Nelson R., and Larsen. 2,813,611.
Green, Barrett K. 2,800,458.
Green, Barrett K., and Schleicher. 2,800,457.
Iannone, Francis J. 2,806,151.
Isborn, Carl L. 2,778,955.
Kilheffer, Lawrence D., and Hagemeyer. 2,781,847.
Lowden, Gordon A. 2,805,471.
Luthman, Herbert J. 2,800,684.
Moser, Rudolph J., and Hull. 2,798,665.
Placke, Everett H., and Eickman. 2,811,918.
Placke, Everett H., and Oehertman. 2,813,718.
Seeney, George H. 2,777,386.
Sonnanstine, Edgar H., Jr., and Granzow. 2,789,644.
Spurlino, Pascal, Hull, and Frost. 2,805,821.
Sterzer, Walter G. 2,816,457.
Werner, Frank R., and Sterzer. 2,798,429.
Werner, Frank R., Topper, and Flint. 2,800,854.
- National Chemical Products Ltd.: *See—*
Powell, Roger F., and Martin. 2,776,748.
Powell, Roger F., and Martin. 2,776,749.
- National Clay Pipe Manufacturers Inc.: *See—*
House, Harvey W. 2,815,966.
- National Coal Board, The: *See—*
Gillings, David W. 2,789,765.
Hirst, Arthur A. 2,778,496.

- National Cooperatives, Inc.: *See*—
Pickavance, William T. 2,815,039.
- National Cotton Compress and Cotton Warehouse Association: *See*—
Dohogne, Linus E. 2,777,682.
Tillinghast, Ray C. 2,812,708.
- National Cylinder Gas Co.: *See*—
Bernard, Arthur A. 2,777,928.
Bernard, Arthur A. 2,785,285.
Gordon, John D. 2,792,288.
Lineberry, Dewey D., and Keigel. 2,783,167.
Markl, Arthur R. C. 2,787,050.
Moore, Richard R. 2,807,699.
Warren, Henry R. 2,783,344-2,783,349.
- National Dairy Products Corp.: *See*—
Edwards, William S. 2,803,361.
Henze, Henry L., Spiess, Cornish, and Kennelly. 2,792,028.
Jonas, John J. 2,785,152.
Nessler, Aldo E., and Hartman. 2,814,114.
Stimpson, Edwin G. 2,781,266.
Stimpson, Edwin G., and Young. 2,809,113.
Traisman, Edwin, and Kurtzhals. 2,817,590.
- National Dairy Research Laboratories, Inc.: *See*—
Young, Harold, and Healey. 2,776,928.
- National Detroit Publishers, Inc.: *See*—
Michelson, Harry. 2,816,505.
- National Die Casting Co.: *See*—
Chambers, Worthy L. 2,800,164.
Troka, Albin G. 2,810,586.
- National Die-Casting Co. (Proprietary) Ltd.: *See*—
Agnolotto, Giovanni. 2,789,736.
- National Distillers and Chemical Corp.: *See*—
Doptoglon, Dorian D. 2,806,785.
Frank, Charles E., and Foster. 2,816,916.
Frank, Charles E., and Leebrick. 2,816,913.
Frank, Charles E., and Leebrick. 2,816,914.
Hansley, Virgil L., and Schott. 2,816,917.
Hansley, Virgil L., and Schott. 2,816,936.
Hulse, Robert E. 2,809,096.
Kamlet, Jonas. 2,804,375.
Nickol, Gordon B. 2,807,547.
Nobis, John F., and Horst. 2,810,749.
Nobis, John F., and Robinson. 2,795,624.
Nobis, John F., and Robinson. 2,795,625.
Nobis, John F., and Robinson. 2,795,626.
Schow, Robert E., and Coleman. 2,797,146.
Watson, Lloyd M., and Slaterry. 2,816,935.
Wynkoop, Raymond. 2,800,197.
Wynkoop, Raymond, and Giachetto. 2,816,919.
Wynkoop, Raymond, Nobis, and Giachetto. 2,816,918.
- National Distillers Products Corp.: *See*—
Frank, Charles E., and Foster. 2,790,002.
Hanson, Charles T., and Hodge. 2,785,068.
Kamlet, Jonas. 2,781,261.
Kamlet, Jonas. 2,785,971.
Kamlet, Jonas. 2,790,788.
Kamlet, Jonas. 2,791,487.
Redmon, Bryan C. 2,782,231.
Tadler, Thomas J., Jr., and Coleman. 2,789,885.
Wade, Robert C. 2,775,938.
- National Drug Co., The: *See*—
Martin, Gustav J., and Sullivan. 2,781,290.
- National Drying Machinery Co., The: *See*—
Clark, Howard M., Jr., and Leotta. 2,787,368.
- National Electric Products Corp.: *See*—
Kennedy, Frank J. 2,781,145.
Kennedy, Frank J. 2,782,743.
Kennedy, Frank J. 2,792,211.
- National Equipment Corp.: *See*—
Guggenheim, Max M. 2,796,847.
Guggenheim, Max M. 2,808,692.
Guggenheim, Max M. 2,808,693.
Guggenheim, Max M. 2,809,033.
Schlemmer, Philip G. 2,817,199.
- National Fibre Glass Co., Inc.: *See*—
Fischer, Herbert C. 2,777,501.
- National Foam System, Inc.: *See*—
Boerner, Lewis W., Holmes, and Murray. 2,799,352.
- National Forge & Ordnance Co.: *See*—
Ludwig, Ralph E. 2,803,449.
- National Fuel Conservation Co., Inc.: *See*—
Crozier, Michael. 2,783,756.
Fiske, Edward R., and Crozier. 2,796,923.
- National Geographic Society: *See*—
Fillingame, John E. 2,781,690.
- National Glaco Chemical Corp.: *See*—
Russell, John J., and Beck. 2,801,604.
- National Gypsum Co.: *See*—
Dansereau, Francis C. 2,802,583.
Einhiple, John A. 2,810,992.
Skinner, Sidney D., and Seufert. 2,788,960.
Sprau, William J. 2,796,809.
- National Heater Co., Inc.: *See*—
Costello, Timothy J., and G. T. 2,800,126.
- National Industrial Products Co.: *See*—
Miley, Walter M. 2,801,235.
Miley, Walter M. 2,801,236.
- National Industries, Inc.: *See*—
Barefoot, Carlton K. 2,793,397.
- National Key Co., The: *See*—
Orchard, David W. 2,809,566.
- National Lead Co.: *See*—
Armant, David L., and Sigurdson. 2,804,384.
Armant, David L., and Sigurdson. 2,815,272.
Barnard, William S., and Scarbrough. 2,805,993.
Bartholomew, Howard W. 2,804,662.
Bauer, Alfred F. 2,811,761.
Bauer, Alfred F., and Pack. 2,780,117.
Blumenthal, Warren B. 2,802,847.
Brickenkamp, Roland W., and Schmidt. 2,818,347.
Couch, George R., and Mooz. 2,779,727.
Foss, Warren M. 2,796,358.
Foss, Warren M., and Kingsbury. 2,776,222.
Foss, Warren M., and Nelson. 2,795,511.
Foss, Warren M., and Nelson. 2,796,357.
Granade, Fred C., and Ruby. 2,787,815.
Harrison, George. 2,793,852.
Hammers, William S., Jr. 2,798,878.
Kalinowski, Anthony T. 2,817,595.
Konig, Otto. 2,803,572.
Kuhn, William E. 2,796,644.
Merker, Leon. 2,777,235.
Merker, Leon. 2,801,182.
Moklebust, Olav. 2,778,724.
Moklebust, Olav. 2,811,434.
Moore, Charles H., Jr., and Dahlstrom. 2,792,287.
Moore, Pernel J. 2,792,072.
North, Edwin W., and Wilson. 2,814,194.
Opie, William R., and Swanstrom. 2,801,964.
Pratt, Kenneth W. 2,812,063.
Taltavall, John A., Jr. 2,802,679.
Wyatt, James L., and Grant. 2,804,410.
- National Lime and Stone Co., The: *See*—
Vogel, Ralph B. 2,784,956.
- National Lock Co.: *See*—
Anderson, Ralph F. 2,799,324.
Burke, William O. 2,777,157.
Burke, William O. 2,777,315.
Burke, William O. 2,777,722.
Burke, William O., and Larson. 2,777,721.
North, Edwin W., and Unter. 2,784,022.
Palm, Floyd R., Jr. 2,781,918.
- National Luchtvaartlaboratorium: *See*—
Bartelink, Jan A. 2,790,145.
- National Machinery Co., The: *See*—
Friedman, John H. 2,776,048.
Friedman, John H. 2,790,541.
Friedman, John H. 2,800,668.
Friedman, John H. 2,800,669.
Friedman, John H. 2,800,997.
Friedman, Robert G. 2,778,451.
Friedman, Robert G. 2,801,884.
Friedman, Robert G. 2,813,279.
Friedman, Robert G. 2,815,519.
- National Malleable and Steel Castings Co.: *See*—
Carver, Justin H. 2,793,030.
Metzger, William J. 2,792,946.
Metzger, William J. 2,812,075.
Shafer, James A. 2,793,029.
Spence, Hubert L., and Willison. 2,781,135.
Willison, Donald. 2,801,010.
- National Metal Edge Box Co.: *See*—
Junkin, Malcolm P. 2,807,361.
- National Metal & Steel Corp.: *See*—
Beecher, Algernon W., and Nieto. 2,794,386.
- National Mine Service Co.: *See*—
Van Vactor, Benjamin H. 2,790,506.
- National Petro-Chemicals Corp.: *See*—
Hulse, Robert E., Atwood, Muller, and Miller. 2,801,211.
Muller, Werner C., and Atwood. 2,792,433.
Muller, Werner C., and Hawkins. 2,801,209.
Muller, Werner C., and Miller. 2,792,432.
Muller, Werner C., Miller, and Hawkins. 2,801,210.
Odle, John D., and Wilson. 2,784,805.
- National Plainfield Corp.: *See*—
Raduns, Solomon B. 2,783,114.
- National Plaster Products Co., The: *See*—
Samler, Lee F. 2,786,504.
- National Plastic Products Co., The: *See*—
Winer, Ephraim. 2,797,447.
- National Pneumatic Co., Inc.: *See*—
Delany, Frank M. 2,794,633.
Durbin, Vernon. 2,808,483.
Durbin, Vernon. 2,813,163.
Durbin, Vernon. 2,813,164.
Flagg, Willard A., Jr. 2,804,680.
Karp, Martin E. 2,783,850.
Marden, Carleton S. 2,786,263.
Pappas, Constantine A. 2,783,743.
Pappas, Constantine A. 2,816,563.
- National Poultry Equipment Co.: *See*—
Powell, Clyde C. 2,818,173.
Powell, Clyde C. 2,818,174.
- National Radiator Co., The: *See*—
Levy, Marion I. 2,808,981.

National Research Corp.: *See—*

Benedict, Manson, and Findlay. 2,816,828.
 Boehme, Robert M., and Lawrence. 2,795,132.
 Clough, Philip J., and Godley. 2,785,082.
 Clough, Philip J., Ham, and Sinizer. 2,789,150.
 Fletcher, John. 2,776,225.
 Hamm, John L., and Sinizer. 2,789,152.
 Hill, Morse. 2,783,164.
 Hnilicka, Milo P., Jr. 2,803,689.
 Kates, Josef. 2,784,812.
 Moore, James H. 2,776,204.
 Moore, James H. 2,815,273.
 Moore, James H., Clough, and Franks. 2,815,279.
 Newman, Edward A. 2,783,374.
 Raymond, Paul L. 2,815,299.
 Rimington, Claude, Lawson, Searle, and Morley. 2,815,349.
 Singleton, Richard A., and Clough. 2,783,142.
 Stedman, Donald F. 2,803,552.
 Thomas, David G. A., and Cooke-Yarborough. 2,783,415.
 Waters, Paul L. 2,777,060.
 Williams, Frederic C., and Robinson. 2,776,794.
 Woodcock, Robert R. 2,816,702.

National Research Council: *See—*

Blachut, Theodore J., and van der Hoeven. 2,797,579.
 Dauphinee, Thomas M. 2,798,198.
 Dunnell, Basil A., Eggleton, and Puddington. 2,793,186.
 Featonby, Joseph. 2,809,803.
 Gishier, Paul E., and Mathur. 2,786,280.
 Lawrence, Richard B., and Roehrig. 2,784,373.
 Le Caine, Hugh. 2,809,547.
 Lemieux, Raymond U. 2,809,205.
 MacMartin, Malcolm P., and Kusters. 2,812,447.
 Makow, David M. 2,806,952.
 Moore, James H. 2,805,154.
 Puddington, Ira E., and Sirianni. 2,805,961.
 Shaw, Edgar A. G., and Thiessen. 2,801,423.
 Singleton, Richard H., and Di Pietro. 2,809,108.
 Spencer, John F. T., Roxburgh, and Sallans. 2,793,981.
 Stedman, Donald F. 2,777,772.
 Stevinson, Harry T. 2,785,775.

National Research Development Corp.: *See—*

Barker, Ronald H. 2,795,706.
 Barkla, Hugh M. 2,804,038.
 Bracey, Paul. 2,788,320.
 Clayden, David O. 2,796,464.
 Davies, Donald W. 2,784,906.
 Davis, Michael, and Lever. 2,809,905.
 Gabor, Dennis. 2,795,729.
 Goodhart, Hilary C. N. 2,784,925.
 Hawley, Henry B. 2,785,108.
 Houldcroft, Peter T. 2,807,541.
 Johnson, Kenneth C. 2,797,378.
 Kilburn, Tom. 2,786,628.
 Kilburn, Tom, Williams, and Laithwaite. 2,807,728.
 Malbon, Harry, and Fox. 2,790,966.
 May, Kenneth R. 2,800,055.
 Murray, Peter, Denton, and Wilkinson. 2,807,857.
 Robin, Harold K. 2,816,163.
 Schild, Heinz O., Boura, and Mongar. 2,811,202.
 Sixsmith, Herbert. 2,817,215.
 Spensley, Philip C. 2,798,025.
 Thomas, Graham I. 2,800,278.
 Thomas, Graham I., and Pollard. 2,804,570.
 Tootill, Geoffrey C., Williams, and Kilburn. 2,777,635.
 Tootill, Geoffrey C., Williams, and Kilburn. 2,810,516.
 Tootill, Geoffrey C., Williams, Kilburn, Thomas and Edwards. 2,789,759.
 Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,796,218.
 Turing, Alan M., Davies, and Woodger. 2,799,449.
 Ubbelohde, Alfred R. J. P. 2,800,559.
 Uttley, Albert M., Noble and Carter. 2,808,983.
 Williams, Frederic C. 2,810,857.
 Williams, Frederic C. 2,811,666.
 Williams, Frederic C., and Kilburn. 2,777,624.
 Williams, Frederic C., and Kilburn. 2,794,937.
 Williams, Frederic C., and Kilburn. 2,807,749.
 Williams, Frederic C., and Kilburn. 2,809,325.
 Williams, Frederic C., and Kilburn. 2,817,042.
 Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,813,255.
 Williams, Frederic C., Kilburn, and Gibbings. 2,784,907.
 Williams, Frederic C., Kilburn, and Tootill. 2,785,855.
 Williams, Frederic C., Kilburn, Tootill, and Pollard. 2,800,277.

National Rubber Machinery Co.: *See—*

Brundage, James W. 2,778,060.
 Wolff, Ernst R. 2,782,997.

National Safety Appliance Co., Ltd.: *See—*

Folker, Herbert A. 2,810,611.

National Screw & Mfg. Co., The: *See—*

National Seating Co.: *See—*

Gielow, George F. 2,812,802.

National Smelting Co., Ltd.: *See—*

Keeping, Patrick A. T. 2,801,162.

Olsen, Herbert C., and Weidener. 2,808,380.

Woods, Stephen E. 2,779,673.

National Starch Products Inc.: *See—*

Caldwell, Carlyle G., and Wurzburg. 2,813,093.
 Caldwell, Carlyle G., Wurzburg, and Fitzgerald. 2,788,293.

National Starch Products Inc.: *See—Continued*

Hopkins, Howard L. 2,776,681.
 Rutenberg, Morton W., and William. 2,801,955.
 Wurzburg, Otto B., Rutenberg, and Ross. 2,786,833.

National Steel Corp.: *See—*

Colby, Roy L., Jr. 2,801,716.
 Klein, Clarence J. 2,810,187.
 Klein, Clarence J. 2,818,183.
 Kretschmar, Rudolph L. 2,787,349.
 Laufle, Charles W., and Altenburger. 2,797,991.
 Strassburger, Julius H. 2,778,018.
 Usmiani, Andrew. 2,797,910.

National Supply Co., The: *See—*

Deitrickson, Roy H. 2,776,172.
 Deitrickson, Roy H. 2,795,192.
 Deitrickson, Roy H. 2,813,489.
 Eklund, Stone E. 2,777,191.
 Holmquist, John L. 2,780,119.
 Knox, Donald G. 2,791,181.
 Kretzer, Fred P. 2,801,140.
 Long, Spencer W. 2,777,670.
 Long, Spencer W. 2,810,551.
 Martin, John R. 2,810,552.

National Tank Co.: *See—*

Coggins, Robert W. 2,809,713.
 Lavery, Charles A. 2,787,451.
 Walker, Jay P. 2,808,123.

National Tea Packing Co., Inc.: *See—*

Barnett, Louis. 2,791,505.

Irmscher, Hans O. 2,780,042.

National Tile & Terrazzo Co.: *See—*

Price, Thomas H. 2,815,657.

National Twist Drill & Tool Co.: *See—*

Oxford, Carl J., Jr. 2,778,252.

National-U. S. Radiator Corp.: *See—*

Reynolds, Gilmer L. 2,795,007.

National Union Electric Corp.: *See—*

Crofts, George B. 2,786,940.
 Maynard, Fred B. 2,814,001.
 Skellett, Albert M. 2,816,224.
 Washburn, Frederick L., Jr. 2,807,747.

National Vendors, Inc.: *See—*

Fogelberg, Clement V., and Morse. 2,785,330.
 Fry, Benjamin W. 2,779,449.

National Welding Equipment Co.: *See—*

Hammon, George L. 2,805,871.

Natser Corp.: *See—*

White, Gerard D. 2,801,744.

Natta, Giulio, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Continuous process for the separation of components from an at least ternary gas mixture by means of solvent extraction. 2,791,290, 5-7-57, Cl. 183-115.

Natta, Giulio, to Oronzio de Nora Impianti Elettrochimici. Continuous process for the production of fural and acetic acid from vegetative material. 2,818,413, 12-31-57, Cl. 260-347.9.

Natta, Giulio, P. Pino, and R. Ercoli, to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Process for the production of esters from cyclohexene, carbon monoxide and alcohols. 2,805,245, 9-3-57, Cl. 260-468.

Natronzellstoff- und Papierfabriken Aktiengesellschaft: *See—*
 Seltmann, Wilhelm, and Claus. 2,810,328.

Naturizer Co.: *See—*

Pierson, Norman A. 2,797,051.

Naudin, Edward A., and C. H. Boys, to Hercules Powder Co. Pan process of reclaiming rubber. 2,794,006, 5-28-57, Cl. 260-2.3.

Naudzius, Edward J.: *See—*

Cole, Edward N., and Naudzius. 2,779,498.

Naul, James M., to Eastern Air Devices, Inc. High starting torque induction motor rotor. 2,788,458, 4-9-57, Cl. 310-212.

Naul, James M., to Eastern Air Devices, Inc. Shaded pole motor. 2,807,735, 9-24-57, Cl. 310-172.

Naul, James M., to Eastern Air Devices, Inc. Saturable reactor. 2,814,786, 11-26-57, Cl. 336-110.

Naulin, Abner M., now by judicial change of name Mick A. Naulin. Incinerator wall construction. 2,805,633, 9-10-57, Cl. 110-1.

Naulin, Mick A.: *See—*

Naulin, Abner M. 2,805,633.

Naulty, Howard W.: *See—*

Dye, Edward R., and Naulty. 2,796,945.
 Dye, Edward R., Naulty, and Maylott. 2,789,198.

Naumann, Carl. Crystallization of polycyclic hydrocarbons. 2,777,889, 1-15-57, Cl. 260-674.

Naumann, Edward J.: *See—*

Harmon, Ralph N., and Naumann. 2,795,190.

Naumann, Willy R., to Daimler-Benz Aktiengesellschaft. Anti-friction bearings. 2,785,023, 3-12-57, Cl. 308-187.

Nauroth, Larry J., to Joe Lowe Corp. Frozen confection conveying system. 2,782,945, 2-26-57, Cl. 214-89.

Nave, Alfred E., to Avco Mfg. Corp. Water dispenser for refrigerator. 2,777,304, 1-15-57, Cl. 62-141.

Nave, Earl E., to Creative Metals Corp. Concrete hopper and gate assembly. 2,785,840, 3-19-57, Cl. 222-503.

- Navy, United States of America as represented by the Secretary of the: *See*—
- Ackerman, Joseph I., Jr. 2,790,389.
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 Akerlof, Gosta C. 2,806,931.
 Allan, Wallace H. 2,798,433.
 Allen, Philip J. 2,809,354.
 Anderson, Kinsey A. 2,792,707.
 Anderson, Wilmer C., and Strough. 2,776,403.
 Arenberg, David L., and Emslie. 2,788,520.
 Armstrong, David G. 2,781,500.
 Atchley, Raymond D. 2,793,589.
 Ayer, William E. 2,782,268.
 Baker, Kenneth L. 2,790,390.
 Baker, William O. 2,780,997.
 Baller, Maurice H., Bole, and Stone. 2,794,079.
 Barnes, Frank A., Devine, Hill, Schindel, and Nicholson. 2,793,300.
 Bartelink, Everhard H. 2,810,126.
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 Baughman, John E. 2,779,283.
 Bednarz, Felix L. 2,791,153.
 Bellott, Emile M. 2,781,470.
 Berlin, Jack, Cohen, Fisch, and Zimet. 2,787,761.
 Besserer, Carl W., Jr. 2,790,304.
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 Beveridge, Harold N., Freedman, and Larkin. 2,776,370.
 Billman, Louis S. 2,812,978.
 Billmeyer, Allen K. 2,775,951.
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 Blair, Raymond H., Pertsch, and Scribner. 2,805,623.
 Blake, Richard F. 2,800,584.
 Blitz, Daniel. 2,790,969.
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 Bocchio, Theodore R. R. 2,806,356.
 Boucher, Frank G. 2,777,289.
 Brennan, James J., and Toscano. 2,818,296.
 Brettell, George A., Jr. 2,817,801.
 Brown, Burton P. 2,785,381.
 Burstein, Elias. 2,816,232.
 Butler, Francis E. 2,803,807.
 Cain, Dallas E. 2,790,409.
 Callahan, Robert M. 2,777,773.
 Campbell, Willis S. 2,817,234.
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 Carley, William S. 2,785,342.
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 Connelly, Clarence M. 2,790,168.
 Cooke, David A. 2,781,478.
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 Cowan, Eugene W. 2,784,310.
 Crawford, Carl F., Ford, and Lewis. 2,795,784.
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 Dell, Albert H., Kuck, and Sreb. 2,775,942.
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 Edmund, James M. 2,789,473.
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 Hardenbergh, George A. 2,780,409.
 Harmon, Ralph N., and Naumann. 2,795,190.
 Hartig, Henry E., Pierce, and Brettell. 2,809,445.
 Harwood, Robert H. 2,775,828.
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 Hatcher, Robert D. 2,813,254.
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 Hauser, Ralph I. 2,790,618.
 Hawley, Moses E. 2,812,826.
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 Henig, Seymour. 2,804,805.
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 Hersh, Sidney. 2,809,558.
 Hess, Edward R. 2,775,949.
 Heynick, Louis N., Schnee, Wilkler, and Wohl. 2,799,824.
 Hickey, John S., Jr. 2,817,038.
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 Holliday, Clyde T. 2,795,738.
 Hollmann, Hans E. 2,810,023.
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 Hoyt, Donald A. 2,791,166.
 Hronek, Robert L., and Cook. 2,797,323.
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 Jackson, Leonard D. 2,796,339.
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 Jacobi, William J., and Cork. 2,803,006.
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 Johnson, Thomas D., and Sateren. 2,785,306.
 Jones, William B., Jr., Gale, Gamertsfelder, and MacNichol. 2,812,483.
 Kaplan, Arthur Y., Hoyt, Smith, Tafel, Tavani, Christian, and Weiss. 2,796,815.
 Kendall, James M., and Henderson. 2,777,028.
 Kenyon, Theodore W. 2,790,612.
 Kielman, Leo L. 2,795,661.
 Kirkland, Glenn I. 2,799,834.
 Klein, Alfred W. 2,811,625.
 Knutson, Roy G. 2,776,398.
 Kommers, William J. 2,808,719.
 Kreck, Joseph A. 2,805,282.
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 Kuhl, Robert L. 2,790,143.
 Lahde, Reinhard N. 2,792,755.
 La Judice, Frank P. 2,804,774.
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 Laufer, Louis, and Gutcho. 2,799,670.
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 Lee, William S. 2,817,772.
 Le Reche, John A., and Projector. 2,784,640.
 Lewis, Frederick J., Jr., and Quinlan. 2,790,973.
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 Lien, Jesse R. 2,790,165.
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 Luck, David G. C. 2,791,766.
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 MacNichol, Edward F., Jr. 2,783,465.
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 Mandeville, Charles E., and Albrecht. 2,783,386.
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- Marasco, Francis A., and Oxner. 2,803,817.
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 McNatt, Eugene M. 2,795,956.
 Meade, Robert C. 2,797,376.
 Meigs, Charles H., and Teitelman. 2,779,316.
 Meinel, Aden B. 2,800,836.
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 Miklofsky, Haaren A., and Horiuchi. 2,776,640.
 Miller, Glen W., Longwell, and Sage. 2,713,487.
 Mongello, Thomas. 2,801,586.
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 Montgomery, James L. 2,781,482.
 Morris, John A. 2,812,995.
 Moses, Sidney A. 2,809,585.
 Myers, Homer S. 2,806,137.
 Nachman, Joseph F. 2,801,942.
 Neher, Henry Victor. 2,798,982.
 New, John C. 2,803,135.
 Ney, Edward P., and Winckler. 2,783,002.
 Nibbe, George H. 2,789,226.
 Niedling, Herman J. 2,786,392.
 Ober, Harold E., and Gardner. 2,802,994.
 O'Connor, Donald T. 2,792,502.
 Okress, Ernest C. 2,817,823.
 Oliver, Joseph J. 2,800,793.
 O'Neil, Edgar A., and Jackson. 2,783,957.
 Packard, Karl S. 2,777,113.
 Parson, Chauncey L. 2,788,485.
 Pawley, Myron G. 2,816,169.
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 Perkins, George D. 2,783,438.
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 Peucker, Max P. 2,782,636.
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 Pollard, Ernest. 2,786,995.
 Porter, Carroll D. 2,795,105.
 Post, Frederick A., and Vaughan. 2,788,661.
 Pound, Robert V., and Webster. 2,791,691.
 Purcell, Edward M. 2,779,923.
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 Ratzkin, Jack. 2,795,858.
 Rayburn, Charles C., and Black. 2,807,350.
 Reed, Robert R., Wheeler, and Newell. 2,810,856.
 Ressler, Murray, and Halpern. 2,780,962.
 Rice, Rip G., and Kohn. 2,813,124.
 Rich, Stanley R. 2,799,737.
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 Roberts, Richard B. 2,809,586.
 Robinson, Ralph O., Jr. 2,781,512.
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 Sadtler, Chester B. 2,788,090.
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 St. Amand, Pierre. 2,806,405.
 Scal, Robert K-F. 2,787,735.
 Scarborough, O. D. 2,783,669.
 Schlarman, Carleton, Kent, and Daudelin. 2,788,761.
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 Schonstedt, Erick O. 2,777,336.
 Schreiner, Kenneth E., and Havens. 2,779,940.
 Schuessler, Karl E. 2,813,422.
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 Schulz, Elmer H. 2,812,510.
 Scorgie, Donald G. 2,816,260.
 Scott, Noel W. 2,799,600.
 Segal, Harvey. 2,708,847.
 Sherwin, Chalmers W. 2,803,703.
 Sherwin, John C. 2,788,959.
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 Staniloff, Seldon A. 2,814,008.
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 Supernaw, Dwight L. 2,810,033.
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 Taylor, John W., Jr., and Houston. 2,805,412.
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- Thompson, John H., and Whittaker. 2,794,948.
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- Nedwick, John J., to Rohm & Haas Co. Vinylation. 2,806,848, 9-17-57, Cl. 260—239.3.
- Nedwitek, Hans R., to Daimler-Benz Aktiengesellschaft. Internal combustion engine. 2,804,862, 9-3-57, Cl. 123—75.
- Needham, Howard H.: *See*—
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- Needham Mfg. Co., Inc.: *See*—
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- Neely, Forest H., to Poor & Co. Wet material bridging alleviator. 2,808,214, 10-1-57, Cl. 241—186.
- Neely, George L., to California Research Corp. Internal combustion engine fuel systems. 2,793,629, 5-28-57, Cl. 123—30.
- Neely, Glen W., to The Richardson Co. Shuttle structure. 2,781,791, 2-19-57, Cl. 139—196.
- Neely, John C., Jr. Headlight adjustment apparatus. 2,811,783, 11-5-57, Cl. 33—180.
- Neely, Richard J., and A. G. Rocchini, to Gulf Research & Development Co. Oleic acid esters of aryloxy alcohols and lubricant compositions containing the same. 2,809,936, 10-15-57, Cl. 252—57.
- Neely, William H., to The Universal Wire Spring Co. Rubber pad for upholstered spring constructions. 2,783,827, 3-5-57, Cl. 155—179.
- Neely, William H., to The Universal Wire Spring Co. Sinuous spring attaching means. 2,796,921, 6-25-57, Cl. 153—179.
- Neely, William H., to The Universal Wire Spring Co. Wire spring structure. 2,812,803, 11-12-57, Cl. 155—179.
- Neer, Adolph P. Sample chart and method of fabricating the same. 2,797,010, 6-25-57, Cl. 216—62.
- Nees, Hugo: *See*—
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- Neesby, Torben E., to Carroll Dunham Smith Pharmacal Co. Polythionate compound substantially insoluble in water. 2,815,344, 12-3-57, Cl. 260—247.1.
- Neese, Alonzo A.: *See*—
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- Neese, James A., to Motorola, Inc. Tuner drive assembly. 2,811,046, 10-29-57, Cl. 74—10.54.
- Neeteson, Pieter A., to North American Philips Co., Inc. Circuit-arrangements for synchronizing an oscillator. 2,801,336, 7-30-57, Cl. 250—36.
- Neff, Paul J., to American Steel Foundries. Sand mold containing a chill section and method of treating same. 2,816,336, 12-17-57, Cl. 22—214.
- Neff, Ted. Adjustable ratchet-action wrench. 2,800,044, 7-23-57, Cl. 81—91.
- Negoro, Kaiji. Metering valve. 2,783,920, 3-5-57, Cl. 222—250.
- Negoro, Kaiji, to Dairy Containers, Inc. Sealed paperboard carton. 2,789,745, 4-23-57, Cl. 229—5.6.
- Negrin, David A., and R. Leffler. Fault indicating system. 2,799,846, 7-16-57, Cl. 340—213.
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Giraltis, Albert P., Brandjean, and Neher. 2,777,867.
- Neher, Clarence M., to Ethyl Corp. Hydrochlorination process. 2,818,447, 12-31-57, Cl. 260—663.
- Neher, Clarence M., and J. H. Dunn, to Ethyl Corp. Dehydrochlorination of 1,1-dichloroethane and 1,1,1-trichloroethane. 2,803,677, 8-20-57, Cl. 260—656.
- Neher, Harry T.: *See*—
Neuman, Andrew, Neher, and Specht. 2,778,848.
- Neher, Henry V., to the United States of America as represented by the Secretary of the Navy. Controllable oscillator tube. 2,798,982, 7-9-57, Cl. 315—5.23.
- Neher, Leland K.: *See*—
Singer, Sidney, and Neher. 2,807,723.
- Neher, Leland K., to the United States of America as represented by the United States Atomic Energy Commission. Stable photomultiplier amplifier. 2,798,165, 7-2-57, Cl. 250—207.
- Nehls, Charles H. Locking closure. 2,796,192, 6-18-57, Cl. 220—46.
- Neldt, Warren H. Saw attachment for drill. 2,787,265, 4-2-57, Cl. 143—43.
- Neier, Reinhard, C. Petitjean, and W. Wehrli, to Saul & Co., as nominee of Fidelity Union Trust Co. Chromable disazo dyestuffs. 2,779,758, 1-29-57, Cl. 260—190.
- Neiges, Herman: *See*—
Nicolet, Nicholas E., and Neiges. 2,806,649.
- Neighbour, Leonard B., and M. J. Martens, to Deere & Co. Convertible ground or power drive for material spreader. 2,804,308, 8-27-57, Cl. 275—5.
- Neiglick, Anders E. Ellipsograph. 2,777,199, 1-15-57, Cl. 33—18.
- Neil, A. J., to California Research Corp. Safety belt clamp. 2,815,556, 12-10-57, Cl. 24—248.
- Neild, William G., to Bendix Aviation Corp. Electrical system. 2,787,752, 4-2-57, Cl. 320—5.
- Neild, William G., to Bendix Aviation Corp. Carbon pile regulator. 2,807,694, 9-24-57, Cl. 201—51.
- Neill, Trevor R.: *See*—
Breadner, Robert L., Neill, and Simms. 2,787,510.
- Neilsen, Hildaurl L. List finders. 2,791,848, 5-14-57, Cl. 40—104.
- Neilsen, Hildaurl L., to Zephyr American Corp. Rotary-tray filing device. 2,796,311, 6-18-57, Cl. 312—267.
- Neilsen, Hildaurl L. List finders. 2,799,955, 7-23-57, Cl. 40—104.
- Neilson, Allan K., deceased; E. L. Neilson, executrix. Merchandise classifying and storage unit. 2,779,649, 1-29-57, Cl. 312—245.
- Neilson, Elsa L.: *See*—
Neilson, Allan K. 2,779,649.
- Neilson, Nels A. Car top boat and bed. 2,817,852, 12-31-57, Cl. 5—119.
- Neiman, William T.: *See*—
Graves, Delbert B., and Schlichting. 2,783,670.
- Neimy, Edward E. and M. A. Key for collapsible tubes. 2,809,770, 10-15-57, Cl. 222—99.
- Neimy, Mary A.: *See*—
Neimy, Edward E. and M. A. 2,809,770.
- Neipert, Marshall P.: *See*—
Bon, Charles K., Neipert, and Piegols. 2,780,360.
- Neish, Richard A., to United States Steel Corp. Electrochemical method for coating steel surfaces and the product thereof. 2,812,296, 11-5-57, Cl. 204—28.
- Neisser, Charles E., Jr. Fabrics. 2,785,705, 3-19-57, Cl. 139—410.
- Neisser, Irwin, and Co.: *See*—
Cavallito, Chester J., Gray, and Archer. 2,804,460.
- Neiswinter, James T., to American Telephone and Telegraph Co. Teletypewriter code controlled selective device. 2,776,333, 1-1-57, Cl. 178—2.
- Neitlich, Irving M., to Cue Fastener Corp. Apparatus for gapping slide fasteners. 2,776,466, 1-8-57, Cl. 29—33.
- Nejak, Raymond P.: *See*—
Cyphers, Elmer B., and Nejak. 2,791,559.
- Nelbach, George N., to Continental Can Co., Inc. Paperboard shipping container. 2,807,402, 9-24-57, Cl. 62—80.
- Neilligan, Thomas P., to Albert Schwill & Co. Malting apparatus. 2,792,644, 5-21-57, Cl. 34—210.
- Nelson, Alfred W. Garden tool. 2,812,700, 11-12-57, Cl. 97—71.
- Nelson, Arthur W. Refuse loading and compacting truck. 2,777,593, 1-15-57, Cl. 214—519.
- Nelson, Arthur W. Refuse loading and compacting truck. 2,787,392, 4-2-57, Cl. 214—503.
- Nelson, Arvid M.: *See*—
Santini, Danilo, and Nelson. 2,785,771.
- Nelson, August L., to United Industrial Corp. Automobile door structure. 2,807,498, 9-24-57, Cl. 296—44.
- Nelson, Axel B.: *See*—
Schmidt, Edward G., and Nelson. 2,781,521.
- Nelson, Brooks E., to The Osborn Mfg. Co. Cup brush. 2,789,303, 4-23-57, Cl. 15—180.
- Nelson Brothers, Inc.: *See*—
Nelson, Walter A. 2,813,569.
- Nelson, Carl, ½ to W. McKnight. Electronic remote control system. 2,813,267, 11-12-57, Cl. 343—225.
- Nelson, Carl E.: *See*—
Smart, Paul H., and Nelson. 2,807,608.
- Nelson, Channing C.: *See*—
Bittner, Raymond E., and Nelson. 2,777,801.
- Nelson, Clarence E. Automatic feeder for poultry. 2,800,106, 7-23-57, Cl. 119—52.
- Nelson, Clarence R.: *See*—
Howell, John D., and Nelson. 2,778,329.
- Nelson, Clarence R., to Willcox & Gibbs Sewing Machine Co. Loop spreading mechanism for sewing machines. 2,812,735, 11-12-57, Cl. 112—199.
- Nelson, Clarice E. and E. H. Tea bag construction. 2,793,954, 5-28-57, Cl. 99—77.1.
- Nelson, Corless B., to General Motors Corp. Lift truck with hitch means for maneuvering semi-trailers. 2,782,054, 2-19-57, Cl. 280—479.
- Nelson, De Witte: *See*—
Sims, Rex J., and Nelson. 2,783,256.
- Nelson, Donald E. Attachment for a mop handle. 2,775,779, 1-1-57, Cl. 15—246.
- Nelson, Dwight D., to Marquardt Aircraft Co. Auxiliary power unit. 2,815,188, 12-3-57, Cl. 253—59.
- Nelson, Edwin K., to Standard Coil Products Co., Inc. Cascode amplifier. 2,786,901, 3-26-57, Cl. 179—171.
- Nelson, Eldred C., to Hughes Aircraft Co. Arithmetic units for digital computers. 2,803,401, 8-20-57, Cl. 235—61.
- Nelson, Eldred C., to Hughes Aircraft Co. Binary-coded, flip-flop counters. 2,816,223, 12-10-57, Cl. 250—27.
- Nelson, Erdick H.: *See*—
Nelson, Clarice E. and E. H. 2,793,954.

- Nelson, Ethel B. Automobile rear deck protector and article enclosing device. 2,808,290, 10-1-57, Cl. 296-37.
- Nelson, Eugene K., and H. H., to Cherry-Burrell Corp. Removable U-pin piston valve. 2,798,690, 7-9-57, Cl. 251-111.
- Nelson, Eustace C. Knife for cutting cheese and the like. 2,803,876, 8-27-57, Cl. 30-115.
- Nelson, Fred M., and A. F. Zemanek, to Texas Gulf Sulphur Co. Method of extracting sulfur from underground deposits. 2,783,986, 3-5-57, Cl. 262-3.
- Nelson, George, to Price Brothers, Inc. Planter lamp. 2,810,820, 10-22-57, Cl. 240-2.
- Nelson, George E.: *See*—
- Ashton, George H., and Nelson. 2,777,491.
- Nelson, Gorman R. Inertia influenced, predetermined torque release wrench. 2,811,066, 10-29-57, Cl. 81-52.4.
- Nelson, Harold H.: *See*—
- Nelson, Eugene K., and H. H. 2,798,690.
- Nelson, Harold T., to United States Rubber Co. Breathable striped upholstery fabric. 2,798,820, 7-9-57, Cl. 117-11.
- Nelson, Harry W. Combination closure and disappearing pouring spout construction. 2,791,357, 5-7-57, Cl. 222-525.
- Nelson, Herbert, to Radio Corp. of America. Process of fusing materials to silicon. 2,807,561, 9-24-57, Cl. 148-1.5.
- Nelson, Jean O. Adjustable clothes hanger. 2,777,624, 1-15-57, Cl. 224-42.1.
- Nelson, John H.: *See*—
- Brown, Victor, and Nelson. 2,778,755.
- Nelson, John H., to Kropp Forge Co. Manipulator tong attachment for lift trucks. 2,784,861, 3-12-57, Cl. 214-653.
- Nelson, John L.: *See*—
- Bowie, Adrian S., and Nelson. 2,780,904.
- Nelson, John S. Permanent mold for making cast stud link chain. 2,786,248, 3-26-57, Cl. 22-137.
- Nelson, John W., to Sinclair Refining Co. Oxidation of waxy hydrocarbons with preparation of catalyst in situ. 2,776,308, 1-1-57, Cl. 260-451.
- Nelson, John W., to Sinclair Refining Co. Foots oil oxidate composition. 2,776,309, 1-1-57, Cl. 260-451.
- Nelson, John W. Cam actuated adjustable hold down clamp. 2,781,803, 2-19-57, Cl. 144-290.
- Nelson, Joseph F.: *See*—
- Banes, Fred W., Nelson, and Hoyt. 2,798,865.
- Smith, Brook I., Banes, and Nelson. 2,793,172.
- Nelson, Joseph F., and J. H. McAteer, to Esso Research and Engineering Co. Recovery of naphthenic acids. 2,789,134, 4-16-57, Cl. 260-514.
- Nelson, Joseph F., F. W. Banes, and A. H. Gleason, to Esso Research and Engineering Co. Drying oils from steam-cracked petroleum fractions. 2,795,631, 6-11-57, Cl. 260-669.
- Nelson, Joseph F., R. F. Leary, and L. M. Welch, to Esso Research and Engineering Co. 2-stage manufacture of copolymers. 2,800,463, 7-23-57, Cl. 260-88.1.
- Nelson, Joseph F., F. W. Banes, and A. W. Hubbard, to Esso Research and Engineering Co. Recovery of cyclodienes with vapor phase cracking. 2,801,270, 7-30-57, Cl. 260-666.
- Nelson, Joseph F., and D. F. Koenecke, to Esso Research and Engineering Co. Plasticization of synthetic drying oil films. 2,802,842, 8-13-57, Cl. 260-407.
- Nelson, Kenneth A.: *See*—
- Pegel, Robert E., and Nelson. 2,796,038.
- Nelson, Leonard: *See*—
- Darden, Elwyn J. 2,799,275.
- Nelson, Leven R. Multiple-tube hose coupling. 2,798,745, 7-9-57, Cl. 285-155.
- Nelson, Lois: *See*—
- Jones, Robert T., and Nelson. 2,808,944.
- Nelson, Manno F., Jr.: *See*—
- Russell, Kenneth L., and Nelson. 2,779,708.
- Nelson, Manno F., Jr., to Colgate-Palmolive Co. Non-staining chlorophyll preparations. 2,783,182, 2-26-57, Cl. 167-93.
- Nelson, Martin L., C. J. Kopp, and H. U. Hjermstad, to Electro-Seal Corp. Electro-mechanical actuator. 2,776,570, 1-8-57, Cl. 74-2.
- Nelson, Melvin O. Calendar finger ring. 2,812,604, 11-12-57, Cl. 40-111.
- Nelson, Morris D., to Radio Corp. of America. High voltage supplies. 2,783,396, 2-26-57, Cl. 307-150.
- Nelson, Morris E., to Solar Aircraft Co. Fan blade construction. 2,814,350, 11-26-57, Cl. 170-159.
- Nelson Muffler Corp.: *See*—
- Thomas, Dean G., and Jasensky. 2,777,536.
- Nelson, Murrell D., and J. U. Messenger, to Socony Mobil Oil Co., Inc. Emulsion drilling fluid for wells. 2,798,851, 7-9-57, Cl. 252-8.5.
- Nelson, Nels H. Container. 2,786,595, 3-26-57, Cl. 220-1.
- Nelson, Nels H. Disappearing ash receptacle. 2,797,136, 6-25-57, Cl. 312-246.
- Nelson, Oscar E.: *See*—
- Anderson, Verne N., and Nelson. 2,787,807.
- Nelson, Richard C.: *See*—
- Davis, Hilliard L., and Nelson. 2,811,090.
- Nelson, Robert C. Implement for installing or extracting electronic tubes or for other purposes. 2,805,590, 9-10-57, Cl. 81-3.
- Nelson, Robert O., to Cameron Inc. Food serving utensil. 2,810,957, 10-29-57, Cl. 30-324.
- Nelson, Robert T.: *See*—
- Counts, James C., Nelson, and Trutna. 2,777,878.
- Nelson, Roy F.: *See*—
- Crookshand, Fred T., Jordan, Bright, and Nelson. 2,789,091.
- McKinley, John K., Bright, and Nelson. 2,818,419.
- Nelson, Rudolph G., to Hazeltine Research, Inc. Delayed-pulse generating system. 2,790,075, 4-23-57, Cl. 250-27.
- Nelson, Seddon C.: *See*—
- Holdaway, James L., and Nelson. 2,779,973.
- Nelson, Stanley C., to Western Electric Co., Inc. Grapples. 2,809,070, 10-8-57, Cl. 294-97.
- Nelson, Thomas E. Double sheave pulley. 2,787,914, 4-9-57, Cl. 74-230.8.
- Nelson, Walter A. Collapsible container. 2,797,524, 7-2-57, Cl. 43-55.
- Nelson, Walter A., to Nelson Brothers, Inc. Can crushing machine. 2,813,569, 11-19-57, Cl. 153-10.5.
- Nelson, Walter K.: *See*—
- Foss, Warren M., and Nelson. 2,795,511.
- Foss, Warren M., and Nelson. 2,796,357.
- Nelson, Wayne F., to Larkin Packer Co. Fill-up and cementing devices. 2,812,820, 11-12-57, Cl. 166-224.
- Nelson, Wayne F., to Larkin Packer Co. Fill-up and cementing devices. 2,812,821, 11-12-57, Cl. 166-224.
- Nelson, Wilbert E. Shower device. 2,785,010, 3-12-57, Cl. 299-75.
- Nelson, William T., to Phillips Petroleum Co. Selective solvent for acetylene. 2,779,458, 1-29-57, Cl. 206-0.7.
- Nelson, William T., to Phillips Petroleum Co. Distillation separation of aliphatic and naphthenic hydrocarbons employing phosphorus halides. 2,786,804, 3-26-57, Cl. 202-42.
- Nelson, William T., to Phillips Petroleum Co. Selective solvent for normally gaseous hydrocarbons. 2,795,322, 6-11-57, Cl. 206-0.7.
- Nelson, William T., to Phillips Petroleum Co. Dialkylammonium dialkylcarbamates as selective solvents for carbon dioxide and hydrogen sulfide. 2,801,151, 7-30-57, Cl. 23-2.
- Nelson, William T., to Phillips Petroleum Co. Dialkylammonium dialkylcarbamates as selective solvents for unsaturated hydrocarbons. 2,801,217, 7-30-57, Cl. 252-1.
- Nelson, William T., to Phillips Petroleum Co. Azeotropic distillation. 2,809,925, 10-15-57, Cl. 202-42.
- Nelsson, Nels, to United States Gypsum Co. Laminated wall and partition structure. 2,810,166, 10-22-57, Cl. 20-4.
- Nelsson, Nels, to United States Gypsum Co. Suspended ceiling construction. 2,811,036, 10-29-57, Cl. 72-118.
- Nelsson, Nels, to United States Gypsum Co. Furred wall construction. 2,816,436, 12-17-57, Cl. 72-118.
- Nemec, Frank J. Rapid marker-disposal bingo game board holder. 2,784,973, 3-12-57, Cl. 273-148.
- Nemergut, Paul J.: *See*—
- Reilly, James J., and Nemergut. 2,794,980.
- Nemeth, Helen. Garment supporting structure. 2,790,557, 4-30-57, Cl. 211-89.
- Nemeth, Joseph. Drapery mounting clip. 2,815,553, 12-10-57, Cl. 24-86.
- Nemeth, Otto R.: *See*—
- Gerard, Merwin, Lester, and Nemeth. 2,796,869.
- Nemeth, Otto R. High speed bearing. 2,794,692, 6-4-57, Cl. 308-203.
- Nemic, Earl A. Windshield wiper and signal. 2,799,887, 7-23-57, Cl. 15-255.
- Nemitz, Paul. Automatic riveting machine. 2,806,391, 9-17-57, Cl. 78-46.
- Nenoble, Daniel, to Sayco Doll Corp. Hair rooting equipment. 2,780,190, 2-5-57, Cl. 112-79.5.
- Nenzell, Joseph F., to Rohr Aircraft Corp. Sealing washer. 2,795,444, 6-11-57, Cl. 288-23.
- Neo Ray Products, Inc.: *See*—
- Zingone, Anthony E. 2,790,894.
- Neola, Donald: *See*—
- Weber, Bertha, and Neola. 2,816,556.
- Nepera Chemical Co., Inc.: *See*—
- Anderson, Floyd E. 2,782,201.
- Fand, Theodore L., and Vidal. 2,776,288.
- Green, Daniel M., and Duesel. 2,783,224.
- Huffman, Max N. 2,779,773.
- Ladenburg, Kurt, Duesel, and Fand. 2,776,287.
- Mast, George W. 2,787,620.
- Scudi, John V., Tennebaum, and Grail. 2,788,371.
- Tennebaum, Leon E. 2,782,204.
- Nepple, Herbert J. Truck box with convertible rack. 2,807,497, 9-24-57, Cl. 296-13.
- Nerenberg, Robert W.: *See*—
- Bergstein, Frank D., Kleingers, and Nerenberg. 2,791,364.
- Nerfin, Burton. Saliva control composition. 2,812,256, 11-5-57, Cl. 99-135.
- Nergaard, Leon S., to Radio Corp. of America. Electron beam amplifier device. 2,782,339, 2-19-57, Cl. 315-4.
- Nerney, George E. Dispensing container. 2,799,441, 7-16-57, Cl. 229-20.
- Nero, Gustav V.: *See*—
- Rogier, Clarence F., Kulo, Singer, and Nero. 2,804,737.
- Nervik, Walter E.: *See*—
- Hicks, Harry G., Nervik, and Stevenson. 2,795,481.
- Nerwin, Hubert, to Graflex, Inc. Photographic camera and objective mounts therefor. 2,805,609, 9-10-57, Cl. 95-45.

- Nerwin, Hubert, to Graflex, Inc. Rangefinder deflecting system for photographic cameras. 2,811,908, 11-5-57, Cl. 95-44.
- Nerwin, Hubert, to Graflex, Inc. Photographic camera. 2,813,469, 11-19-57, Cl. 95-1.1.
- Nes, Ragnar J., to Kochums Mekaniska Verkstads Aktiebolag. Hydraulic openers for hinged hatch covers. 2,807,461, 9-24-57, Cl. 268-75.
- Nesbit, Robert M., and R. V. Molen, to Consolidated Edison Co. of New York, Inc. Protective cap liner. 2,794,189, 6-4-57, Cl. 2-195.
- Nesbitt, Clifford W., to Modine Mfg. Co. Air adjustment for gas burner manifold. 2,803,294, 8-20-57, Cl. 158-7.
- Nesbitt, John D., and T. W. Munford, to Surface Combustion Corp. Forge furnace. 2,776,128, 1-1-57, Cl. 263-6.
- Nesbitt, John D., and T. W. Munford, to Surface Combustion Corp. Fast heat and soak furnace for extrusion. 2,802,657, 8-13-57, Cl. 263-36.
- Nesbitt, John J., Inc.: See—
- McElgin, John W. 2,816,738.
- McElgin, John W. 2,818,217.
- Nesbitt, John W., Jr., Inc.: See—
- Miller, Samuel W., Jr., and Greene. 2,808,900.
- Nesbitt, William P.: See—
- Gaudet, Leo, Nesbitt, and Steer. 2,787,954.
- Ness, Harold J., to Metallurgical Processes Co. Method of protecting surfaces of hot metallic bodies against oxidation. 2,799,604, 7-16-57, Cl. 148-13.1.
- Ness, Irving S., to Chicopee Mfg. Corp. Non-woven fabric and method of producing same. 2,794,750, 6-4-57, Cl. 117-7.
- Ness, Irving S., R. V. Lints, and D. R. Petterson, to Chicopee Mfg. Corp. Non-woven fabric. 2,782,130, 2-19-57, Cl. 117-38.
- Ness, James M., to Frankfort Distilleries, Inc. Shipping and display containers. 2,804,254, 8-27-57, Cl. 229-28.
- Nessler, Aldo E., and J. G. Hartman, to National Dairy Products Corp. Cheesemaking apparatus. 2,814,114, 11-26-57, Cl. 31-48.
- Nessmith, Josh T., Jr., to the United States of America as represented by the Secretary of the Army. Antenna coincidence indicator. 2,776,421, 1-1-57, Cl. 343-5.
- Nesson, Israel, to M. Zaiger. Wiper arm spring. 2,782,450, 2-26-57, Cl. 15-253.
- Nesson, Israel, to M. Zaiger. Flexible wiper blade. 2,796,623, 6-25-57, Cl. 15-245.
- Nesson, Israel, to M. Zaiger. Arm and blade connector for windshield wipers. 2,798,244, 7-9-57, Cl. 15-250.
- Nestle, Alfred C., and V. J. Tronolone, to The Texas Co. Lost circulation. 2,811,488, 10-29-57, Cl. 252-8.5.
- Nestler, Herbert N.: See—
- Willinger, Harding W., and Nestler. 2,782,161.
- Nestlerode, Clifford D., and D. C. Felt, to Allen B. Du Mont Laboratories, Inc. Tuning mechanism. 2,797,582, 7-2-57, Cl. 74-10.5.
- Nestlerode, Clifford D., and D. C. Felt, to Allen B. Du Mont Laboratories, Inc. Electrical tuning device. 2,808,515, 10-1-57, Cl. 250-40.
- Nestor Engineering Co.: See—
- Manty, William A., and Poole. 2,810,778.
- Netelenbos, Willem J., M. Otger, and J. G. Robbenhaar. Antiballooning spindle for ring spinning machine. 2,781,627, 2-19-57, Cl. 57-73.
- Nethercutt Laboratories: See—
- Scott, Delmer D. 2,781,020.
- Scott, Delmer D. 2,782,942.
- Netherton, Lowell E.: See—
- Bell, Russell N., and Netherton. 2,791,488.
- Netherwood, Paul H.: See—
- Lamphier, Walter C., and Netherwood. 2,808,357.
- Netherwood, Paul H., to Sprague Electric Co. Electrical capacitors. 2,785,352, 3-12-57, Cl. 317-260.
- Nethery, Stanton K., Jr., and W. O. Smith, to The Dow Chemical Co. Chain saw apparatus for producing semi-tubular shapes. 2,809,680, 10-15-57, Cl. 143-32.
- Nett, Ethbert R. Density indicating apparatus. 2,775,893, 1-1-57, Cl. 73-434.
- Nettel, Frederick. Apparatus for processing air, gas or vapors. 2,796,237, 6-18-57, Cl. 257-1.
- Nettle, Henry I. Feed mechanism for addressing machine. 2,797,636, 7-2-57, Cl. 101-65.
- Nettleton, David L.: See—
- Poorle, Glen E., and Nettleton. 2,796,597.
- Netzer, Paul M.: See—
- Matson, Herman A., and Netzer. 2,809,560.
- Netzley, Arthur B., to Purex Corp., Ltd. Box flap gluing mechanism. 2,804,043, 8-27-57, Cl. 118-2.
- Neubauer, Albert V., to Sinclair Refining Co. Automotive ignition kit. 2,788,780, 4-16-57, Cl. 123-148.
- Neubauer, Emil T., A. W. Schroder, and R. J. Hackbart, to The Trane Co. Reversible pump. 2,795,194, 6-11-57, Cl. 103-101.
- Neubauer, Joseph A., F. Strain, F. E. Kung, and F. C. Dehn, to Columbia-Southern Chemical Corp. Production of benzene hexachloride. 2,797,195, 6-25-57, Cl. 204-163.
- Neuber, Walter. Shingle gauge. 2,807,094, 9-24-57, Cl. 33-188.
- Neudecker, Christian, and A. Chiovelli. Garment clamp. 2,811,292, 10-29-57, Cl. 223-91.
- Neugass, Edwin A. Panels. 2,791,050, 5-7-57, Cl. 40-130.
- Neugass, Edwin A. Instrument indicator. 2,804,041, 8-27-57, Cl. 116-129.
- Neugebauer, Hans E. J., to Adalia Ltd. Color correction selector. 2,790,844, 4-30-57, Cl. 178-5.2.
- Neugebauer, Hans E. J., to Adalia Ltd. Reproduction with localized corrections. 2,799,722, 7-16-57, Cl. 178-5.2.
- Neugebauer, Franz J., E. L. Lustenader, R. W. Macaulay, and L. H. Tomlinson, to General Electric Co. Nozzle. 2,801,134, 7-30-57, Cl. 299-114.
- Neugebauer, Jane: See—
- Miller, Tivadar, and Neugebauer. 2,806,774.
- Neugebauer, Paul A. Handle means for containers. 2,813,742, 11-19-57, Cl. 294-32.
- Neugebauer, Wilhelm: See—
- Sus, Oskar, Neugebauer, Böttger, Endermann, and Schäfer. 2,813,792.
- Neugebauer, Wilhelm, and J. Barthenheier, to Azoplate Corp. Reproduction in flat and offset printing. 2,810,341, 10-22-57, Cl. 101-149.2.
- Neugebauer, Wilhelm, and J. Barthenheier, to Azoplate Corp. Process of reproduction in flat and offset printing. 2,810,342, 10-22-57, Cl. 101-149.2.
- Neubaus, Herbert: See—
- Kosmider, Johannes, and Neubaus. 2,793,110.
- Neubausen, Martin W.: See—
- Cochran, Carl J., and Neubausen. 2,781,534.
- Neubausen, Sebastian P. Wallet guard. 2,796,106, 6-18-57, Cl. 150-47.
- Neuhauser, Albert E., to Reda-Turner Mfg. Co., Inc. Disconnecting adapter for adjacent joints of parallel pipes. 2,788,991, 4-16-57, Cl. 285-18.
- Neuklis, Frank J. Question and hidden answer device. 2,817,159, 12-24-57, Cl. 35-9.
- Neumair, Joseph A., to International Cigar Machinery Co. Apparatus for cigar machines. 2,785,682, 3-19-57, Cl. 131-38.
- Neuman, Andrew, H. T. Neher, and E. H. Specht, to Rohm & Haas Co. Preparation of acrylates. 2,778,848, 1-22-57, Cl. 260-486.
- Neuman, Chaim J. Grease guns. 2,805,797, 9-10-57, Cl. 222-253.
- Neumann, Adolf, to M. Grundig. Sound recording apparatus. 2,815,216, 12-3-57, Cl. 274-1.
- Neumann, Ernest P.: See—
- Lustwerk, Ferdinand, Mickle, and Neumann. 2,817,959.
- Lustwerk, Ferdinand, Mickle, and Neumann. 2,817,960.
- Neumann, Gerhard, to General Electric Co. Self-operating check valve. 2,781,054, 2-12-57, Cl. 137-527.8.
- Neumann, Karl L., N. L. Barlow, and C. E. Schneider, to Radio Corp. of America. Single sideband transmitting and receiving unit. 2,808,504, 10-1-57, Cl. 250-13.
- Neumann-Lezius, Hans, to Brunsviga Maschinenwerke Aktiengesellschaft. Setting mechanism for key-set calculating and printing machine. 2,815,912, 12-10-57, Cl. 235-60.31.
- Neumayer, Wilhelm. Prosthetic tooth simulating a natural tooth having a filling and method of making the same. 2,792,628, 5-21-57, Cl. 32-8.
- Neumeister, Fritz. Bucket cleaning attachment. 2,786,591, 3-26-57, Cl. 214-510.
- Neumoyer, Clifton R., to The Pennsylvania Salt Mfg. Co. Fungicidal composition and methods of applying. 2,777,793, 1-15-57, Cl. 167-30.
- Neuschotz, Robert. Method of forming tubular locking inserts. 2,791,787, 5-14-57, Cl. 10-86.
- Neuschotz, Robert. Split sleeve type locking insert with inwardly deformed thread and longitudinal key. 2,815,058, 12-3-57, Cl. 151-8.
- Neustadter, Irving, to Precious Metals Research Works, Inc. Prefabricated artificial tooth and facial member. 2,798,295, 7-9-57, Cl. 32-10.
- Neustadter, Irving, to Dental Ceramics, Inc. Dental jacket crown and restorations. 2,799,933, 7-23-57, Cl. 32-12.
- Neutelings, Jacobus P. J.: See—
- Homan, Jan D. H., and Neutelings. 2,807,569.
- Neuworth, Martin B.: See—
- Gorin, Everett, Jones, and Neuworth. 2,789,144.
- Neuworth, Martin B., to Pittsburgh Consolidation Coal Co. Catalytic conversion of methyl phenols. 2,777,881, 1-15-57, Cl. 260-621.
- Neuworth, Martin B., to Pittsburgh Consolidation Coal Co. Separation of tar acids and thiophenols. 2,785,206, 3-12-57, Cl. 260-627.
- Neuworth, Martin B., to Pittsburgh Consolidation Coal Co. Method of removing thiophenols from phenols. 2,789,145, 4-16-57, Cl. 260-627.
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- Neuworth, Martin B., to Pittsburgh Consolidation Coal Co. Double solvent extraction of tar acids. 2,806,886, 9-17-57, Cl. 260-627.
- Neuworth, Martin B., and E. B. Hotelling, to Pittsburgh Consolidation Coal Co. 4-thiol-6-t-butyl-ortho-cresol and method of preparation. 2,810,765, 10-22-57, Cl. 260-609.
- Neveling, Aloys, Sr. Toy fountain. 2,785,895, 3-19-57, Cl. 272-8.
- Neyenzel, Judd C., to the United States of America as represented by the United States Atomic Energy Commission. Chemical purification of uranium compounds. 2,780,516, 2-5-57, Cl. 23-14.5.

- Neville, Richard P., and J. F. Palmer, Jr., to Monsanto Chemical Co. Oil-soluble sulfonated hydrocarbons. 2,816,076, 12-10-57, Cl. 252—48.2.
- Nevin, Scott, to International Telephone and Telegraph Corp. Sensitive electron discharge tube. 2,796,547, 6-18-57, Cl. 313—94.
- Nevrincean, George: *See—*
- Fuchs, Francis J., Jr., and Nevrincean. 2,800,943.
- New, John C., to the United States of America as represented by the Secretary of the Navy. Fixed depth pressure detector or indicator. 2,803,135, 8-20-57, Cl. 73—300.
- New Products Corp.: *See—*
- Banker, Oscar H. 2,777,329.
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- Banker, Oscar H. 2,793,498.
- Banker, Oscar H. 2,799,089.
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- New Tools Co., Inc.: *See—*
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- Nielsen, Niels E. 2,778,048.
- Newark Pattern Works, Inc.: *See—*
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- Newark Rivet Works: *See—*
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- Newaygo Engineering Co.: *See—*
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- Newberg, Raymond G.: *See—*
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- Sparks, William J., Baldwin, and Newberg. 2,791,327.
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- Newberry, Sterling P., and S. E. Summers, to General Electric Co. X-ray microscope. 2,814,729, 11-26-57, Cl. 250—49.5.
- Newbold, Jean P. Stop motion for a knitting machine. 2,800,781, 7-30-57, Cl. 66—157.
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- Booth, John G., Newbold, and Whitehead. 2,814,312.
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- Pekrul, Arthur F. 2,816,767.
- Pethybridge, Charles A. 2,789,440.
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- Morrill, Elliott, and Newburn. 2,782,171.
- Newby, Neal D.: *See—*
- Lovell, Clarence A., and Newby. 2,790,849.
- Newby, Ralph E.: *See—*
- Chesrown, Russell, Newby, and Arthur. 2,811,559.
- Newby, Richard F. Beverage cooling unit. 2,800,003, 7-23-57, Cl. 62—141.
- Newby, Thomas H., R. H. Snyder, and H. A. Hageman, to United States Rubber Co. Preparation of maleuric acid. 2,793,231, 5-21-57, Cl. 260—534.
- Newco Mfg. Co., Inc.: *See—*
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- Newcomb, Charles E.: *See—*
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- Newcomb, Harley M.: *See—*
- Hess, Lester J., and Newcomb. 2,794,963.
- Wade, Charles E., Long, and Newcomb. 2,814,025.
- Newcomb, Harley M., to Wade Electric Products Co. Window control switch. 2,791,647, 5-7-57, Cl. 200—16.
- Newcomb, John F. Means for clinching nuts on metal panels. 2,799,188, 7-16-57, Cl. 78—46.
- Newcomb, Walter J., and J. S. Williamson, to Burlington Engineering Co., Inc. Pressure dye machine. 2,792,702, 5-21-57, Cl. 68—189.
- Newcomer, Garfield H., S. Nagy, and L. M. Showers, to The Pennsylvania Railroad Co. Skid. 2,817,304, 12-24-57, Cl. 105—369.
- Newcomer, Harry S., and A. F. Anderson; said Anderson assor. to said Newcomer. Prism machining method. 2,807,922, 10-1-57, Cl. 51—284.
- Newcomer, Jack S.: *See—*
- Robitschek, Paul, Bean, and Newcomer. 2,779,769.
- Newcomer, Jack S., to The Pennsylvania Salt Mfg. Co. Pesticidal compositions and their use. 2,787,573, 4-2-57, Cl. 167—30.
- Newcomer, Jack S., P. Robitschek, and C. T. Bean, Jr., to Hooker Electrochemical Co. Adduct of hexachlorocyclopentadiene with fumaryl chloride and process for making the same. 2,812,347, 11-5-57, Cl. 260—468.
- Newcomer, Jacob R., Jr., to Camloc Fastener Corp. Latch fastener. 2,804,326, 8-27-57, Cl. 292—83.
- Newcum, Kenneth M. Drier-filter. 2,781,912, 2-19-57, Cl. 210—112.
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- Newell, Edward T. Folding steps for truck bodies. 2,807,476, 9-24-57, Cl. 280—166.
- Newell, Frederick T., and R. E. Risley, to Dresser Industries, Inc. Coupling with stress preventing gasket. 2,784,991, 3-12-57, Cl. 285—373.
- Newell, Frederick T., and T. J. O'Hargan, to Dresser Industries, Inc. Service tee. 2,784,933, 3-12-57, Cl. 251—225.
- Newell, Frederick T., and R. E. Risley, to Dresser Industries, Inc. Fabricated sheet metal pipe line fitting. 2,790,655, 4-30-57, Cl. 285—373.
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- Newell, Gordon H. Light switch. 2,805,296, 9-3-57, Cl. 200—61.47.
- Newell, Isaac L., and E. A. Walen. Method for the production of black oxide coatings on steel and iron and composition therefor. 2,817,610, 12-24-57, Cl. 148—6.14.
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- Newell, John R., to General Electric Co. Positive engage positive stop clutch. 2,803,323, 8-20-57, Cl. 192—18.
- Newell, William H., to Sperry Rand Corp. Navigational rhumb line computer. 2,783,942, 3-5-57, Cl. 235—61.
- Newell, William H., to The Sperry Corp.-Ford Instrument Co. Division. Fine and coarse control. 2,800,769, 7-30-57, Cl. 60—52.
- Newell, William H., to E. G. Staudt Mfg. Co., Inc. Side guide tension for webs. 2,807,465, 9-24-57, Cl. 271—2.6.
- Newell, William H., to Sperry Rand Corp. Four dimensional network. 2,817,478, 12-24-57, Cl. 235—61.
- Newell, William H., and L. S. Brown, to Sperry Rand Corp. Bomb director for offset bombing. 2,815,170, 12-3-57, Cl. 235—61.5.
- Newell, William H., E. G. Burgess, Jr., N. J. Zabb, and S. I. Frangoulis, to Sperry Rand Corp. Method and device for predicting values of a fluctuating system at a predetermined future time. 2,817,479, 12-24-57, Cl. 235—61.
- Newell, William J., to Harris-Seybold Co. Wheel dresser. 2,788,624, 4-16-57, Cl. 51—288.
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- Newey, Herbert A.: *See—*
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- Newey, Herbert A., to Shell Development Co. Method for preparing hard flexible vinyl halide polymer-liquid polyepoxide compositions and resulting products. 2,795,565, 6-11-57, Cl. 260—30.6.
- Newgen, Bob G. Tractor hitch control device. 2,799,251, 7-16-57, Cl. 121—41.
- Newhall, Donald H. Pressure cylinder unit and method. 2,796,229, 6-18-57, Cl. 251—61.
- Newhall, Henry S., and P. J. Wynne, to McGraw-Edison Co. Power clamp for furnace electrode. 2,812,375, 11-5-57, Cl. 13—16.
- Newhard, Nelson J., Jr.: *See—*
- Carroll, John A., and Newhard. 2,795,518.
- Newhard, Nelson J., Jr., to American Chemical Paint Co. Method of producing corrosion resistant coatings of uniform color and appearance on a succession of aluminum pieces. 2,814,577, 11-26-57, Cl. 148—6.16.
- Newhard, Nelson J., Jr., and J. A. Carroll, to American Chemical Paint Co. Process for enhancing the corrosion resistance of certain coated aluminum surfaces. 2,798,829, 7-9-57, Cl. 148—6.2.
- Newhard, Nelson J., Jr., and J. A. Carroll, to American Chemical Paint Co. Method of improving the corrosion resistance of certain coated aluminum surfaces. 2,798,830, 7-9-57, Cl. 148—6.2.
- New Haven Board & Carton Co., The: *See—*
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- Toensmeier, Patrick A. 2,790,590.
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- New Holland Machine division of the Sperry Rand Corp.: *See—*
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- Newkirk, Clarence E. Tractor drawn agricultural implement. 2,784,657, 3-12-57, Cl. 97—47.53.
- Newkirk, James A.: *See—*
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- Newman, Albert H. Flake ice making machine. 2,812,644, 11-12-57, Cl. 62—106.
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- Newman, Charles H., to Ekco Products Co. Beverage dispensing apparatus. 2,812,116, 11-5-57, Cl. 222—183.
- Newman, Douglas A., and A. T. Schlottzauer, to Columbia Ribbon & Carbon Mfg. Co., Inc. Planographic printing plate. 2,808,778, 10-8-57, Cl. 101—149.2.
- Newman, Douglas A., and A. T. Schlottzauer, to Columbia Ribbon & Carbon Mfg. Co., Inc. Transfer sheet. 2,810,661, 10-22-57, Cl. 117—36.
- Newman, Edward A., to National Research Development Corp. Electrical gate circuits. 2,783,374, 2-26-57, Cl. 250—27.
- Newman, Julian, to Houdry Process Corp. Method and apparatus for contacting fluids with solids. 2,779,716, 1-29-57, Cl. 196—52.
- Newman, Kenneth W., D. C. Atkins, Jr., and G. S. Douglas, to Turco Products, Inc. Process for etching aluminum alloy surfaces. 2,795,490, 6-11-57, Cl. 41—42.
- Newman, Kenneth W., D. C. Atkins, Jr., and G. S. Douglas, to Turco Products, Inc. Process for etching aluminum alloy surfaces. 2,795,491, 6-11-57, Cl. 41—42.
- Newman, Louis. Wheel dresser. 2,809,474, 10-15-57, Cl. 51—166.
- Newman, Louis B. Apparatus for testing muscles. 2,784,592, 3-12-57, Cl. 73—379.
- Newman, Maynard H. Hackamore bridle. 2,804,740, 9-3-57, Cl. 54—6.
- Newman, Morris M., to Lightning & Transients Research Institute, Inc. Noise generators. 2,791,684, 5-7-57, Cl. 250—17.
- Newman, Paul A. Locking hook. 2,791,016, 5-7-57, Cl. 24—73.
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- Newman, Victor M. Necktie sewing machines. 2,816,520, 12-17-57, Cl. 112—174.
- Newman, Wilson. Bird feeder having a bird supporting platform. 2,786,446, 3-26-57, Cl. 119—52.
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- Newmont Mining Corp.: *See*—
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- Newton, Alvin B., to The Coleman Co., Inc. Refrigerating compressor. 2,803,951, 8-27-57, Cl. 62—115.
- Newton, Alvin B., to The Coleman Co., Inc. Cooling apparatus. 2,809,019, 10-8-57, Cl. 257—241.
- Newton, Alvin B., to The Coleman Co., Inc. Method of conditioning air. 2,811,223, 10-29-57, Cl. 183—114.2.
- Newton, Catherine H.: *See*—
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- Newton, Charles G., 50% to C. E. Church. Knitting machine for full fashioned hosiery. 2,777,309, 1-15-57, Cl. 66—146.
- Newton, Dudley, Jr., 1/2 to A. J. Devalle. Water saving flush tank. 2,809,378, 10-15-57, Cl. 4—67.
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- Newton, Elmore J., to Jones & Laughlin Steel Corp. Anode and method of continuous plating. 2,776,939, 1-8-57, Cl. 204—28.
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- Lambeck, Raymond P., and Newton. 2,796,138.
- Newton, William H., to The Jeffrey Mfg. Co. Material separator and improved material supporting and guide means therefor. 2,804,207, 8-27-57, Cl. 209—223.
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- Huber, Matthew W. 2,785,639.
- Orshansky, Elias, Jr. 2,809,594.
- Rosaen, Nils O. and O. E. 2,786,422.
- Safford, Lewis A. 2,781,235.
- Siver, Douglas H. 2,778,314.
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- Sudduth, Henry N. 2,784,039.
- Vander Kaay, Henry A. 2,789,542.
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- Swidinsky, John, and Baizer. 2,785,163.
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- New York Umbrella Co., Inc.: *See*—
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- Ney, Edward J., and J. R. Winckler, to the United States of America as represented by the Secretary of the Navy. Automatic balloon appendix. 2,783,002, 2-26-57, Cl. 241—31.
- Ney, Edward P.: *See*—
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- Ney, John P. Gate-type flow regulators with cleaning orifices. 2,780,232, 2-5-57, Cl. 137—238.
- Ney, Theresa G. Portable device for teaching music. 2,807,183, 9-24-57, Cl. 84—471.
- Ney, William O., Jr.: *See*—
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- Barnes, Carl E., Nummy, and Ney. 2,806,841.
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- Nibbe, George H., to the United States of America as represented by the Secretary of the Navy. Automatic frequency control system. 2,789,226, 4-16-57, Cl. 250—36.
- Niblock, Raymond H., Sr. Portable intercommunication telephone. 2,793,248, 5-21-57, Cl. 179—1.
- Nichel, John C., Jr. Hand grip control device for internal combustion engines. 2,776,579, 1-8-57, Cl. 74—488.
- Nicholas, Alfred J., and R. N. Buttery, to South Wales Switchgear Ltd. High voltage switching installations. 2,814,002, 11-19-57, Cl. 317—103.
- Nicholas, Andrew J., to Worthington Corp. Self aligning connecting rod and piston assembly. 2,818,314, 12-31-57, Cl. 309—20.
- Nicholas, Edward A. Terminal connector. 2,808,449, 10-1-57, Cl. 174—59.
- Nicholas, Edward S. Holder for nursing bottle. 2,789,002, 4-16-57, Cl. 294—33.
- Nicholas, James H., to G & W Electric Specialty Co. Insulator for high voltage cable terminator or bushing. 2,790,842, 4-30-57, Cl. 174—20.
- Nicholas, James H., to G & W Electric Specialty Co. Cable terminator or bushing. 2,791,622, 5-7-57, Cl. 174—20.
- Nicholas, James H., to G & W Electric Specialty Co. Electric condenser. 2,794,063, 5-28-57, Cl. 174—143.
- Nicholas, James H., to G & W Electric Specialty Co. Quick break oil switch. 2,799,752, 7-16-57, Cl. 200—146.
- Nicholas, Lawrence H. Carrying apparatus. 2,808,952, 10-8-57, Cl. 214—450.
- Nicholas, Richard G.: *See*—
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- Nicholas, William, to Radiant Mfg. Corp. Projection screen. 2,812,808, 11-12-57, Cl. 160—24.
- Nicholas, William, to Radiant Mfg. Corp. Projection screen. 2,812,809, 11-12-57, Cl. 160—24.
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- Nicholas, William. Method of seaming projecting screen material. 2,813,054, 11-12-57, Cl. 154—116.5.
- Nicholl, Leonard: *See*—
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- Nicholl, Leonard: *See*—
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- Nicholl, William J., and W. L. Headley. Nestable shopping cart with movable bottom. 2,812,187, 11-5-57, Cl. 280—33.99.
- Nicholls, Nigel S.: *See*—
- Dunsmuir, Robert, Fisher, and Nicholls. 2,778,975.
- Nicholls, Ralph J., to G. N. R. D. Patent Holdings Ltd. Process for preparing 17 α -hydroxy 17-bromocetyl. 2,797,230, 6-25-57, Cl. 260—397.45.
- Nicholls, Richard S., and D. E. Fonner, to Miles Laboratories, Inc. Blood test composition and method. 2,799,660, 7-16-57, Cl. 252—408.
- Nichols, August: *See*—
- Caltagirone, Joseph V., and Nichols. 2,776,143.
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- Nichols, Charles A., G. L. Weiser, and R. M. Goodwin, to General Motors Corp. Cold working apparatus and method. 2,781,678, 2-19-57, Cl. 80—25.
- Nichols, Charles F.: *See*—
- Lynch, Ridgeway T., Nichols, and Rilling. 2,789,339.
- Nichols, Charles R., Jr. Musical rocking device. 2,806,397, 9-17-57, Cl. 84—95.
- Nichols, De Owen, Jr.: *See*—
- Turunen, William A., O'Connell, and Nichols. 2,812,157.
- Nichols, Edgar B. Liquid flow-control. 2,795,211, 6-11-57, Cl. 120—50.
- Nichols, Edward C., to Draper Corp. Loom temple. 2,818,087, 12-31-57, Cl. 139—293.
- Nichols, Ellsworth G.: *See*—
- Kemp, Edward F., and Nichols. 2,776,179.
- Nichols, Elton F., to Sprague Devices, Inc. Fluid pressure motor. 2,777,427, 1-15-57, Cl. 121—150.
- Nichols Engineering & Research Corp.: *See*—
- Boadway, John D., and Freeman. 2,816,490.
- Owen, Mark B. 2,788,754.
- Nichols, Frederick S., to L. R. Moulton Co., Inc. Curtain construction. 2,804,138, 8-27-57, Cl. 160—348.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Card-type display device. 2,787,067, 4-2-57, Cl. 40—10.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Display mount having corner pockets. 2,787,853, 4-9-57, Cl. 40—120.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Calendar pad mount. 2,798,322, 7-9-57, Cl. 40—120.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Easel type mounts. 2,810,974, 10-29-57, Cl. 40—120.
- Nichols, Harry J. Controllable reversible pitch propeller system. 2,776,719, 1-8-57, Cl. 170—160.47.
- Nichols, Harry J. Controllable-pitch propeller system. 2,786,539, 3-26-57, Cl. 170—160.32.
- Nichols, Howard H.: *See*—
- Larson, Ernest D., and Nichols. 2,801,099.
- Nichols, John R., to Jones & Lamson Machine Co. Program control mechanism. 2,789,165, 4-16-57, Cl. 200—5.
- Nichols, Nathaniel B., and V. H. Fisher, to Raytheon Mfg. Co. Precision drilling machines. 2,814,167, 11-26-57, Cl. 61—59.
- Nichols, Oliver S., $\frac{1}{2}$ to J. H. Schneider. Composition for use in eliminating oil and grease smudges from offset printing mats and plates. 2,780,168, 2-5-57, Cl. 101—149.2.
- Nichols, Proctor W., and J. C. Whittingham. Trigger release devices. 2,816,447, 12-17-57, Cl. 74—2.
- Nichols, Robinson F.: *See*—
- Kreider, Leonard C., and Nichols. 2,785,150.
- Nichols, Robinson F., and R. O. Weisz, to The B. F. Goodrich Co. Compositions comprising diisocyanate-linked elastomers and silicon dioxide. 2,814,604, 11-26-57, Cl. 260—40.
- Nichols, W. H., Co.: *See*—
- Lundstrom, Harold R. W. 2,818,023.
- Nichols, Walter B., to Stickelber & Sons, Inc. Oblique curling loaf molders. 2,782,734, 2-26-57, Cl. 107—9.
- Nichols, Walter E., to The Reeco Corp. Sewing machine clamp mechanism. 2,788,755, 4-16-57, Cl. 112—76.
- Nichols, William M., to Alco Products, Inc. Fuel injectors. 2,788,246, 4-9-57, Cl. 299—107.6.
- Nicholson, Burnard E.: *See*—
- Tourshon, Simeon I., and Nicholson. 2,793,322.
- Nicholson, Edward W. S.: *See*—
- Fritz, Robert J., Nicolai, and Nicholson. 2,777,803.
- Fritz, Robert J., and Nicholson. 2,793,713.
- Mason, Ralph B., and Nicholson. 2,813,911.
- Nicholson, Edward W. S., to Esso Research and Engineering Co. Fluid hydroforming. 2,786,019, 3-19-57, Cl. 196—50.
- Nicholson, Edward W. S., and L. A. Nicolai, to Esso Research and Engineering Co. Pressure control for fluidized solids operations. 2,787,061, 4-2-57, Cl. 34—57.
- Nicholson, Edward W. S., and A. Voorhies, Jr., to Esso Research and Engineering Co. Hydroforming high sulfur feed stocks. 2,808,366, 10-1-57, Cl. 196—50.
- Nicholson, Floyd G. Casting line sail. 2,803,081, 8-20-57, Cl. 43—43.13.
- Nicholson, Frank R., to E. I. du Pont de Nemours and Co. Web winding apparatus. 2,777,644, 1-15-57, Cl. 242—65.
- Nicholson, Frank R., to E. I. du Pont de Nemours and Co. Speed control device for rewinding apparatus. 2,798,677, 7-9-57, Cl. 242—55.15.
- Nicholson, G. W.: *See*—
- Long, Crawford G. 2,805,513.
- Nicholson, Iver W.: *See*—
- Bauerle, Lester C., and Nicholson. 2,784,075.
- Nicholson, James W. Combined pocket and pistol holster for jeans. 2,810,132, 10-22-57, Cl. 2—247.
- Nicholson, Joseph T. Combination jaw opener and fishhook remover. 2,785,501, 3-19-57, Cl. 43—53.5.
- Nicholson, Kenneth C., to The Carborundum Co. Method of making silicon carbide-bonded refractory bodies and coated metal articles. 2,784,112, 3-5-57, Cl. 117—65.
- Nicholson, Robert T.: *See*—
- Rorig, Kurt J., and Nicholson. 2,789,979.
- Nicholson, Samuel S.: *See*—
- Hebert, Harold C., and Nicholson. 2,788,136.
- Nicholson, Thomas W. Gang cutters for paring log protuberances. 2,802,494, 8-13-57, Cl. 144—134.
- Nicholson, Thomas W. Swiveled-scraper plate rotary-ring log barkers. 2,802,495, 8-13-57, Cl. 144—208.
- Nicholson, Thomas W. Barking scraper blades and mountings therefor. 2,802,496, 8-13-57, Cl. 144—208.
- Nicholson, Washington S. Gas engine fan failure shut-off switch. 2,798,465, 7-9-57, Cl. 123—41.15.
- Nicholson, William E.: *See*—
- Barnes, Frank A., Devine, Hill, Schindel, and Nicholson. 2,793,300.
- Nicholson, William Q., and C. B. Warshawsky, to Hycon Mfg. Co. Sequence timer. 2,798,138, 7-2-57, Cl. 201—48.
- Nichta, John J., to The Warner & Swasey Co. Machine tool. 2,799,075, 7-16-57, Cl. 29—41.
- Nickel Cadmium Battery Corp.: *See*—
- Fleischer, Arthur. 2,802,043.
- Nickel, Fred E. Recording system for radio direction finding equipment. 2,814,546, 11-26-57, Cl. 346—8.
- Nickells, Stanley W.: *See*—
- Flagg, Raymond P., Nickells, and Osen. 2,795,637.
- Nickelson, Robert L.: *See*—
- Berg, Lloyd, Davidson, Nickelson, and Nye. 2,782,098.
- Nickerson, Malcolm H., to Factory Mutual Research Corp. Heat-responsive closure for automatically venting a housing when overheated. 2,803,318, 8-20-57, Cl. 189—45.
- Nickerson, Mortimer H. Composition for, and method of, applying coatings of polychlorotrifluoroethylene. 2,808,342, 10-1-57, Cl. 117—65.
- Nickerson, Ralph F., to Monsanto Chemical Co. Colloidal silica compositions. 2,799,658, 7-16-57, Cl. 252—313.
- Nickerson, Ralph F., to Monsanto Chemical Co. Sized yarn and fabric containing same. 2,799,914, 7-23-57, Cl. 28—72.6.
- Nickerson, Ralph F., to Monsanto Chemical Co. Compositions of methyl ethers of polymethylol melamine and a catalyst. 2,804,441, 8-27-57, Cl. 260—29.4.
- Nickl, Edwin F., to Radio Corp. of America. Sealing apparatus for electron tubes. 2,807,913, 10-1-57, Cl. 49—2.
- Nicklas, Julius F. Poultry feeder. 2,783,739, 3-5-57, Cl. 119—52.
- Nickles, Ned F., to General Motors Corp. Automobile windshield construction. 2,817,559, 12-24-57, Cl. 296—84.
- Nickol, Frank A. Wood arch laminating machine and method. 2,799,307, 7-16-57, Cl. 144—309.
- Nickol, Gordon B., to National Distillers and Chemical Corp. Method for aging whiskey. 2,807,547, 9-24-57, Cl. 99—48.
- Nickolls, Kenneth R., and V. C. Williams, to General Aniline & Film Corp. Purification of crude anthracene. 2,783,287, 2-26-57, Cl. 260—675.
- Nickols, Chester R. Multiple valve. 2,799,294, 7-16-57, Cl. 137—631.
- Nickols, Chester R. Saturator. 2,805,922, 9-10-57, Cl. 23—267.
- Nicks, Oran W., to North American Aviation, Inc. Variable configuration jet inlet. 2,780,913, 2-12-57, Cl. 60—35.5.
- Niclas, Walter: *See*—
- Beckadolph, Richard, and Niclas. 2,790,481.
- Nicodemus, Chester R. Scoop funnel. 2,794,457, 6-4-57, Cl. 141—344.
- Nicol, Clinton C., to Brite-Ize Cleanser Co. Can closure. 2,776,787, 1-8-57, Cl. 222—544.
- Nicolai, Lloyd A.: *See*—
- Fritz, Robert J., Nicolai, and Nicholson. 2,777,803.
- Nicholson, Edward W. S., and Nicolai. 2,787,061.
- Nicolai, Lloyd A., to Esso Research and Engineering Co. Regenerator temperature control. 2,777,804, 1-15-57, Cl. 196—50.
- Nicolai, Willem H. J.: *See*—
- Geels, Bernardus H., de Kroes, and Nicolai. 2,816,171.
- Nicolaissen, Bernard H., to Olin Mathieson Chemical Corp. Production of hexachlorobenzene. 2,777,003, 1-8-57, Cl. 260—650.
- Nicolaissen, Bernard H., to Olin Mathieson Chemical Corp. Process for the production of hydrazine. 2,783,130, 2-26-57, Cl. 23—190.
- Nicolaissen, Bernard H., to Olin Mathieson Chemical Corp. Process for the preparation of primary amines. 2,805,254, 9-3-57, Cl. 260—585.
- Nicolaissen, Bernard H., to Olin Mathieson Chemical Corp. Process for producing finely divided benzene hexachloride. 2,806,523, 9-17-57, Cl. 159—48.
- Nicolaro, Louis L., to Westinghouse Electric Corp. Base for electric lamp. 2,802,191, 8-6-57, Cl. 339—145.
- Nicolaus, Frank G.: *See*—
- Troeller, Charles G., Hampel, Eckstein, and Nicolaus. 2,805,379.
- Nicolaus, Frank G., to R. T. Moloney. Shock and vibration-resistant switch. 2,800,212, 7-23-57, Cl. 194—9.
- Nicolaus, Frank G., to R. T. Moloney. Soldering lug. 2,800,637, 7-23-57, Cl. 339—275.

- Nicolaus, Frank G., to R. T. Moloney. Offset switch blade. 2,818,481, 12-31-57, Cl. 200—166.
- Nicolaus, Frank G., and D. E. Hooker, to R. T. Moloney. Step switch with memory contactor. 2,805,368, 9-3-57, Cl. 317—155.5.
- Nicolet Industries, Inc.: *See*—
Mauck, Victor, Duke, and Belfi. 2,788,840.
- Nicolet, Nicholas E., and H. Neiges: *See* Neiges assor. to said Nicolet. Slide rule pencil. 2,806,649, 9-17-57, Cl. 235—79.5.
- Nicoli, Frank D.: *See*—
Hauck, Richard M. 2,813,647.
- Nicollet, Edouard A. Improvements in picture wire. 2,801,565, 8-6-57, Cl. 87—6.
- Nicolson, Kingsley M., and A. E. Worthington, to California Research Corp. Apparatus for maintaining proper depth correlation in well logging apparatus. 2,809,435, 10-15-57, Cl. 33—134.
- Nider, John F.: *See*—
Nider, Joseph S., M. A., and J. F. 2,775,897.
- Nider, Joseph S., M. A., and J. F. Power transmission apparatus. 2,775,897, 1-1-57, Cl. 74—14.
- Nider, Michael A.: *See*—
Nider, Joseph S., M. A., and J. F. 2,775,897.
- Niebling, Karl F. J., P. L. Kooljman, G. E. Rumscheldt, and P. J. Garner, to Shell Development Co. Hydrogenation of olefin ozonides to primary alcohols. 2,792,431, 5-14-57, Cl. 260—632.
- Niebling, Roy H.: *See*—
Hill, Robert A., Hertz, and Niebling. 2,811,248.
- Niederer, Herbert O.: *See*—
Niederer, Otto C., O., and H. O. 2,776,528.
- Niederer, Otto C.: *See*—
Niederer, Otto C., O., and H. O. 2,776,528.
- Niederer, Otto C., O., and H. O. Egg supporting means in egg cleaning mechanism. 2,776,528, 1-8-57, Cl. 51—216.
- Niederer, Wilhelm: *See*—
Apothélos, Robert, and Niederer. 2,784,669.
- Niederhauser, Benjamin C.: *See*—
Farr, Robert E., and G. T., H. D., and B. C. Niederhauser. 2,787,169.
- Niederhauser, Glen T.: *See*—
Farr, Robert E., and G. T., H. D., and B. C. Niederhauser. 2,787,169.
- Niederhauser, Harry D.: *See*—
Farr, Robert E., and G. T., H. D., and B. C. Niederhauser. 2,787,169.
- Niederhauser, Warren D.: *See*—
Lane, Earl W., and Niederhauser. 2,787,643.
Lane, Earl W., and Niederhauser. 2,789,133.
- Niederhauser, Warren D., to Rohm & Haas Co. (5,5,7,7-tetramethyl-2-octenyl) trialkyl ammonium salts. 2,812,350, 11-5-57, Cl. 260—501.
- Niederman, Bernard, and S. P. Lapin, to Motorola, Inc. Electromechanical filter. 2,799,832, 7-16-57, Cl. 333—71.
- Niedling, Herman J., to United States of America as represented by the Secretary of the Navy. Breakaway suspension band. 2,786,392, 3-26-57, Cl. 89—1.5.
- Niedojadlo, Frank. Mounting and supporting devices for ladders. 2,797,037, 6-25-57, Cl. 228—61.
- Niedzwiedzki, Antoni. Metal-working tool. 2,781,258, 2-12-57, Cl. 75—123.
- Nieland, Paul J., to Hurricutter, Inc. Device for slicing vegetables and the like. 2,805,697, 9-10-57, Cl. 146—68.
- Nield, Cyril H., and W. F. X. Bosch, to Schenley Laboratories, Inc. Process for preparing 3-(4'-chlorobenzhydryloxy)-tropane. 2,782,200, 2-19-57, Cl. 260—292.
- Nielsen, A. C.: *See*—
Bateman, George H., Freeman, and Holbrook. Re. 24,320.
Krahulec, Fred. 2,784,266.
Krahulec, Fred. 2,788,392.
Krahulec, Fred. 2,801,896.
Truesdale, Gordon K. 2,806,658.
- Nielsen, Axel: *See*—
Salko, Nicholas I., and Nielsen. 2,790,320.
- Nielsen, Axel L. Pump and propulsion unit. 2,792,786, 5-21-57, Cl. 103—87.
- Nielsen, Franck M. Location of periodic defects in electronic circuits. 2,780,775, 2-5-57, Cl. 324—57.
- Nielsen, Fred C.: *See*—
Swenson, William E., and Nielsen. 2,793,533.
- Nielsen, Jorgen T.: *See*—
Clauson-Kaas, Niels K. F. W., Elming, and Nielsen. 2,802,009.
- Nielsen, Leo J. Chain saw grinding machine. 2,811,873, 11-5-57, Cl. 76—40.
- Nielsen, Martin A. Safety razor blade package. 2,815,120, 12-3-57, Cl. 206—46.
- Nielsen, Niels E., to Newark Brush Co. Staple strip rotary brush and method of making. 2,778,047, 1-22-57, Cl. 15—198.
- Nielsen, Niels E., to Newark Brush Co. Staple plate rotary brush and method of making. 2,778,048, 1-22-57, Cl. 15—198.
- Nielsen, Oliver M.: *See*—
Birchler, Robert O., and Nielsen. 2,815,905.
- Nielsen, Reinald S., to Sylvania Electric Products Inc. Transistor circuits. 2,809,239, 10-8-57, Cl. 179—171.
- Nielsen, Ruth A. Guide means for sewing machines. 2,781,008, 2-12-57, Cl. 112—151.
- Nielsen, Sydney C. Transportable container for acids or other liquids. 2,813,663, 11-19-57, Cl. 222—176.
- Nielsen, Tor W., to Wilhelm Myhre. Hoisting crane for permanent mounting upon a lorry chassis. 2,792,127, 5-14-57, Cl. 212—35.
- Nielson, Carl A.: *See*—
Milton, Clare L., Jr., and Nielson. 2,810,161.
- Niemann, Marion O. Fishhook disgorgers. 2,793,463, 5-28-57, Cl. 43—53.3.
- Niemann, Thomas F.: *See*—
Kalmbach, Philip, Jr., and Nieman. 2,802,607.
- Niemand Bros. Inc.: *See*—
Kappler, Hermann. 2,805,005.
- Niemann, Lawrence A., to Milnot Co. Reconstituted powdered milk products and method and device therefor. 2,818,341, 12-31-57, Cl. 99—63.
- Niemann, Walter A. Cue stick guiding bridge. 2,817,525, 12-24-57, Cl. 273—23.
- Niemeyer, John A., to Northrop Aircraft, Inc. Non-seize receptacle door. 2,816,680, 12-17-57, Cl. 220—29.
- Nienhuis, Kornelis, to North American Philips Co., Inc. Hydrogen thyratron improvement. 2,805,353, 9-3-57, Cl. 313—193.
- Niepmann, Friedrich. Machine for packing cigarettes. 2,810,998, 10-29-57, Cl. 53—183.
- Niepmann, Friedrich and O., C. Hahn, and H. Mittag. Apparatus for the manufacture and packing of pressings of fibrous material. 2,798,260, 7-9-57, Cl. 19—144.5.
- Niepmann, Otto: *See*—
Niepmann, Friedrich and O., Hahn, and Mittag. 2,798,260.
- Nieratko, Jacob N. Automobile hand rest. 2,777,729, 1-15-57, Cl. 296—49.2.
- Nierlich, Helmut: *See*—
Frehn, Johann, and Nierlich. 2,811,194.
- Niesemann, Fritz: *See*—
Batchelder, George E., Thoresen, and Niesemann. 2,818,198.
- Niess, Franklin E. Feed and stop pawl depressor arrangement for a gun. 2,792,762, 5-21-57, Cl. 89—33.
- Nieter, Temple, to Motorola, Inc. Electroplating method. 2,783,193, 2-26-57, Cl. 204—15.
- Nieth, Willard F., to Photogrammetry, Inc. Photographic film developer. 2,800,845, 7-30-57, Cl. 95—90.5.
- Nieto, Julio: *See*—
Beecher, Algernon W., and Nieto. 2,794,386.
- Nieuwenhoven, Hendricus J. C., to N. V. Optische Industrie "De Oude Delft". Mounting or mirrors and meniscus-shaped lenses in mirror cameras. 2,817,998, 12-31-57, Cl. 88—57.
- Nifong, Thomas H., to Reynolds Metals Co. Label roll cutting and control-feed mechanism for packaging machines. 2,802,529, 8-13-57, Cl. 164—68.
- Niggeler, Jacob F., to General Metalware Co. Feeder pail nipple structure. 2,800,107, 7-23-57, Cl. 119—71.
- Nigh, Max T., to California Research Corp. Preparation of alkyl aryl sulfonates of reduced viscosity. 2,813,831, 11-19-57, Cl. 252—161.
- Nightingall, Theodore C., and C. Luz, to Ernst Leitz, G. m. b. H. Photographic copying apparatus. 2,816,478, 12-17-57, Cl. 88—24.
- Nigrelli, Biagio J., to Container Corp. of America. Carton setting up and assembling machine. 2,811,087, 10-29-57, Cl. 93—39.
- Nigrelli, Biagio J., W. E. Stanley, R. B. Wittmann, and B. K. Snyder, to R. W. Johns, B. J. Nigrelli and R. R. Johns. Machine for loading open end cartons. 2,803,932, 8-27-57, Cl. 53—186.
- Nihlen, Arvid C. K., to Brown Fintube Co. High pressure heaters. 2,797,297, 6-25-57, Cl. 219—39.
- Niiranen, John V.: *See*—
Shea, Charles R., and Niiranen. 2,780,002.
- Nikazy, Walter A., to Houghton Elevator Co. Combined safe edge and sight guard for elevator doors. 2,791,654, 5-7-57, Cl. 200—61.43.
- Nikitin, Alexander A., and J. K. Plummer, to Tennessee Corp. Correction of mineral deficiencies in growing plants with manganese oxide. 2,804,382, 8-27-57, Cl. 71—31.
- Nikkel, Benjamin L. Non-wrap fingers for auger drum of combine. 2,778,483, 1-22-57, Cl. 198—217.
- Niklas, Wilfrid F. K. J., J. van Wijngaarden, and A. P. Van Rooy, to North American Philips Co., Inc. Magnet system for producing a magnetic field. 2,805,351, 9-3-57, Cl. 313—76.
- Nikolajevic, Stevan M. Air conditioning apparatus. 2,796,822, 6-25-57, Cl. 98—94.
- Nilsen, Bernt. Material handling boom. 2,811,261, 10-29-57, Cl. 212—58.
- Nilson, Allan R.: *See*—
Ahluquist, Zeth F. 2,778,549.
- Nilson, Edna: *See*—
Ahluquist, Zeth F. 2,778,549.
- Nilson, Olof G.: *See*—
Ahluquist, Zeth F. 2,778,549.
- Nilsson, Ole K., to Radio Corp. of America. Magnetic flip-flop. 2,782,325, 2-19-57, Cl. 307—88.
- Nilsson, Ole K., to Radio Corp. of America. Oscillator frequency drift compensation arrangement. 2,811,647, 10-29-57, Cl. 250—36.
- Nilsson, Bengt: *See*—
Messing, Hjalmar S., and Nilsson. 2,808,156.
- Nilsson, Erland, to Allmänna Svenska Elektriska Aktiebolaget. Spark gap stack, preferably for valve type lightning arresters. 2,807,751, 9-24-57, Cl. 315—36.

- Nilsson, Hans R.: *See*—
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 Lindhagen, Teodor I., and Nilsson. 2,799,253.
 Lindhagen, Teodor I., and Nilsson. 2,801,792.
 Lindhagen, Teodor I., and Nilsson. 2,808,813.
- Nilsson, Hans R., and P. W. S. Persson, to Svenska Rotor Maskiner Aktiebolag. Rotary devices particularly rotary heat exchangers. 2,803,508, 8-20-57, Cl. 308—219.
- Nilsson, Hans R., and T. I. Lindhagen, to Svenska Rotor Maskiner Aktiebolag. Engines of screw rotor type. 2,804,260, 8-27-57, Cl. 230—139.
- Nilsson, Herman B., to Etablissement Mecatron. Devices for controlling the position of a sheet material on a support. 2,818,252, 12-31-57, Cl. 271—57.
- Nilsson, Karl E. Insulating handles for frying pans and the like. 2,815,884, 12-10-57, Cl. 220—94.
- Nilsson, Karl T.: *See*—
 Bostian, Logan C., Joris, and Nilsson. 2,805,122.
- Nilsson, Nils E., to Telefonaktiebolaget L M Ericsson. Connection for automatic ring signal. 2,815,404, 12-3-57, Cl. 179—22.
- Nilsson, Nils E., L. Essingen, G. O. Rodnert, and P. G. Jonsson, to Telefonaktiebolaget L M Ericsson. Identifier. 2,779,824, 1-29-57, Cl. 179—18.
- Nilsson, Nils L.: *See*—
 Lock, Robert L., and Nilsson. 2,791,623.
- Nilsson, Olof F. Meteorological transmitter and recorder. 2,788,254, 4-9-57, Cl. 346—33.
- Nimeroff, Isadore, and S. W. Wilson, to the United States of America as represented by the Secretary of the Army. Smoke colorimeter. 2,802,390, 8-13-57, Cl. 88—14.
- Nimmo, Ray F. Picnic table and chair combination. 2,811,197, 10-29-57, Cl. 155—124.
- Nimmo, Raymond L. Douche nozzle. 2,791,218, 5-7-57, Cl. 128—240.
- Nims, Paul T., to Chryslers Corp. Electrical coil. 2,786,187, 3-19-57, Cl. 336—180.
- Nimtz, Herbert A. Wheeled tandem attachment for coupling tractor-trailers. 2,816,776, 12-17-57, Cl. 280—423.
- Nina, Anthony A., to Minneapolis-Honeywell Regulator Co. Switch mechanism. 2,785,256, 3-12-57, Cl. 200—153.
- Ninde, Richard W. Chair. 2,802,514, 8-13-57, Cl. 155—54.
- Ninneman, Lawrence D.: *See*—
 Hallenbeck, Thomas L., and Ninneman. 2,781,546.
- Nippon Denshin Denwa Kosha: *See*—
 Katsumaru, Kunizo, Hayashi, and Iwai. 2,777,988.
- Nippon Kogaku K. K.: *See*—
 Inoue, Asao. 2,787,935.
 Takahashi, Kinji. 2,781,694.
- Nippon Kokan K. K. (Nippon Steel Tube Co. Ltd.): *See*—
 Kuroda, Shigeyoshi. 2,779,573.
- Nisbet, James D. and A. H. Perkins, to Universal-Cyclops Steel Corp. Method and apparatus for melting metal under vacuum. 2,788,270, 4-9-57, Cl. 75—49.
- Nisbet, Walker R. Nut grabber. 2,788,630, 4-16-57, Cl. 56—323.
- Nischk, Günther, and K. E. Müller, to Farbenfabriken Bayer Aktiengesellschaft. Copolymers of polyesters condensed with xylene-formaldehyde resins, modified by treatment with polymerizable unsaturated compounds and method of making same. 2,806,834, 9-17-57, Cl. 260—45.4.
- Nischk, Günther, and K. E. Müller, to Farbenfabriken Bayer Aktiengesellschaft. Diisocyanate modified polyester resin and process of making same. 2,806,835, 9-17-57, Cl. 260—45.4.
- Nischk, Günther, and K. E. Müller, to Farbenfabriken Bayer Aktiengesellschaft. Diisocyanate modified polyester copolymer and process of making same. 2,806,836, 9-17-57, Cl. 260—45.4.
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- Nitkin, Reuben H. Coiffure control. 2,815,031, 12-3-57, Cl. 132—49.
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- Nixon, John D., ½ to Arencu Ltd. Apparatus for dispensing sealing strips or the like. 2,793,856, 5-28-57, Cl. 271—2.4.
- Nixon Nitration Works: *See*—
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- Nixon, William S., Jr. Folding eyeglass frame. 2,814,968, 12-3-57, Cl. 88—44.
- Noack, Rolf: *See*—
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- Noah, Brooks C.: *See*—
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- Nobis, John F., and R. E. Robinson, to National Distillers and Chemical Corp. Preparation of di-grignard organo-metallic derivatives. 2,795,624, 6-11-57, Cl. 260—665.
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- Noble, David L.: *See*—
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- Noble, Dwight M., to A. E. Noble. Electrically operated calendar device. 2,791,850, 5-14-57, Cl. 40—107.
- Noble, F. H., and Co.: *See*—
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- Noble Mfg. Co., Inc.: *See*—
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- Noble, Sid: *See*—
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- Noble, Richard M. Drill bit extension. 2,816,769, 12-17-57, Cl. 279—83.
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- Nock, Berta N. Skirt marker. 2,792,631, 5-21-57, Cl. 33—9.
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- Noda, Tokiti. Hydrothermal treatment of an agglomerate of synthetic mica crystals. 2,778,713, 1-22-57, Cl. 23—110.
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- Noe, Frank, to The Fafnir Bearing Co. Bearing mounting. 2,794,691, 6-4-57, Cl. 308—72.
- Noe, Harold C., to Kidde Mfg. Co., Inc. Slider box assembly for warp knitting machines. 2,782,617, 2-26-57, Cl. 66—86.

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- Noel, Vernon E., and R. G. Weyant, to B & N Aluminum Welding Corp. Door construction. 2,781,875, 2-19-57, Cl. 189-46.
- Noell, Charles P.: *See*—
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- Noer, William. Fishing lure. 2,799,963, 7-23-57, Cl. 43-42.5.
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- Nofer, Paul. Closure for containers. 2,786,593, 3-26-57, Cl. 215-39.
- Noffinger, Kenna E. Tractive vehicle mounted bucket. 2,815,138, 12-3-57, Cl. 214-140.
- Noguchi, Isamu. Lamp construction. 2,781,444, 2-12-57, Cl. 240-36.
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- Noheil, Thomas C., to National Aluminate Corp. Method of improving the coefficient of friction between contacting metal surfaces and article produced thereby. 2,787,967, 4-9-57, Cl. 104-1.
- Nohner, Fabian P., to Kraft Foods Co. Combined cream separator and flow meter. 2,784,589, 3-12-57, Cl. 73-193.
- Noirclerc, Andre, to Societe Industrielle de Liaisons Electriques. Junction device for electrical conductors. 2,801,400, 7-30-57, Cl. 339-247.
- Nokes, Charles M. Process for recovery of molybdenite from copper sulfide molybdenite flotation concentrates. 2,811,255, 10-29-57, Cl. 209-167.
- Nolan, Edward A.: *See*—
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- Nolan, Terence C., to General Electric Co. Electrical cooking appliance. 2,810,057, 10-15-57, Cl. 219-37.
- Nolan, Vincent B., to Bethco Co., Inc. Composite cable for conducting electricity. 2,778,870, 1-22-57, Cl. 174-128.
- Noland, Harley E., and H. E. Hankey. Threading tool for plastic pipe. 2,783,485, 3-5-57, Cl. 10-123.
- Noland, Robert A.: *See*—
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- Noland, Robert L.: *See*—
Rogers, William L., and Noland. 2,781,633.
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- Nold, Francis E. Combination double hook-link and chain. 2,785,578, 3-19-57, Cl. 74-245.
- Nold, Hans, to Extraction & Chemical Co., Inc. Manufacturing small-hole sieves. 2,781,097, 2-12-57, Cl. 164-125.
- Nolden, William F., and C. F. Robbins, to Cutler-Hammer, Inc. Key-operated rotary selector switches. 2,803,716, 8-20-57, Cl. 200-44.
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- Noll, Frank P. Ventilator control device. 2,814,977, 12-3-57, Cl. 93-37.
- Nolt, Edwin B.: *See*—
Eby, Richard R., and Nolt. 2,807,204.
- Nolt, Edwin B., and J. P. Tarbox, to Sperry Rand Corp. Two-spool needle-borne tier. 2,777,384, 1-15-57, Cl. 100-11.
- Nolte, Arthur C.: *See*—
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- Noma Lites, Inc.: *See*—
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- Nomarski, Georges, and P. Rousseau, to Centre National de la Recherche Scientifique. Mirror type optical objectives for microscopes. 2,801,570, 8-6-57, Cl. 85-57.
- Nomine, Gerard: *See*—
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- Nomiya, Frank K. Pail and wringer combination. 2,793,383, 5-28-57, Cl. 15-262.
- Nommensen, Erwin W., to Esso Research and Engineering Co. Ether purification. 2,791,615, 5-7-57, Cl. 260-616.
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- Noon, Alonzo W. Automatic separating system. 2,791,424, 5-7-57, Cl. 271-28.
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- Noonan, Francis J., and R. B. Harper, to Narragansett Gymnasium Equipment Co. Foldable basketball backstop. 2,786,677, 3-26-57, Cl. 273-1.5.
- Noonan, James E. Cover for golf club head. 2,788,826, 4-16-57, Cl. 150-52.
- Nooter Corp.: *See*—
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- Nopco Chemical Co.: *See*—
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- Hort, Eugene V. 2,781,361.
- Kapp, Roland, and Griffith. 2,816,112.
- Klein, Howard C., and Kapp. 2,776,304.
- Levy, Joseph. 2,813,100.
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- Ruedrich, Paul M. 2,794,000.
- Stier, George G., and Conover. 2,789,045.
- Noppen, Theodor: *See*—
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- Nora, Peter D., Jr., to Jones & Laughlin Steel Corp. Method of agglomerating fine iron ores. 2,789,895, 4-23-57, Cl. 75-5.
- Norberg, Kenneth H.: *See*—
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- Norby, Clarence V.: *See*—
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- Norcross, Austin S. Temperature compensated viscometer. 2,782,629, 2-26-57, Cl. 73-57.
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- Nord, Sven G. Gaming device. 2,799,506, 7-16-57, Cl. 273-144.
- Norda Essential Oil & Chemical Co.: *See*—
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- Nordberg Mfg. Co.: *See*—
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- Beyerstedt, John M., and Erickson. 2,796,898.
- Cramer, Robert, Jr. 2,807,247.
- Froehlich, Kurt, Grieshaber, and Leichtfuss. 2,810,375.
- Grieshaber, Emil, and Froehlich. 2,792,846.
- Gruender, Oscar C. 2,787,425.
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- Jensch, Clyde K. 2,780,894.
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- Kellogg, Joseph. 2,776,032.
- La Haye, Paul G. 2,793,079.
- Miller, Ralph. 2,781,030.
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- Rapp, John L., and Bristow. 2,802,570.
- Shirley, Paul S. 2,802,460.
- Symons, Loren G. 2,785,802.
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- Symons, Loren G. 2,807,367.
- Talboys, Henry H. 2,781,002.
- Talboys, Henry H. 2,797,889.
- Nordberg, Martin E., to Corning Glass Works. Method of glass coloration and article produced thereby. 2,779,688, 1-29-57, Cl. 117-63.
- Nordby, Howard T.: *See*—
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- Nordby, Roger M., to Zenith Radio Corp. Mixed wafer switch and turret tuner for V. H. F. with extra turret for U. H. F. 2,810,827, 10-22-57, Cl. 250-20.
- Nordegren, Sven-Ake, to Vibro-Plus Corp. Vibrator. 2,785,577, 3-19-57, Cl. 74-87.
- Norden, Alexander R.: *See*—
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- Norden, Alexander R., to Federal Electric Products Co. Calibration of circuit breaker mechanism within casing. 2,786,113, 3-19-57, Cl. 200-116.
- Norden, Alexander R., to Federal Electric Products Co. Automatic circuit breakers. 2,811,606, 10-29-57, Cl. 200-116.
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- Coulbourn, William C., and Sandberg. 2,816,570.
- Machover, Carl. 2,803,965.
- Speller, Jack B., and Preston. 2,808,987.
- Nordendale Mfg. Co., Inc.: *See*—
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- Nordfors, Kurt M.: *See*—
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- Nordisk Insulinlaboratorium: *See*—
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- Nordmark, Walter E.: *See*—
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- Nordmark, Walter E., to American Seating Co. Edge construction for a table top. 2,786,727, 3-26-57, Cl. 311—107.
- Nordmark-Werke Gesellschaft mit beschränkter Haftung: *See*—
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- Nordmeyer, Edwin E. Foldable tent frame. 2,799,286, 7-16-57, Cl. 135—4.
- Nordquist, Ronald E. J.: *See*—
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Nordquist, Ronald E. J., to American Can Co. Sheet feeding and gauging mechanism. 2,809,831, 10-15-57, Cl. 271—48.
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- Nordsieck, Arnold T., to International Standard Electric Corp. Broadband magnetron. 2,787,734, 4-2-57, Cl. 315—39.3.
- Nordsieck, William, to Eastern Cabinet Co., Inc. Connecting devices for cabinets. 2,803,511, 8-20-57, Cl. 312—263.
- Nordstrand, Sven G. Valve. 2,812,154, 11-5-57, Cl. 251—251.
- Nordstrom, John H. Method of locating vascular obstructions. 2,796,525, 6-18-57, Cl. 250—65.
- Nordyke, Horace W., Jr., to International Business Machines Corp. Error sensing arrangement for magnetic writing devices. 2,789,026, 4-16-57, Cl. 346—74.
- Nordyke, Milton H.: *See*—
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- Nore, Waldo D. Water lock boiler feedwater system. 2,804,852, 9-3-57, Cl. 122—457.
- Noregaard, Maurice J. Combination electric switch and shearing apparatus. 2,794,869, 6-4-57, Cl. 200—44.
- Noregaard, Maurice J. Multiple circuit card key switch assembly. 2,796,489, 6-18-57, Cl. 200—87.
- Norek, Frank R. Coin counting and wrapping machine. 2,809,485, 10-15-57, Cl. 53—213.
- Noren, Tore H.: *See*—
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- Norin, Allan A., to Geo. J. Meyer Mfg. Co. Case hold-down apparatus. 2,816,645, 12-17-57, Cl. 198—29.
- Norine, Irvin H. Windshield wipers and attachments therefor. 2,790,194, 4-30-57, Cl. 15—250.5.
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- Norlindh, Sven E. M. Universal joint with self lubrication. 2,792,693, 5-21-57, Cl. 64—7.
- Norlindh, Sven E. M. Arrangement for rolling straight bars at high rolling speeds. 2,809,545, 10-15-57, Cl. 80—3.
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- Normalair Ltd.: *See*—
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- Norman, Duyane R. Power driven loading device. 2,799,402, 7-16-57, Cl. 212—65.
- Norman, Edith F. Dressmaker's tape. 2,778,113, 1-22-57, Cl. 33—13.
- Norman, Edith F. Waistline tape. 2,778,114, 1-22-57, Cl. 33—13.
- Norman, Edward A., Jr., C. A. Reichelderfer, and H. L. Herzig, to Norman Products Co. Circular-type, forced air, forced draft unit heater. 2,809,627, 10-15-57, Cl. 126—110.
- Norman, Eric, to The Loewy Engineering Co. Ltd. Tool supporting means in billet extrusion presses. 2,782,919, 2-26-57, Cl. 207—4.
- Norman, Eric, to The Loewy Engineering Co. Ltd. Tool mounting means for billet extrusion presses. 2,782,920, 2-26-57, Cl. 207—4.
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- Norman, George R., W. M. Le Suer, and T. W. Mastin, to The Lubrizol Corp. Dithiophosphate esters. 2,794,041, 5-28-57, Cl. 260—461.
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- Norman, Harold: *See*—
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- Norman, Harry H., to Zig Zag Spring Co. Apparatus for forming springs. 2,800,928, 7-30-57, Cl. 140—71.
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- Norman, Oscar L., and R. M. Joyce, to International Minerals & Chemical Corp. L-glutamine synthesis. 2,790,000, 4-23-57, Cl. 260—534.
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- Norman, Richard M., and R. W. Powell, to National Automatic Tool Co., Inc. Molding machine. 2,804,752, 9-3-57, Cl. 60—97.
- Norman, W. F. Sheet Metal Mfg. Co., The: *See*—
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- Norman, William N., to Ripon Knitting Works. Collapsible display form for footwear. 2,777,216, 1-15-57, Cl. 35—57.
- Normington, James B.: *See*—
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- Norquist, Lillian V.: *See*—
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- Norquist, Victor C., deceased; L. V. Norquist, executrix, to M. V. and D. O. Blankenship. Open end bandsaw. 2,809,679, 10-15-57, Cl. 143—17.
- Norie, Robert C., to Pacific Car and Foundry Co. Spring suspension for rear axle bogeys. 2,784,980, 3-12-57, Cl. 280—104.5.
- Norris, Armand D., to Lynch Corp. Safety stop mechanism for glassware making machine. 2,790,425, 4-30-57, Cl. 121—40.
- Norris Dispensers, Inc.: *See*—
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- Norris, Edward O. Spraying apparatus. 2,798,766, 7-9-57, Cl. 299—63.
- Norris, Jack E., 1/2 to R. Mitchell. Emergency brake. 2,806,556, 9-17-57, Cl. 188—4.
- Norris, James C., to General Motors Corp. Distributor. 2,809,619, 10-15-57, Cl. 123—117.
- Norris, John C. Comb. 2,799,284, 7-16-57, Cl. 132—158.
- Norris, Joseph H. Heavy duty gooseneck trailer. 2,789,714, 4-23-57, Cl. 214—506.
- Norris, Lannie F., and D. J. W. Timmersman, to Norris Mfg. Co. Liquid dispensing cabinet with readily removable pinch-cock valve assembly. 2,806,482, 9-17-57, Cl. 137—376.
- Norris, Lannie F., and D. J. W. Timmersman, to Norris Dispensers, Inc. Pinchcock valve mechanism with well-mounting for refrigerated liquid dispensing apparatus. 2,808,185, 10-1-57, Cl. 222—556.
- Norris Mfg. Co.: *See*—
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- Norris, Mark G., Jr., and L. L. Wade, to The Dow Chemical Co. Phosphorothioate compositions and methods for controlling parasites attacking animals. 2,811,480, 10-29-57, Cl. 167—53.
- Norris, Robert W., Sr. Letter file separator. 2,789,562, 4-23-57, Cl. 129—26.
- Norris, William, to Crown Controls Co., Inc. Hunting arrow. 2,796,691, 6-25-57, Cl. 43—6.
- Norsk Hydro-Elektrisk Kvaestofaktieselskab: *See*—
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- Swensen, Gunder G. U. W. 2,779,477.
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- North, Albert L. Combined auxiliary platform and tool cabinet for tractors. 2,797,957, 7-2-57, Cl. 296—37.
- North, Donald O. Data assembly apparatus. 2,783,454, 2-26-57, Cl. 340—149.
- North, Edwin W., and R. K. Unter, to National Lock Co. Safety release for refrigerators. 2,784,022, 3-5-57, Cl. 292—336.3.
- North, Edwin W., and W. B. Wilson, to National Lock Co. Key lock construction for doors or closures. 2,814,194, 11-26-57, Cl. 70—146.

- North Electric Co.: See—
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- North & Judd Mfg. Co.: See—
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- North American Aviation, Inc.: See—
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- Northcote, John A., and K. L. Kirkpatrick, to John Deere Plow Co. (Ltd.). Adjustable stabilizing disk mounting. 2,785,619, 3-19-57, Cl. 97-209.
- Northcote, John A., and D. W. Dixon, to John Deere Plow Co. (Ltd.). Rotary mower. 2,815,631, 12-10-57, Cl. 55-118.
- Northcote, John A., and D. W. Dixon, to John Deere Plow Co. (Ltd.). Adjustable wheel assembly for farm implement. 2,818,269, 12-31-57, Cl. 280-44.
- Northcott, Roy P.: *See*—
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- Northcott, Roy P., and E. C. Housam, to The British Petroleum Co. Ltd. Preparation and use of desulphurisation. 2,793,984, 5-28-57, Cl. 196-28.
- Northcutt, Walter E., to H. K. Porter, Inc. Pressure-fluid operated tool. 2,776,481, 1-8-57, Cl. 30-180.
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- Northrop, John K., and J. H. Racing games. 2,786,680, 3-26-57, Cl. 273-86.
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- Norton, Lowell E., to Radio Corp. of America. Controlled frequency microwave generation. 2,778,938, 1-22-57, Cl. 250-36.
- Norton, Lowell E., to Radio Corp. of America. Gas resonance frequency control. 2,782,312, 2-19-57, Cl. 250-36.
- Norton, Lowell E., to Radio Corp. of America. Frequency control system. 2,786,139, 3-19-57, Cl. 250-36.
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- Norton, Sir James Farmer, & Co. Ltd.: *See*—
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- Norton, Thomas P.: *See*—
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- Norton, Willard E. Fishing lure. 2,792,662, 5-21-57, Cl. 43-42.24.
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- Ellis, Victor R. 2,812,282.
- Gever, Gabriel. 2,798,068.
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- Ward, William C. 2,808,414.
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- Vogel, Harold A. 2,787,317.
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- Novelty Tool Co., Inc.: *See*—
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- November, Milton H., to Breeze Corporations, Inc. Bellows welding apparatus. 2,798,146, 7-2-57, Cl. 219-124.
- Novi Equipment Co.: *See*—
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- Novick, Abraham, to F. L. Smithe Machine Co., Inc. Collating mechanism. 2,782,898, 2-26-57, Cl. 198-35.
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- Novitsky, Joseph. Plating rack with removable tips. 2,793,994, 5-28-57, Cl. 204-297.
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- Petersen, Karl, and Jacobsen. 2,803,583.
- Schlichtkrull, Jørgen, and Nørgen. 2,799,622.
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- Novotny, Edward C. Apparatus for treating packaged goods. 2,782,708, 2-26-57, Cl. 99-365.
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- Novy, Louis E.: *See*—
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- Now Industries, Inc.: *See*—
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- Nowak, Roger L.: *See*—
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- Nowotny, Glenn J., to Ray-O-Vac Co. Point contact battery. 2,798,895, 7-9-57, Cl. 136-111.
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- Noyes, Everett E., to Square D Co. Anti-bounce stopping device. 2,794,887, 6-4-57, Cl. 200-166.
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- Nuara, Ulisse: *See*—
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- Nuckles, William C.: *See*—
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- Nuclear Research Corp.: *See*—
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- Nuding, James M.: *See*—
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- Nu Matic Nailer, Inc.: *See*—
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- Nummy, William R.: *See*—
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- Crowther, Milton, and Nummy. 2,806,839.
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- Numsen, Harry P. Electric fence holder and insulator. 2,801,277, 7-30-57, Cl. 174-158.
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- Nunan, Craig S., to Chromatic Television Laboratories, Inc. Target structure for color television display tubes. 2,801,355, 7-30-57, Cl. 313-78.
- Nu Nite Lite Co., The: *See*—
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- Nunn, Eileen L. Colostomy apron. 2,813,530, 11-19-57, Cl. 128-283.
- Nunn, Herbert E., Jr., to Atwood Vacuum Machine Co. Ball and socket hitch with automatic safety latch. Re. 24,362, 9-24-57, Cl. 280-512.
- Nunn, Leslie R. Cooler-dispenser with removable and refillable container. 2,776,076, 1-1-57, Cl. 222-83.5.
- Nu-Parq Products Ltd.: *See*—
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- Nu Pocket Method Co., The: *See*—
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- Nüssler, Ludwig: *See*—
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- Corbett, Joseph R., and Sprague. 2,798,700.
- McEvoy, Joseph. 2,810,123.
- Spear, Walter A. 2,800,849.
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- Nyden, Robert. Tablet boxes. 2,806,626, 9-17-57, Cl. 220-31.
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- Nye, Raymond C. Bathing brush. 2,777,141, 1-15-57, Cl. 15-105.
- Nye, William F.: *See*—
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- Nye, William T. to Gaylord Container Corp. Spool. 2,799,458, 7-16-57, Cl. 242—118.8.
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- Nygaard, Hulda: *See*—
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- Nygaard, John C., to High Voltage Engineering Corp. Method and apparatus for imparting a scanning movement to a beam of charged particles. 2,816,231, 12-10-57, Cl. 250—43.
- Nyholm, Bengt V., to Atlas Copco Aktiebolag. Rock drill steel grinders. 2,809,470, 10-15-57, Cl. 51—32.
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- Nylander, Carl L. Side seam lock for containers. 2,787,401, 4-2-57, Cl. 220—77.
- Nylen, Gustav P. Oil cleaning device. 2,816,662, 12-17-57, Cl. 210—196.
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- Nyrop, Johan E. Rotating vane wheel atomizer. 2,815,246, 12-8-57, Cl. 299—63.
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- Nysted, Leonard N., to G. D. Searle & Co. Cyclic derivatives of 3-hydroxy-Δ²-pregnene-20-carboxamide. 2,813,094, 11-12-57, Cl. 260—239.5.
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- Nystrom, Carl H., to American Bosch Arma Corp. Fuel injection apparatus. 2,794,432, 6-4-57, Cl. 123—139.
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- O. K. Tool Co., Inc., The: *See*—
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- O. and S. Bearing and Mfg. Co.: *See*—
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- O and W Sewing Machine Attachments, Inc.: *See*—
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- Oakes, Earle T., to The E. T. Oakes Corp. Apparatus for laminating dough. 2,804,831, 9-3-57, Cl. 107—1.
- Oakes, Earle T., to The E. T. Oakes Corp. Sandwich machine. 2,817,306, 12-24-57, Cl. 107—1.
- Oakes, William E. Alarm device for prime movers. 2,786,437, 3-26-57, Cl. 116—70.
- Oakes, William S., Jr., to General Electric Co. Tube socket. 2,805,404, 9-3-57, Cl. 339—66.
- Oakite Products, Inc.: *See*—
Ayres, Robert F., and Heinzelman. 2,790,740.
Frey, Samuel S. 2,780,591.
- Oakley, Daniel C.: *See*—
Herbert, William S., and Oakley. 2,803,691.
- Oakley, Howard T., E. Arundale, and J. H. Jones, to Esso Research and Engineering Co. Production of higher ketones from saturated epoxides. 2,799,708, 7-16-57, Cl. 260—593.
- Oakley, Sterling A. Gas saving weld box. 2,788,430, 4-9-57, Cl. 219—74.
- Oates, John D.: *See*—
Walker, John R. D., Oates, and Coombs. 2,803,221.
- Oathout, John D., to Esso Research and Engineering Co. Emulsifiable oil composition. 2,802,786, 8-13-57, Cl. 252—33.3.
- Oathout, John D., and R. W. Scott, to Esso Research and Engineering Co. Rust preventive composition. 2,783,156, 2-26-57, Cl. 106—14.
- Oback, Nels B. Magnetically controlled game device. 2,806,323, 9-17-57, Cl. 46—240.
- Obellianne, Pierre M. J.: *See*—
Lantz, Robert L., and Obellianne. 2,783,121.
Sureau, Robert F. M., and Obellianne. 2,789,132.
- Obendorf, Herbert G.: *See*—
Montgomery, Elmer I., and Obendorf. 2,796,014.
- Obenshain, David N., to West Virginia Pulp and Paper Co. Method for continuous cooking of chips in the manufacture of pulp. 2,789,051, 4-15-57, Cl. 92—11.
- Ober, Harold E., and E. P. Gardner, to the United States of America as represented by the Secretary of the Navy. Waveguide joint. 2,802,994, 8-13-57, Cl. 333—98.
- Ober, Howard C. Power driven rotary tiller. 2,792,770, 5-21-57, Cl. 97—43.
- Oberdorf, Robert A.: *See*—
Baer, John S., and Oberdorf. 2,781,973.
- Oberdorf, Robert A., to Radio Corp. of America. Card reader device. 2,818,212, 12-31-57, Cl. 235—61.11.
- Oberlin, William C., to Colt's Patent Fire Arms Mfg. Co., Inc. Slotting tool and associated parts for a box blank forming machine. 2,814,344, 11-26-57, Cl. 164—58.
- Oberg, C. O., & Co. S. A. B.: *See*—
Sjöblom, Anders. 2,802,124.
- Öberg, Erik O., to Svenska Aktiebolaget Gasaccumulator. Sound signal transmitter device. 2,790,164, 4-23-57, Cl. 340—388.
- Oberg, Gunnard A., to Blackstone Corp. Clothes receptacle for a washing machine. 2,779,182, 1-29-57, Cl. 68—23.
- Oberg, Gustaf W. Sportsman's apparel. 2,786,208, 3-26-57, Cl. 2—232.
- Öberg, Sven, to Svenska Aktiebolaget Gasaccumulator. Navigational radar reflector systems. 2,779,019, 1-22-57, Cl. 343—18.
- Öberg, Sven, to Svenska Aktiebolaget Gasaccumulator. Navigational radar reflector systems. 2,791,767, 5-7-57, Cl. 343—18.
- Öberg, Sven, to Svenska Aktiebolaget Gasaccumulator. Reflector system intended for radar purposes. 2,793,362, 5-21-57, Cl. 343—18.
- Oberholtz, Lester E., to Allis-Chalmers Mfg. Co. Finger bearing retainer for feed cylinder. 2,803,505, 8-20-57, Cl. 308—15.
- Oberholtz, Lester E., to Allis-Chalmers Mfg. Co. Grain separating straw walker rack. 2,814,300, 11-26-57, Cl. 130—26.
- Oberle, Arthur, to Aktiengesellschaft Brown, Boveri & Cie. Speed regulator for turbines. 2,816,749, 12-17-57, Cl. 264—8.
- Oberle, John T. Trimmer attachment for mowers. 2,782,583, 2-26-57, Cl. 56—25.4.
- Obermaier, Alfred A., to Illinois Testing Laboratories, Inc. Radiation pyrometers. 2,800,023, 7-23-57, Cl. 73—355.
- Obermaier, Frank E., to The Dole Valve Co. Thermal sensing car heater valve. 2,797,875, 7-2-57, Cl. 237—8.
- Obermaier, John A. Galvanometer construction. 2,777,991, 1-15-57, Cl. 324—155.
- Oberman, Roelof M. M., to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Matching register controlled circuit for switching network. 2,787,665, 4-2-57, Cl. 179—18.
- Oberman, Roelof M. M., to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Phase and amplitude testing apparatus. 2,806,185, 9-10-57, Cl. 317—149.
- Oberman, Roelof M. M., to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Automatic signalling system. 2,813,929, 11-19-57, Cl. 179—18.
- Oderman, Samuel, to Pycpe, Inc. Interdental massage device. 2,790,441, 4-30-57, Cl. 128—62.
- Oberrach, Hans: *See*—
Fischer, Kurt, and Oberrach. 2,784,191.
- Oberst, Joseph G., to Phillips Petroleum Co. Floating roof storage tank. 2,789,722, 4-23-57, Cl. 220—26.
- Obes, Andrew N. Method for the transportation of freight. 2,787,971, 4-9-57, Cl. 105—215.
- Obladen, Albert, and M. Deutsch, to Lehn & Fink Products Corp. Compositions having joint insecticidal and bactericidal action. 2,817,622, 12-24-57, Cl. 167—30.
- Obolensky, Guy, 10% to I. J. Kunik. Shaving instrument and enclosure-holder therefor. 2,803,874, 8-27-57, Cl. 30—43.
- Obolensky, Guy, 10% to I. J. Kunik. Speed changing devices. 2,817,244, 12-24-57, Cl. 74—242.3.

- O'Boyle, Charles M. Combined manual and automatic slack adjuster for the foundation brake rigging of railway freight cars. 2,780,324, 2-5-57, Cl. 188-196.
- Obrecht, Robert P.: *See*—
Bender, Harry, and Obrecht. 2,806,768.
Bender, Harry, and Obrecht. 2,806,769.
- O'Brian, Edward D.: *See*—
Malick, Dell M., and O'Brian. 2,805,800.
- O'Brien, Brian: *See*—
O'Brien, Ethel D. and B. 2,786,388.
- O'Brien, Brian, to American Optical Co. Wide angle picture projection optical systems and screen apparatus. 2,792,746, 5-21-57, Cl. 88-24.
- O'Brien, Charles J., to General Motors Corp. Hot gas gun. 2,808,254, 10-1-57, Cl. 263-19.
- O'Brien, Edward F.: *See*—
Lear, William P., and O'Brien. 2,778,004.
- O'Brien, Edward J., to Spraying Systems Co. Whirl spray nozzle. 2,815,248, 12-3-57, Cl. 299-114.
- O'Brien, Edward L., to Westinghouse Electric Corp. Percolator control. 2,798,143, 7-2-57, Cl. 219-44.
- O'Brien, Ethel D. and B., to American Optical Co. Printing process. 2,786,388, 3-26-57, Cl. 88-24.
- O'Brien, George W.: *See*—
Lehr, Philip N., and O'Brien. 2,802,904.
- O'Brien, James B.: *See*—
Abbott, Robert H. 2,797,064.
- O'Brien, John F., to the United States of America as represented by the Army. Firing mechanism for a revolver-type gun. 2,809,565, 10-15-57, Cl. 89-156.
- O'Brien, John F., A. J. Frei, and H. O. Waag, to General Motors Corp. Freezing device. 2,800,775, 7-30-57, Cl. 62-108.5.
- O'Brien, John P. Golf tee magazine and dispensing means. 2,793,862, 5-28-57, Cl. 273-162.
- O'Brien, John P., to Standard Coil Products Co., Inc. Ultra high frequency turret tuner with uniform band spread on all bands. 2,811,637, 10-29-57, Cl. 250-20.
- O'Brien, Lois M., and W. Werder. Built-in shower sprays. 2,812,518, 11-12-57, Cl. 4-150.
- O'Brien, Michael, and J. F. Batis. Hedge trimmer. 2,798,354, 7-9-57, Cl. 56-235.
- O'Brien, Patrick R. Stamp affixing device. 2,812,094, 11-5-57, Cl. 216-29.
- O'Brien, Vincent R., to Fastee Products, Inc. Multi-purpose spray guard attachment for spray nozzles. 2,807,816, 10-1-57, Cl. 15-129.
- O'Brien, Willard F.: *See*—
Evans, Robert P. 2,794,908.
- Ocean City Mfg. Co.: *See*—
Prestner, Arthur. 2,778,240.
- Ochial, Shigeru: *See*—
Kato, Kazuharu, and Ochial, 2,788,170.
- Ochiltree, Ned A., to Ceco Steel Products Corp. Building material. 2,781,877, 2-19-57, Cl. 189-86.
- Ochs, Irving L., and P. L. Veltman. Topical non-aqueous acetate compositions. 2,788,308, 4-9-57, Cl. 167-58.
- Ochs, John H. Apparatus for handling bricks. 2,793,771, 5-28-57, Cl. 214-89.
- Ockrent, Charles, to The British Drug Houses Ltd. Apparatus for vacuum distillation. 2,818,373, 12-31-57, Cl. 202-205.
- O'Connell, Donald J., and W. A. Ray, to General Controls Co. Control apparatus using oscillatory circuits. 2,793,291, 5-21-57, Cl. 250-36.
- O'Connell, Harry E., to Ethyl Corp. Ethylene recovery. 2,817,961, 12-31-57, Cl. 62-175.5.
- O'Connell, Harry E., and J. H. Huguet, to Ethyl Corp. Hydrochlorination of ethylene. 2,818,448, 12-31-57, Cl. 260-663.
- O'Connell, John J. Sliding bolt lock having automatic dogging means. 2,787,155, 4-2-57, Cl. 70-156.
- O'Connell, Patrick W.: *See*—
Turunen, William A., O'Connell, and Nichols. 2,812,157.
- O'Connell, Raymond F. Recoil reducer for double barreled shotguns. 2,808,763, 10-8-57, Cl. 89-14.
- O'Connell, William H. Method of connecting a cable to supports. 2,814,861, 12-3-57, Cl. 29-423.
- O'Connor, Bernard E., to Houdaille Industries, Inc. Damper with fluid inertia motor. 2,777,543, 1-15-57, Cl. 188-93.
- O'Connor, Bernard E., to Houdaille Industries, Inc. Frequency sensitive mechanical damping system. 2,777,544, 1-15-57, Cl. 188-93.
- O'Connor, Bernard E., to Houdaille Industries, Inc. Flutter damper. 2,811,227, 10-29-57, Cl. 188-93.
- O'Connor, Bernard E., and R. E. King, to Indiana Commercial Filters Corp. Adjustable switch mechanism for fiber feeding and weighing mechanism. 2,800,294, 7-23-57, Cl. 249-4.
- O'Connor, Bernard E., and R. E. Henrich, to Houdaille Industries, Inc. Flutter damper with air bleed. 2,808,904, 10-8-57, Cl. 188-96.
- O'Connor, Bernard J.: *See*—
Grainger, Louis N., and O'Connor. 2,806,353.
- O'Connor, Donald T., to the United States of America as represented by the Secretary of the Navy. High sensitivity fluoroscope. 2,792,502, 5-14-57, Cl. 250-52.
- O'Connor, George L.: *See*—
Schwab, Louis, O'Connor, and Riehle. 2,785,057.
- O'Connor, James A., to Essex Wire Corp. Apparatus for coating wire. 2,812,741, 11-12-57, Cl. 118-420.
- O'Connor, John B., to Illinois Tool Works. Split washer having one helical margin and one planar margin adapted to be secured to threaded fastener. 2,779,375, 1-29-57, Cl. 151-37.
- O'Connor, Lawrence T. Burner for glass blowing lathe. 2,781,832, 2-19-57, Cl. 153-99.
- O'Connor, Thomas F., to Esso Research and Engineering Co. Process for preparing alkyl phenol sulfides. 2,785,131, 3-12-57, Cl. 252-42.7.
- O'Connor, William F., and E. J. Moriconi. Oxidation of phenanthrene to produce 2,2'-diphenic acid and its esters. 2,786,076, 3-19-57, Cl. 260-523.
- Och, Henry G.: *See*—
Glass, Myron S., Molnar, Och, and Thatcher. 2,810,830.
- Oculus-Optikgeräte G. m. b. H.: *See*—
Kirchhübel, Kurt. 2,785,598.
- O'Day, Cortland N., to Air Devices, Inc. Adjustable vortex damper. 2,783,702, 3-5-57, Cl. 98-40.
- Odden, Robert B., to International Telephone and Telegraph Corp. Wave selecting and synchronizing system. 2,802,105, 8-6-57, Cl. 250-27.
- Oddo, Vincent J. Haemostatic catheter. 2,799,273, 7-16-57, Cl. 128-325.
- Odegaard, John. Remote control relay switch. 2,802,917, 8-13-57, Cl. 200-87.
- Odegaard, John. Electric triple outlet having insulation piercing means for contacting the conductor of an electric cord. 2,810,895, 10-22-57, Cl. 339-163.
- Odell, Albert W. Pivotal connection. 2,793,387, 5-28-57, Cl. 16-166.
- Odell, Albert W. Device for raising and lowering boats. 2,808,597, 10-8-57, Cl. 9-39.
- Odell, Albert W. Extensible stairway. 2,812,528, 11-12-57, Cl. 14-71.
- Odell, Alexander D.: *See*—
Jackson, Thomas M., and Odell. 2,810,861.
- O'Dell Brothers: *See*—
Barth, Hans. 2,816,709.
- O'Dell, Harry W., and P. L. Weygandt. X-ray measuring device. 2,790,084, 4-23-57, Cl. 250-59.
- Odell, William W. Contacting fluids with solids. 2,783,187, 2-26-57, Cl. 196-52.
- Oden, Earl F., and D. Crockett. Sterile hypodermic needle holder. 2,810,473, 10-22-57, Cl. 206-17.5.
- Oden, Hoeckley, to International Standard Electric Corp. Circuit arrangement for the automatic testing of lines. 2,787,674, 4-2-57, Cl. 179-175.2.
- Odenwald, Alfred. Small-type thermostat for preventing overheating in electrical apparatus. 2,811,611, 10-29-57, Cl. 200-138.
- Oder, Elizabeth T. Combination loop and fastening device. 2,793,413, 5-28-57, Cl. 24-13.
- Odermatt, Kasper R. Pet collar. 2,798,458, 7-9-57, Cl. 119-106.
- Odin Corp.: *See*—
Bulliet, Leander J., and Bashor. 2,815,484.
Stohlquist, Roger H. 2,777,478.
Svenson, Ernest J. Re. 24,332.
- Odin, Eugene A., to The Louis Johnson Products Co., Inc. Collapsible golf cart. 2,781,202, 2-12-57, Cl. 280-42.
- Odioso, Raymond C., to Koppers Co., Inc. Tertiary alkylation of impurities in crude diisopropylbenzene. 2,810,771, 10-22-57, Cl. 260-674.
- Odle, John D., and R. Wilson, to National Petro-Chemicals Corp. Dehydrator regeneration. 2,784,805, 3-12-57, Cl. 183-114.2.
- Odum, Floyd B.: *See*—
Hutson, Lester E., Imboden, and Stannard. 2,815,789.
- Odum, William H., and W. F. Hosford, to Duro Metal Products Co. Mounting for an axially movable motor. 2,796,091, 6-18-57, Cl. 143-36.
- Odman, Reuben J. Strainer devices and detachable shaker handles therefor. 2,813,631, 11-19-57, Cl. 210-359.
- Odum, William J., Jr. Mounting and adjusting means for vertical Venetian blinds. 2,804,923, 9-3-57, Cl. 160-176.
- O'Donnell, James E. Apparatus for boring polygonal holes. 2,814,217, 11-26-57, Cl. 77-61.
- O'Dowd, Lottie K. Dust mop receptacle with mop cleaning brushes. 2,790,192, 4-30-57, Cl. 15-160.
- O'Dwyer, John R.: *See*—
Turner, Eugene L., and O'Dwyer. 2,814,451.
- O'Dwyer, Martin T., to Pye Ltd. Telephone answering machine. 2,815,401, 12-3-57, Cl. 179-6.
- Oeckl, Otto: *See*—
Brauer, Willi, and Oeckl. 2,784,619.
- Oefinger, Raymond M., to Underwood Corp. Punch and die assembly and method of making same. 2,816,461, 12-17-57, Cl. 76-107.
- Oehertman, Harold H.: *See*—
Placke, Everett H., and Oehertman. 2,813,718.
- Oehler, William P., C. H. Youngberg, and L. W. Johnson, to Deere & Co. Hitch device of the connection facilitating type. 2,793,880, 5-28-57, Cl. 280-477.
- Oehler, William P., and C. H. Youngberg, to Deere & Co. Laterally shiftable and swivelable disk mounting. 2,796,013, 6-18-57, Cl. 97-198.
- Oehler, William P., and L. W. Johnson, to Deere & Co. Planter. 2,808,181, 10-1-57, Cl. 222-368.
- Oehlschlaeger, Herman F.: *See*—
Goebel, Charles G., Brown, Oehlschlaeger, and Rolfes. 2,813,113.

- Oelbaum, Freda. Garments. 2,817,089, 12-24-57, Cl. 2-42.
- Oelderik, Jan M.: *See*—
Waterman, Hein I., Klinkenberg, and Oelderik. 2,798,889.
Waterman, Hein I., Klinkenberg, and Oelderik. 2,798,890.
- Oelkers, Heinrich J. Method of distributing laundry for processing. 2,801,748, 8-6-57, Cl. 209-122.
- Oelsen, Willy, and H. Reilmeyer, to August Thyssen-Hütte Aktiengesellschaft. Method of producing steel. 2,815,274, 12-3-57, Cl. 75-52.
- Oerman, Orey W.: *See*—
Silver, Walter H., and Oerman. 2,795,178.
- Oestergaard, Paul, and F. Villinger, to Columbus Verlag Paul Oestergaard Kommandit-Gesellschaft. Illuminated globe. 2,809,448, 10-15-57, Cl. 35-46.
- Oesterheld, Max, to Albert Strassmann K. G., Präzisions-Werkzeug- und Maschinenfabrik. Apparatus for testing cogwheels, cutting wheels, or similar wheels and more. 2,796,672, 6-25-57, Cl. 33-179.5.
- Oesterreichisch-Alpine Montangesellschaft: *See*—
Cuscolea, Otwin, Grohs, Kuhnelt, and Rosner. 2,803,534.
Höbenreich, Josef, and Kamerhofer. 2,799,492.
- Oesterreichische Stickstoffwerke Aktiengesellschaft: *See*—
Schmid, Otto. 2,789,981.
- Oestrich, Hermann: *See*—
Rosskopf, Hans. 2,801,072.
- Oeters, Richard T. Handle for lawn mowers. 2,809,490, 10-15-57, Cl. 56-249.
- Oetiker, Hans, to Gebrüder Buehler. Means for the removal of obstructions and material accumulations. 2,793,083, 5-21-57, Cl. 302-35.
- Oetiker, Hans. Pin-detent swivel coupling with locking means. 2,795,438, 6-11-57, Cl. 285-33.
- Oetli, John R. Slider for hookless fasteners. 2,817,890, 12-31-57, Cl. 24-205.14.
- Oezer, John J., to The Cincinnati Milling Machine Co. Apparatus for automatic control of electrical discharge machine. 2,807,706, 9-24-57, Cl. 219-69.
- O'Farrell, Matthew, to Chicago Pneumatic Tool Co. Combined air and water control for stopers. 2,784,701, 3-12-57, Cl. 121-10.
- O'Farrell, Matthew, and S. J. Rudy, to Chicago Pneumatic Tool Co. Drilling apparatus. 2,804,848, 9-3-57, Cl. 121-9.
- Offe, Hans-Albert: *See*—
Petersen, Siegfried, Bayer, Offe, and Domagk. 2,794,019.
Petersen, Siegfried, Bayer, Offe, and Domagk. 2,801,246.
- Offe, Hans-Albert, to Schenley Industries, Inc. Process for preparing picolyl secondary amines. 2,797,224, 6-25-57, Cl. 260-296.
- Offensend, Glen W.: *See*—
Hintz, Harvey P., Hayden, and Offensend. 2,800,832.
Hintz, Harvey P., Hayden, Offensend, and Wetherald. 2,794,364.
- Offerman, Seymour, to Industrial Hardware Mfg. Co., Inc. Socket for a printed circuit. 2,796,593, 6-18-57, Cl. 339-220.
- Office Central De Chauffage Rationnelle: *See*—
Guillon, Henri. 2,813,784.
- Office Equipment Mfg. Co., Inc.: *See*—
Lowrey, Pierce L., Sr. 2,807,406.
- Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.): *See*—
Chevallereau, Jean. 2,794,134.
Galmiche, Philippe. 2,801,187.
Galmiche, Philippe. 2,816,048.
Gregoire, Jacques A., and Cambornae. 2,779,018.
- Officine Moncenisio Gia Anonima Bauchiero S. p. A.: *See*—
Ferraguti, Luigi. 2,803,121.
- Offner, Walter W. Carrier for radioactive material. 2,781,455, 2-12-57, Cl. 250-108.
- Offutt, Elmer B.: *See*—
Howell, Hugh A., and Offutt. 2,778,580.
- Offutt, Elmer B., and L. V. Sorg, to Standard Oil Co. Method and apparatus for analyzing a reactive gas. 2,800,397, 7-23-57, Cl. 23-232.
- Offutt, William C.: *See*—
Beuther, Harold, and Offutt. 2,786,018.
Beuther, Harold, Offutt, and Siecke. 2,796,338.
- Offutt, William C., to Gulf Research & Development Co. Hydrodesulfurization process with suspended catalyst and regeneration of the catalyst. 2,794,766, 6-4-57, Cl. 196-24.
- Offutt, William W. Tear strip guide and shield. 2,804,231, 8-27-57, Cl. 220-52.
- O'Flynn, Denis J., to E. I. du Pont de Nemours and Co. Paper deinking and dewaxing process. 2,776,209, 1-1-57, Cl. 92-15.
- Ogden, Horace R.: *See*—
Jaffee, Robert I., and Ogden. 2,810,642.
Jaffee, Robert I., Ogden, and Happe. 2,796,347.
Jaffee, Robert I., Ogden, and Maykuth. 2,779,677.
Jaffee, Robert I., Ogden, and Maykuth. 2,797,996.
Jaffee, Robert I., Ogden, and Maykuth. 2,798,806.
- Ogden, John J. Detachable blade knife and blades therefor. 2,802,265, 8-13-57, Cl. 30-339.
- Ogden, Urban L. Golf club carrier. 2,791,255, 5-7-57, Cl. 150-1.5.
- Ogden, William L. W., and D. F. Murphy, to Bendix Aviation Corp. Humidity indicator. 2,781,664, 2-19-57, Cl. 73-337.
- Ogle, James A., to Sperry Rand Corp. Laminated copy unit for stereoscopic pictures. 2,785,976, 3-19-57, Cl. 96-81.
- Ogle, James C., Jr., to Libbey-Owens-Ford Glass Co. Reversible rear view mirror. 2,814,970, 12-3-57, Cl. 88-77.
- Ogle, William J., to Gifford-Hill-Western, Inc. Roller apparatus for heading thin wall pipe. 2,809,687, 10-15-57, Cl. 153-9.
- Oglebay, Norton and Co.: *See*—
Haley, Kenneth M., and Trask. 2,807,534.
Haley, Kenneth M., Trask, and Healy. 2,785,063.
Wynne, Ira H. 2,778,056.
- Ogles, Ethridge F., and J. C., to W. H. and R. H. Hinton. Mobile irrigation ditch pumping apparatus. 2,799,229, 7-16-57, Cl. 103-218.
- Ogles, J. C.: *See*—
Ogles, Ethridge F., and J. C. 2,799,229.
- Oglesbee, Wendell, to Westinghouse Electric Corp. Ballast. 2,792,556, 5-14-57, Cl. 336-155.
- Oglesbee, Wendell, and A. R. Cornell, to Westinghouse Electric Corp. Apparatus for operating gaseous discharge devices. 2,797,366, 6-25-57, Cl. 315-138.
- Oglesbee, Wendell, and A. R. Cornell, to Westinghouse Electric Corp. Cores. 2,797,395, 6-25-57, Cl. 336-165.
- Oglesby, Charles T. Tire puller assembly with circumferentially distributed thrust members. 2,778,414, 1-22-57, Cl. 157-1.2.
- Ogley, Thomas L. Door locking device. 2,804,330, 8-27-57, Cl. 292-186.
- O'Gorman, William F., to Radio City Toy Co., Inc. Airplane-kite. 2,801,063, 7-30-57, Cl. 244-154.
- Ogren, Axel E., to The Sherwin-Williams Co. Snap-on bail ear or attachment. 2,776,780, 1-8-57, Cl. 220-91.
- Ogren, Axel E., to The Sherwin-Williams Co. Modified paint tray. 2,780,960, 2-5-57, Cl. 15-121.2.
- Ogry, Arne. Electrical coupling device. 2,801,401, 7-30-57, Cl. 339-268.
- Ohaney, John W., to Interstate Engineering Corp. Vertically adjustable furniture. 2,811,401, 10-29-57, Cl. 311-39.
- O'Hara, David J., to O. K. Murphy. Reclining massage chair. 2,808,827, 10-8-57, Cl. 128-33.
- O'Hara, Edna M.: *See*—
Payne, Richard E. 2,818,299.
- O'Hara, James B.: *See*—
Wagner, George M., and O'Hara. 2,797,216.
- O'Hara, James B., to Olin Mathieson Chemical Corp. Recovery of nitrocyclohexane and adipic acid. 2,789,136, 4-16-57, Cl. 260-537.
- O'Hara, John G.: *See*—
Minton, Clarence W., and O'Hara. 2,799,149.
- O'Hara, M. L.: *See*—
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- O'Hara, Raymond L. Pulverizing machine. 2,795,176, 6-11-57, Cl. 97-40.
- O'Hare, James K., to The Seneca Mfg. Co. Door check. 2,808,608, 10-8-57, Cl. 16-70.
- Oharenko, Vladimir. Shock resistant lamp. 2,806,942, 9-17-57, Cl. 240-90.
- O'Hargan, Thomas J.: *See*—
Newell, Frederick T., and O'Hargan. 2,784,933.
- O'Harra, Edna M.: *See*—
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- O'Harra, M. L.: *See*—
Payne, Richard E. 2,812,529.
- Ohio Boxboard Co., The: *See*—
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- Ohio Brass Co., The: *See*—
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- Ohio Crankshaft Co., The: *See*—
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- Ohio Injector Co., The: *See*—
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- Ohio State University Research Foundation, The: *See*—
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- Ohlenkamp, Vern. Tractor seat. 2,788,842, 4-16-57, Cl. 155-9.
- Ohlin, Romaine M. Garment marking apparatus. 2,797,484, 7-2-57, Cl. 33-9.
- Ohlinger, Leo A.: *See*—
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- Ohlinger, Leo A., to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor. 2,790,761, 4-30-57, Cl. 204-193.
- Ohlson, John L., and K. H. Spitzmueller, to Swift & Co. Preparation of dicarboxylic acids. 2,791,607, 5-7-57, Cl. 260-537.
- Ohlstrom, Paul G. H., to A. A. Osakeyhtio. Sealing means for rotary constructions. 2,806,719, 9-17-57, Cl. 285-272.

- Ohman, Thorwald: *See*—
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- Ohmart Corp., The: *See*—
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- Ohmart, Philip E., to The Ohmart Corp. Apparatus for measuring exposure to radiant energy. 2,802,113, 8-6-57, Cl. 250—83.6.
- Ohmega Laboratories: *See*—
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- Ohnacker, Gerhard, and A. Kottler, to Dr. Karl Thomae G. m. b. H. Basic ethers of carbinols substituted by endocyclic groups, and a process of making same. 2,812,327, 11-5-57, Cl. 260—247.7.
- Ohnstad, Buri B., to American Pipe and Construction Co. Flux back-up wheel for welding. 2,786,934, 3-26-57, Cl. 219—73.
- Öholm, Gustav, to A B Svenska Flaktfabriken. Trimming and assorting device for sheet-like materials. 2,793,662, 5-28-57, Cl. 143—157.
- Ohso, Ernest O., and J. S. Mackay, to Pittsburgh Coke & Chemical Co. Hydrodealkylation of tar acids. 2,786,873, 3-26-57, Cl. 260—621.
- Oil Base, Inc.: *See*—
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- Oil Center Tool Co.: *See*—
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- Oil Equipment Laboratories, Inc.: *See*—
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- Oill, Max C. Key holding device. 2,777,317, 1-15-57, Cl. 70—457.
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- Oishei, John R., to Trico Products Corp. Windshield wiper. 2,794,203, 6-4-57, Cl. 15—245.
- Oishei, John R., to Trico Products Corp. Adjustable wiper arm. 2,799,039, 7-16-57, Cl. 15—255.
- Oishei, John R., to Trico Products Corp. Accessory system and rotary pump therefor. 2,804,261, 8-27-57, Cl. 230—205.
- Oishei, John R., to Trico Products Corp. Windshield cleaner wiper arm. 2,804,639, 9-3-57, Cl. 15—255.
- Oishei, John R., to Trico Products Corp. Windshield wiper. 2,806,241, 9-17-57, Cl. 15—250.
- Oishei, John R., to Trico Products Corp. Windshield clearing system. 2,816,316, 12-17-57, Cl. 15—250.4.
- Oishei, John R., and E. C. Horton, to Trico Products Corp. Coordinated windshield wiper and headlight beam control. 2,800,675, 7-30-57, Cl. 15—253.
- Oishei, John R., M. Bitzer, and A. C. Scinta, to Trico Products Corp. Windshield cleaning system. 2,802,232, 8-13-57, Cl. 15—253.
- Oishei, John R., and M. Bitzer, to Trico Products Corp. Windshield cleaner. 2,811,735, 11-5-57, Cl. 15—253.
- Oishi, Yoshimitsu, to Muraoka Rubber Reclaiming Co., Ltd. Apparatus for reclaiming rubber material. 2,786,635, 3-26-57, Cl. 241—79.
- Oishi, Yoshimitsu, to Muraoka Rubber Reclaiming Co., Ltd. Apparatus for reclaiming rubber material. 2,786,636, 3-26-57, Cl. 241—79.
- Okamoto, Kazuma. Main spring oilers. 2,811,732, 11-5-57, Cl. 15—133.
- Okazaki, Mitsuru. Calculating machine. 2,781,974, 2-19-57, Cl. 235—71.
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- O'Keefe, Daniel P. Illuminated stove. 2,777,050, 1-8-57, Cl. 240—2.
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- O'Keefe, Michael F., and C. B. Hamlin, to AMP Inc. Insulated connector. 2,807,792, 9-24-57, Cl. 339—276.
- Oken, Aaron, and H. E. Schroeder, to E. I. du Pont de Nemours and Co. Dyes prepared from dialdehydes by condensing with homophthalic acid and with N-substituted oxindoles. 2,777,845, 1-15-57, Cl. 260—240.
- Okie, Reginald W. Coffee maker. 2,818,010, 12-31-57, Cl. 99—283.
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- Økland, Johan M.: *See*—
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- Okonite Co., The: *See*—
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- O'Konski, Theodore S., to Wheeling Steel Corp. Packaging expanded metal lath for shipment and improved shipping package of expanded metal lath. 2,798,600, 7-9-57, Cl. 206—60.
- Okress, Ernest C., to Westinghouse Electric Corp. Strapless resonator system. 2,806,179, 9-10-57, Cl. 315—39.65.
- Okress, Ernest C., to the United States of America as represented by the Secretary of the Navy. Circular waveguide output for magnetrons. 2,817,823, 12-24-57, Cl. 333—98.
- Okress, Ernest C., and R. R. Reed, to Westinghouse Electric Corp. Echelon strapping system. 2,785,340, 3-12-57, Cl. 315—39.69.
- Okun, Nathaniel N., to Atlas Floor Surfacing Machinery Corp. Floor maintenance machine with suction. 2,801,437, 8-6-57, Cl. 15—325.
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- Olah, Emmerich I., to Cleaver-Brooks Co. Centrifugal separator. 2,804,169, 8-27-57, Cl. 183—81.
- Olchawa, Joseph M., to Foote Bros. Gear and Machine Corp. Screw actuating device. 2,776,577, 1-8-57, Cl. 74—424.8.
- Olcott, Bernard. Electromagnetic energy converter for a heat pump. 2,780,069, 2-5-57, Cl. 62—1.
- Olcott, Charles A. Fluid driven centrifugal machine. 2,779,475, 1-29-57, Cl. 210—71.
- Olcott, Victor G., and E. G. Zymkowitz, to P. R. Mallory & Co., Inc. Electrode for electrochemical cell. 2,800,521, 7-23-57, Cl. 136—125.
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- Olden, Roger G., and C. J. Young, to the United States of America as represented by the Secretary of the Army. Facsimile recorder. 2,777,744, 1-15-57, Cl. 346—74.
- Oldenboom, Derk J., to International Business Machines Corp. Optical unit for use in a record controlled machine. 2,807,190, 9-24-57, Cl. 88—24.
- Oldenboom, Derk J., to International Business Machines Corp. Sheet feeding devices. 2,813,715, 11-19-57, Cl. 271—3.
- Oldenburg, Edgar B., to Ethyl Corp. Synergistic antioxidant composition. 2,796,336, 6-18-57, Cl. 44—65.
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- Oldenburg, Walter: *See*—
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- Oldfield, James R., and W. A. Lawson, to Building Products Ltd. Method of producing selvage roll roofing. 2,798,006, 7-2-57, Cl. 117—9.
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- Old Town Corp.: *See*—
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- O'Leary, Charles M. Weight control, hoisting and drilling apparatus. 2,805,042, 9-3-57, Cl. 255—19.
- O'Leary, Francis M., E. C. Mayo, E. F. Alexander, and M. H. Kaltenbach. Incubation vest. 2,796,208, 6-18-57, Cl. 224—5.
- O'Leary, Lydia. Brassieres. 2,794,983, 6-11-57, Cl. 2—42.
- Oleksin, Wladyslaw. Tool gauge. 2,778,122, 1-22-57, Cl. 33—201.
- Oleksy, Frank M. Coping saw. 2,795,251, 6-11-57, Cl. 145—33.
- Olerud, Roy A., to Multiplex Development Corp. Multiplex communications system. 2,776,429, 1-1-57, Cl. 343—176.
- Oles, Roy A. Emergency vehicle brake. 2,808,128, 10-1-57, Cl. 183—5.
- Olesen, Nels S., to Murphy Machine Products. Saw attachment. 2,799,309, 7-16-57, Cl. 145—35.
- Olesky, Anthony P., and F. Smardo, to Motorola, Inc. Automatic record changing apparatus. 2,799,507, 7-16-57, Cl. 274—10.
- Oleson, Wrisley B.: *See*—
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- Olesten, Nils-Olof, to Svenska Aeroplan Aktiebolaget. Flexible coupling device for connecting jet-engine-powdered aircraft to ground mounted silencers. 2,798,743, 7-9-57, Cl. 285—47.
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- Olin Mathieson Chemical Corp.: See—
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- Olsen, John V. Swinging power saw. 2,792,032, 5-14-57, Cl. 143-46.
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- Olsen, Oscar, to The Babcock & Wilcox Co. Vapor generating and superheating installation. 2,797,670, 7-2-57, Cl. 122-480.
- Olsen, Otto, to Regent Wire and Rope Works. Safety guard for tire inflation. 2,780,278, 2-5-57, Cl. 157-1.
- Olso, James W.: *See*—
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- Olson, Charles L., to Radio Corp. of America. Gain-modulated amplifier. 2,794,077, 5-28-57, Cl. 179-171.
- Olson, Clare W. Mechanical toy figure. 2,804,720, 9-3-57, Cl. 46-120.
- Olson, Clarence L. Method and apparatus for forming cementitious slabs. 2,786,254, 3-26-57, Cl. 25-41.
- Olson, Clyde W.: *See*—
- Schwan, Joseph F., and Olson. 2,817,281.
- Olson, Doffner: *See*—
- Gebhart, Lee, Fague, and Olson. 2,797,478.
- Olson, Earl R.: *See*—
- Hall, Donovan L., Middleton, and Olson. 2,787,688.
- Olson, Eleanor: *See*—
- Olson, Raymond J., and Safianoff. 2,789,735.
- Olson, Elmer: *See*—
- Eickmeier, Edward W., and Olson. 2,818,239.
- Olson, Elmer, to General Motors Corp. Throttle valve control mechanism. 2,782,025, 2-19-57, Cl. 267-1.
- Olson, Elmer, to General Motors Corp. Carburetor. 2,785,880, 3-19-57, Cl. 261-34.
- Olson, Elmer, to General Motors Corp. Carburetor. 2,793,844, 5-28-57, Cl. 261-65.
- Olson, Elmer, to General Motors Corp. Carburetor. 2,797,905, 7-2-57, Cl. 261-41.
- Olson, Elmer, to General Motors Corp. Carburetor. 2,800,314, 7-23-57, Cl. 261-65.
- Olson, Elmer, to General Motors Corp. Carburetor fuel valve actuating mechanism. 2,804,087, 8-27-57, Cl. 137-445.
- Olson, Elmer, to General Motors Corp. Carburetor. 2,815,942, 12-10-57, Cl. 261-52.
- Olson, Elmer, to General Motors Corp. Carburetor. 2,818,238, 12-31-57, Cl. 261-39.
- Olson, Elmer, and R. H. Sternaman, to General Motors Corp. Carburetor. 2,792,203, 5-14-57, Cl. 261-69.
- Olson, Elmer, and A. G. Winter, to General Motors Corp. Carburetor. 2,810,560, 10-22-57, Cl. 261-23.
- Olson, Elwyn H., to Minneapolis-Honeywell Regulator Co. Control device. 2,806,924, 9-17-57, Cl. 200-139.
- Olson, George E., and D. L. Ebert, to The American Laundry Machinery Co. Filters. 2,784,846, 3-12-57, Cl. 210-184.
- Olson, Harold G., to The Bailey Co., Inc. Framing channel structures. 2,809,728, 10-15-57, Cl. 189-76.
- Olson, Harold M., to The Harshaw Chemical Co. Vinyl chloride polymers stabilized with metal salts of carboxylic acids mixed with organic titanates. 2,777,826, 1-15-57, Cl. 260-23.
- Olson, Harold O. Rotating cutting assembly. 2,801,513, 8-6-57, Cl. 56-295.
- Olson, Harry F., and H. Belar, to Radio Corp. of America. Methods of restoring phonograph records. 2,808,466, 10-1-57, Cl. 179-100.1.
- Olson, Harry F., and J. Preston, to Radio Corp. of America. Transducer with fluid filled diaphragm suspension. 2,814,353, 11-26-57, Cl. 181-31.
- Olson, Harry F., and J. Preston, to Radio Corp. of America. Loudspeaker structure. 2,815,823, 12-10-57, Cl. 181-32.
- Olson, Henry L., and R. A. Miller, to Camfield Mfg. Co. Toasters. 2,800,070, 7-23-57, Cl. 99-329.
- Olson, Holly M., to Sealed Power Corp. Oil control piston rings. 2,785,028, 3-12-57, Cl. 309-44.
- Olson, Holly M., to Sealed Power Corp. Piston ring expander with compressed dual action. 2,785,030, 3-12-57, Cl. 309-45.
- Olson, Holly M., to Sealed Power Corp. Piston ring. 2,789,022, 4-16-57, Cl. 309-44.
- Olson, Holly M., to Sealed Power Corp. Piston ring spacer and expander. 2,789,872, 4-23-57, Cl. 309-45.
- Olson, Holly M. Power driven reciprocating saw unit. 2,793,661, 5-28-57, Cl. 143-68.
- Olson, Holly M., to Sealed Power Corp. Friction free expander spacer piston ring. 2,809,081, 10-8-57, Cl. 309-45.
- Olson, Jack C., and C. M. Le Roux. Perforating device. 2,784,488, 3-12-57, Cl. 30-6.1.
- Olson, John A.: *See*—
- Lincoln, Clovis W., Zeigler, Verbrugge, and Olson. 2,792,463.
- Olson, John J., to Brown & Bigelow. One piece adjustable key holder. 2,816,434, 12-17-57, Cl. 70-457.
- Olson, John W., and S. Sortland, to Anaconda Wire and Cable Co. Wire taping machine. 2,782,138, 2-19-57, Cl. 154-227.
- Olson, Louis O. Tallying device. 2,805,024, 9-3-57, Cl. 235-122.
- Olson, Malven L., R. G. Ireland and L. M. Cowden, to Union Carbide Corp. Medium pressure acetylene generator. 2,804,380, 8-27-57, Cl. 48-53.3.
- Olson, Mark W., and B. L. Bredimus, to United States Rubber Co. Plastic shaping apparatus. 2,807,047, 9-24-57, Cl. 18-2.
- Olson, Neal R., to Speed Wrap Inc. Wrapping machine. 2,783,600, 3-5-57, Cl. 53-378.
- Olson, Oscar R. Pipe swabbing machine. 2,789,927, 4-23-57, Cl. 134-23.
- Olson, Raymond G., $\frac{1}{2}$ to K. T. Snow. Paper cup construction. 2,794,545, 6-4-57, Cl. 206-47.
- Olson, Raymond J.: *See*—
- Lerner, Louis L., and Olson. 2,815,122.
- Olson, Raymond J., deceased (by E. Olson, executrix), and A. Safianoff, to Federal Tool Corp. Liquid dropper construction. 2,789,735, 4-23-57, Cl. 222-208.
- Olson, Raymond J., and D. E. Brandt, to Federal Tool Corp. Combination dispensing and closure device. 2,808,183, 10-1-57, Cl. 222-498.
- Olson, Richard L. Preventing erosion of core boxes opposite the blow holes thereof. 2,800,690, 7-30-57, Cl. 22-13.
- Olson, Richard L. Method of and means for sealing against blowby between the separable joint faces of core boxes, pressure molds, and the like. 2,815,548, 12-10-57, Cl. 22-10.
- Olson, Richard L. Sealing of cavitated assemblies. 2,815,549, 12-10-57, Cl. 22-10.
- Olson, Robert L., W. O. Harrington, and P. C. Mayer, to the United States of America as represented by the Secretary of Agriculture. Utilization of by-product potato pieces. 2,816,037, 12-10-57, Cl. 99-154.
- Olson, Rudolph. Vine clearing device. 2,802,326, 8-13-57, Cl. 55-64.
- Olson Rug Co.: *See*—
- Zygmuntowski, Leon S. 2,780,498.
- Olson, Samuel, Mfg. Co., Inc.: *See*—
- Da Costa, James S. 2,796,975.
- Da Costa, James S. 2,802,427.
- Olson, Wallace F., and W. L. Martin, to Line Scale Co., Inc. Nylon pump valve with spring retainer. 2,810,397, 10-22-57, Cl. 137-540.11.
- Olson, Walter C. Earth handling machine. 2,792,138, 5-14-57, Cl. 214-138.
- Olson, Walter H.: *See*—
- Berglund, Arthur G., and Olson. 2,813,612.
- Olsson, Berthel K.: *See*—
- Weber, Edmund H. 2,783,369.
- Olsson, Billy E. Bathtub headrest. 2,810,137, 10-22-57, Cl. 4-185.
- Olsson, Edwin V.: *See*—
- Sieurin, Sven E., and Olsson. 2,797,157.
- Olsson, Frederick. Hidden roof gutter. 2,780,184, 2-5-57, Cl. 108-28.
- Olsson, Nils. Hook carrier for trolling-spoons and the like. 2,777,242, 1-15-57, Cl. 43-37.
- Olsson, Paul: *See*—
- Frink, Russell E., and Olsson. 2,792,461.
- Olthuis, Eugene G., to General Electric Co. Clothes dryer. 2,790,247, 4-30-57, Cl. 34-48.
- Olthuis, Eugene G., to General Electric Co. Spray means for clothes conditioner. 2,812,593, 11-12-57, Cl. 34-60.
- Olyng, Bror G. Pulsating power brake system. 2,815,098, 12-3-57, Cl. 188-85.
- Olympia Werke Aktienesellschaft: *See*—
- Bauermeister, Hans J. 2,808,611.
- Beyer, Arthur. 2,799,380.
- Demmel, Anton, and Schrader. 2,815,109.
- Fröbel, Arthur. 2,808,919.
- Kuhn, Eugen. 2,780,165.
- Liebmann, Reinhold. 2,794,530.
- Lübke, Walter. 2,790,649.
- Winter, Otto, and Dassler. 2,782,895.
- Olympic Radio & Television Inc.: *See*—
- Parzen, Benjamin. 2,798,159.
- Parzen, Benjamin. 2,800,655.
- Olympic Screw and Rivet Corp.: *See*—
- Stau, Elvert H., and Kolec. 2,794,567.
- O'Malley, John A. Flavor container and mixer. 2,787,296, 4-2-57, Cl. 141-364.
- O'Malley, Charles A., to Ford Motor Co. Method of reducing highly siliceous crude iron ore. 2,807,536, 9-24-57, Cl. 75-38.
- O'Malley, John J., to General Motors Corp. Accumulator controls for automatic transmissions. 2,809,536, 10-15-57, Cl. 74-472.
- O'Malley, Joseph M., to Morgan Construction Co. Reel for rolling mill. 2,781,179, 2-12-57, Cl. 242-81.
- O'Malley, Joseph M., and W. J. Hill, to Morgan Construction Co. Spindle carrier. 2,815,690, 12-10-57, Cl. 80-1.
- O'Mara, Robert J., to Pass & Seymour, Inc. Heavy duty attachment plug receptacle. 2,817,826, 12-24-57, Cl. 339-126.
- O'Mara, William T. Safety boat. 2,802,221, 8-13-57, Cl. 9-4.

- Oman, Philip J. Loader. 2,783,904, 3-5-57, Cl. 214-147.
- Omant, Reginald B.: *See*—
Kleem, Clifford L. 2,777,527.
- O'Meara, James P., to W. M. Sprinkman Corp. Filter. 2,808,937, 10-8-57, Cl. 210-445.
- O'Meara, John R.: *See*—
Volckening, Lloyd I., O'Meara, and Lefebvre. 2,783,877.
- Omega, Louis Brandt & Frère S. A.: *See*—
Pagnard, Georges. 2,784,051.
- Omega Precision Medical Instrument Co., Inc.: *See*—
Blackman, Seymour N. 2,813,528.
- Omer, Kenner S., Jr., to General Electric Co. Bulk tube carton. 2,784,839, 3-12-57, Cl. 206-65.
- Omon, Gene L., and E. C. Thayer, to J. I. Case Co. Shock absorbing tractor seat. 2,800,948, 7-30-57, Cl. 155-57.
- O'Morrow, William D., to Chemiglas, Inc. Plastic structural members and method for making. 2,814,842, 12-3-57, Cl. 20-57.5.
- O'Nan, William S. Collapsible mast construction. 2,812,833, 11-12-57, Cl. 189-26.
- Onarheim, Thor, and P. Solheim, to A/S Stord. Expressing apparatus. 2,817,287, 12-24-57, Cl. 100-50.
- Onasch, Paul L.: *See*—
Doyle, James F., and Onasch. 2,790,592.
- Ondeck, Elmer J., to Supreme Products Corp. Reversible drive for power tools. 2,780,944, 2-12-57, Cl. 74-764.
- Ondeck, Elmer J., to Supreme Products Corp. Self-locking ball bearing hand chuck. 2,784,976, 3-12-57, Cl. 279-48.
- Ondeck, Elmer J. Screw driver attachment. 2,809,529, 10-15-57, Cl. 74-202.
- Ondrejka, Albert A., to the United States of America as represented by the Secretary of the Air Force. Multiple wall container and method of construction. 2,800,243, 7-23-57, Cl. 220-15.
- O'Neal, Russell D.: *See*—
Sommers, Henry S., Jr., and O'Neal. 2,802,207.
- O'Neal, George E., to Pan American Petroleum Corp. Apparatus for pumping wells. 2,813,490, 11-19-57, Cl. 103-52.
- O'Neil, Albert T.: *See*—
Hardrath, Frederick A. 2,787,509.
Weinmann, Carl E. 2,797,832.
- O'Neil, Conway F., and E. F. Johnson; said O'Neil to said Johnson. Hand film splicer. 2,810,427, 10-22-57, Cl. 154-42.1.
- O'Neil, Edgar A., and A. F. Jackson, to the United States of America as represented by the Secretary of the Navy. Aircraft barrier. 2,783,957, 3-5-57, Cl. 244-110.
- O'Neil, John G., to Weinon, Inc. Rupturable container. 2,800,267, 7-23-57, Cl. 229-51.
- O'Neil, Joseph R., Jr., and H. W. Buell, to The Carborundum Co. Abrasive cloth and method of manufacturing. 2,805,136, 9-3-57, Cl. 51-298.
- O'Neil, Thomas M., and W. P. Green, Jr., to Masonite Corp. Mold coating composition. 2,798,001, 7-2-57, Cl. 106-38.23.
- O'Neil, William D. Cushion pocket. 2,792,055, 5-14-57, Cl. 155-184.
- O'Neill, George D., to Sylvania Electric Products Inc. Ultra-high-frequency tube. 2,795,735, 6-11-57, Cl. 315-44.
- O'Neill, John J., Jr., T. F. McDonnell, to Olin Mathieson Chemical Corp. Propellant powder and method for producing same. 2,787,533, 4-2-57, Cl. 52-20.
- O'Neill, Philip H. Board game apparatus. 2,794,642, 6-4-57, Cl. 273-134.
- O'Neill, Robert C., and A. J. Basso, to Merck & Co., Inc. Substituted phenyl urea compositions for treating coccidiosis. 2,787,574, 4-2-57, Cl. 167-53.1.
- One-In-Hand The Co.: *See*—
Less, Joseph W. 2,804,627.
- Onksen, George W., and C. W. Miller, to General Motors Corp. Light responsive system. 2,808,539, 10-1-57, Cl. 315-83.
- Ono, Yoshimasa: *See*—
Yokomaki, Norishige. 2,777,711.
- Onodera, Toshiori: *See*—
Munekata, Eiji, Doi, and Onodera. 2,781,254.
- Onondaga Pottery Co.: *See*—
Arelt, Eugene G. 2,793,586.
- Onorata, Sal E.: *See*—
Manning, Harold E. 2,787,845.
- Onsrud Machine Works, Inc.: *See*—
Onsrud, Rudolph F. 2,794,370.
- Onsrud, Rudolph F., to Onsrud Machine Works, Inc. Contour milling machine. 2,794,370, 6-4-57, Cl. 90-13.
- Ontario Research Foundation: *See*—
Cavanagh, Patrick E. 2,790,710.
Marshall, Harry B., and Shaw. 2,794,790.
- Onulak, Eugene W., to The Locke Steel Chain Co. Chain link. 2,793,536, 5-28-57, Cl. 74-250.
- Onyx Oil and Chemical Co.: *See*—
Musser, David M. 2,793,929.
- Oom, Arthur J. and B. J., to American Seating Co. Folding chair with kneeler. 2,785,736, 3-19-57, Cl. 155-166.
- Oom, Benjamin J.: *See*—
Henrikson, Bror W., and Oom. 2,777,505.
Oom, Arthur J. and B. J. 2,785,736.
- Oom, Benjamin J., to American Seating Co. Table top construction and methods. 2,805,907, 9-10-57, Cl. 311-107.
- Oosterhout, Johan C. D., J. L. Meadows, G. H. Miller, and F. L. Barger, to The Texas Co. Additive sweetening of hydrocarbon oils with air, a phenylene-diamine and alcoholic alkali followed by a metal naphthanate. 2,796,384, 6-18-57, Cl. 196-29.
- Oosterkamp, Wijbe J., and J. Fransen, to North American Philips Co., Inc. Device for automatically determining the optimum exposure time in radiography. 2,796,527, 6-18-57, Cl. 250-95.
- Opalenik, John J., and W. H. Bullis, to The Bryant Electric Co. Electric range outlet receptacle. 2,782,388, 2-19-57, Cl. 339-192.
- Opalnik, Stephen, % to R. S. Powers. Bar grinding machine. 2,782,567, 2-26-57, Cl. 51-87.
- Opatowski, Remo A. Process for making magnesium carbonate using hydrated magnesium carbonate as source of magnesium oxide precipitating agent. 2,802,720, 8-13-57, Cl. 23-67.
- Opel, Earl E., to National Automatic Tool Co., Inc. Control means for a multiple operation machine tool. 2,793,546, 5-28-57, Cl. 77-5.
- Operhall, Theodore, to Misco Precision Casting Co., Division of Consolidated Foundries and Mfg. Corp. Process of casting titanium and related metal and alloys. 2,806,271, 9-17-57, Cl. 22-200.
- Opie, Joseph W.: *See*—
Lentz, Thomas H., Opie, and Terry. 2,816,870.
- Opie, Joseph W., to General Mills, Inc. Removal of copper and nickel from fatty acids. 2,795,543, 6-11-57, Cl. 210-41.
- Opie, William R., and K. A. Svanstrom, to National Lead Co. Cathode assembly for electrolytic cells. 2,801,964, 8-6-57, Cl. 204-246.
- Opiekon, John J. Sausage stuffing machines. 2,794,210, 6-4-57, Cl. 17-39.
- Opitz, Eric J., to General Motors Corp. Pressure backup system for press. 2,791,094, 5-7-57, Cl. 60-54.5.
- Opletal, Robert, V. Svaty, and A. Kubelka, to Výzkumný ústav tkařských strojů a technologie tváření. Method and device for producing gauze borders on fabrics. 2,802,488, 8-13-57, Cl. 139-54.
- Oppel, George E.: *See*—
James, Richard D., Oppel, and Dennis. 2,806,293.
- Oppel, John A., to General Electric Co. Circuit breakers dashpot mechanism. 2,804,513, 8-27-57, Cl. 200-34.
- Oppen, Walter R., to Sperry Rand Corp., Ford Instrument Co. Division. Power transfer circuit. 2,817,770, 12-24-57, Cl. 307-51.
- Oppenheim, Jules J.: *See*—
Holtkamp, Norman C., and Oppenheim. 2,804,700.
- Oppenheimer, Frank L., and D. R. Frenk, to Thompson Products, Inc. Apparatus for filtering. 2,804,938, 9-3-57, Cl. 183-70.
- Oppenheimer, Kenneth G. Gauge device for camera equipment. 2,791,950, 5-14-57, Cl. 95-86.
- Oppliger, Walter, to Durand & Huguenin A. G. Process for the manufacture of salts of sulphuric acid esters of leuco vat dyestuffs of the anthraquinone series. 2,803,630, 8-20-57, Cl. 260-276.
- Oprean, Sabin. Frozen confection. 2,801,922, 8-6-57, Cl. 99-137.
- Optical Gaging Products, Inc.: *See*—
Polidor, Edward C., de Boer, and Betts. 2,789,354.
- Optiscase Co., The: *See*—
Nathan, Emanuel. 2,805,766.
- Oquist, George G., to Plastic Golf Products, Inc. Golf club head. 2,809,838, 10-15-57, Cl. 273-174.
- Orange Roller Bearing Co.: *See*—
Gales, Richard J. 2,818,313.
- Oransky, Raymond L.: *See*—
Brinnick, Frederic E., Doggett, and Oransky. 2,778,735.
- Orban, John E.: *See*—
Graham, Herbert J., Orban, Reisiger, and Shaback. 2,779,057.
- Orchard Brothers Inc.: *See*—
Zarnowski, Frank J. 2,812,813.
- Orchard, David W., to The National Key Co. Key duplicating machine. 2,809,566, 10-15-57, Cl. 90-13.05.
- Orchard Industries, Inc.: *See*—
McMullin, Earl L. 2,782,547.
- Ore Transport, Inc.: *See*—
Gray, Robert L., and Henry. 2,804,039.
- Oregon Saw Chain Corp.: *See*—
Erickson, Virgilus R., and Bullwinkle. 2,778,020.
Magnuson, Roy M. 2,790,174.
Smith, Traver J., and Daugherty. 2,787,000.
- Orehoski, Michael A.: *See*—
Eusner, George R., and Orehoski. 2,792,214.
- O'Reilly, Wallace M.: *See*—
Boer, George, O'Reilly, and True. 2,784,790.
Bower, George, O'Reilly, and True. 2,781,854.
Fuson, T. J., and O'Reilly. 2,776,715.
- O'Reilly, Wallace M., to Esso Research and Engineering Co. Blowout preventer. 2,812,822, 11-12-57, Cl. 166-224.
- O'Reilly, Wallace M., to Esso Research and Engineering Co. Blowout preventer for arrangement in wells. 2,813,588, 11-19-57, Cl. 166-199.
- O'Reilly, Wallace M., and M. E. True, to Esso Research and Engineering Co. Core signalling device. 2,791,398, 5-7-57, Cl. 255-1.4.
- Orelind, John R., to International Harvester Co. Tractor attaching structure. 2,776,613, 1-8-57, Cl. 97-46.59.
- Orelind, John R., and M. D. Jennings, to International Harvester Co. Universal 2-point hitch. 2,779,260, 1-29-57, Cl. 97-47.51.

- Orelind, John R., S. D. Pool, R. Barkstrom, and E. K. Karlsson, to International Harvester Co. Hillside harvester thresher. 2,796,717, 6-25-57, Cl. 56—209.
- Oren, Samuel B.: *See*—
Whitehead, Ulysses D., and Oren. 2,809,816.
- Orenda Engines Ltd.: *See*—
Allan, Alexander J., and Booth. 2,812,418.
Dennys, Ronald G. 2,788,674.
McEachern, Alexander B. 2,809,057.
- Orfei, Felix, and P. Settimi. Anti-flood float valve. 2,786,542, 3-26-57, Cl. 182—26.
- Organico, S. A.: *See*—
Wetroff, Georges, D'Ivacheff, and Khaladji. 2,807,633.
- Organon Inc.: *See*—
Arens, Josef F. 2,813,862.
Homan, Jan D. H. 2,779,706.
Homan, Jan D. H., and Lens. 2,787,575.
Homan, Jan D. H., and Neutelings. 2,807,569.
Reichstein, Tadeus. 2,813,107.
- Orgel, Gerald: *See*—
Schwarz, Milton H., and Orgel. 2,780,579.
- O'Rielly, John J. Coin container. 2,808,925, 10-8-57, Cl. 206—82.
- Origins Inc.: *See*—
Hawley, Dean. 2,781,051.
- Orlando, Carl, and P. Rosenblum. Self-lubricating shaver. 2,786,270, 3-26-57, Cl. 30—41.
- Orlin, Max. Implement for checking the position of a disc at the edge of the playing surface in shuffleboard. 2,808,652, 10-8-57, Cl. 33—174.
- Orlins, Martin A., to Rheem Mfg. Co. Method and means of seaming plastic interlined containers. 2,797,843, 7-2-57, Cl. 220—63.
- Orloff, Harold D.: *See*—
Marshall, Robert H., Perilstein, Burt, and Orloff. 2,805,251.
- Ormerod, Harold F., to Anaconda Wire and Cable Co. Electric cables. 2,787,653, 4-2-57, Cl. 174—117.
- Ormig-Organisations-Mittel G. m. b. H.: *See*—
Delplanque, Marcel L. A. 2,787,212.
- Ormond, Alfred N. Synchronizing signal generator. 2,815,456, 12-3-57, Cl. 307—107.
- Ormond Tool and Mfg. Co.: *See*—
Robinson, David. 2,795,829.
- Orms, Francis, to Serugo Rubber Co. Inflatable objects with self-sealing valves. 2,795,425, 6-11-57, Cl. 273—58.
- Ormsby, Robert L. Examination device. 2,788,590, 4-16-57, Cl. 35—48.
- Ornella, Leroy F.: *See*—
Balz, Emil H., Ornella, and Villwock. 2,798,020.
- Ornstein, Fred: *See*—
Fleischer, Paul. 2,778,701.
- Ornstein, Leonard: *See*—
Gettner, Mark E., Ornstein, and Florant. 2,797,616.
- Oronzio de Nora Impianti Elettrochimici: *See*—
Natta, Giulio. 2,818,413.
- Oroshnik, William, to Ortho Pharmaceutical Corp. Synthesis of vitamin A. 2,789,131, 4-16-57, Cl. 260—491.
- Oroshnik, William, to Ortho Pharmaceutical Corp. Ferrous calcium citrate complex. 2,812,344, 11-5-57, Cl. 260—439.
- Oroshnik, William, and R. A. Mallory, to Ortho Pharmaceutical Corp. 2-amino-4-alkyl, aryl, and aralkyl-mercaptoalkyleneaminopyrimidines and 2-amino-4-alkyl, aryl, and aralkyl - 6 - alkyl - mercaptoalkyleneaminopyrimidines. 2,811,525, 10-29-57, Cl. 260—256.5.
- Orr, Edward A. Ironing board and cabinet therefor. 2,814,137, 11-26-57, Cl. 38—104.
- Orr Felt and Blanket Co., The: *See*—
McVetty, Clyde E. 2,778,380.
Purdy, Robert J. 2,804,656.
- Orr, James, and B. Hawrylyshyn, to The James Morrison Brass Mfg. Co. Ltd. Safety valve. 2,799,291, 7-16-57, Cl. 137—478.
- Orr, Leonard, 25% to H. L. Callaway and C. T. Brock, Jr. Dough-forming machine. 2,790,398, 4-30-57, Cl. 107—25.
- Orr, Lyman W., to Burroughs Corp. Filing apparatus. 2,779,652, 1-29-57, Cl. 312—319.
- Orr, Palmer: *See*—
Kelbel, Donald W., and Orr. 2,813,437.
- Orr, Palmer, to Borg-Warner Corp. Lubricating system for transmission. 2,797,771, 7-2-57, Cl. 184—11.
- Orr, Percy L.: *See*—
Randels, Robert B., Orr, and Sheldon. 2,787,101.
- Orr & Sembower, Inc.: *See*—
Garraway, George H. 2,815,069.
- Orrell, Joseph B. Two-flavor filling unit for ice cream cones and the like. 2,784,681, 3-12-57, Cl. 107—1.
- Orsatti, Ernest R., $\frac{1}{2}$ to J. G. Moser, and $\frac{1}{2}$ to L. W. Hoggan. Light-reflecting lens. 2,798,147, 7-2-57, Cl. 240—225.
- Orshansky, Elias, Jr., to The New York Air Brake Co. Fluid pressure mechanism. 2,809,594, 10-15-57, Cl. 103—161.
- Orsini, Anthony, and R. P. Kirkup, to Specialties Development Corp. Pyrotechnic discharge apparatus. 2,786,536, 3-26-57, Cl. 169—6.
- Orsini, Nello J. Combined arm rest, table and drawer for vehicle seats. 2,797,739, 7-2-57, Cl. 155—112.
- Orsini, Val E., and J. A. Thomas, to United States Steel Corp. Rocker cradle for nail boxes. 2,808,081, 10-1-57, Cl. 141—72.
- Orsino, Anthony J., to General Electric Co. High energy gas producer. 2,802,332, 8-13-57, Cl. 60—35.6.
- Ort, Carl: *See*—
Härter, Paul, Ort, Raab, and Umbs. 2,811,080.
- Ortega, Hugh R., $\frac{1}{2}$ to M. Bookstein. Rectifier device. 2,777,100, 1-8-57, Cl. 317—234.
- Ortega, Mario De J., deceased, P. A. Ortega, administratrix of said M. De J. Ortega. Cleaning tool for vacuum cleaners. 2,793,384, 5-28-57, Cl. 15—328.
- Ortega, Mario De J., deceased, P. A. Ortega, administratrix of said M. De J. Ortega. Vacuum cleaner nozzle. 2,793,385, 5-28-57, Cl. 15—367.
- Ortega, Pauline A.: *See*—
Ortega, Mario De J. 2,793,384.
Ortega, Mario De J. 2,793,385.
- Ortegren, Herman A.: *See*—
Squire, John R., and Ortegren. 2,807,916.
- Ortegren, Victor H., and K. P. Dimick, to United States of America as represented by the Secretary of Agriculture. Rectifying still. 2,776,822, 1-8-57, Cl. 261—114.
- Orth, Herman: *See*—
Diels, Albert, and Orth. 2,784,638.
- Orth, George O., Jr., to American Potash & Chemical Corp. Polyvinyl acetate aqueous dispersion containing a borate. 2,809,949, 10-15-57, Cl. 260—29.6.
- Orthner, Ludwig: *See*—
Rieber, Martin, and Orthner. 2,800,508.
- Orthner, Ludwig, and M. Reuter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for rendering fibrous materials water-repellent. 2,801,190, 7-30-57, Cl. 117—135.5.
- Ortho Pharmaceutical Corp.: *See*—
Oroshnik, William. 2,789,131.
Oroshnik, William. 2,812,344.
Oroshnik, William, and Mallory. 2,811,525.
Singher, Heron O., and Lowy. 2,806,815.
- Orthopedic Equipment Co.: *See*—
Faulkner, Carl. 2,804,070.
Teufel, Aloisius. 2,807,260.
- Orthuber, Richard K.: *See*—
Ullery, Lee K., Jr., and Orthuber. 2,818,511.
- Orthwine, Rudolf. Price card holder. 2,779,114, 1-29-57, Cl. 40—11.
- Ortiz, Arthur W.: *See*—
Ortiz, Philip J. and A. W. 2,795,435.
- Ortiz, Ernest J. Hoist drum rotating and locking device. 2,792,187, 5-14-57, Cl. 242—106.
- Ortiz, Philip J. and A. W.: *See*—
Ortiz, Philip J. and A. W. 2,795,435, 6-11-57, Cl. 280—446.
- Ortlepp, Walter, to Maschinenfabrik Turner Aktiengesellschaft. Safety devices for power driven machines. 2,784,823, 3-12-57, Cl. 192—102.
- Ortloff, John E., to Esso Research and Engineering Co. Pellet impact drill bit with controlled pellet return. 2,779,571, 1-29-57, Cl. 255—61.
- Ortloff, John E., to Esso Research and Engineering Co. Plunger arrangement for closing well casing. 2,788,856, 4-16-57, Cl. 166—92.
- Ortman, Curtis D.: *See*—
Schartzwalder, Karl, and Ortman. 2,793,956.
- Ortner, Hansarnd, to Deutsche Gerätebau Gesellschaft mit beschränkter Haftung. Measuring and metering device for measuring fuel with an admixture of oil. 2,796,196, 6-18-57, Cl. 222—48.
- Ortner, Samuel. Dispenser handle. 2,808,734, 10-8-57, Cl. 74—507.
- Ortoli, Claire: *See*—
Poizat, Louis, and Ortoli. 2,811,530.
- Orton, Melvern: *See*—
Schultz, Henry J., and Orton. 2,786,898.
- Ortusi, Antoine J.: *See*—
Gutton, Henri, and Ortusi. 2,783,467.
- Ortusi, Jean and A. Robert, to Compagnie Generale de Telegraphie San Fil. Directional radio systems. 2,789,285, 4-16-57, Cl. 343—107.
- Ortynsky, Roman L., S. Q. Kline, and A. G. Williams, to the United States of America as represented by the Secretary of the Army. Cluster bomb. 2,809,583, 10-15-57, Cl. 102—72.
- Ortwig, Thomas B., to James R. Kearney Corp. Electrical switches. Re. 24,266, 1-15-57, Cl. 200—48.
- Ortwig, Thomas B., to James R. Kearney Corp. Electrical switches. 2,791,651, 5-7-57, Cl. 200—48.
- Orvis, Arthur H. Toy outboard motor. 2,814,906, 12-3-57, Cl. 46—39.
- O'Russa, Lorence. Bowl supported mixer. 2,804,288, 8-27-57, Cl. 259—104.
- Orwoll, Edward F.: *See*—
Les Veaux, John F., and Orwoll. 2,777,795.
- Orwin, Olaf J. B., to Fisher & Ludlow Ltd. Flexible chain conveyor. 2,789,685, 4-23-57, Cl. 198—177.
- Orzech, Stanley, and M. Weisslitz. Garment hanger with clothes clamp. 2,805,805, 9-10-57, Cl. 223—91.
- Osaka Kinzoku Kogyo Co.: *See*—
Shiraishi, Yushiro. 2,800,412.
- Osaka, Rikijiro. Combined salt and pepper shaker-condiment holder. 2,812,882, 11-12-57, Cl. 222—142.2.
- Osann, Edward W., Jr.: *See*—
Blair, Frank P. 2,814,526.
- Osann, Frederick, Jr., to Chrysler Corp. Automatic choke mechanism. 2,799,455, 7-16-57, Cl. 236—101.

- Osawa, Itaru, to Kinoshita & Co., Ltd. Self-winding clock. 2,797,545, 7-2-57, Cl. 58-41.
- Osberg, Wilfred E., Jr., to Hercules Powder Co. Beater sizing of paper with ketene dimers. 2,785,067, 3-12-57, Cl. 92-21.
- Osborn, Hans, to Metalectro Corp. Production of hydrazine. 2,785,052, 3-12-57, Cl. 23-190.
- Osborn, Alfred W.: See—
Graphia, Anthony J., III, and Osborn. 2,808,965.
- Osborn, Charles B., III. High lift, slide delivery, dump trailer. 2,812,210, 11-5-57, Cl. 298-18.
- Osborn, Charles W., and R. C. Allred, to Phillips Petroleum Co. Method of destroying bacteria employing mercuric-chloride complexes of pyridine. 2,809,146, 10-8-57, Cl. 167-33.
- Osborn, Elbert F., to the United States of America as represented by the Secretary of War. Nitrided gun barrel with chromium deposit. 2,799,959, 7-23-57, Cl. 42-76.
- Osborn, Elemeul. Lawn mower sharpener. 2,786,370, 3-26-57, Cl. 76-82.1.
- Osborn, Harry B., Jr. Receptacle for molten metal. 2,779,073, 1-29-57, Cl. 22-79.
- Osborn, Howard: See—
Rowlands, Tom, and Osborn. 2,808,261.
- Osborn, Howard, and T. Rowlands, to Molins Machine Co. Ltd. Sheet detectors for printing, cutting, creasing and like machines. 2,809,832, 10-15-57, Cl. 271-57.
- Osborn, Kenneth B., to General Latex & Chemical Corp. Cushions and method of making same. 2,775,998, 1-1-57, Cl. 155-179.
- Osborn Mfg. Co. Ltd., The: See—
Cox, Patrick C. 2,797,294.
- Osborn Mfg. Co., The: See—
Benyak, John B. 2,797,425.
Ellms, Robert W. 2,775,800.
Miller, Leon F. 2,783,509.
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Nelson, Brooks E. 2,789,303.
Peterson, Ruben O. 2,789,298.
Peterson, Ruben O. 2,800,677.
Peterson, Ruben O. 2,816,403.
Schofield, Arthur T. 2,789,302.
- Osborn, Max R. Welding torch. 2,783,360, 2-26-57, Cl. 219-75.
- Osborn, Oliver: See—
Dudley, William G., Hart, and Osborn. 2,809,928.
Robinson, Harold A., Newport, and Osborn. 2,805,198.
- Osborn, Ralph C. Vacuum cleaner with accessory support. 2,779,047, 1-29-57, Cl. 15-323.
- Osborn, Samuel, & Co. Ltd.: See—
Malone, Cyril A., France, and Whitfield. 2,782,662.
- Osborn, William M. Hydraulically-operated device having axial fluid injection means. 2,799,371, 7-16-57, Cl. 192-098.
- Osborn, William M. Hydraulically operated transmission, etc. 2,817,320, 12-24-57, Cl. 121-93.
- Osborne, Alec V., to The Pfaudler Co. Corrosion resistant tank. 2,801,024, 7-30-57, Cl. 220-63.
- Osborne, Alec V., to The Pfaudler Co. Container supporting means. 2,808,176, 10-1-57, Cl. 220-97.
- Osborne, Alec V., and O. J. Britton, to The Pfaudler Co. Sectional glass lined container. 2,806,629, 9-17-57, Cl. 220-64.
- Osborne, Alec V., and D. F. McPherson, to The Pfaudler Co. Jacketed conical dryer. 2,808,657, 10-8-57, Cl. 34-92.
- Osborne, Alec V., and C. W. Webster, to The Pfaudler Co. Separable glass coated agitators. 2,811,339, 10-29-57, Cl. 259-134.
- Osborne, Fred: See—
Kinney, Selwyn P., and Osborne. 2,809,028.
- Osborne, John A.: See—
Schultz, Elizabeth, and Osborne. 2,793,530.
- Osborne, Lyle E., to Bendix Aviation Corp. Power boost master cylinder. 2,799,140, 7-16-57, Cl. 60-546.
- Osborne, Lyle E., to Bendix Aviation Corp. Positive displacement variable volume delivery pump and associated control system. 2,806,430, 9-17-57, Cl. 103-37.
- Osborne, Roy T.: See—
Haines, George S., Heindel, and Osborne. 2,812,245.
- Osburn, Henry G. Float valve. 2,804,281, 8-27-57, Cl. 255-28.
- Oscard, Martin L. Collar stiffener. 2,799,024, 7-16-57, Cl. 2-132.
- Osceola Foods, Inc.: See—
Conway, Lowell F. 2,787,832.
- Oschwald, Arthur, Jr.: See—
Kidwell, Cleo H., and Oschwald. 2,792,114.
- Oseroff, Frank, to D. Trapow & Co. Ltd. Printing machines. 2,799,220, 7-16-57, Cl. 101-37.
- Osen, Ralph T.: See—
Flagg, Raymond P., Nickells, and Osen. 2,795,637.
- Osenberg, Werner, to Bisterfeld & Stoltzing. Grinding tools for working materials of great strength and hardness. 2,812,626, 11-12-57, Cl. 51-209.
- Osgood, Rollin D., to the United States Steel Corp. Sheet inspection apparatus. 2,790,533, 4-30-57, Cl. 198-33.
- Osgoodby, Reginald D. Hat rest. 2,803,350, 8-20-57, Cl. 211-33.
- Oshatz, Jack: See—
Bruner, Ernest M., Smith, and Oshatz. 2,795,918.
- O'Shaughnessy, Bernard T., Jr., to The Preferred Engineering and Research Corp. Expanding fastener for use with materials of varying thickness. 2,805,597, 9-10-57, Cl. 85-24.
- O'Shel, William E. Differential fluid pressure motors. 2,776,574, 1-8-57, Cl. 74-97.
- O'Shel, William E. Suction motors. 2,798,463, 7-9-57, Cl. 121-164.
- O'Shel, William E. Oscillating pistons for fluid pressure motors. 2,808,300, 10-1-57, Cl. 309-22.
- Osher, Benjamin B., to American Kleer-Vu Plastics, Inc. Clip device. 2,797,461, 7-2-57, Cl. 24-153.
- Oshinsky, William: See—
Breckenridge, Robert G., and Oshinsky. 2,793,275.
- Oshry, Howard I., to Erie Resistor Corp. Barium titanate ceramic dielectrics. 2,803,553, 8-20-57, Cl. 106-39.
- Oshry, Howard I., and R. C. Esser, to Erie Resistor Corp. Beveling of cylinders. 2,806,334, 9-17-57, Cl. 51-281.
- Osiel, Thaddeus A.: See—
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- Osiel, Thaddeus A., and C. E. Vogele, Jr., to Westinghouse Electric Corp. Ridged waveguide matching device. 2,788,497, 4-9-57, Cl. 333-83.
- Oslund, Frederick. Automobile rack. 2,805,014, 9-3-57, Cl. 224-42.1.
- Osmun, Dean W. Junk trap. 2,799,351, 7-16-57, Cl. 166-243.
- Osmun, Dean W. Jarring tools. 2,818,232, 12-31-57, Cl. 255-27.
- Osner, Clarence W., and J. H. Spence, to Pullman-Standard Car Mfg. Co. Cushioning lock for sliding door. 2,811,380, 10-29-57, Cl. 292-101.
- Osoba, Joseph S.: See—
Graham, John W., McCardell, Osoba, and Richardson. 2,792,894.
- Osplack, Joseph J., to Vinco Corp. Diamond studded abrasive wheel dressing tool. 2,776,529, 1-8-57, Cl. 51-278.
- Ost, Stanley B.: See—
McWhirter, Eric M. S., and Ost. 2,785,388.
McWhirter, Eric M. S., and Ost. 2,787,190.
- Ostby, Burton K. Automatic switch. 2,794,088, 5-28-57, Cl. 200-83.
- Osteen, Belmont D., to Birmingham Paper Co. Folding carton with self-locking cover. 2,777,629, 1-15-57, Cl. 229-36.
- Osteen, Belmont D., to Birmingham Paper Co. Collapsible carton. 2,788,168, 4-9-57, Cl. 229-34.
- Ostendorf, Bernard, Jr., to Bell Telephone Laboratories, Inc. Electronic regenerative repeater. 2,785,225, 3-12-57, Cl. 178-70.
- Ostendorf, Bernard, Jr., and W. T. Rea, to Bell Telephone Laboratories, Inc. Impulse signal distortion circuit. 2,813,151, 11-12-57, Cl. 178-69.
- Oster, John, Mfg. Co.: See—
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Hahn, Paul T. 2,817,503.
- Oster, Joseph, and I. Rosenblatt, to Globe Lighting Products, Inc. Lighting fixtures. 2,787,702, 4-2-57, Cl. 240-78.
- Oster Mfg. Co., The: See—
Chasar, Anthony R. 2,788,216.
Chasar, Anthony R. 2,804,174.
Chasar, Anthony R. 2,811,366.
- Oster, Robert H., and T. A. Zsombok, to United States Steel Corp. Cam bar for axle lathes. 2,792,736, 5-21-57, Cl. 82-14.
- Oster, Thomas H.: See—
Kirby, Thomas G., and Oster. 2,782,329.
- Osterberg, Carl T. Collapsible carton. 2,805,811, 9-10-57, Cl. 229-36.
- Osterberg, Harold, to American Optical Co. Reflection reduction coatings and method for coating same. 2,782,676, 2-26-57, Cl. 88-1.
- Osterhus, Ervin J., A. W. Richards, and N. W. Taylor, to Joy Mfg. Co. Hydraulically operated cycling device for a mining machine. 2,776,824, 1-8-57, Cl. 262-29.
- Osterhus, Ervin J., and W. C. Albertson, Jr., to Westinghouse Electric Corp. Multiple speed transmission. 2,807,963, 10-1-57, Cl. 74-217.
- Ostermann, Hans J., A. G. K. Wilkens, and C. B. Bryan, to Manning, Maxwell & Moore, Inc. Electronic displacement measuring means. Re. 2,426,7, 1-22-57, Cl. 340-187.
- Osthaus, Manfred. Rotary tilling implement. 2,816,499, 12-17-57, Cl. 97-216.
- Osthoff, Robert C.: See—
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- Ostline, John E., to General Telephone Laboratories, Inc. Tape perforating machines for toll ticketing telephone systems. 2,794,070, 5-28-57, Cl. 179-7.1.
- Ostoich, Anthony S.: See—
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- Ostrander, Benjamin F. X-ray film holder and indicator. 2,787,237, 4-2-57, Cl. 116-114.
- Ostrander, Charles W., and N. R. Congiundi, to C. W. Ostrander. Composition and method for producing corrosion resistant protective coating on aluminum and aluminum alloys. 2,796,370, 6-18-57, Cl. 148-6.2.
- Ostrander, Charles W., N. R. Congiundi, and W. E. Pocock, to Allied Research Products, Inc. Corrosion resistant protective coating on aluminum and aluminum alloys. 2,796,371, 6-18-57, Cl. 148-6.2.
- Ostrander, John K. Time control system and apparatus. 2,817,401, 12-24-57, Cl. 161-1.

- Ostrander, Robert K. Doll with mechanism for movable lips. 2,778,155, 1-22-57, Cl. 46—141.
- Ostrander, Robert K. Weeping doll. 2,811,810, 11-5-57, Cl. 46—135.
- Ostrosfsky, Bernard, and J. W. Ballard, to The Commonwealth Engineering Co. of Ohio. Method and apparatus for the production of electrically resistant films. 2,790,731, 4-30-57, Cl. 117—107.
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- Ostrosfsky, Bernard, and J. W. Ballard, to The Commonwealth Engineering Co. of Ohio. Film resistors. 2,815,302, 12-3-57, Cl. 117—229.
- Ostrom, Ernest A. Ice making machine. 2,813,403, 11-19-57, Cl. 62—107.
- Ostrom, Gustaf A.: *See—*
- De Long, William T., and Ostrom. 2,789,048.
- De Long, William T., and Ostrom. 2,789,049.
- Ostrov, George, to Camcopy, Inc. Foldable portable micro-filming unit. 2,813,456, 11-19-57, Cl. 88—24.
- Ostrow, Barnet D.: *See—*
- Nobel, Fred L., and Ostrow. 2,783,194.
- Ostrow, Barnet D., to Elechem Corp. Bath for electroplating silver. 2,777,810, 1-15-57, Cl. 204—46.
- Ostrow, Barnet D. Alkylpolyamine-modified cyanide copper plating bath. 2,813,066, 11-12-57, Cl. 204—52.
- Ostrow, Barnet D., and F. I. Nobel. Anode for copper plating. 2,809,929, 10-15-57, Cl. 204—52.
- Ostrow, Barnet D., and F. I. Nobel. Process for plating bright brass. 2,817,627, 12-24-57, Cl. 204—44.
- Ostrow, Milan R., to Standard Button Machine Co., Inc. Machine for sawing button cores. 2,781,676, 2-19-57, Cl. 79—16.
- Ostwald, Fritz, and U. Baumgarten, to Alfred Teves Maschinen- und Armaturenfabrik K. G. Brake system for trains of vehicles. 2,818,138, 12-31-57, Cl. 188—3.
- Ostwaldt, Erich, to Adrema Maschinenbau, G. m. b. H. Plate blanks made of a material to be stamped. 2,794,393, 6-4-57, Cl. 101—369.
- Osuch, Carl: *See—*
- Quinn, John F., and Osuch. 2,812,238.
- Oswald, Jacques, to Compagnie Industrielle des Telephones. Signalling systems for pulse telecommunication system. 2,794,072, 5-28-57, Cl. 179—15.
- Oswald, Jacques, to Compagnie Industrielle des Telephones. Ladder-type band-pass filters. 2,814,021, 11-19-57, Cl. 333—72.
- Oswald, Jacques R. V., to Compagnie Industrielle des Telephones. Method and device for modulation and demodulation for pulse-type telecommunication system. 2,785,227, 3-12-57, Cl. 179—15.
- Oswalt, Burlin W. Hydraulic brake adjuster. 2,815,830, 12-10-57, Cl. 188—152.
- Oswalt, George L. Pallet feeder. 2,795,311, 6-11-57, Cl. 198—19.
- Oswalt, Harry L. Ensilage loader. 2,779,452, 1-29-57, Cl. 198—9.
- Oswego Falls Corp.: *See—*
- Palmer, Robert E. 2,805,753.
- Wilcox, Isaac L. 2,784,901.
- Wilcox, Isaac L., and Pesch. 2,781,946.
- Osweller, Paul L., to Price Brothers Co. Work support for welders. 2,786,127, 3-19-57, Cl. 219—56.
- Otani, Herbert: *See—*
- Lambe, Wendell B., Smith, and Otani. 2,807,521.
- Otani, Shozaburo. Window platform and support. 2,814,534, 11-26-57, Cl. 304—24.
- Otger, Meinert: *See—*
- Netelenbos, Willem J., Otger, and Robbenhaar. 2,781,627.
- Otis Elevator Co.: *See—*
- Lichtgarn, James. 2,785,286.
- Margles, Samuel G. 2,813,613.
- Otis Engineering Corp.: *See—*
- Bryan, Thomas E. 2,815,764.
- Fredd, John V. 2,798,559.
- Schramm, Harry B. 2,814,348.
- Otis, Herbert C., to Continental Assurance Co. Well packer. 2,784,789, 3-12-57, Cl. 166—125.
- Otis, Paul R. Wheeled toy. 2,782,556, 2-26-57, Cl. 46—104.
- Otis Pressure Control, Inc.: *See—*
- Fredd, John V. 2,777,746.
- Schramm, Harry B. 2,789,357.
- Otrhalek, Joseph V.: *See—*
- Bacon, Leslie R., Otrhalek, and Sotier. 2,802,757.
- Ots, Ivan, to Ateliers de Constructions Electriques de Charleroi. Apparatus for testing workpieces with ultrasonic waves. 2,795,133, 6-11-57, Cl. 73—67.7.
- Ott, Arnold C.: *See—*
- Campbell, Allan, Shepherd, Ott, and Johnson. 2,816,119.
- Donia, Robert A., and Ott. 2,798,879.
- Murray, Maxton F., Ott, and Pederson. 2,806,039.
- Pederson, Raymond L., Holysy, and Ott. 2,782,192.
- Ott, Carl. Storage battery safety cutoff switch. 2,803,725, 8-20-57, Cl. 200—161.
- Ott, George E., to General Electric Co. Fluorescent lamp wrapping machine. 2,795,093, 6-11-57, Cl. 53—215.
- Ott, Heinrich: *See—*
- Ehrhart, Gustav, and Ott. 2,799,675.
- Ehrhart, Gustav, and Ott. 2,816,895.
- Ott, Howard F., and E. C. Poling, to Eastman Kodak Co. Method of forming an optical assembly. 2,780,574, 2-5-57, Cl. 154—128.
- Ott, John B., to Monsanto Chemical Co. Polyester-amide copolymers. 2,806,822, 9-17-57, Cl. 260—2.5.
- Ott, Kenneth W. Hot metal charging apparatus for open hearth furnaces. 2,807,456, 9-24-57, Cl. 266—34.
- Ott, Melvin L.: *See—*
- Cochran, Walter M., and Ott. 2,783,151.
- Ott, Vivian L., to Utility-Tools, Inc. Lawn edger. 2,782,587, 2-26-57, Cl. 56—249.
- Ottaway, Charles E., to Collins Radio Co. Universal joint coupler. 2,802,350, 8-13-57, Cl. 64—15.
- Ottercraft Products, Inc.: *See—*
- Sturgis, Bernard L. 2,805,537.
- Otte, Henry: *See—*
- Durham, James D., Otte, and Neal. 2,779,115.
- Otten, Gerardus: *See—*
- Van der Willigen, Paul C., Feldberg, and Otten. 2,809,280.
- Otten, Philip S.: *See—*
- Boni, Frank, Jr., Otten, and Wilson. 2,814,415.
- Otten, Philip S., to The Griscom-Russell Co. Heat exchanger. 2,804,284, 8-27-57, Cl. 257—241.
- Otter, Roy, to Oil Center Tool Co. Valves. 2,797,062, 6-25-57, Cl. 251—168.
- Otterpohl, Edward H., and L. Wohlers. Bale buncher and windrower. 2,815,637, 12-10-57, Cl. 56—473.5.
- Ottinger, Oscar H., and R. R. Feezell, to the United States of America as represented by the United States Atomic Energy Commission. Thermionic ionization vacuum gauge. 2,790,949, 4-30-57, Cl. 324—33.
- Ottmann, Gerhard: *See—*
- Grundmann, Christoph J., and Ottmann. 2,783,235.
- Grundmann, Christoph J., and Ottmann. 2,783,236.
- Otto, Carl. Means protecting buckstays against overheating. 2,778,783, 1-22-57, Cl. 202—239.
- Otto, Carl. Self-sealing coke oven doors. 2,778,784, 1-22-57, Cl. 202—248.
- Otto, Carl. Self-sealing doors. 2,778,785, 1-22-57, Cl. 202—248.
- Otto, Carl. Apparatus for producing ammonium sulphate crystals. 2,795,487, 6-11-57, Cl. 23—273.
- Otto, Carl L., and G. A. Worn, Jr., to Schick Inc. Electric shaver and protective housing therefor. 2,811,774, 11-5-57, Cl. 30—41.
- Otto, Charles W.: *See—*
- Davies, James E., and Otto. 2,783,340.
- Otto, Eugene J., to Allis-Chalmers Mfg. Co. Means for moving a sleeve into and out of power transmitting engagement with a bushing. 2,811,376, 10-29-57, Cl. 287—52.09.
- Otto, Ferdinand P.: *See—*
- Brooks, John W., and Otto. 2,783,205.
- Otto, Ferdinand P., to Socony Mobil Oil Co., Inc. Complex metal salts of phosphoric acid esters and mineral oil compositions containing the same. 2,790,766, 4-30-57, Cl. 252—32.5.
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- Otto, George, to American Chemical Paint Co. Method of and materials for coating stainless steel and article produced thereby. 2,813,816, 11-19-57, Cl. 148—6.24.
- Otto, Julian A.: *See—*
- Gilbert, Everett E., and Otto. 2,789,124.
- Gilbert, Everett E., Otto, and Pellerano. 2,782,112.
- Gilbert, Everett E., Otto, and Pellerano. 2,801,911.
- Otto, Willard G., to Western Electric Co., Inc. Article receiving apparatus. 2,796,976, 6-25-57, Cl. 198—210.
- Oudin, Jean, and G. Comte, to Compagnie Generale d'Electricite. Device for the measurement of the irregularities of electrical lines. 2,800,627, 7-23-57, Cl. 324—52.
- Ouellette, Joseph H.: *See—*
- Corr, John E., and Ouellette. 2,777,666.
- Oughton, John F.: *See—*
- Walker, Thomas, and Oughton. 2,814,630.
- Outboard Marine Corp.: *See—*
- Rayniak, Joseph G. 2,791,207.
- Shaw, Gerald J. 2,791,080.
- Outtererson, Charles R., and J. W. Eldridge, to The Albarmer Paper Mfg. Co. Process for refining tall oil. 2,791,577, 5-7-57, Cl. 260—97.7.
- Oven, Gerald E., to Rinsed-Mason Co. Composition for preparing metal surfaces. 2,793,961, 5-28-57, Cl. 106—296.
- Over, Donald P., and W. H. Barkow, to Radio Corp. of America. Cathode ray tube deflection apparatus. 2,817,782, 12-24-57, Cl. 313—76.
- Overbaugh, Charles B. Golf tee blank. 2,809,839, 10-15-57, Cl. 273—210.
- Overbeck, Wilcox P.: *See—*
- Wilson, Nolney C., Overbeck, Slotin, and Froman. 2,816,860.
- Overberger, Charles G., to L. A. Dreyfus Co. P-alkyl styrenes and their polymers. 2,802,812, 8-13-57, Cl. 260—93.5.
- Överby, Sune L., to Telefonaktiebolaget L M Ericsson. Purification process for removing soluble impurities from fusible solid substances. 2,801,192, 7-30-57, Cl. 148—1.
- Overend, Wallace I.: *See—*
- Smith, Earl K. 2,790,490.

- Overhead Door Corp. : See—**
 Moler, Charles C. 2,816,785.
 Schacht, Clifford A., Jr. 2,805,488.
 Stroup, Earl L. 2,793,690.
- Overlach, Hans, and H. Petrovicki. Gripping truck.**
 2,801,011, 7-30-57, Cl. 214—16.1.
- Overly Mfg. Co. : See—**
 Goodwin, John H. 2,787,156.
- Overman, Harold L. : See—**
 Silvey, John O., and Overman. 2,775,896.
- Overstreet, Leslie W. Gripping mechanism for use in expanding mandrels and contracting collets.** 2,818,264, 12-31-57, Cl. 279—2.
- Overton, George : See—**
 Franklin, Elbert W., and Overton. 2,788,641.
- Overton, Harry A. One man boat trailer loader.** 2,799,408, 7-16-57, Cl. 214—84.
- Overton, William C., Jr., to Socony Mobil Oil Co., Inc. Shear modulus acoustic well logging.** 2,784,796, 3-12-57, Cl. 181—5.
- Ovshinsky, Stanford R., to Hupp Corp. Automatic transmission.** 2,807,964, 10-1-57, Cl. 74—348.
- Owen, Arthur E. J. Combined printing and accounting device.** 2,810,343, 10-22-57, Cl. 101—369.
- Owen, Charley H. : See—**
 Barr, William E., and Owen. 2,799,628.
 Hettick, George R., and Owen. 2,798,030.
- Owen, Frank M., and C. W. Pewthers, to Owen-Pewthers Mfg. Co., Inc. Trencher.** 2,817,911, 12-31-57, Cl. 37—90.
- Owen, George E., Jr., and R. J. Harasek, to Motorola, Inc. Tone control for radio-phonograph combination.** 2,813,155, 11-12-57, Cl. 179—100.11.
- Owen, George W., to Zippo Mfg. Co. Pyrophoric lighter.** 2,803,123, 8-20-57, Cl. 67—7.1.
- Owen, Harold A. : See—**
 Spanell, Lois A., Owen, and Barth. 2,797,415.
- Owen, Herbert E., to Esso Research and Engineering Co. Photographic recording of transient signals.** 2,783,118, 2-26-57, Cl. 346—109.
- Owen, John C. Adjustable rotating rectifiers.** 2,796,579, 6-18-57, Cl. 321—50.
- Owen, John C., and A. Bennett, to Bendix Aviation Corp. Electronic integrator.** 2,777,946, 1-15-57, Cl. 250—27.
- Owen, John T., to Merck & Co., Inc. Use of hydrazine tartrate salts in the chemical deposition of metals.** 2,801,935, 8-6-57, Cl. 117—35.
- Owen, John W., ½ to F. S. Royster Guano Co. Control apparatus for high speed bag filling machine.** 2,794,613, 6-4-57, Cl. 249—56.
- Owen, Leonard V., to International Harvester Co. Display binder.** 2,783,061, 2-26-57, Cl. 281—33.
- Owen, Mark B. : See—**
 Pursell, Harold R., and Owen. 2,818,305.
- Owen, Mark B., to Nichols Engineering & Research Corp. Sludge drying furnace with gas deodorizing chamber.** 2,788,754, 4-16-57, Cl. 110—8.
- Owen-Pewthers Mfg. Co., Inc. : See—**
 Owen, Frank M., and Pewthers. 2,817,911.
- Owen, Richard E. : See—**
 Smith, Garner, and Owen. 2,807,293.
- Owen, Thomas G. : See—**
 Evans, Richard E., and Owen. 2,802,187.
- Owen, Webster J., to General Motors Corp. Vehicle refrigerating apparatus.** 2,807,153, 9-24-57, Cl. 62—117.1.
- Owenby, Frank C. : See—**
 Johnson, Paul E., Jr., and Owenby. 2,805,424.
- Owens Brush Co. : See—**
 Birse, John W. 2,814,818.
- Owens-Corning Fiberglas Corp. : See—**
 Biefeld, Lawrence P., and Duffee. 2,780,909.
 Biefeld, Lawrence P., and Philipps. 2,799,598.
 Biefeld, Lawrence P., and Shannon. 2,804,438.
 Bridges, Donald A., Curran, and Kuenn. 2,783,837.
 Collier, Theodore J. 2,801,189.
 Drummond, Warren W. 2,795,926.
 Duffee, Homer W., and Armstrong. 2,782,178.
 Fulk, Walter F. 2,780,889.
 Kuenn, William W., and Jones. 2,796,931.
 Morrison, Albert R. 2,775,860.
 Morrison, Albert R. 2,778,764.
 Mosier, William H. 2,789,406.
 Russell, Robert G. 2,780,890.
 Russell, Robert G. 2,782,563.
 Russell, Robert G. 2,794,058.
 Russell, Robert G., and Brautigam. 2,786,637.
 Shannon, Richard F., and Mitchell. 2,793,130.
 Siefert, August C., and Cunningham. 2,777,254.
 Slayter, Games. 2,781,274.
 Slayter, Games, and Drummond. 2,797,728.
 Slayter, Games, and Fletcher. 2,810,157.
 Slayter, Games, Snow, and Philipps. 2,785,728.
 Slayter, Games, and Taylor. 2,802,764.
 Sonneborn, Ralph H., and Philipps. 2,790,741.
 Stalego, Charles J. 2,775,850.
 Stalego, Charles J. 2,783,590.
 Stalego, Charles J. 2,790,019.
 Stalego, Charles J. 2,806,522.
 Welsh, Paul L. 2,801,673.
- Owens, Harry S., and A. E. Goodban, to the United States of America as represented by the Secretary of Agriculture. Isolation of arabian from sugar beet pulp.** 2,803,567, 8-20-57, Cl. 127—34.
- Owens-Illinois Glass Co. : See—**
 Abbott, Raymond B., Jr. 2,813,045.
 Anastor, Charles G. 2,815,755.
 Barnby, Herbert A. 2,786,494.
 Beddoes, John H., and Suchocki. 2,776,526.
 Blatt, David H. 2,801,784.
 Boyd, Robert A. 2,812,690.
 Boyd, Robert A. 2,812,691.
 Boyd, Robert A. 2,812,692.
 Chew, Clarence. 2,801,726.
 Deeren, Thomas J. 2,790,588.
 Deeren, Thomas J., and Young. 2,812,878.
 Drennan, James G. 2,800,226.
 Drennan, James G. 2,806,621.
 Ginsberg, Harry. 2,812,892.
 Hamilton, Joseph C. 2,807,121.
 Hamilton, Joseph C. 2,817,191.
 Heer, William G. N. and Steierman. 2,793,472.
 Heer, William G. N., and Waterbury. 2,809,889.
 Hinson, Arthur L., and Smith. 2,788,002.
 Hodgdon, Frank B., and Vincent. 2,811,576.
 Hohl, John. 2,785,750.
 Hohl, John. 2,813,331.
 Hohl, John. 2,813,582.
 Hohl, John, and Pellett. 2,783,597.
 Keefer, George E. 2,786,442.
 Kirjjan, Walter E. 2,812,740.
 Mencher, Pearson T. 2,816,708.
 Mencher, Pearson T., and Strzala. 2,809,245.
 Meyer, Robert W., and Swanson. 2,793,746.
 Mumford, Eustace H. 2,810,236.
 Nowak, Edward A. 2,804,963.
 Pellett, Fred G. 2,789,740.
 Pither, Leslie F. 2,786,307.
 Powell, Homer E. 2,816,474.
 Richie, Carlton A. 2,803,608.
 Saunders, Philip G. 2,810,507.
 Schmid, William, and Poole. 2,808,620.
 Scovronek, Joseph. 2,788,304.
 Sherman, Orville B. 2,783,503.
 Sherman, Orville B. 2,804,654.
 Sherman, Orville B. 2,805,787.
 Shorten, Frederick J., and Zimmerman. 2,793,480.
 Smith, Winfield F. 2,808,954.
 Soubier, Leonard D., and Shuman. 2,787,345.
 Suchocki, John J. 2,776,641.
 Thomson, John W., Jr. 2,784,832.
 Vincent, Harvard B., and Logue. 2,785,820.
 Wheaton, Jack M. 2,789,719.
- Owens, James B., to I-T-E Circuit Breaker Co. Conducting linkage for a tilting insulator switch.** 2,817,726, 12-24-57, Cl. 200—48.
- Owens, James B., and R. J. Idzkowski, deceased (by G. M. Idzkowski, executrix), to Westinghouse Electric Corp. Circuit interrupter.** 2,788,418, 4-9-57, Cl. 200—148.
- Owens, James B., and H. J. Crabbs, to Westinghouse Electric Corp. Electrical switch.** 2,809,244, 10-8-57, Cl. 200—50.
- Owens, Jesse C. Quiet anti-siphonic float actuated valve.** 2,779,350, 1-29-57, Cl. 137—218.
- Owens, Robert S. Apparatus for making coated fiber glass strands.** 2,800,761, 7-30-57, Cl. 57—35.
- Owens, Roy A. Safety block.** 2,780,318, 2-5-57, Cl. 188—65.1.
- Owens, Thomas M. Adjustable slice for papermaking machinery.** 2,779,253, 1-29-57, Cl. 92—44.
- Owings, James L. : See—**
 Kaufmann, Karl G., and Owings. 2,789,445.
- Owren, Harvey M. : See—**
 Heller, Robert E., Owren, and Mack. 2,799,836.
- Owren, Harvey M., V. L. Smith, and D. R. Branum, to the United States of America as represented by the United States Atomic Energy Commission. Coaxial tube coupling.** 2,776,368, 1-1-57, Cl. 250—16.
- Oxaal, Arne : See—**
 Blashfield, William H., Blackhall, Oxaal, and Bergman. 2,782,257.
- Oxaal, Arne, to North Electric Co. Automatic telephone system.** 2,807,669, 9-24-57, Cl. 179—18.
- Oxenreiter, Maurice F. : See—**
 Hengstebeck, Robert J., and Oxenreiter. 2,776,248.
- Oxford, Carl J., Jr., to National Twist Drill & Tool Co. Self-thinned heavy-duty twist drill structure.** 2,778,252, 1-22-57, Cl. 77—70.
- Oxford Filing Supply Co., Inc. : See—**
 Jonas, Frank D. 2,800,907.
- Oxi Corp. : See—**
 Walters, George F., and Steele. 2,780,394.
- Oxnam, George J., to Alan Muntz & Co. Ltd. Non-return valves.** 2,781,777, 2-19-57, Cl. 137—525.5.
- Oxner, Edwin S. : See—**
 Marasco, Francis A., and Oxner. 2,803,817.
- Oxy-Catalyst, Inc. : See—**
 Bowen, William M., III. 2,795,054.
 Bratton, Alfred I. 2,801,906.
 Bratton, Alfred I. 2,807,930.
 Houdry, Eugene J. 2,776,875.
 Houdry, Eugene J. 2,811,425.
 Reitzel, Nicolas M., and Karol. 2,795,488.

- Oyama, Yoshiaki. Sugar cane harvester. 2,809,487, 10-15-57, Cl. 56-15.
- Oyer, Georges. Rams for pile-drivers and the like. 2,792,816, 5-21-57, Cl. 123-7.
- Oyler, Otto I. Articulated wheel suspension for a vehicle. 2,793,873, 5-28-57, Cl. 280-104.5.
- Oys, John E.: *See—*
- Hudson, Robert C., Oys, and Pinke. 2,792,170.
- Ozal-Durrani. Preparing ready-to-eat cereal foods. 2,801,176, 7-30-57, Cl. 99-80.
- Ozark Fisheries, Inc.: *See—*
- Washburn, George N. 2,783,736.
- Ozarow, Vernon, to General Electric Co. Fabrication method for p-n junctions. 2,791,524, 5-7-57, Cl. 148-1.5.
- Özbilgic, Mustafa. Adjustable step block. 2,807,881 10-1-57, Cl. 33-162.
- Ozga, Franciszek, to Intercompany Corp. Procedure and apparatus for registering photographic sheets and the like. 2,793,442, 5-28-57, Cl. 33-184.5.
- P. B. R. Mfg. Co.: *See—*
- Rachman, Isadore B., and Bobb. 2,803,033.
- P. & G. Mfg. Co.: *See—*
- Campbell, Dewey H. 2,780,871.
- PGAC Development Co.: *See—*
- Scherbatskoy, Serge A. 2,816,235.
- P & M Enterprises, Inc.: *See—*
- McManus, Bernard T. 2,786,682.
- Paalu, Alex.: *See—*
- Jeska, Kenneth S., Kudeck, and Paalu. 2,798,583.
- Paasche, Jens A., to Cline Electric Mfg. Co. Apparatus for graining surfaces. 2,777,256, 1-15-57, Cl. 51-14.
- Paasche, Jens A., to Cline Electric Mfg. Co. Spraying apparatus for successive article carried by a conveyor. 2,777,419, 1-15-57, Cl. 118-323.
- Paasche, Jens A., to Cline Electric Mfg. Co. Spray coating apparatus. 2,781,738, 2-19-57, Cl. 118-2.
- Paasche, Jens A., to Cline Electric Mfg. Co. Spray booth. 2,788,954, 4-16-57, Cl. 261-5.
- Pabst Brewing Co.: *See—*
- Hoogerheide, Johannes C. 2,798,840.
- Pabst, Carl F.: *See—*
- Hudson, Holland R., and Pabst. 2,805,552.
- Pabst, Rudolf and R. E. Van Briggie, said Pabst to Prism Signs Inc. Animated sign. 2,801,484, 8-6-57, Cl. 40-133.
- Pacey, John J., to Gilbert & Barker Mfg. Co. Hose nozzle of the automatic shut-off type. 2,786,493, 3-26-57, Cl. 141-209.
- Pachaly, Heinz: *See—*
- Schlichting, Otto, Pachaly, Westphal, and Amann. 2,812,359.
- Schlichting, Otto, Westphal, Pachaly, and Amann. 2,812,358.
- Pachmayr, Frank A.: *See—*
- Mellen, Richard A., and Pachmayr. 2,807,854.
- Pachmayr, Frank A. Coiled spring lock nut having workpiece attaching means formed thereon. 2,794,475, 6-4-57, Cl. 151-14.
- Pachter, Irwin J., to Ethyl Corp. Manufacture of propiolic acid. 2,799,703, 7-16-57, Cl. 260-526.
- Pacific Car and Foundry Co.: *See—*
- Chriswell, Frederick W. 2,805,629.
- Norrie, Robert C. 2,784,980.
- Pacific Coast Products: *See—*
- Alpert, Max. 2,797,132.
- Pacific Foundry Co., Ltd.: *See—*
- MacAfee, Merrill W. 2,780,307.
- Pacific Industrial Mfg. Co.: *See—*
- Pearson, Eugene W. 2,793,584.
- Pearson, Eugene W., and Richardson. 2,781,844.
- Pacific Mills: *See—*
- Ford, Jesse A. 2,804,632.
- Kaupin, William B., and Patsourakos. 2,792,276.
- Shann, William E., and Wheelock. 2,808,884.
- Wilkie, Robert C. 2,779,977.
- Wilkie, Robert C. 2,780,838.
- Wilkie, Robert C. 2,795,051.
- Pacific Pumps, Inc.: *See—*
- Harney, Doran B. 2,818,286.
- Pacific Scientific Aeroproducts: *See—*
- Cushman, Clifford E. 2,787,916.
- Cushman, Clifford E. 2,812,201.
- McAllister, Decker G., Parsons, and Mescher. 2,784,243.
- Pacific Semiconductors, Inc.: *See—*
- Lewis, William M., Jr., and Frazier. 2,815,474.
- Pacific Union Metal Co.: *See—*
- Lloyd, William H. 2,794,231.
- Pacific Vegetable Oil Corp.: *See—*
- Purdy, Richard H., and Kneeland. 2,786,063.
- Pacific Yeast Products, Inc.: *See—*
- Sudarsky, Jerry M., and Fisher. 2,816,856.
- Pacitti, Thomas G. Horse racing game. 2,810,578, 10-22-57, Cl. 273-134.
- Pack, Charles: *See—*
- Bauer, Alfred F., and Pack. 2,780,117.
- Package Enterprises, Inc.: *See—*
- Toby, Max E. 2,813,798.
- Toby, Max E. 2,815,139.
- Package Machinery Co.: *See—*
- Cornock, Edward F., Roberts, and Lyon. 2,810,246.
- Labine, Roland A., and Luczek. 2,776,639.
- Lyon, Norman W. 2,776,785.
- Lyon, Norman W. 2,817,201.
- Lyon, Norman W. 2,817,202.
- Palmer, Frank D. 2,789,481.
- Prince, Clarence F. 2,801,508.
- Packaging Materials Corp.: *See—*
- Brown, Paul. Re. 24,361.
- Packard-Bell Co.: *See—*
- Green, Willard J. 2,805,059.
- Packard, E. B., Co., Inc.: *See—*
- Packard, Theodore. 2,782,673.
- Packard, Karl S., to the United States of America as represented by the Secretary of the Navy. Cathode ray tube spot size measurement. 2,777,113, 1-8-57, Cl. 324-20.
- Packard, Raymond P. Ventilator. 2,777,176, 1-15-57, Cl. 20-61.
- Packard, Theodore, to E. B. Packard Co., Inc. Multi-pronged sheet metal corner fastener. 2,782,673, 2-26-57, Cl. 85-13.
- Packard, William, to Bendix Aviation Corp. Windshield heater control device and system. 2,810,055, 10-15-57, Cl. 219-20.
- Packers Supply Co. Ltd.: *See—*
- Keeble, William J. 2,779,566.
- Packham, Alfred J. H. Combined shoulder brooch and strap clip. 2,792,607, 5-21-57, Cl. 24-85.
- Packham, Alfred J. H. Attachment for washing machines. 2,797,058, 6-25-57, Cl. 248-201.
- Packwood, Walter L. Massaging appliance. 2,797,685, 7-2-57, Cl. 128-57.
- Paeoud, André, and P. Roland, to Societe des Usines Chimiques Rhone-Poulenc. Process for the catalytic oxidation of acetone. 2,811,552, 10-29-57, Cl. 260-541.
- Pacsu, Eugene, and A. W. Bauer, to Textile Research Institute. Fractionation of starch. 2,779,693, 1-29-57, Cl. 127-71.
- Pacsu, Eugene, and A. W. Bauer, to Textile Research Institute. Disaggregation of starch A and B fractions. 2,779,694, 1-29-57, Cl. 127-71.
- Padberg, Ludwig: *See—*
- Engelage, Günther, and Padberg. 2,794,520.
- Padbury, John J.: *See—*
- Morgan, Russell L., and Padbury. 2,801,984.
- Paddock Pool Equipment Co.: *See—*
- Lightfoot, Richard O., and Ulanovsky. 2,790,461.
- Paddock, Richard K., and F. E. Robbins, to The Dow Chemical Co. Method and apparatus for alloying magnesium. 2,786,755, 3-26-57, Cl. 75-168.
- Paden, Clarence B.: *See—*
- Two, Joseph A. 2,804,946.
- Pader, Morton: *See—*
- Anson, Mortimer L., and Pader. 2,802,737.
- Anson, Mortimer L., and Pader. 2,802,738.
- Anson, Mortimer L., and Pader. 2,813,024.
- Anson, Mortimer L., and Pader. 2,813,025.
- Anson, Mortimer L., and Pader. 2,813,794.
- Padevco, Inc.: *See—*
- Hess, Gerard C., Taylor, and Wilmotte. 2,796,602.
- Wilmotte, Raymond M. 2,779,020.
- Padgett, John W., to Moore & Mungen. Wax compositions. 2,783,161, 2-26-57, Cl. 106-270.
- Padgett, Walter C., to Stewart-Warner Corp. Multiple band frequency indicator for radio apparatus. 2,790,411, 4-30-57, Cl. 116-124.1.
- Padgitt, Frank L.: *See—*
- Dunn, Roy E., Grandjean, and Padgitt. 2,790,012.
- Padial, Guillermo S. Dining table accessory. 2,792,667, 5-21-57, Cl. 45-68.3.
- Padrick, John R., to J. I. Case Co. Standard assembly for a disk bedder gang. 2,781,710, 2-19-57, Cl. 97-54.
- Padrick, John R. Earth working and planting implement. 2,783,701, 3-5-57, Cl. 97-78.
- Padrick, John R., to J. I. Case Co. Constant angle lift type tandem harrow. 2,813,389, 11-19-57, Cl. 55-83.
- Paetz, Robert A.: *See—*
- Compton, William A., Johnson, and Paetz. 2,778,314.
- Paffumi, Louis J.: *See—*
- Espari, Alphonse A., and Paffumi. 2,781,573.
- Espari, Alphonse A., and Paffumi. 2,791,823.
- Page, Alfred C. Method and device for forming grinding wheels. 2,780,214, 2-5-57, Cl. 125-11.
- Page, Alfred C., to Wright's Biscuits Ltd. Handling of biscuits. 2,783,866, 3-5-57, Cl. 198-31.
- Page Belting Co.: *See—*
- Plante, Louis P., and Roy. 2,796,890.
- Page, Carl M. Combustible gas sensing elements. 2,816,863, 12-17-57, Cl. 252-1.
- Page, Clarence: *See—*
- Page, George A., and C. 2,803,485.
- Page-Detroit, Inc.: *See—*
- Page, George A., and C. 2,803,485.
- Page Engineering Co.: *See—*
- Page, John W. 2,777,284.
- Page, George A., and C., to Page-Detroit, Inc. Egg lifter. 2,803,485, 8-20-57, Cl. 294-65.

- Page, James A., and T. B. Nix, to Delta Tank Mfg. Co., Inc. Container. 2,801,125, 7-30-57, Cl. 294-69.
- Page, James M. Cotton chopper. 2,813,472, 11-19-57, Cl. 97-20.
- Page, John H., to The Shaw-Walker Co. Posting tray cabinets. 2,791,478, 5-7-57, Cl. 312-298.
- Page, John S. Tubing anchor. 2,777,522, 1-15-57, Cl. 166-212.
- Page, John S. Well cementing apparatus. 2,799,348, 7-16-57, Cl. 166-212.
- Page, John S., Jr. Well tool. 2,786,534, 3-26-57, Cl. 166-129.
- Page, John W.: See—
- Kupfert, Bernard F., and Page. 2,814,513.
- Page, John W., to Page Engineering Co. Two part chain link with two aligned pins holding said parts together. 2,777,284, 1-15-57, Cl. 59-85.
- Page, Mark. Toy cooking stove. 2,816,395, 12-17-57, Cl. 46-10.
- Page, Paul F., to Royal McBee Corp. Ribbon carrier for typewriters and like printing machines. 2,788,110, 4-9-57, Cl. 197-170.
- Page, Raymond L., to Truckstell Mfg. Co. Swivel connection for vehicle frames. 2,792,234, 5-14-57, Cl. 280-112.
- Page, Robert G., and C. F. Hobson, Jr., to General Electric Co. Contact arm assembly for circuit interrupter. 2,802,922, 8-13-57, Cl. 200-164.
- Page, Robert M.: See—
- Philpott, La Verne R., and Page. 2,809,286.
- Page, Robert M. Indicating systems. 2,779,939, 1-29-57, Cl. 343-11.
- Page, Robert M., and P. Waterman. Signal converter system. 2,802,106, 8-6-57, Cl. 250-27.
- Page, Roy W. Adjustable window wiping squeegee. 2,814,822, 12-3-57, Cl. 15-245.
- Pagel, John. Traction cleat. 2,808,869, 10-8-57, Cl. 152-237.
- Pagels, Fred A., to Continental Can Co., Inc. Tear strip metal receptacle with welded lapped side seam. 2,818,194, 12-31-57, Cl. 220-54.
- Page-O-Matic Co., The: See—
- Latuski, Thaddeus S., and Degorski. 2,794,281.
- Pages, André P., to Societe Alsacienne de Constructions Mecaniques. Device for measuring displacement of conductors inside electric cable sheath. 2,786,146, 3-19-57, Cl. 250-106.
- Paget, George Y.: See—
- Bayes, Franklin J. 2,783,574.
- Paget, Win W., to Joy Mfg. Co. Spinning device for drill pipe. 2,784,626, 3-12-57, Cl. 81-53.
- Pagett, Harry L., to Ithaca Gun Co. Means for the take-down of a firearm. 2,797,515, 7-2-57, Cl. 42-75.
- Pagnard, Georges, to Omega. Louis Brandt & Frère S. A. Time recording device. 2,784,051, 3-5-57, Cl. 346-141.
- Pahl, Leo F., and R. C. Albrecht, to Crown Cork & Seal Co., Inc. Liquid mixing device. 2,784,948, 3-12-57, Cl. 259-4.
- Palano, Vincent L. Device for administering medicine. 2,787,267, 4-2-57, Cl. 128-172.
- Paige, Howard A. Tractor-attached tool bar-support. 2,793,577, 6-28-57, Cl. 97-47.34.
- Paige, Richard E. Display device. 2,780,017, 2-5-57, Cl. 40-124.1.
- Paige, Richard E. Means for protecting packed merchandise. 2,791,369, 5-7-57, Cl. 229-90.
- Pailing, Grace N. Cord reel. 2,801,303, 7-30-57, Cl. 191-12.4.
- Paillard S. A.: See—
- Ascoli, Enzo. 2,811,236.
- Chevallaz, Henri. 2,811,075.
- Gouffon, Jean-Jacques. 2,808,756.
- Thevenax, Jean. 2,780,156.
- Werfelli, Arnold. 2,811,082.
- Paillet, Robert, to Societe Anonyme dite: Societe des Piles Wonder. Flat dry cell. 2,814,661, 11-26-57, Cl. 136-111.
- Paine, George E.: See—
- Vaughn, James R., and Paine. 2,816,390.
- Paine, George R., to General Precision Laboratory Inc. Elevation scanning radar simulator. 2,811,789, 11-5-57, Cl. 35-10.4.
- Paine, Joseph L.: See—
- Baranowski, Frank, Jr., and Paine. 2,816,002.
- Paine Lumber Co. Ltd.: See—
- Davis, John J., Curtis, and Procknow. 2,805,783.
- Painter, Albert L., to American Trailer Co., Inc. Mobile sanitary trailer. 2,817,091, 12-24-57, Cl. 4-1.
- Painter, Charles E.: See—
- Mullin, William B., and Painter. 2,780,308.
- Painter, Claude D. Popcorn box. 2,815,164, 12-3-57, Cl. 229-16.
- Painter, Edwin S., to Eastman Kodak Co. Ketene furnaces. 2,784,065, 3-5-57, Cl. 23-277.
- Painter, Edwin S., and L. G. Haller, to Eastman Kodak Co. Acetic acid cracking furnace. 2,776,192, 1-1-57, Cl. 23-277.
- Painter, Giles W., to Lord Mfg. Co. Strain gage. 2,815,424, 12-3-57, Cl. 201-63.
- Painter, James B.: See—
- Sfreda, Albert. 2,786,540.
- Painter, Joseph F. Key case. 2,812,606, 11-12-57, Cl. 40-130.
- Painter, Parker, Jr.: See—
- Bishop, Robert P., Bruck, Painter, and Shaw. 2,796,314.
- Painter, Virgil E., to T. B. Lumpkin, T. Hocker, O. G. and V. E. Painter, a partnership doing business as Dairy Queen Co. Flavor mixing extrusion head. 2,793,838, 5-28-57, Cl. 259-23.
- Painton & Co. Ltd.: See—
- Lock, Tom. 2,815,422.
- Paisley Products, Inc.: See—
- Stone, Raymond A. 2,808,381.
- Paiso, Rudolph, to Fullerton Mfg. Co. Wiper device for drill pipe. 2,809,387, 10-15-57, Cl. 15-210.
- Paist, Walter D.: See—
- Grow, Harold J., and Paist. 2,799,896.
- Grow, Harold J., Prichard, and Paist. 2,795,820.
- Paist, Walter D., and F. Berardinelli, to Celanese Corp. of America. Plasticized cellulose acetate. 2,782,128, 2-19-57, Cl. 106-177.
- Paist, Walter D., and F. J. Rielly, to Celanese Corp. of America. Aluminum surface with plural superimposed different resinous coatings. 2,785,993, 3-19-57, Cl. 117-74.
- Paivinen, John O., to Burroughs Corp. Pulse standardizer circuit. 2,786,137, 3-19-57, Cl. 250-27.
- Pajak, Theodore P., to The Glenn L. Martin Co. Honeycomb panel and method of making same. 2,793,718, 5-28-57, Cl. 189-34.
- Pajes, Wolf S. Optical contrast amplifier. 2,805,599, 9-10-57, Cl. 88-24.
- Pak Mfg. Co.: See—
- Schwarzenbach, Earl E., and Williams. 2,801,373.
- Pakman, Marvin H.: See—
- Dellaira, Angelo J., Pakman, and Passerella. 2,783,851.
- Pako Corp.: See—
- Miller, Claire K., and Sardeson. 2,779,408.
- Sardeson, Robert, and Miller. 2,803,049.
- Pakswar, Serge: See—
- Meyer, Ralph L., and Pakswar. 2,802,131.
- Palazio, Horvilleur & Co. Ltd.: See—
- Horvilleur, Gabriel. 2,815,783.
- Palazzo, Quirino. Rotary four-stroke engine. 2,816,527, 12-17-57, Cl. 123-11.
- Paleari, Luigi, and A. Negromanti, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Continuous oxo process for gaseous olefines. 2,804,478, 8-27-57, Cl. 260-604.
- Palmero, Blasey T., and J. P. Stanley, to R. P. Scherer Corp. Gelatin capsule containing water soluble substances. 2,780,355, 2-5-57, Cl. 206-84.
- Paleveda, William J.: See—
- Conroy, Harold, and Paleveda. 2,786,849.
- Paley, Albert A. Convection heating unit. 2,815,431, 12-3-57, Cl. 219-34.
- Palic, Petar, to North American Philips Co., Inc. Electric welding apparatus. 2,805,320, 9-3-57, Cl. 219-108.
- Palinkas, James A. Hat blocking device. 2,812,887, 11-12-57, Cl. 223-24.
- Palisca, Matthew. Compartment door and seal therefor. 2,778,072, 1-22-57, Cl. 20-69.
- Palka, Joseph F. Lifting jack. 2,784,939, 3-12-57, Cl. 254-99.
- Palka, Joseph F. Lifting jack support. 2,790,615, 4-30-57, Cl. 248-166.
- Palka, Joseph F. Lifting jack and support therefor. 2,790,621, 4-30-57, Cl. 254-99.
- Palkovic, Nicholas J.: See—
- Bechman, William O., and Palkovic. 2,800,803.
- Palkovitz, Myer Z. Fixation apparatus for bone fractures. 2,812,761, 11-12-57, Cl. 128-92.
- Palm, Bernhard A., to Dings Magnetic Separator Co. Drum type magnetic separator. 2,814,386, 11-26-57, Cl. 209-223.
- Palm, Felix. Milk carton convertible to a toy. 2,805,516, 9-10-57, Cl. 46-11.
- Palm, Floyd R., Jr., to National Lock Co. Display and dispensing container. 2,781,918, 2-19-57, Cl. 211-128.
- Palm, George H. Pipe in socket type hose coupler with check valve. 2,789,838, 4-23-57, Cl. 284-19.
- Palma, Joseph, Jr., and J. G. Knapp, to American-Marietta Co. Self-wrinding mop. 2,801,433, 8-6-57, Cl. 15-119.
- Palmatier, Everett P., to Carrier Corp. Absorption refrigeration system. 2,810,272, 10-22-57, Cl. 62-119.
- Palmenberg, Edward C., and C. F. Remus, to Bendix Aviation Corp. Combined air turbine control valve mechanism and generator. 2,794,129, 5-28-57, Cl. 290-52.
- Palmer, Albert J., to W. C. Palmer, d. b. a. Store Modernizing Service. Adjustable top merchandise counter. 2,790,694, 4-30-57, Cl. 312-306.
- Palmer, Albert O., to Machlett Laboratories, Inc. Electron tube generator. 2,804,563, 8-27-57, Cl. 313-180.
- Palmer, Carl C., and A. Barry, to Esso Research and Engineering Co. Magnetic starter switch. 2,779,839, 1-29-57, Cl. 200-87.
- Palmer, Elmer D., 49% to Float-O-Matic Mfg. Co., and 51% to V. J. Philippi. Wheel balancer for automobile wheels. 2,816,446, 12-17-57, Cl. 73-483.
- Palmer, Francis M., to Latrobe Steel Co. Grinding machines and the like. 2,807,123, 9-24-57, Cl. 51-34.
- Palmer, Frank D., to Package Machinery Co. Carrier carton assembling machine. 2,789,481, 4-23-57, Cl. 93-37.
- Palmer, George B., Jr. Plastic covered insulation product and method for producing same. 2,782,465, 2-26-57, Cl. 20-35.

- Palmer, Harry R., to Vogt Knitting Mills, Inc. Multi-colored hosiery having knit solid color sole and method of knitting. 2,790,316, 4-30-57, Cl. 66—188.
- Palmer Industries, Inc.: *See—*
- Palmer, Richard L. 2,801,876.
- Palmer, Jack M., to Rohr Aircraft Corp. Nozzle with variable discharge orifice. 2,779,157, 1-29-57, Cl. 60—35.6.
- Palmer, John F., Jr.: *See—*
- Neville, Richard P., and Palmer. 2,816,076.
- Palmer, John S., to Whirlpool-Seeger Corp. Sheet metal evaporator with heating means. 2,777,300, 1-15-57, Cl. 62—126.
- Palmer, John S., to Whirlpool-Seeger Corp. Breaker-strip construction. 2,789,720, 4-23-57, Cl. 220—9.
- Palmer, Larry: *See—*
- Schucker, Robert, and Palmer. 2,799,064.
- Palmer, Lavinia J. Detachable and foldable table accessory for armless chairs. 2,804,126, 8-27-57, Cl. 155—128.
- Palmer, Leon E., to International Business Machines Corp. Justifier indicator. 2,788,881, 4-16-57, Cl. 197—187.
- Palmer, Lewis E.: *See—*
- Baxter, William E., and Palmer. 2,775,916.
- Palmer, Melvin J., to Web Wilson Oil Tools, Inc. Drill pipe slip. 2,814,087, 11-26-57, Cl. 24—263.
- Palmer, Melvin J., and W. A. Wilson, to Web Wilson Oil Tools, Inc. Connector-hook. 2,814,522, 11-26-57, Cl. 294—82.
- Palmer, Michael S., to Ideal Cabinet Corp. Rail and clip for sliding door cabinets. 2,801,438, 8-6-57, Cl. 16—87.
- Palmer, Reed A., H. H. Barker, and J. R. Chivers, to Westinghouse Electric Corp. Toasting apparatus. 2,778,912, 1-22-57, Cl. 219—19.
- Palmer, Richard C., to Allen B. Du Mont Laboratories, Inc. Photoconductive tube circuit. 2,786,960, 3-26-57, Cl. 315—10.
- Palmer, Richard C., to Allen B. Du Mont Laboratories, Inc. Television range finder. 2,786,096, 3-19-57, Cl. 178—6.8.
- Palmer, Richard L., to Palmer Industries, Inc. Panel handle clamp. 2,801,876, 8-6-57, Cl. 294—103.
- Palmer, Robert C., M. E. Hannah, Jr., and A. F. Wicke, Jr., to Heyden Newport Chemical Corp. Method of processing tall oil and products produced thereby. 2,794,017, 5-28-57, Cl. 260—97.6.
- Palmer, Robert C., and A. F. Wicke, Jr., to Heyden Newport Chemical Corp. Method of isomerizing terpenes. 2,799,717, 7-16-57, Cl. 260—675.5.
- Palmer, Robert E., to Oswego Falls Corp. Container handling apparatus. 2,805,753, 9-10-57, Cl. 198—33.
- Palmer, Robert E., to Dari-Research Corp. Milk carton crusher. 2,808,776, 10-8-57, Cl. 100—98.
- Palmer, Rundlette K. Combined body attached pen and pencil case and retracting means. 2,793,617, 5-28-57, Cl. 120—8.
- Palmer, Samuel L. Runway emergency lights. 2,806,131, 9-10-57, Cl. 240—1.2.
- Palmer-Shile Co.: *See—*
- Hall, Lee Z. 2,794,575.
- Palmer, Thomas H. Multipurpose pan. 2,812,784, 11-12-57, Cl. 141—98.
- Palmer, W. A. Films, Inc.: *See—*
- Palmer, William A. 2,809,234.
- Palmer, W. C.: *See—*
- Palmer, Albert J. 2,790,694.
- Palmer, Wilbur C.: *See—*
- Andrysick, Chester A., and Palmer. 2,799,974.
- Palmer, William A., to W. A. Palmer Films, Inc. Video-recording camera. 2,809,234, 10-8-57, Cl. 178—7.4.
- Palmer, William E.: *See—*
- Hensgen, Bernard T., Palmer, and Faust. 2,802,658.
- Palmer, William L., Jr. Mobile hopper poultry feeder. 2,791,200, 5-7-57, Cl. 119—52.
- Palmer, Winslow, to Sperry Rand Corp. Automatic loran receiver. 2,782,413, 2-19-57, Cl. 343—103.
- Palmer, Winslow, to Sperry Rand Corp. Means for detecting improper sky wave synchronization. 2,794,979, 6-4-57, Cl. 343—103.
- Palmer, Winslow, to Sperry Rand Corp. Automatic phase comparator apparatus. 2,811,717, 10-29-57, Cl. 343—103.
- Palmere, Frank. Oyster and clam opener. 2,808,613, 10-8-57, Cl. 17—9.
- Palmgren, Nils A., to SKF Industries, Inc. Roller cages for roller bearings. 2,805,108, 9-3-57, Cl. 308—217.
- Palmgren, Per G., F. S. Ball, C. E. G. Johansson, and B. L. Haley, to SKF Industries, Inc. Railroad axle journal bearing construction. 2,783,102, 2-26-57, Cl. 308—180.
- Palmieri, Albert. Auxiliary door and frame structure. 2,818,146, 12-31-57, Cl. 189—46.
- Palmieri, John. Spinning top toy. 2,789,392, 4-23-57, Cl. 46—67.
- Palmleaf, Herbert, to A. J. Gerrard & Co. Apparatus for handling coil strip material. 2,776,764, 1-8-57, Cl. 214—89.
- Palmquist, Carl W.: *See—*
- Phillips, Leonard R., Waeldner, Palmquist, Wallen, and Kurth. 2,814,446.
- Palmquist, Philip V., to Minnesota Mining & Mfg. Co. Ink-receptive resinous films. 2,786,778, 3-26-57, Cl. 117—12.
- Palmquist, Roland E. Pole rest attachments for ladders. 2,808,975, 10-8-57, Cl. 228—60.
- Palmqvist, Fredrik T. E., to Aktiebolaget Separator. Manufacture of surface-active products. 2,803,635, 8-20-57, Cl. 260—413.
- Palo, Maurice M., to Banite Co. Dispensing apparatus for soap and other viscous materials. 2,789,737, 4-23-57, Cl. 222—326.
- Pals, Richard D. Ladder attachment. 2,788,930, 4-16-57, Cl. 228—60.
- Pålsson, Lennart P., to Aktiebolaget Bofors. Apparatus for testing transmission systems. 2,794,337, 6-4-57, Cl. 73—1.
- Palsson, Magnus P. Mooring hook. 2,811,127, 10-29-57, Cl. 114—221.
- Palsulich, Joseph, and J. R. Fotheringham, to Clevite Corp. Journal and bearing combination to minimize fretting corrosion. 2,787,503, 4-2-57, Cl. 308—241.
- Palsulich, Thomas G.: *See—*
- Ries, Rudy F., and Palsulich. 2,778,542.
- Palya, Albert H.: *See—*
- Ergen, William K., Palya, and Frick. 2,794,594.
- Pamm, Georges, and C. J. Rogers, to E. I. du Pont de Nemours and Co. Fibers and fabrics. 2,816,349, 12-17-57, Cl. 28—82.
- Pan, Wen Y., to Radio Corp. of America. Diode frequency converter with combined local oscillator-intermediate frequency amplifier having common triode. 2,789,215, 4-16-57, Cl. 250—20.
- Pan, Wen Y., and D. J. Carlson, to Radio Corp. of America. Ultrahigh-frequency tunable structure and circuit. 2,803,745, 8-20-57, Cl. 250—20.
- Pan American Petroleum Corp.: *See—*
- Adcock, Willis A., and Lake. 2,788,262.
- Adcock, Willis A., and Lake. 2,809,097.
- Barber, Franklin T., and Vandaveer. 2,797,200.
- Barnard, Kent R. 2,801,212.
- Barnes, David K. 2,790,013.
- Behning, Paul D., Glass, and Rzasa. 2,803,305.
- Brainerd, Harold W., Jr., Gray, and Menaul. 2,793,998.
- Curnutt, Donald D., and Vincent. 2,789,645.
- Dunn, Thomas H., and Lummus. 2,797,196.
- Dyk, Karl, and Widess. 2,810,444.
- Eisler, Joseph D., and Silverman. 2,808,894.
- Garrick, David A. 2,800,964.
- Garst, Arthur W. 2,800,962.
- Goodwin, Lloyd O. 2,788,072.
- Grekel, Howard, and Hagan. 2,810,740.
- Harper, Richard V., and Wilder. 2,794,758.
- Howard, George C., and Scott. 2,801,077.
- Lake, William C. 2,794,039.
- Lake, William C. 2,801,259.
- Lake, William C. 2,801,260.
- Lake, William C., and Rambossek. 2,810,739.
- Lummus, James L. 2,793,996.
- Menaul, Paul L. 2,801,218.
- Morse, Richard A. 2,793,696.
- O'Neal, George E. 2,813,490.
- Pearce, Frank G. 2,813,889.
- Pearce, Frank G. 2,813,919.
- Pan American Production Co.: *See—*
- Natho, Paul J. 2,780,290.
- Panchesine, William. Detachable splash guard for trucks and trailers. 2,777,710, 1-15-57, Cl. 280—154.5.
- Pandjiris, Anthony K., to The Pandjiris Weldment Co. Welding methods and apparatus. 2,808,500, 10-1-57, Cl. 219—137.
- Pandjiris Weldment Co., The: *See—*
- Pandjiris, Anthony K. 2,808,500.
- Pandolfi, Ernest. Steering post operated switch for automobile turn signals. 2,784,269, 3-5-57, Cl. 200—61.31.
- Panes, Isidore. Brassiere. 2,776,432, 1-8-57, Cl. 2—42.
- Panepinto, Frank W., to The Pennsylvania Salt Mfg. Co. Stabilization of hydrogen peroxide. 2,783,132, 2-26-57, Cl. 23—207.5.
- Panepinto, Frank W., to The Pennsylvania Salt Mfg. Co. Non-caking fluosilicate composition. 2,790,706, 4-30-57, Cl. 23—88.
- Panfil, Conrad J., to The Heinn Co. Loose-leaf binders. 2,784,719, 3-12-57, Cl. 129—13.
- Panfile, Patrick A.: *See—*
- Weber, Richard E., and Panfile. 2,818,541.
- Pangborn Corp.: *See—*
- Garver, Ralph R. 2,797,530.
- Gladfelder, Wiltie I., and Garver. 2,816,466.
- Panhandle Eastern Pipe Line Co.: *See—*
- Russell, Jolly T. 2,807,522.
- Panhard, Paul, to Societe Anonyme des Anciens Etablissements Panhard & Levassor. Ten speed gear box built with nine toothed wheels. 2,784,609, 3-12-57, Cl. 74—359.
- Panich, Michael, to Bailey Meter Co. Pneumatic relays. 2,805,678, 9-10-57, Cl. 137—86.
- Panich, Michael, to Bailey Meter Co. Fluid pressure receiver. 2,805,682, 9-10-57, Cl. 137—790.
- Panighni, Franca, to S. r. l. Glasvite. Breast supporter. 2,793,369, 5-28-57, Cl. 2—42.
- Panik, Joseph J., to Studebaker-Packard Corp. Header assembly for vehicle closures. 2,813,748, 11-19-57, Cl. 296—44.
- Panissidi, Hugo A.: *See—*
- Leathers, Ward, and Panissidi. 2,799,994.
- Panissidi, Hugo A., to International Business Machines Corp. Hydraulic control apparatus. 2,800,885, 7-30-57, Cl. 121—147.
- Pankonin, William G., to Triangle Tool & Mfg. Co. Detachable base stapling machine. 2,780,809, 2-12-57, Cl. 1—3.
- Pankove, Jacques I.: *See—*
- Ellis, Sidney G., and Pantchechnikoff. 2,796,562.
- Pantchechnikoff, Jacques I. 2,791,703.

- Pankove, Jacques I., to Radio Corp. of America. Radiation powered transistor circuits. 2,777,057, 1-8-57, Cl. 250-20.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices and methods of making same. 2,785,095, 3-12-57, Cl. 148-1.5.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices. 2,800,617, 7-23-57, Cl. 317-235.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices. 2,801,848, 7-30-57, Cl. 307-88.5.
- Pankove, Jacques I., to Radio Corp. of America. Method of sealing a semi-conductor device. 2,807,558, 9-24-57, Cl. 117-213.
- Pankove, Jacques I., to Radio Corp. of America. Melt-quench method of making transistor devices. 2,817,608, 12-24-57, Cl. 148-1.5.
- Pankratz, Howard J., to Phillips Petroleum Co. Flow controller. 2,776,786, 1-8-57, Cl. 222-486.
- Pannier Corp., The: See—
Hendrickson, James M., 2,776,617.
- Pannizzo, Frank: See—
Montgomery, Clarence G., 2,790,962.
- Panouse, Jacques J.: See—
Sannie, Charles, and Panouse. 2,811,558.
- Panseal, Inc.: See—
Karlan, Jac H., and Gartner. 2,786,359.
- Pantages, Steven, and E. N. Pantazis. Autophone. 2,817,706, 12-24-57, Cl. 179-1.
- Pantazis, Emmanuel N.: See—
Pantages, Steven, and Pantazis. 2,817,706.
- Pantchechnikoff, Jacques I.: See—
Ellis, Sidney G., and Pantchechnikoff. 2,796,562.
- Pantchechnikoff, Jacques I., now by change of name J. I. Pankove, to Radio Corp. of America. Semi-conductor devices having focusing electrodes. 2,791,703, 5-7-57, Cl. 307-88.5.
- Pantello, James G., to C. Cummings. Clamp-on butter patty holder or jelly cup. 2,795,121, 6-11-57, Cl. 65-65.
- Pantex Mfg. Corp.: See—
Affleck, Theodore H., 2,798,688.
Strader, Don S., 2,785,269.
- Panuline, George: See—
Bell, Leo R., and Panuline. 2,817,933.
- Papa, Domenick, and H. F. Ginsberg, to Schering Corp. Contrast agent. 2,790,748, 4-30-57, Cl. 167-95.
- Papadakis, Simeon. Process for the production of photographic images in natural colours by the subtractive three-colour process. 2,790,715, 4-30-57, Cl. 96-13.
- Papadakos, Peter J., to Gyrodyne Co. of America, Inc. Power folding rotor blade system for rotary wing aircraft. 2,815,820, 12-10-57, Cl. 170-160.12.
- Papadopoulos, Constantine J. Folding box construction. 2,793,801, 5-28-57, Cl. 229-33.
- Papageorges, Demetre. Grinding head. 2,810,241, 10-22-57, Cl. 51-209.
- Papalas, Nick B.: See—
Portman, Donald G., and Papalas. 2,806,098.
- Papandrea, Margaret. Hair curler. 2,776,666, 1-8-57, Cl. 132-41.
- Papanoli, Michael E.: See—
Barney, Freeman, and Papanoli. 2,799,338.
- Papanoli, Michael E., to The Challenge Machinery Co. Lock for hydraulic piston. 2,787,252, 4-2-57, Cl. 121-40.
- Papanoli, Michael E., and J. W. Lee, to The Challenge Machinery Co. Automatic control for hydraulic paper cutters. 2,778,341, 1-22-57, Cl. 121-38.
- Papanoli, Michael E., and J. W. Lee, to The Challenge Machinery Co. Control and actuating means for motor reversing valves. 2,785,658, 3-19-57, Cl. 121-38.
- Pape, Hans-Martin, to Gustav F. Gerdtz, K. G. Steam and water conducting systems. 2,789,770, 4-23-57, Cl. 237-67.
- Pape, Hans-Martin, and J. Schulze. Combined sludge-removing and desalting device for steam boilers. 2,778,375, 1-22-57, Cl. 137-244.
- Pape, Hans-Martin, J. Schulze, and E. Hiller, to G. F. Gerdtz. Fast closing valve. 2,796,888, 6-25-57, Cl. 137-637.2.
- Pape, Harry E.: See—
Lowe, William B., and Pape. 2,798,593.
Vandenburgh, Charles D., and Pape. 2,794,542.
- Pape, Harry E., to American Viscose Corp. Lace-up device. 2,812,850, 11-12-57, Cl. 203-65.
- Pape, Robert C., and G. M. Wallerich, to V. Mueller & Co. Portable eye magnet. 2,801,628, 8-6-57, Cl. 128-1.4.
- Papel Para Cigarros, S. A.: See—
Miquel y Merino, Miguel. 2,805,668.
Miquel y Merino, Miguel. 2,805,669.
- Papellian, Roger G., K. L. Giacomuzzi, and C. O. Engstrom; said Giacomuzzi and Engstrom assors. to said Papellian. Adjustable drawing board and support. 2,808,308, 10-1-57, Cl. 312-231.
- Papenguth, Loren R., to General Motors Corp. Lubricating system. 2,818,050, 12-31-57, Cl. 123-90.
- Paper Research & Development Corp.: See—
Yovanovich, Joseph T., 2,789,484.
Yovanovich, Joseph T., 2,816,400.
- Paperbox Corp.: See—
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- Paper Mate Mfg. Co.: See—
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Seyer, Frank H., 2,813,513.
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- Paper Strap, Inc.: See—
Crory, Jay D., and Burleigh. 2,783,690.
- Papeteries De France: See—
Caubet, Jacques. 2,785,019.
- Papini, Anthony. Combination lock. 2,779,185, 1-29-57, Cl. 70-333.
- Papinsky, Ray, to the United States of America as represented by the Secretary of the Army. Photon counter apparatus for X-ray diffraction studies. 2,812,464, 11-5-57, Cl. 313-93.
- Papirindustriens Forskningsinstitut: See—
Löschbrandt, Frithjof. 2,783,135.
- Papitto, Gene. Remote control channel selector for television receivers and the like. 2,816,259, 12-10-57, Cl. 318-467.
- Papouschek, Franz, to Radio Corp. of America. Variable-selectivity amplifier circuits. 2,796,469, 6-18-57, Cl. 179-171.
- Papouschek, Franz, to Radio Corp. of America. Tuning device. 2,796,519, 6-18-57, Cl. 250-20.
- Papouschek, Franz, to Radio Corp. of America. Switch. 2,811,594, 10-29-57, Cl. 200-14.
- Pappas, Constantine A., to National Pneumatic Co., Inc. Hydraulic piston check for use with a pneumatically operated piston motor. 2,783,743, 3-5-57, Cl. 121-44.
- Pappas, Constantine A., to National Pneumatic Co., Inc. Quick release valve. 2,816,563, 12-17-57, Cl. 137-102.
- Pappas, George P., to New York Transformer Co., Inc. Transformer construction. 2,788,499, 4-9-57, Cl. 336-84.
- Pappas, Louis A. Ice cracking device. 2,799,998, 7-23-57, Cl. 62-108.5.
- Pappathatos, James S., and E. F. Gits, to Unit Mfg. Co. Lifting mechanism attachment for lift trucks. 2,785,817, 3-19-57, Cl. 214-513.
- Pappens, René, and J. P. Schrader, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain. Chauny & Cirey. Glass drawing apparatus. 2,798,336, 7-9-57, Cl. 49-3.
- Pappo, Ely: See—
Attias, Isidor, and Pappo. 2,804,230.
- Paprocki, Cora S., and J. C. Drag. Nursing bottle holder. 2,815,909, 12-10-57, Cl. 248-102.
- Papworth, Walter A. Manually portable bayonet saw with oval stroke. 2,781,800, 2-19-57, Cl. 143-68.
- Paquette, Elmer W., to Draper Corp. Means for preventing creases in fabrics as taken up in looms. 2,776,677, 1-8-57, Cl. 139-304.
- Paradis, Ernest, and R. Chain-saw sharpening device. 2,813,438, 11-19-57, Cl. 76-31.
- Paradis, Romeo: See—
Paradis, Ernest, and R. 2,813,438.
- Paradise, Maurice E., to Hoffman Electronics Corp. Electrical connector. 2,817,067, 12-17-57, Cl. 339-192.
- Paragon Electric Co.: See—
Everard, Joseph J., 2,779,829.
Senn, Jurg A., 2,784,275.
- Paragon-Revolute Corp.: See—
Wilde, Frederick G., and Johnson. 2,797,793.
- Par Aide Products Co.: See—
Garske, Joseph S., 2,807,037.
- Para-Lux Products Co.: See—
Iverson, Arden L., 2,782,580.
Iverson, Arden L., 2,784,886.
- Paramount Paper Products Co.: See—
Collins, Richard E., 2,808,679.
- Paramount Pictures Corp.: See—
Kneitel, Seymour H., 2,798,407.
- Paramount Textile Machinery Co.: See—
Pope, William P., 2,800,724.
- Pararra, Julius, to Alfonso Losada. Stop signal for bicycles. 2,793,604, 5-28-57, Cl. 116-36.
- Paraskewik, William: See—
Damm, Carl A., Paraskewik, and Kaufmann. 2,812,658.
- Parcaro, Michael. Compressor in air conditioning system. 2,801,528, 8-6-57, Cl. 62-115.
- Parce, Leon J., to Societe de Telecommunications. Multiple channel carrier current telephone cable. 2,792,442, 5-14-57, Cl. 174-32.
- Parcell, Russell W., to The Baker-Raulang Co. Load carrying industrial truck. 2,788,148, 4-9-57, Cl. 214-653.
- Parcells, M. Lloyd: See—
Dempster, Ervin. 2,805,474.
- Parcells, Willard K.: See—
Davis, Evan E., Jr., and Parcells. 2,813,897.
Thompson, Norman, and Parcells. 2,797,197.
- Pardee, Lloyd W., to The Scott & Fetzer Co. Removable brush roll for vacuum cleaners. 2,785,431, 3-19-57, Cl. 15-368.
- Pardee, Thomas E., to The Modern Hanger Corp. Radiator hanger. 2,788,948, 4-16-57, Cl. 248-234.
- Pardee, William A.: See—
Culberson, Oran L., and Pardee. 2,812,249.
- Pardee, William A., to Gulf Research & Development Co. Treating silica-metal oxide composites and cracking process. 2,782,144, 2-19-57, Cl. 196-52.
- Pardee, William A., to Gulf Research & Development Co. Apparatus for preparing carbon impregnated solids. 2,807,231, 9-24-57, Cl. 118-47.
- Pardo, Clay E., Jr., to United States of America as represented by the Secretary of Agriculture. Shrinkproofing of wool with epoxy resins and polyalkyleneamines. 2,817,602, 12-24-57, Cl. 117-141.

- Pardue, Charles L., Jr., and W. D. Benner. Pipe bending machine. 2,796,910, 6-25-57, Cl. 153-40.
- Paredes, Ernesto M. Typewriter eraser. 2,791,313, 5-7-57, Cl. 197-181.
- Parent, John E.: *See*—
Maskulka, Joseph M., and Parent. 2,798,520.
- Parente, Rita J. Pin cushion. 2,801,037, 7-30-57, Cl. 223-109.
- Parfitt, Hawley, 1/4 to W. T. Jay. Firearms bore scope. 2,794,363, 6-4-57, Cl. 88-14.
- Parikos, John J. Folding leg fitting. 2,782,087, 2-19-57, Cl. 311-99.
- Paris, Bernard, to The Haloid Co. Xerographic plate. 2,803,541, 8-20-57, Cl. 96-1.
- Paris, Francois G.: *See*—
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,493.
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,494.
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,812,636.
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,812,980.
- Paris, Gerard Y.: *See*—
McKay, Arthur F., Braun, and Paris. 2,816,896.
- Paris, Thomas. Safety boat. 2,794,192, 6-4-57, Cl. 9-3.
- Parise, Mae M. Garment. 2,799,022, 7-16-57, Cl. 2-76.
- Parish, Frank P.: *See*—
Myers, Lew L., Parish, and Straughn. 2,808,832.
- Parish, Mildred M. Infant's sleeping garment. 2,803,824, 8-27-57, Cl. 2-69.5.
- Parish, Richard L., and F. Zampella, to American Flange & Mfg. Co., Inc. Closure flange-container wall combination. 2,798,742, 7-9-57, Cl. 285-45.
- Parish, Willard E., to Crouse-Hinds Co. Explosion proof flame trap and drain. 2,784,741, 3-12-57, Cl. 138-42.
- Parish, William H. Apparatus for mixing concrete and the like. 2,813,705, 11-19-57, Cl. 259-176.
- Park, Arthur: *See*—
Cardwell, Paul H., Eilers, and Park. 2,802,531.
- Park, Arthur L., to Saco-Lowell Shops. Hot air dryer. 2,779,105, 1-29-57, Cl. 34-155.
- Park, Harold F., to Monsanto Chemical Co. Divinyl disulfide preparation. 2,796,437, 6-18-57, Cl. 260-608.
- Park, Harwood E., 1/2 to G. H. Peterson. Welding method and apparatus. 2,794,108, 5-28-57, Cl. 219-67.
- Park, Robert H., to Emhart Mfg. Co. Heat sealing device. 2,796,914, 6-25-57, Cl. 154-42.
- Park & Tilford Distillers Corp.: *See*—
Leshin, Joseph. 2,791,467.
- Parke, Davis & Co.: *See*—
Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb. Re. 24,265.
- Chen, Graham. 2,778,772.
- Edgerton, William H. 2,791,595.
- Edgerton, William H., and Fisher. 2,777,854.
- Edgerton, William H., and Hull. 2,797,242.
- L'Italian, Yvon J., and Rebstock. 2,802,865.
- McLean, William I., Jr. 2,793,160.
- Miller, Charles A. 2,801,249.
- Miller, Charles A. 2,806,037.
- Moersch, George W. 2,807,645.
- Moore, James A., and Wittle. 2,807,644.
- Slack, Ronald. 2,786,870.
- Troutman, Harvey D. 2,794,809.
- Troutman, Harvey D. 2,794,836.
- Parker, Alfred G.: *See*—
White, Francis B., and Parker. 2,776,938.
- Parker Appliance Co., The: *See*—
Bott, William J. 2,811,167.
- Davies, Robert H., and Amon. 2,811,168.
- Le Clair, Camille S. 2,797,936.
- Margrave, Wilton. 2,799,470.
- Russell, John G. 2,780,235.
- Russell, John G. 2,780,237.
- Russell, John G. 2,780,504.
- Stephens, William T. 2,783,745.
- Parker, Bernard: *See*—
Bowen, Milton L., and Parker. 2,804,876.
- Parker Brothers, Inc.: *See*—
Pickard, Alan H. 2,800,330.
- Parker, Charles S., and A. Melville, 1/2 each to Bleacher's Association Ltd., and The Bradford Dyer's Association Ltd. Ornamentation of textile fabrics. 2,808,635, 10-8-57, Cl. 28-74.
- Parker, Clarence E., to The Coe Mfg. Co. Veneer lathe. 2,804,891, 9-3-57, Cl. 144-214.
- Parker, Clarence E., to The Coe Mfg. Co. Veneer clipper. 2,818,115, 12-31-57, Cl. 164-48.
- Parker, Dean A. Raisable trailer drawbar. 2,777,713, 1-15-57, Cl. 280-425.
- Parker, Donald W.: *See*—
De Forest, Taber, and Parker. 2,806,959.
- Parker, Earl R., and R. D. Potter, to Baldwin-Lima-Hamilton Corp. Method of treating impulse turbine buckets. 2,801,193, 7-30-57, Cl. 148-13.
- Parker, Edwin D., to The Parker Sweeper Co. Foldable cart. 2,789,829, 4-23-57, Cl. 280-36.
- Parker, Edwin D., and E. E. Stelzer, to Parker Sweeper Co. Floor sweeper having auxiliary brush for sweeping in corners. 2,782,434, 2-26-57, Cl. 15-49.
- Parker, Edwin D., and E. E. Stelzer, to The Parker Sweeper Co. Latch for detachable debris receptacle. 2,801,862, 8-6-57, Cl. 230-47.26.
- Parker, Edwin L., to Blaizon, Inc. Child's collapsible rocking chair. 2,788,056, 4-9-57, Cl. 155-75.
- Parker, Elliot J., to Linear, Inc. Pressure-actuated seals. 2,799,523, 7-16-57, Cl. 286-26.
- Parker, Emory: *See*—
Mack, Gerry P., and Parker. 2,809,956.
- Parker, Frank A., and T. L. Wright. Garbage disposal device. 2,817,290, 12-24-57, Cl. 100-102.
- Parker, Frank M., Jr., deceased; P. A. Parker, executrix. Speedometer testers. 2,781,659, 2-19-57, Cl. 73-2.
- Parker, Frederick A., and F. G. Wheel suspension for vehicles. 2,811,372, 10-29-57, Cl. 280-124.
- Parker, Frederick G.: *See*—
Parker, Frederick A., and F. G. 2,811,372.
- Parker, George H., to Container Corp. of America. Paper-board blank and can carrier formed therefrom. 2,812,105, 11-5-57, Cl. 220-113.
- Parker, George S., II, to The Parker Pen Co. Display carton. 2,813,621, 11-19-57, Cl. 206-45.19.
- Parker, Harry W.: *See*—
Marx, John W., and Parker. 2,813,583.
- Parker, Huling H., to The Light House, Inc. Control means for fog signal. 2,799,849, 7-16-57, Cl. 340-222.
- Parker, Humphrey F.: *See*—
Devonshire, William H., Wilson, and Parker. 2,817,747.
- Robins, Erford E., Lerch, and Parker. 2,782,331.
- Parker, James C., and W. R. Horst, to The Commonwealth Engineering Co. of Ohio. Device for automatically counting blood cells. 2,807,416, 9-24-57, Cl. 235-92.
- Parker, James E., and F. W. Weinberger, to The Pyle-National Co. Means of fastening flexible tubing to a duct collar. 2,807,432, 9-24-57, Cl. 251-150.
- Parker, James P., and E. J. Grisett, Jr., to American Enka Corp. Cord forming. 2,795,925, 6-18-57, Cl. 57-106.
- Parker, James B., and M. G. Brazzil; said Brazzil assor. to said Parker. Apparatus for performing multiple metal working operations on pipes. 2,800,942, 7-30-57, Cl. 153-2.
- Parker, John A., and E. J. Pieper, to Armstrong Cork Co. Alkyd resin comprising tall oil and pentaerythritol. 2,813,841, 11-19-57, Cl. 260-22.
- Parker, John J., and L. T. Morawski. Twist type chuck. 2,805,864, 9-10-57, Cl. 279-1.
- Parker, John J., and L. T. Morawski. Chuck for supporting a plurality of work pieces. 2,806,705, 9-17-57, Cl. 279-2.
- Parker, John S., to The Goodyear Tire & Rubber Co. Venting bladder. 2,790,205, 4-30-57, Cl. 18-45.
- Parker, John T., and L. T. Morawski. Tool for gauging threads on work pieces. 2,782,521, 2-26-57, Cl. 33-199.
- Parker, John W. Adjustable worktable for grinding machine. 2,787,872, 4-9-57, Cl. 51-125.
- Parker, Joseph W., to Pharma Plastics Inc. Dropper. 2,802,605, 8-13-57, Cl. 222-215.
- Parker, Kenneth. Revolving door. 2,802,244, 8-13-57, Cl. 20-18.
- Parker, Leland C., to Bendix Aviation Corp. Electro-magnetic pump. 2,801,591, 8-6-57, Cl. 103-38.
- Parker, Leland L.: *See*—
Pawley, Myron G., Parker, and Hereth. 2,786,105.
- Parker, Lionel D.: *See*—
Pooley, Henry, and Parker. 2,788,961.
- Parker, Louis W. Voltage regulated power supply. 2,787,753, 4-2-57, Cl. 321-2.
- Parker, Martin J., to Iwan Ries & Co. Battery adapter. 2,818,463, 12-31-57, Cl. 136-173.
- Parker, Melvor L. Wide frequency range recording and reproducing apparatus. 2,800,384, 7-23-57, Cl. 346-74.
- Parker, Melvin J., and A. J. Turpin, to Hauck Mfg. Co. Burner for tube firing. 2,796,118, 6-18-57, Cl. 158-11.
- Parker Pen Co., The: *See*—
Hyzer, William G. 2,811,907.
- Kersten, William H. 2,813,511.
- Parker, George S., II. 2,813,621.
- Perlin, Fred. 2,779,180.
- Perlin, Fred. 2,780,085.
- Perlin, Fred. 2,781,708.
- Wittnebert, Frederick R. 2,802,450.
- Zodtner, Harlan H. 2,782,763.
- Parker, Percy W. Sack racking and carrying means. 2,788,822, 4-16-57, Cl. 150-11.
- Parker, Phyllis A.: *See*—
Parker, Frank M., Jr. 2,781,659.
- Parker, Richard A.: *See*—
TePoel, Clarence F., and Hallenbeck. 2,811,701.
- Parker Rust Proof Co.: *See*—
Cramer, Marco J. 2,809,907.
- Goodspeed, Edwin W., and Dell. 2,800,421.
- Goodspeed, Edwin W., and Gibson. 2,785,097.
- Goodspeed, Edwin W., and Gibson. 2,805,969.
- Goodspeed, Edwin W., and Pollard. 2,813,814.
- Ley, Hellmut, Keller, Kopp, Rausch, and Fleischhauer. 2,813,813.
- Rausch, Werner, and Mayr. 2,791,525.
- Somers, Richard I., and Rotsko. 2,813,812.
- Thompson, John S. 2,795,510.
- Parker Sweeper Co., The: *See*—
Parker, Edwin D. 2,789,829.
- Parker, Edwin D., and Stelzer. 2,782,434.
- Parker, Edwin D., and Stelzer. 2,801,862.
- Parker, Thomas R. Anchor alarm device. 2,810,120, 10-15-57, Cl. 340-29.
- Parker, Truman A., Jr., and H. Plummer, to Rohr Aircraft Corp. Rapid fluid discharging means. 2,808,114, 10-1-57, Cl. 169-9.

- Parker, William E.: *See*—
Soman, Robert, Parker, and Loucks. 2,815,254.
- Parker, William N.: *See*—
Garner, Lloyd P., and Parker. 2,807,971.
- Parker, Winfred E.: *See*—
Swern, Daniel, and Parker. 2,813,885.
- Parker, Wynton E. Paint roller. 2,805,439, 9-10-57, Cl. 15—230.
- Parkersburg Rig & Reel Co., The: *See*—
De La Mater, Robert G. 2,793,543.
De La Mater, Robert G., and Speiden. 2,786,552.
- Parke, Eric B., to Joseph Lucas (Industries) Ltd. Vehicle windscreen washers. 2,784,876, 3-12-57, Cl. 222—63.
- Parke, Eric B., to Joseph Lucas (Industries) Ltd. Vehicle windscreen washers. 2,797,131, 6-25-57, Cl. 299—58.
- Parke, Eric B., to Joseph Lucas (Industries) Ltd. Spindle couplings. 2,812,962, 11-12-57, Cl. 287—53.
- Parkes, Josiah, & Sons Ltd.: *See*—
Butter, Francis J. 2,804,328.
Butter, Francis J. 2,817,553.
- Parkes, Ralph C. Pestooning device for a loop drying machine. 2,788,968, 4-16-57, Cl. 271—2.2.
- Parkes, Ralph C. Constant tension roll dryer. 2,817,514, 12-24-57, Cl. 271—2.3.
- Parkhurst, Merle D. Belt with compartments. 2,817,472, 12-24-57, Cl. 224—5.
- Parkinson, Carl H., to Rolls-Royce Ltd. Methods of and apparatus for welding to produce simple pressure butt resistance welded joints. 2,803,737, 8-20-57, Cl. 219—107.
- Parkinson, John S., and W. A. Jack, 3rd, to Johns-Manville Corp. Heating system. 2,800,308, 7-23-57, Cl. 257—124.
- Parkmaster Systems Inc.: *See*—
Riblet, Royal N. 2,785,809.
- Parks, Clarence E., and G. B. Jennings, to The B. F. Goodrich Co. Rigid shock-resistant vinyl halide polymer compositions. 2,807,603, 9-24-57, Cl. 260—45.5.
- Parks, Clarence E., and G. L. Wheelock, to The B. F. Goodrich Co. Rigid shock-resistant vinyl halide polymer compositions and method of making same. 2,808,387, 10-1-57, Cl. 260—45.5.
- Parks, Clifford R. Fence with bamboo surface covering. 2,785,877, 3-19-57, Cl. 256—34.
- Parks, Herman D.: *See*—
Beattie, Clare L., and Parks. 2,797,865.
- Parks, James A. Mattress turner. 2,797,419, 7-2-57, Cl. 5—323.
- Parks, John W., and F. J. and C. J. Daniels. Metal fly sticks for printing presses. 2,816,761, 12-17-57, Cl. 271—83.
- Parks, Joseph J., II: *See*—
Kramer, Joseph, and Parks. 2,791,368.
- Parks, Mercer H., to Esso Research and Engineering Co. Apparatus for completing and operating sulfur wells. 2,804,293, 8-27-57, Cl. 262—3.
- Parks, Mercer H., to Humble Oil & Refining Co. Mining of sulfur by liquefaction of the sulfur. 2,808,247, 10-1-57, Cl. 262—3.
- Parks, Waldo I. Improved vaporizer. 2,810,167, 10-22-57, Cl. 21—119.
- Parks, William W.: *See*—
Impey, Charles E., Parks, and Peterson. 2,815,938.
- Parks, Wilson J. Hair washing apparatus. 2,812,519, 11-12-57, Cl. 4—159.
- Parlant, Conrad A. Device for use in playing golf. 2,787,003, 4-2-57, Cl. 2—161.
- Parlant, Conrad A. Method of casting hollow articles in light metals or light metal alloys. 2,813,319, 11-19-57, Cl. 22—212.
- Parme, Harris B., to H & V Specialties Co., Inc., and P. Lorillard Co. Apparatus for and method of making filters. 2,793,572, 5-28-57, Cl. 93—1.
- Parmer, Delphin J. Flexible comb. 2,792,007, 5-14-57, Cl. 132—162.
- Parmlter, Hope & Sugden Ltd.: *See*—
Sugden, Eric W. 2,816,988.
Sugden, Eric W. 2,816,989.
- Parodi, Federico A. Apparatus for vacuum sealing bottles with crown caps. 2,810,244, 10-22-57, Cl. 53—88.
- Paroselite, Cayetano F. Funnels with automatic sealing. 2,818,090, 12-31-57, Cl. 141—201.
- Parr, Bernard F., and F. W. Perl, to Westinghouse Electric Corp. Cooking apparatus. 2,795,183, 6-11-57, Cl. 99—421.
- Parr, Edward L. Thermostatic switch for electric heaters. 2,785,252, 3-12-57, Cl. 200—138.
- Parr, Frank T.: *See*—
Ernst, Wentworth A., Parr, Evans, and Lee. 2,813,047.
- Parre, Edwin: *See*—
Callahan, William H., and Parre. 2,802,599.
- Parrett, Dent, to Lambert Brake Corp. Self-energizing disc clutch. 2,786,561, 3-26-57, Cl. 192—69.
- Parrett, John T. Speed changing mechanism. 2,815,685, 12-10-57, Cl. 74—798.
- Parrish, Alan J. Earth boring auger section and cutter. 2,815,192, 12-3-57, Cl. 255—69.
- Parrish, Albert D., 45% to C. Gilger, 10% to B. Horn, 10% to E. H. Linville, and 10% to S. Manker. Revolving shotgun. 2,780,144, 2-5-57, Cl. 89—158.
- Parrish, Charles R., to Loxgreen Co., Inc. Frameless window screens. 2,802,525, 8-13-57, Cl. 160—328.
- Parrish, John D.: *See*—
Middleton, James G., and Parrish. 2,777,266.
- Parrish, Norman C.: *See*—
MacCauley, Wilbur J., and Parrish. 2,806,483.
- Parrish, Walter A., Jr.: *See*—
Shallenberg, Robert L., and Parrish. 2,790,432.
- Parrish, William F., to Superior Sheet Metal Works Co., Inc. Trash burner. 2,814,263, 11-26-57, Cl. 110—18.
- Parriss, Walter H., and T. J. Anderson, to The British Thomson-Houston Co. Ltd. High altitude electrical brush lubrication. 2,805,350, 9-3-57, Cl. 310—228.
- Parrott, S. H.: *See*—
Dykes, Robert L. 2,785,779.
- Parry, Frank, to The Singer Mfg. Co. Feeding mechanisms for sewing machines. 2,787,232, 4-2-57, Cl. 112—213.
- Parry, Frank, to The Singer Mfg. Co. Self aligning take-up links. 2,790,406, 4-30-57, Cl. 112—241.
- Parry, Frank, to The Singer Mfg. Co. Sewing machine lubrication. 2,791,193, 5-7-57, Cl. 112—256.
- Parry, Frank, to The Singer Mfg. Co. Feed adjusting mechanisms for sewing machines. 2,794,408, 6-4-57, Cl. 112—210.
- Parry, Frank, and E. F. Dunn, to The Singer Mfg. Co. Sewing machine work supports. 2,808,796, 10-8-57, Cl. 112—260.
- Parry, Harvey L.: *See*—
De Hoff, Ronald, and Parry. 2,801,229.
- Parry, Lucille S. Boat anchor. 2,791,982, 5-14-57, Cl. 114—208.
- Parschin, Alexander: *See*—
Tunberg, Gustav V., Jørgensen, Parschin, and Edman. 2,781,817.
- Parsec Co., The: *See*—
Hayes, Gordon B. 2,783,924.
- Parsell, Kendrick T. Lighter. 2,801,532, 8-6-57, Cl. 67—7.1.
- Parshall, Ralph E. Armrest for vehicle window sills. 2,777,730, 1-15-57, Cl. 296—49.2.
- Parsi, Edgardo: *See*—
Potter, William, and Parsi. 2,785,955.
- Parsley, Vernon A. Electric lock. 2,800,348, 7-23-57, Cl. 292—201.
- Parslow, Archibald J., to Gestetner Ltd. Stencils for duplicating machines. 2,790,382, 4-30-57, Cl. 101—128.2.
- Parsons, C. A., & Co. Ltd.: *See*—
Gray, Thomas. 2,812,140.
Hrynyszak, Waldemar. 2,795,109.
Hrynyszak, Waldemar. 2,803,438.
- Parsons, Chauncey L., to the United States of America as represented by the Secretary of the Navy. Translator drive. 2,788,485, 4-9-57, Cl. 324—43.
- Parsons, Edgar S., to Roxbury Carpet Co. Brake means for tufting-vari spool. 2,800,146, 7-23-57, Cl. 139—10.
- Parsons, Edwin D., to Phillips Petroleum Co. Water treatment. 2,786,529, 3-26-57, Cl. 166—7.
- Parsons, Floyd B., to Specialties Development Corp. Moisture separator. 2,803,310, 8-20-57, Cl. 183—42.
- Parsons, Hubert J., to Hardinge Brothers, Inc. Feed chucks. 2,786,637, 3-26-57, Cl. 279—23.
- Parsons, James R.: *See*—
Berger, Donald E., and Parsons. 2,806,144.
Fluegel, Dale A., and Parsons. 2,805,311.
- Parsons, James R., and R. W. Macaulay, to General Electric Co. Combustion chamber having improved air inlet means. 2,782,597, 2-26-57, Cl. 60—39.65.
- Parsons, John B. Switch mechanism. 2,793,259, 5-21-57, Cl. 200—6.
- Parsons, John R., to Westinghouse Electric Corp. Heat control for frequency converter control. 2,780,750, 2-5-57, Cl. 315—144.
- Parsons, John W., to Aerojet-General Corp. Propellant compositions. 2,783,138, 2-26-57, Cl. 52—0.5.
- Parsons, Leonard R. Prune tray cleaner. 2,802,227, 8-13-57, Cl. 15—93.
- Parsons and Marine Engineering Turbine Research and Development Assn., The: *See*—
Darling, Robert F. 2,777,291.
Terrell, Basil J., and Darling. 2,801,076.
Walker, Vincent. 2,815,926.
- Parsons, Ralph M., Co., The: *See*—
Ware, William H., Jr. 2,787,850.
- Parsons, Robert: *See*—
Eannarino, George, and Parsons. 2,794,943.
- Parsons, Roy A., to United States Steel Corp. Shield and feed control for mining machine of the screw auger type. 2,810,566, 10-22-57, Cl. 262—26.
- Parsons, Wallace E., to Keyes Fibre Co. Tray for fragile articles. 2,813,652, 11-19-57, Cl. 217—26.5.
- Parsons, William A.: *See*—
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- Parsons, William F.: *See*—
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- Patrol Valve Co., The: *See*—
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- Patterson, William M. Adjustable chair. 2,797,738, 7-2-57, Cl. 155-88.
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- Paulding, John L., Inc.: *See*—
- Bettencourt, Theodore R. 2,807,683.
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- Roberts, Leonard C. 2,802,378.
- Paule, Kurt: *See*—
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- Paul-Hahne, Henry, to The British Electric Resistance Co. Ltd. Knob. 2,801,119, 7-30-57, Cl. 287-53.
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- Paulius, John A., Jr., and P. E. Roush, to Crane Co. Pivotal bracket. 2,776,810, 1-8-57, Cl. 248-279.
- Paulius, John A., Jr., G. Brown, Jr., and F. D. Cotterman, to Crane Co. Valve actuating mechanism or the like. 2,784,934, 3-12-57, Cl. 251-265.
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- Paulson, Iven. Boat trailer platform construction for transporting an inverted boat. 2,792,237, 5-14-57, Cl. 280-414.
- Paulson, Russell E.: See—
- Simmons, Richard G., and Paulson. 2,785,714.
- Paulucci, Jeno F. Method of making canned Chinese food. 2,801,929, 8-6-57, Cl. 99-182.
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- Pausch, Charles B. Locking mechanism for a pipe mold structure. 2,814,848, 12-3-57, Cl. 25-126.
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- Pavelka, Joseph, Jr. Deep pan cooker. 2,778,920, 1-22-57, Cl. 219-43.
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- Pavlicek, William. Wheel chair. 2,781,080, 2-12-57, Cl. 155-30.
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- Pavlinetz, George. Method of making winged cap nuts. 2,812,527, 11-12-57, Cl. 10-86.
- Pavnic, Cyril A.: See—
- Talbot, Richard C., and Pavnic. 2,781,119.
- Pawel, Hans E.: See—
- Doering, Robert J., Kleinfelder, and Pawel. 2,788,385.
- Pawela, Albert C. Fertilizer distributor. 2,813,722, 11-19-57, Cl. 275-8.
- Pawelka, Gustav J., to Fairhaven Properties Corp. Display sign or similar article. 2,809,453, 10-15-57, Cl. 40-125.
- Pawlak, Anthony E., to W. H. Miner, Inc. Combined latch means and door fasteners for hinge supported door structures. 2,788,067, 4-9-57, Cl. 160-181.
- Pawley, Myron G., to The United States of America as represented by the Secretary of the Navy. Multiplex communication system. 2,816,169, 12-10-57, Cl. 179-15.
- Pawley, Myron G., L. L. Parker, and W. A. Hereth, to the United States of America as represented by the Secretary of the Navy. Telemetering in-flight calibrator. 2,786,103, 3-19-57, Cl. 200-27.
- Pawley, Myron G., and J. M. Sacks, to Zenith Radio Corp. Subscription television system. 2,816,156, 12-10-57, Cl. 178-5.1.
- Pawling, Frank, to Trabon Engineering Corp. Lubricating system and sequence valve therefor. 2,794,518, 6-4-57, Cl. 184-7.
- Pawling Rubber Corp.: See—
- Bedics, Michael A. 2,794,221.
- Pawlowski, Frank L., to Motorola, Inc. Receiver circuit. 2,808,507, 10-1-57, Cl. 250-20.
- Pawlowski, Walter F. Syringe. 2,781,759, 2-19-57, Cl. 128-241.
- Pawlyk, Peter, to The Commonwealth Engineering Co. of Ohio. Process of providing a controlled atmosphere containing a heat decomposable metal compound. 2,780,553, 2-5-57, Cl. 106-1.
- Pawlyk, Peter, to The Commonwealth Engineering Co. of Ohio. Apparatus for gas plating continuous lengths of material. 2,785,651, 3-19-57, Cl. 118-49.
- Pawlyk, Peter, to The Commonwealth Engineering Co. of Ohio. Apparatus for plating the interior of hollow objects. 2,792,806, 5-21-57, Cl. 118-48.
- Pawsut, Ruben L. Bicycle pedal. 2,814,213, 11-26-57, Cl. 74-594.4.
- Pawsut, Ruben L. Bicycle stabilizer. 2,817,540, 12-24-57, Cl. 280-293.
- Paxton, Dewey M.: See—
- Shuck, Wayne L., and Paxton. 2,811,852.
- Paxton, Gerald C., to General Nailing Machine Corp. Box-part assembling and nailing machine. 2,787,789, 4-9-57, Cl. 1-127.
- Paxton, Marion K. Frozen pre-rolled dough product. 2,784,103, 3-5-57, Cl. 99-172.
- Paxton, Worthen, to Airkem, Inc. Vapor diffusers. 2,783,084, 2-26-57, Cl. 299-24.
- Payant, Remi J., Napkin. 2,803,574, 8-20-57, Cl. 154-53.5.
- Payne, Charles F. Transportation equipment. 2,789,708, 4-23-57, Cl. 214-84.
- Payne, Clifford M., to Iron Fireman Mfg. Co. Low energy thermostat. 2,788,415, 4-9-57, Cl. 200-122.
- Payne, Franke E., and P. T. Haake, to Crane Packing Co. Rotary mechanical seal and method of assembling the same. 2,815,967, 12-10-57, Cl. 286-11.
- Payne, George B.: See—
- Smith, Curtis W., Norton, and Payne. 2,808,442.
- Smith, Curtis W., and Payne. 2,786,854.
- Payne, George B., to Shell Development Co. Process for preparing lactams and amides. 2,817,646, 12-24-57, Cl. 260-78.3.
- Payne, George B., and C. W. Smith, to Shell Development Co. Oxidation with peroxides. 2,776,301, 1-1-57, Cl. 260-348.5.
- Payne, George B., and C. W. Smith, to Shell Development Co. Unsaturated esters of epoxy-substituted polycarboxylic acids and polymers. 2,783,250, 2-26-57, Cl. 260-348.
- Payne, Gloria G. Shoe display device. 2,817,443, 12-24-57, Cl. 211-34.
- Payne, Harold S.: See—
- Landis, George G., and Payne. 2,778,910.
- Landis, George G., and Payne. 2,790,925.
- Payne, Harold S., to The Lincoln Electric Co. Arc welding process and apparatus for use therein. 2,776,363, 1-1-57, Cl. 219-124.
- Payne, Harold S. Means and method for improving the starting of an electric arc. 2,797,352, 6-25-57, Cl. 314-39.
- Payne, John H.: See—
- Hurwitz, Henry, Jr., Brooks, Mannal, Payne, and Luebke. 2,799,642.
- Payne, John H., W. Kenda, and H. I. Mahon, to Hawaiian Development Co., Ltd. Process for the separation of pith and fiber components of bagasse. 2,805,156, 9-3-57, Cl. 92-14.
- Payne, John W., to Socony Mobil Oil Co., Inc. Method for purifying liquid hydrocarbons with solid adsorbents. 2,781,301, 2-12-57, Cl. 196-147.
- Payne, John W., and J. E. Penick, to Socony Mobil Oil Co., Inc. Method for removing liquids from granular solids. 2,813,352, 11-19-57, Cl. 34-10.
- Payne, John W., and C. C. Stapleford, to Socony Mobil Oil Co., Inc. Method and apparatus for feeding granular contact material into a dilute phase pneumatic lift. 2,813,755, 11-19-57, Cl. 302-52.
- Payne, Leonard R.: See—
- Chambers, John M., and Payne. 2,782,703.
- Senkowski, Alexander, Payne, and Ferguson. 2,780,159.
- Payne, Luis A. C. Laceless bodice. 2,786,205, 3-26-57, Cl. 2-42.
- Payne, Lyle L.: See—
- Cunningham, Robert A., Morlan, and Payne. 2,802,643.
- Payne, Mildred A.: See—
- Payne, Richard E. 2,812,529.
- Payne, Richard E. 2,818,299.
- Payne, Richard E., 50% to M. L. O'Harra and E. M. O'Harra, and 50% to R. E. Payne and M. A. Payne. Loose paint removing brush. 2,812,529, 11-12-57, Cl. 15-23.
- Payne, Richard E., 50% to M. A. Payne and said R. E. Payne, and 50% to M. L. and E. M. O'Harra. Portable pavement marker. 2,818,299, 12-31-57, Cl. 299-43.
- Payne, Robert E., and A. C. Lavanchy, to The Sharples Corp. Classification process and apparatus. 2,796,173, 6-18-57, Cl. 209-144.
- Payne, William E. System for supplying water to an animal watering vessel. 2,793,653, 5-28-57, Cl. 137-403.
- Payne, William F.: See—
- Barrett, Hillard E., and Payne. 2,780,062.
- Payson, Peter: See—
- Schemp, Reinhold, Payson, and Chow. 2,799,577.
- Payson, Peter, to Crucible Steel Co. of America. Alloy steel and articles thereof. 2,805,942, 9-10-57, Cl. 75-126.
- Payson, Peter, and L. F. Bowne, Jr., to Crucible Steel Co. of America. Hard facing alloy. 2,783,144, 2-26-57, Cl. 75-171.
- Payzant, Henry H., to Timber Structures, Inc. Drilling machine. 2,796,897, 6-25-57, Cl. 144-92.
- Paz, Harold J., to Radio Corp. of America. Semi-conductor modulation circuits. 2,810,110, 10-15-57, Cl. 332-52.

- Peabody, Duane: *See*—
Fluke, Jefferson M., Albertson, and Peabody. 2,814,898.
- Peabody Seating Co., Inc. The: *See*—
Lambert, Charles G. 2,801,683.
- Peabody, William H. Pan lifter. 2,802,688, 8-13-57, Cl. 294—34.
- Peach, Jack H. Hypodermic needle guard. 2,799,272, 7-16-57, Cl. 128—221.
- Peacock, Alton E.: *See*—
Scott, Milton J., and Peacock. 2,806,020.
- Peacock, Virgil E. Rolled trailer awning retaining devices. 2,802,524, 8-13-57, Cl. 160—323.
- Peak, Charles, $\frac{1}{2}$ to R. J. Weiss, $\frac{1}{2}$ to S. Morrison, $\frac{1}{2}$ to W. Byrne, $\frac{1}{2}$ to J. E. Haggerty, $\frac{1}{2}$ to E. D. Flintermann and $\frac{1}{2}$ to J. M. Kisselle. Method and apparatus for improving combustion in boilers and the like. 2,793,599, 5-28-57, Cl. 110—1.
- Peak, Vaughn E.: *See*—
Bach, John H., Peak, and Maier. 2,792,758.
- Pear, Charles B., Jr., to the United States of America as represented by the Secretary of the Army. Echo simulator. 2,781,511, 2-12-57, Cl. 343—17.7.
- Pearce, Ben: *See*—
Pearce, Mimi S. and B. 2,807,859.
- Pearce, Calvin D., to International Smelting and Refining Co. Splash control means for casting copper cakes. 2,810,170, 10-22-57, Cl. 22—139.
- Pearce, Calvin D., to International Smelting and Refining Co. Copper cake mold. 2,811,759, 11-5-57, Cl. 22—139.
- Pearce, Charles R. Cardboard dish. 2,789,749, 4-23-57, Cl. 229—30.
- Pearce Development Co.: *See*—
Pearce, Lewis C. 2,788,208.
- Pearce, Frank G., to Pan American Petroleum Corp. Process for partial oxidation of hydrocarbons in the liquid phase. 2,813,889, 11-19-57, Cl. 260—451.
- Pearce, Frank G., to Pan American Petroleum Corp. Process for manufacture of acetylene. 2,813,919, 11-19-57, Cl. 260—679.
- Pearce, George C., to General Motors Corp. Slotted switch position indicator. 2,782,403, 2-19-57, Cl. 340—252.
- Pearce, George C., to General Motors Corp. Domestic appliance. 2,801,325, 7-30-57, Cl. 219—43.
- Pearce, George C., to General Motors Corp. Domestic appliances. 2,815,428, 12-3-57, Cl. 219—20.
- Pearce, James G., and H. T. V. Foster, to Automatic Telephonic & Electric Co. Ltd. High-speed hunting circuits. 2,810,098, 10-15-57, Cl. 315—84.5.
- Pearce, Jesse P. Refrigerating and humidifying apparatus for foods. 2,787,892, 4-9-57, Cl. 62—102.
- Pearce, John W. Fishing rod holder. 2,803,387, 8-20-57, Cl. 224—5.
- Pearce, Kenneth, to The B. F. Goodrich Co. Journal bearing assembly. 2,806,749, 9-17-57, Cl. 308—238.
- Pearce, Lewis C., to S. Rosenthal. Apparatus for shade marking. 2,783,993, 3-5-57, Cl. 270—1.
- Pearce, Lewis C., to Pearce Development Co. Machine for producing multiple printed forms. 2,788,208, 4-9-57, Cl. 270—1.
- Pearce, Mimi S. and B. Design forming device. 2,807,859, 10-1-57, Cl. 28—2.
- Pearce, William L. Drill stem valve. 2,799,292, 7-16-57, Cl. 137—498.
- Pearcy, Myrtle S. Frying pan covers. 2,790,436, 4-30-57, Cl. 126—384.
- Pearl, Benjamin H. Convertible high chair swing. 2,779,389, 1-29-57, Cl. 155—38.
- Pearl, Daniel M., to Darwin Products, Inc. Bicycle balancer. 2,776,845, 1-8-57, Cl. 280—304.
- Pearl, Daniel M., to Darwin Products Inc. Bicycle balancer construction. 2,784,008, 3-5-57, Cl. 280—304.
- Pearl, David R., and S. G. Best, to United Aircraft Corp. Turbine engine fuel control using a final electrical signal for proportionally moving a single throttle valve. 2,796,733, 6-25-57, Cl. 60—39.28.
- Pearl, Donald C., to R. T. Moloney. Control and counter actuating mechanism. 2,818,213, 12-31-57, Cl. 235—92.
- Pearl, Eugene J., to Henderson Welding Works, Inc. Dual vehicle supported drilling rig. 2,817,495, 12-24-57, Cl. 255—51.
- Pearl Varnish Co. Ltd.: *See*—
Katz, Siegbert, and Kut. 2,804,437.
- Pearle, Leon: *See*—
Platzman, Michael M. 2,785,395.
- Pearlman, Harry, L. Silverman, and C. A. Smith, to the United States of America as represented by the United States Atomic Energy Commission. Coating a carbonaceous surface with rhenium. 2,778,786, 1-22-57, Cl. 204—37.
- Pearlman, Philip. Safety lock for spectacle eye wires. 2,795,999, 6-18-57, Cl. 88—47.
- Pearlson, Wilbur H.: *See*—
Rendall, John L., and Pearlson. 2,795,601.
- Pearne, Florentin J. T-V program selector. 2,803,075, 8-20-57, Cl. 40—68.
- Pearne & Lacy Machine Co.: *See*—
Rossier, John D. 2,795,027.
Rossier, John D. 2,795,028.
- Pearsall, Roy E. Cam actuated movable jaw wrench. 2,808,752, 10-8-57, Cl. 81—361.
- Pearson, Arald B.: *See*—
Few, William, and Pearson. 2,798,925.
- Pearson, Arald B., and W. Few, to The Clark Controller Co. Limit switches. 2,806,912, 9-17-57, Cl. 200—47.
- Pearson, Arthur W. Junk fishing tool. 2,787,327, 4-2-57, Cl. 166—99.
- Pearson, Ben, Inc.: *See*—
Bramblett, John J. 2,783,918.
Pearson, Ben. 2,813,818.
- Pearson, Ben, to Ben Pearson, Inc. Method of making a demountable bow. 2,813,818, 11-10-57, Cl. 154—110.
- Pearson, Bernard A.: *See*—
Ederer, Arthur F., and Pearson. 2,790,483.
- Pearson, Charles, Jr.: *See*—
Glass, Marvin L., and Pearson. 2,805,064.
- Pearson, Donald L., to General Electric Co. Apparatus for manufacture of a quartz-to-metal foil press seal. 2,816,398, 12-17-57, Cl. 49—2.
- Pearson, Donald M. Portable percussion device. 2,776,539, 1-8-57, Cl. 60—62.5.
- Pearson, Edward P., and S. Rusoff, to Basic, Inc. Magnesia refractories. 2,814,567, 11-26-57, Cl. 106—62.
- Pearson, Edward P., and S. Rusoff, to Basic, Inc. Refractory compositions. 2,814,568, 11-26-57, Cl. 106—62.
- Pearson, Eugene W., to Pacific Industrial Mfg. Co. Precision depth stop for press brakes or the like. 2,793,584, 5-28-57, Cl. 100—256.
- Pearson, Eugene W., and R. A. Richardson, to Pacific Industrial Mfg. Co. Hydraulic hold-down for reciprocating ram. 2,781,844, 2-19-57, Cl. 164—51.
- Pearson, Frank A., to Eagle Signal Corp. Stepping switch apparatus. 2,784,276, 3-5-57, Cl. 200—105.
- Pearson, Frank A., to Beckman Instruments, Inc. Electrophoresis apparatus. 2,817,264, 12-24-57, Cl. 88—14.
- Pearson, Frank A., C. R. Schwieters, and G. L. Rambo, to Eagle Signal Corp. Automatic switch controllers. 2,815,410, 12-3-57, Cl. 200—38.
- Pearson, Gerald L.: *See*—
Chapin, Daryl M., Fuller, and Pearson. 2,780,765.
- Pearson, Gerald L., to Bell Telephone Laboratories, Inc. Silicon power rectifier. 2,811,682, 10-29-57, Cl. 317—240.
- Pearson, Gerald L., to Bell Telephone Laboratories, Inc. Photo-resistance device. 2,812,446, 11-5-57, Cl. 250—211.
- Pearson, Harold B.: *See*—
Woodruff, Oscar G. 2,812,155.
- Pearson, Harold C.: *See*—
Rataiczak, Francis I., and Pearson. 2,794,323.
- Pearson, Howard A., to Leonard Window Corp. Awning-type window and operating means therefor. 2,778,630, 1-22-57, Cl. 268—23.
- Pearson, Hugh C. R.: *See*—
Webster, James G., and Aldred. 2,781,947.
- Pearson, John H.: *See*—
Miller, Charles B., Pearson, and Smith. 2,802,887.
- Pearson, Murble H. Surgical clamp. 2,796,867, 6-25-57, Cl. 128—346.
- Pearson, Olaf. Externally located adjustable door hanger. 2,786,227, 3-26-57, Cl. 16—105.
- Pearson, Paul A., to The Board of Trustees of The Leland Stanford, Jr. University. Pulse forming network discharge switch. 2,818,527, 12-31-57, Cl. 315—36.
- Pearson, Paul E., to Continental Can Co., Inc. Apparatus for stripping the inside of the side seam of a can body. 2,798,456, 7-9-57, Cl. 118—317.
- Pearson, Ralph G., to Clayton Mfg. Co. Ion exchange method and apparatus. 2,788,319, 4-9-57, Cl. 204—151.
- Pearson, Ralph G., to Clayton Mfg. Co. Electrolytic deionization. 2,794,777, 6-4-57, Cl. 204—151.
- Pearson, Ralph G., to Clayton Mfg. Co. Electrolytic regeneration of ion exchange resins. 2,812,300, 11-5-57, Cl. 204—151.
- Pearson, Reinhold A., and B. Weremiczky. Machine for setting up collapsed cardboard cartons. 2,780,148, 2-5-57, Cl. 93—53.
- Pearson, Robert D., to Heli-Coil Corp. Hose coupling with rigid threads molded therein. 2,804,320, 8-27-57, Cl. 285—392.
- Pearson, Roy W.: *See*—
Hansen, Hans H., and Pearson. 2,800,572.
- Pearson, Walter C. Bowl retriever. 2,817,405, 12-24-57, Cl. 171—63.
- Pearson, Warren R., to Borg-Warner Corp. Device for storing frozen food packages. 2,776,792, 1-8-57, Cl. 224—45.
- Pearson, William S., to Clifton Conduit Co., Inc. Cooling and driving a marking wheel for freshly coated wire. 2,815,710, 12-10-57, Cl. 101—37.
- Pease, C. F. Co., The: *See*—
Taini, John. 2,804,304.
- Pease, Donald C.: *See*—
Larchar, Arthur W., and Pease. 2,816,883.
- Pease, F. B. Co.: *See*—
Ganze, Ronald A. 2,808,864.
- Pease, George R.: *See*—
Le Grand, Pierre E., Pease, and Kihlgren. 2,798,824.
- Pease, Harry F.: *See*—
Dolza, John, and Pease. 2,779,422.
- Pease, Marshall C., to Sylvania Electric Products Inc. Tunable interdigital magnetrons. 2,816,248, 12-10-57, Cl. 315—39.55.

- Peasey, Philip R.: *See*—
Pettitt, Leslie E., and Peasey. 2,790,729.
- Peaslee, Robert L.: *See*—
Oliphant, Lester E., and Peaslee. 2,800,711.
- Peaslee, Robert V., and J. F. Haines, to C. F. Braun & Co. Propane recovery. 2,794,334, 6-4-57, Cl. 62—175.5.
- Pechin, Rene G., Jr. Clutch element for starting devices for gasoline engines. 2,804,957, 9-3-57, Cl. 192—107.
- Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques: *See*—
Frej Jacques, Jean L. M. 2,778,733.
Grunert, Erhard. 2,776,884.
Mathieu, Francois. 2,813,617.
Seon, Marius, and Leleu. 2,782,226.
Wetroff, Georges, and Raitzyn. 2,795,622.
- Pechukas, Alphonse, to Columbia-Southern Chemical Corp. Silica pigment and method of preparing same. 2,805,956, 9-10-57, Cl. 106—288.
- Pechy, William, to American Can Co. Clutch mechanism. 2,781,118, 2-12-57, Cl. 192—150.
- Pechy, William, to American Can Co. Apparatus for applying tape to containers. 2,795,264, 6-11-57, Cl. 154—42.3.
- Pechy, William, to American Can Co. Measuring chamber volume control for filling machine. 2,795,361, 6-11-57, Cl. 222—440.
- Pechy, William, to American Can Co. Machine for filling liquids into containers. 2,811,282, 10-29-57, Cl. 222—108.
- Pechy, William, to American Can Co. Machine for packing articles into cartons and the like. 2,814,922, 12-3-57, Cl. 53—153.
- Pechy, William, to American Can Co. Slitter element mountings for sheet slitting machines. 2,815,077, 12-3-57, Cl. 164—60.
- Peck, Alvin W., to Phillips Petroleum Co. Ammonia corrosion inhibitor feed system. 2,816,812, 12-17-57, Cl. 21—2.5.
- Peck, David B., to Sprague Electric Co. Electric circuit printing. 2,776,235, 1-1-57, Cl. 154—95.
- Peck, David B., to Sprague Electric Co. Printed resistors and inks. 2,795,680, 6-11-57, Cl. 201—63.
- Peck, David B., to Sprague Electric Co. Metallized film capacitors. 2,797,373, 6-25-57, Cl. 317—258.
- Peck, David B., R. A. Hammann, and H. W. Kirkpatrick, to Sprague Electric Co. Process for producing porous polytetrafluoroethylene film. 2,790,999, 5-7-57, Cl. 18—56.
- Peck, David B., to Sprague Electric Co. Artificial transmission line. 2,816,273, 12-10-57, Cl. 333—23.
- Peck, Earl R. Fruit or vegetable harvesting cart. 2,809,072, 10-8-57, Cl. 296—3.
- Peck, Guy C. Fishing bobber. 2,778,146, Cl. 43—43.11.
- Peck, Helen McL.: *See*—
Peck, Robert L., Shafer, and Wolf. 2,804,463.
- Peck, Jean R. Power drive transmission and propeller. 2,799,175, 7-16-57, Cl. 74—218.
- Peck, Joseph G. Material gripping and feeding device. 2,801,608, 8-6-57, Cl. 118—108.
- Peck, Leo G., to Peck's Products Co. Pump adapter for liquid containers. 2,818,201, 12-31-57, Cl. 222—382.
- Peck, Loyd L. Time delay switch for irrigation system. 2,786,418, 3-26-57, Cl. 103—25.
- Peck, Norman O., $\frac{3}{4}$ to W. H. Peck. Centrifugal separators. 2,796,990, 6-25-57, Cl. 210—370.
- Peck, Patrick H., Jr. Quick change fishing line floats. 2,778,147, 1-22-57, Cl. 43—44.91.
- Peck, Richard H. Aircraft light. 2,810,065, 10-15-57, Cl. 240—7.7.
- Peck, Richard V., and J. N. Stoddard, to California Research Corp. Apparatus for simultaneously drilling and casing shot holes. 2,784,942, 3-12-57, Cl. 255—19.
- Peck, Robert L., deceased (by H. McL. Peck, administratrix), H. M. Shafer, and F. J. Wolf, to Merck & Co., Inc. Beta-5-imino-2-pyrrolidone-carboxamido)-propamide. 2,804,463, 8-27-57, Cl. 260—326.3.
- Peck, William H.: *See*—
Peck, Norman O. 2,796,990.
- Peckett, Samuel C. Means for surfacing true surface articles. 2,788,617, 4-16-57, Cl. 51—34.
- Peckham, Lloyd R. Canning apparatus. 2,804,889, 9-3-57, Cl. 141—253.
- Peckham, Roy, and F. Elms. Weather strip. 2,787,033, 4-2-57, Cl. 20—69.
- Peckham, Roy E.: *See*—
Brown, Robert L., and Peckham. 2,787,493.
- Peckhover, Elisabeth. Cheese and butter slicer. 2,804,686, 9-3-57, Cl. 30—280.
- Peck's Products Co.: *See*—
Peck, Leo G. 2,818,201.
- Peddingtonhaus, Werner, and E. Funke. Guillotines for steel sections with automatically moving steel section knives. 2,818,114, 12-31-57, Cl. 164—40.
- Peden, Douglas T., to Micromatic Hone Corp. Elongated honing stone. 2,797,537, 7-2-57, Cl. 51—204.
- Pedersen, Dane H., to The Porter-Cable Machine Co. Rotatable cutting tool with detachable blade. 2,813,558, 11-19-57, Cl. 144—230.
- Pedersen, Edvard M., L. E. Leupe, and J. F. Balzer, to Marvic, Inc. Tool post construction. 2,811,886, 11-5-57, Cl. 82—37.
- Pedersen, George H., to Curtiss-Wright Corp. Bearing for contra-rotating shafts. 2,789,021, 4-16-57, Cl. 308—183.
- Pedersen, Harry: *See*—
Carlsen, Leonard O., Critchley, and Pedersen. 2,792,672.
- Pedersen, Harry, to The Gleason Works. Gaging device. 2,780,873, 2-12-57, Cl. 33—185.
- Pederson, Raymond L.: *See*—
Murray, Maxton F., Ott, and Pederson. 2,806,039.
- Pederson, Raymond L., R. P. Holysz, and A. C. Ott, to The Upjohn Co. Steroid production. 2,782,192, 2-19-57, Cl. 260—239.5.
- Pederson, Raymond L., and J. C. Babcock, to The Upjohn Co. Process for producing 10-hydroxy-4-estrenes. 2,806,862, 9-17-57, Cl. 260—397.
- Pedley, Eric L., and P., to Pedley-Knowles & Co. Rope net and method of making the same. 2,817,263, 12-24-57, Cl. 87—13.
- Pedley-Knowles & Co.: *See*—
Pedley, Eric L., and P. 2,817,263.
- Pedley, Philip: *See*—
Pedley, Eric L., and P. 2,817,263.
- Pedoussaut, Robert: *See*—
Cremer, Michel, and Pedoussaut. 2,806,943.
- Pedrick Tool and Machine Co.: *See*—
Shaw, Ralph M., Jr. 2,782,832.
Shaw, Ralph M., Jr. 2,784,761.
- Pedrochi, Giovan B., to Pirelli Sapsa Societa per Azioni. Sponge rubber upholstery. 2,788,061, 4-9-57, Cl. 155—179.
- Peebles, Benjamin W.: *See*—
Cogovan, Edward J., and Peebles. 2,790,225.
- Peebles, David D., to Foremost Dairies, Inc. Sterilizer. 2,817,593, 12-24-57, Cl. 99—214.
- Peebles, David D., and C. P. Turner, to Foremost Dairies, Inc. Centrifugal atomizer. 2,814,527, 11-26-57, Cl. 299—63.
- Peebles, Lester R.: *See*—
Harper, David, Peebles, and Swank. 2,788,147.
- Peebles, Roy M. Ripple remover. 2,792,049, 5-14-57, Cl. 153—54.
- Peed, Garland P., Jr., to North American Aviation, Inc. Control system ratio shift mechanism. 2,796,774, 6-25-57, Cl. 74—522.
- Peed, Garland P., Jr., to The United States of America as represented by the Secretary of the Air Force. Emergency release for pressure cabin door. 2,797,884, 7-2-57, Cl. 244—129.
- Peek, Johannes J. A., and J. M. Cluwen, to North American Phillips Co., Inc. Device for converting rotary motion into reciprocating motion or conversely. 2,790,095, 4-23-57, Cl. 310—103.
- Peek, Max, to Mix & Genest Aktiengesellschaft. On-edge conveyor system, particularly for the distribution of flat objects, such as letters or postcards. 2,799,385, 7-16-57, Cl. 198—84.
- Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Contact springs. 2,800,535, 7-23-57, Cl. 200—1.
- Peek, Roelof T. Disposable dust bag. 2,800,194, 7-23-57, Cl. 183—69.
- Peek, Sanford C., Jr., to Sylvania Electric Products, Inc. Electroluminescent image device. 2,818,531, 12-31-57, Cl. 315—166.
- Peek, Sanford C., Jr., and J. F. Waymouth, to Sylvania Electric Products Inc. Induction lamp. 2,776,391, 1-1-57, Cl. 313—161.
- Peele, Charles E. and E. H. Automatic meat hook assembly holder. 2,818,031, 12-31-57, Cl. 104—93.
- Peele, Escoe H.: *See*—
Peele, Charles E. and E. H. 2,818,031.
- Peele, Stephen. Pick-proof cylinder lock. 2,782,624, 2-26-57, Cl. 70—419.
- Peelers Co., The: *See*—
Lapeyre, Fernand S. and J. M. 2,785,435.
Lapeyre, Fernand S. and J. M. 2,815,117.
Lapeyre, Fernand S., J. M., and E. M. 2,778,055.
- Peeling, John E.: *See*—
Blucher, John W., Rubright, and Peeling. 2,799,318.
- Peeps, Donald J., to The De Vilbiss Co. Composite hose with temperature control. 2,778,609, 1-22-57, Cl. 257—241.
- Peeps, Donald J., to The De Vilbiss Co. Spray gun. 2,786,716, 3-26-57, Cl. 299—86.
- Peeps, Donald J., to The De Vilbiss Co. Air compressing unit. 2,812,895, 11-12-57, Cl. 230—58.
- Peerless Balance Co.: *See*—
Prosser, Dwight M. 2,792,597.
- Peerless Film Processing Corp.: *See*—
Krupa, Victor. 2,782,697.
- Peerless Instrument Co., Inc.: *See*—
Childs, Ulric J. 2,793,446.
- Peerless Roll Leaf Co.: *See*—
Grupe, William F. 2,784,133.
Grupe, William F., and Hanley. 2,806,077.
- Peerless Tube Co.: *See*—
Remington, Frederic, and Tartaglia. 2,800,872.
- Peery, Walter E., to Time, Inc. Justifying and character positioning apparatus for electronic photo-typecomposing system. 2,786,400, 3-26-57, Cl. 95—4.5.
- Peery, Walter E. Electronic photo-typecomposing system. 2,787,654, 4-2-57, Cl. 178—2.
- Peet, Charles S.: *See*—
Shilliday, Theodore S., Peet, and Middleton. 2,812,273.
- Peet, Nick P., to Esso Research and Engineering Co. Extractive distillation operation for preparation of catalytic cracking feed stocks. 2,777,802, 1-15-57, Cl. 196—49.

- Peets, Wilbur J., to The Singer Mfg. Co. Throat-plates with needle threading aid. 2,788,759, 4-16-57, Cl. 112-260.
- Pegel, Robert E., and K. A. Nelson. Method of making sails. 2,796,038, 6-18-57, Cl. 114-103.
- Pegg, James R., and L. H. Ray. Battery lock. 2,791,898, 5-14-57, Cl. 70-230.
- Pehr, Harold T. Combined salt and pepper shakers. 2,812,115, 11-5-57, Cl. 222-142.6.
- Pehrsson, Lennart A., and K. E. Svahn, to Aktiebolaget Karlstads Mekaniska Werkstad. Controllable pitch propeller. 2,794,508, 6-4-57, Cl. 170-160.32.
- Peickert, Clifford W.: *See*—
- Bretl, Norbert C. 2,782,550.
- Peierls, Edgar S., and I. D. Press, to Resistoflex Corp. Barrier hose and hose assembly. 2,800,145, 7-23-57, Cl. 138-25.
- Peifer, Albert G.: *See*—
- Bryant, John H., Peifer, and Willmarth. 2,800,603.
- Peiffer, Alfred M., H. C. Roeder, and O. Funk. Electronic safety appliances for vehicles and road and railway intersections. 2,784,795, 3-12-57, Cl. 180-82.
- Peirce, Charles P.: *See*—
- Steinbach, Emil C. 2,800,332.
- Peirce, Thomas H., to T. H. Peirce, d. b. a. H. A. King Co. Fan drive insulator assembly. 2,802,353, 8-13-57, Cl. 64-27.
- Peirce, Walter T., to United States Steel Corp. De-icing apparatus for electric cables. 2,798,344, 6-25-57, Cl. 307-147.
- Peirson, Harold T. Ventilator rain baffle for roof eaves. 2,780,978, 2-12-57, Cl. 98-37.
- Peissner, Alfons: *See*—
- Töpfer, Herbert, Ehrlicke, Brandstetter, and Peissner. 2,803,705.
- Pekora, Frank J. Detachable carrying device for paint and other cans. 2,781,221, 2-12-57, Cl. 294-31.2.
- Pekrul, Arthur F., to The New Britain Machine Co. Tool holder. 2,816,767, 12-17-57, Cl. 279-1.
- Pelfrey, Lowell S., to National Aircraft Corp. Three-element semi-conductor device. 2,790,089, 4-23-57, Cl. 250-217.
- Pelikan, George A., to Waugh Equipment Co. Coupler attachment. 2,815,865, 12-10-57, Cl. 213-61.
- Pelizzari, Charles A.: *See*—
- Love, Gordon W., and Pelizzari. 2,813,312.
- Pellarini, Luigi, and F. Rossetti. Elastic elements for elastic suspensions in general. 2,797,916, 7-2-57, Cl. 267-21.
- Pellat-Finet, Jean, to Societe Sovel-Vehicules Electriques Industriels. Apparatus for loading and ramming the materials in an enclosed space. 2,807,377, 9-24-57, Cl. 214-17.
- Pellegrini, John P., Jr.: *See*—
- Fareri, Elizabeth L., and Pellegrini. 2,812,341.
- Pellegrino, Samuel C. Adjustable tread for wheel and tire assemblies. 2,807,304, 9-24-57, Cl. 152-208.
- Pellegrino, Samuel C. Adjustable perforating punch assembly. 2,808,108, 10-1-57, Cl. 164-124.
- Pellegrino, Thomas D. Automobile signalling device. 2,800,545, 7-23-57, Cl. 200-61.89.
- Pellerano, Silvio A.: *See*—
- Gilbert, Everett E., Otto, and Pellerano. 2,782,112.
- Gilbert, Everett E., Otto, and Pellerano. 2,801,911.
- Pellerin Milnor Corp.: *See*—
- Pellerin, Norvin L., Phillips, and Levy. 2,779,937.
- Pellerin, Norvin L., A. J. Phillips, and F. X. Levy, to Pellerin Milnor Corp. Washing machine controller. 2,779,937, 1-29-57, Cl. 340-265.
- Pellerito, Philip A., and J. L. Milana. Sanitary dry-commode. 2,794,989, 6-11-57, Cl. 4-111.
- Pelletier, Normand R. Power tool reversible sprocket wheel. 2,799,174, 7-16-57, Cl. 74-216.5.
- Pellett, Fred G.: *See*—
- Hohl, John, and Pellett. 2,783,597.
- Pellett, Fred G., to Owens-Illinois Glass Co. Liquid container with drip prevention means. 2,789,740, 4-23-57, Cl. 222-571.
- Pellier, Christian V., to Burndy Corp. Electrical connector supporting feed strip. 2,815,124, 12-3-57, Cl. 206-59.
- Pellon, Louis A. Dust collector. 2,800,976, 7-30-57, Cl. 183-34.
- Pelot, Samuel B.: *See*—
- McNair, Hugh N., Pelot, and Eldredge. 2,780,493.
- Pelouch, James J., to Curtis Mfg. Co. Roller bearing automobile lift. 2,788,771, 4-16-57, Cl. 121-46.
- Pelsue, Henry F. G., Jr. Cross bow pistol. 2,786,461, 3-26-57, Cl. 124-25.
- Pelsue, Thurman A., and L. W. Braa, to The Morrison-Pelsue Co. Forced air ventilating heaters. 2,811,962, 11-5-57, Cl. 126-110.
- Peltcher, Charles H. Handle attachment for wrench head. 2,788,691, 4-16-57, Cl. 81-177.8.
- Peltrean Villeneuve, R. F. Marie, to Comptoir France Etranger. Dry-shaver with rotary blade. 2,809,424, 10-15-57, Cl. 30-43.
- Peltier, James E. Temporary support means for multi-wire cables. 2,791,389, 5-7-57, Cl. 248-55.
- Peltier, Maurice: *See*—
- De Rohden, Charles, and Peltier. 2,783,125.
- Pelton, Earl L.: *See*—
- Hadler, Bartholdt C., and Pelton. 2,810,676.
- Peltz, Gordon M., to American Safety Razor Corp. Blades for use with a razor and a dispenser devised therefor. 2,799,924, 7-23-57, Cl. 30-40.
- Pelzer, Harry L.: *See*—
- Fisher, Frank R., and Pelzer. 2,780,449.
- Pelzer, Harry L., to Sinclair Oil & Gas Co. Oil recovery process. 2,788,071, 4-9-57, Cl. 166-11.
- Pembroke Carton and Printing Co. Ltd.: *See*—
- Bayley, Frederick J. 2,801,578.
- Pemco Wheel Co.: *See*—
- Black, John W., Jr. 2,803,500.
- Black, John W., Jr. 2,818,302.
- Pempey, Albert J. Electric outlet fuse plug. 2,786,112, 3-19-57, Cl. 200-115.5.
- Penberthy, Harvey L. Electrode assembly. 2,798,892, 7-9-57, Cl. 13-17.
- Pence, Harry A., to J. H. Baxter & Co. Means for incising wooden poles and the like. 2,781,802, 2-19-57, Cl. 144-2.
- Pendergast, Raymond F. Sanding machine having means for preventing belt creeping. 2,813,382, 11-19-57, Cl. 51-135.
- Pendlebury, John A., to Dunlop Rubber Co. Ltd. Automatic braking system for aircraft. 2,776,027, 1-1-57, Cl. 188-181.
- Penick, Joe E.: *See*—
- Payne, John W., and Penick. 2,813,352.
- Penick, Joe E., and C. C. Stapleford, to Socony Mobil Oil Co., Inc. Catalytic alkylation and solvent extraction. 2,817,692, 12-24-57, Cl. 260-683.4.
- Penick, S. B., & Co., Inc.: *See*—
- Smith, Eric, and Haber. 2,816,118.
- Penitz, Ferdinand J., to United States Steel Corp. Crib for wire coil formed on stationary coiling block. 2,779,551, 1-29-57, Cl. 242-84.
- Penkala, Emil, $\frac{1}{2}$ to Metal Trim Ltd. Double extension slides. 2,805,106, 9-3-57, Cl. 308-3.8.
- Penlington, Thomas E., to Beresford & Son Ltd. Submersible electrically driven pumps. 2,777,961, 1-15-57, Cl. 310-86.
- Penlington, Thomas E., and B. Cooksley, to James Beresford & Son Ltd. Submersible electric motors. 2,798,173, 7-2-57, Cl. 310-86.
- Penman, Montgomery B., to The Magee Carpet Co. Apparatus for guiding and spreading a moving web of material. 2,806,694, 9-17-57, Cl. 271-2.6.
- Penn Aircraft Products, Inc.: *See*—
- Wolcott, Glenn W. 2,800,344.
- Penn, Alfred J., to D. Napier & Son Ltd. Gas producing apparatus of the gas turbine type. 2,796,732, 6-25-57, Cl. 60-39.17.
- Penn, Claude I., to General Electric Co. Control for dynamo-electric machine. 2,804,589, 8-27-57, Cl. 322-19.
- Penn Controls, Inc.: *See*—
- Cobb, Clifton A. 2,789,784.
- Kaminky, Oscar H. 2,789,173.
- Wilder, Justin E. 2,814,686.
- Penn, John E.: *See*—
- Greatbatch, William H., Jr., and Penn. 2,797,408.
- Penna, James. Vehicle warning light. 2,812,423, 11-5-57, Cl. 240-8.18.
- Pennant Corp.: *See*—
- Weiner, Meyer C. 2,818,192.
- Pennecot, Jean: *See*—
- Darcy, Georges, and Pennecot. 2,808,255.
- Pennell, Elmer V.: *See*—
- Creveling, Catherine B., and Pennell. 2,786,213.
- Penney, James H.: *See*—
- Muczenski, Henry, and Penney. 2,809,307.
- Penney, James H., to Westinghouse Electric Corp. Dynamo-electric machine. 2,798,974, 7-9-57, Cl. 310-60.
- Pennington, John T. Method of and apparatus for aerotriangulation with convergent photography. 2,791,151, 5-7-57, Cl. 88-24.
- Pennington, Neal A., $\frac{1}{2}$ to R. H. Henley, and $\frac{1}{4}$ to R. S. Hoar. Non-frosting heat exchanger. 2,792,071, 5-14-57, Cl. 183-2.
- Pennington, Neal A., $\frac{1}{2}$ to R. H. Henley, and $\frac{1}{4}$ to R. S. Hoar. Air-conditioner, including furnace. 2,807,258, 9-24-57, Cl. 126-113.
- Pennington, Rohe V.: *See*—
- Durant, Leonard C., Irvine, Pennington, and Surino. 2,803,540.
- Durant, Leonard G., Irvine, Pennington, and Surino. 2,809,111.
- Pennington, William A., and C. E. Watson, to Superior Railway Products Corp. Electrode support. 2,817,494, 12-24-57, Cl. 254-144.
- Pennino, Charles J., to The B. F. Goodrich Co. Method of preparing hexahalobenzenes. 2,802,037, 8-6-57, Cl. 260-650.
- Pennino, Charles J., to The B. F. Goodrich Co. Quaternary ammonium xanthates. 2,812,332, 11-5-57, Cl. 260-294.8.
- Penno, Glenn J. Gas fueled soldering irons. 2,807,317, 9-24-57, Cl. 158-26.
- Pennow, Willis A., to Westinghouse Electric Corp. Light unit. 2,817,069, 12-17-57, Cl. 340-25.

- Pennsalt Chemicals Corp.: *See*—
 Barr, John T. 2,813,848.
 Bell, Thomas R., and Haines. 2,812,370.
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 Hauptschein, Murray, and Braun. 2,802,010.
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 Lee, William M., and Muller. 2,805,964.
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- Pennsylvania Engineering Corp.: *See*—
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- Pennsylvania Papyrus Corp.: *See*—
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- Pennsylvania Railroad Co., The: *See*—
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- Pennsylvania Refining Co.: *See*—
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- Pennsylvania Salt Mfg. Co., The: *See*—
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 La Lande, William A., Jr., and Mockrin. 2,776,205.
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 McCoy, George, and Inman. 2,778,860.
 Neumoyer, Clifton R. 2,777,793.
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- Penny Plate, Inc.: *See*—
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- Penrod, Solomon: *See*—
 Cork, Herbert V., Jr. 2,811,792.
- Penrose, James R., to Pirelli-General Cable Works Ltd. Corrugated aluminum tube and electric cable employing the same as a sheath. 2,817,363, 12-24-57, Cl. 138-50.
- Pensak, Louis, to Radio Corp. of America. Pick-up tube with induced conductivity target. 2,776,387, 1-1-57, Cl. 313-65.
- Pensak, Louis, to United States of America as represented by the Secretary of the Army. Ultra high frequency electron discharge devices. 2,798,349, 6-25-57, Cl. 313-263.
- Pensak, Louis, to the United States of America as represented by the Secretary of the Army. Storage tube. 2,806,174, 9-10-57, Cl. 315-12.
- Pensak, Louis, to Radio Corp. of America. Television apparatus. 2,813,148, 11-12-57, Cl. 178-6.8.
- Pensak, Louis, A. C. Stocker, and F. D. Covey, III, to Radio Corp. of America. Voltage correction circuits. 2,794,122, 5-28-57, Cl. 250-27.
- Pensyl, Daniel S.: *See*—
 White, Gifford E., and Pensyl. 2,784,402.
- Penther, Carl J., to Shell Development Co. Jet impeller mixer. 2,816,744, 12-17-57, Cl. 259-134.
- People in the Territory of the United States, dedicated to the free use of the: *See*—
 Isaacs, Gerald W. 2,794,269.
 Rodriguez-Torrent, Ralph, and Fitzwater. 2,788,307.
 Walter, Homer E., Sadler, Malkames, and Mitchell. 2,796,531.
- Peoples, Harold J. Lever attachment for door knobs. 2,808,282, 10-1-57, Cl. 292-347.
- Pepin, Raoul J.: *See*—
 Sundberg, Carl W., and Pepin. 2,783,081.
- Pepin, Stephen C. Brush identifying means. 2,785,486, 3-19-57, Cl. 40-2.
- Peppard, Donald F., to the United States of America as represented by the United States Atomic Energy Commission. Protactinium extraction process. 2,789,878, 4-23-57, Cl. 23-14.5.
- Peppel, William J.: *See*—
 Bell, John B., Jr., and Peppel. 2,803,646.
- Pepper, Ernest W., 1/2 to Triangle Products Ltd. Instruments for drawing and measuring arcs. 2,810,961, 10-29-57, Cl. 33-27.
- Pepper, Martin: *See*—
 Becher, Harold, and Pepper. 2,809,624.
- Pepperdine, Ben, deceased, by D. Pepperdine, administratrix, to The Plomb Tool Co. Plier type, positionable fulcrum, parallel jaw wrench. 2,811,068, 10-29-57, Cl. 81-409.
- Pepperdine, Dora: *See*—
 Pepperdine, Ben. 2,811,068.
- Pepperrell Mfg. Co.: *See*—
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- Peppiatt, Edward G., and R. J. Wicker, to Howards of Ilford Ltd. Hydrogenation of isophorones to 3:3:5-trimethyl-cyclohexanols. 2,790,835, 4-30-57, Cl. 260-631.
- Pepping, Frederick J., and F. Guerra. Pressure feed fountain toothbrush. 2,814,816, 12-3-57, Cl. 15-138.
- Pera, John D., to Buckman Laboratories, Inc. Process for the production of alkali and alkaline-earth-metal salts of cyanodithioimidocarbonic acid. 2,816,136, 12-10-57, Cl. 260-500.
- Peragallo, Ferdinand L.: *See*—
 Domingo, Emil, and Peragallo. 2,798,215.
 Domingo, Emil, and Peragallo. 2,804,773.
- Péras, Lucien, to Regie Nationale des Usines Renault. Load compensating device for resilient suspensions. 2,782,049, 2-19-57, Cl. 280-124.
- Péras, Lucien, to Regie Nationale des Usines Renault. Transmission drives. 2,794,131, 5-28-57, Cl. 307-120.
- Péras, Lucien, to Regie Nationale des Usines Renault. Door locking device. 2,795,947, 6-18-57, Cl. 70-141.
- Péras, Lucien, to Regie Nationale des Usines Renault. Two-stroke engine having two opposed cylinders. 2,807,249, 9-24-57, Cl. 123-56.
- Péras, Lucien, to Regie Nationale des Usines Renault. Automatic clearance take-up device. 2,807,251, 9-24-57, Cl. 123-90.
- Péras, Lucien, to Regie Nationale des Usines Renault. Driving mechanism for tractors. 2,811,859, 11-5-57, Cl. 74-342.
- Péras, Lucien, to Regie Nationale des Usines Renault. Suspension assembly for maintaining vehicle body at a selected level independent of load. 2,815,221, 12-8-57, Cl. 280-124.
- Péras, Lucien J., to Regie Nationale des Usines Renault. Method of producing castings having high mechanical properties. 2,791,526, 5-7-57, Cl. 148-21.7.
- Perceptual Development Laboratories, Inc.: *See*—
 Stoyanoff, Louis J. 2,775,827.
- Percival, Isabel C., and J. E. Tierney, to E. J. Brooks Co. Breast tag. 2,794,278, 6-4-57, Cl. 40-3.
- Percival, Worth H., to General Motors Corp. Engine scavenging means. 2,778,348, 1-22-57, Cl. 123-65.
- Perdue, Robert J., to De Havilland Propellers Ltd. Anemo-electric power plants. 2,784,556, 3-12-57, Cl. 60-60.
- Perce, John, and T. La Salle. Shuffleboard. 2,791,429, 5-7-57, Cl. 273-126.
- Pereny, Louis: *See*—
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- Pereswetoff-Morath, Ivan G. M.: *See*—
 Stelling, Per O., and Pereswetoff-Morath. 2,780,537.
- Peretti, Leonard, to Arvey Corp. Display device. 2,782,538, 2-26-57, Cl. 40-96.
- Perez, Horacio E. Sway-counteracting arrangement for motor vehicles. 2,805,080, 9-3-57, Cl. 280-112.
- Perez, John B. Garbage can assembly. 2,789,723, 4-23-57, Cl. 220-67.
- Perez, John B. Industrial garbage can with support attachment. 2,814,409, 11-26-57, Cl. 220-4.
- Perez-Mendez, Victor: *See*—
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- Perfelite Co., The: *See*—
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 Jaffe, Joseph L. 2,805,328.
- Perfect Circle Corp.: *See*—
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 Brenneke, Arthur M. 2,813,524.
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- Perfect Knit Togs, Inc.: *See*—
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- Perfect-Line Mfg. Corp.: *See*—
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- Perfecting Service Co.: *See*—
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- Perfection Mfg. Corp.: *See*—
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- Perfex Gage and Tool Co.: *See*—
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- Perfogit Società per Azioni: *See*—
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 Münch, Werner, and Notarbartolo. 2,792,122.
 Münch, Werner, Notarbartolo, and Bruni. 2,811,410.
- Perforating Guns Atlas Corp.: *See*—
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- Perger, Ernst, to Firma Maschinenfabrik Rudolf Staehely. Device for the axial movement of profile-shapers in gear shaping machines. 2,802,402, 8-13-57, Cl. 90-4.
- Perham, John N., to Hero Mfg. Co., Inc. Knitting needle and methods of producing it. 2,817,221, 12-24-57, Cl. 66-117.
- Pérrillard, René, to Aktiengesellschaft Brown, Boveri & Cie. Lightning arrester. 2,778,974, 1-22-57, Cl. 315-36.
- Perilstein, Warren L.: *See*—
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- Perina, Joseph: *See*—
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- Perini, Victor. Loading and hauling machine. 2,793,775, 5-28-57, Cl. 214-522.
- Perinoni, Dominic, to Dix Mfg. Co. Fishing reels. 2,783,862, 3-5-57, Cl. 192-14.
- Perk, Karel J.: *See*—
 Bladergroen, Willem F., and Perk. 2,781,849.
- Perkal, Murray. Cutting template for linoleum, tile, and the like. 2,795,854, 6-18-57, Cl. 33-174.
- Perkin-Elmer Corp., The: *See*—
 Hering, Karl W. 2,783,421.
 Scott, Roderic M., and L. B. 2,792,742.
 Siegler, E. H., Jr., and Scott. 2,817,769.
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- Perkins, Albert G. Control unit for milking machines. 2,781,773, 2-19-57, Cl. 137-455.
- Perkins, Alfred J., to Perkins Pipe Linings, Inc. Tubing section remover. 2,786,486, 3-26-57, Cl. 137-561.
- Perkins, Artemas H.: *See*—
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- Perkins, B. F., & Son, Inc.: *See*—
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- Perkins, B. F., & Sons, Inc.: *See*—
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- Perkins, Blyde A., to Rockwell Mfg. Co. Polysulfide polymer sealant and lubricant. 2,818,384, 12-31-57, Cl. 252-23.
- Perkins, Charles M., to Fuller Mfg. Co. Shift actuated control device. 2,775,901, 1-1-57, Cl. 74-110.
- Perkins, Charles M., to Fuller Mfg. Co. Transmission control system. 2,778,247, 1-22-57, Cl. 74-745.
- Perkins, Charles M., to Fuller Mfg. Co. Change speed gearing. 2,794,348, 6-4-57, Cl. 74-745.
- Perkins, Charles M. Fuel injection mechanism for an internal combustion engine. 2,796,056, 6-18-57, Cl. 123-127.
- Perkins, Charles M. Fuel-injection system for internal-combustion engines. 2,796,058, 6-18-57, Cl. 123-139.
- Perkins, Charles M. Constant pressure mechanism. 2,816,531, 12-17-57, Cl. 123-48.
- Perkins, Cyrus C., Jones, and A. F. Roche, to The Dow Chemical Co. Devolatilizer for polymeric materials. 2,804,920, 9-3-57, Cl. 159-11.
- Perkins, Dowd B. Condensation eliminator for flush tanks. 2,808,211, 10-1-57, Cl. 235-12.
- Perkins, Earl S., to Butler Co. Navigational system. 2,801,051, 7-30-57, Cl. 235-61.
- Perkins, Edward W.: *See*—
Gauger, Roy C., and Perkins. 2,784,361.
- Perkins, George D.: *See*—
Robinson, Charles F., Langmuir, Brubaker, and Perkins. 2,780,729.
- Perkins, George D., to the United States of America as represented by the Secretary of the Navy. Artificial transmission line. 2,783,438, 2-26-57, Cl. 333-20.
- Perkins, George D., to the United States of America as represented by the Secretary of the Navy. Beacon system. 2,786,994, 3-26-57, Cl. 343-6.8.
- Perkins, Glen E., and A. J. Butler, to International Business Machines Corp. Multiple to unit entry card converter. 2,796,932, 6-25-57, Cl. 164-115.
- Perkins, Gordon O., to I-T-E Circuit Breaker Co. Centralized alternating current control source. 2,790,114, 4-23-57, Cl. 317-137.
- Perkins, Harley A., Jr., to Westinghouse Electric Corp. Flip-flop elements for control systems. 2,777,076, 1-8-57, Cl. 307-88.
- Perkins, Leroy C., and F. D. Reynolds, to Boeing Airplane Co. Repeating multipole selector relays. 2,795,773, 6-11-57, Cl. 240-147.
- Perkins Machine Co.: *See*—
Bleeze, Thomas M. 2,792,460.
- Perkins Marine Lamp & Hardware Corp.: *See*—
Murphy, William J. 2,789,635.
- Perkins, Melvin A., to E. I. du Pont de Nemours and Co. Process for producing copper-phthalocyanine precursor. 2,795,587, 6-11-57, Cl. 260-314.5.
- Perkins, Melvin A., to E. I. du Pont de Nemours and Co. Process for producing copper-phthalocyanine precursor. 2,795,588, 6-11-57, Cl. 260-314.5.
- Perkins, Melvin A., and M. S. Whelen, to E. I. du Pont de Nemours & Co. Production of copper-phthalocyanine precursor. 2,782,207, 2-19-57, Cl. 260-319.
- Perkins, Origen S., and W. F. Steffen, to Bucyrus-Erie Co. Pull shovel excavator. 2,812,872, 11-12-57, Cl. 214-510.
- Perkins Pipe Linings, Inc.: *See*—
Perkins, Alfred J. 2,786,486.
- Perkins, Reginald L.: *See*—
Leviton, Leo, and Perkins. 2,805,905.
- Perkins, Robert M.: *See*—
Demarest, Daniel D., Perkins, Karius, and Berendt. 2,775,784.
Demarest, Daniel D., Perkins, Karius, and Berendt. 2,791,797.
Demarest, Daniel D., Perkins, Karius, and Berendt. 2,799,892.
- Perkins, Walter T., Jr.: *See*—
Curran, Charles V., and Perkins. 2,789,421.
- Perkins, William C.: *See*—
Brandt, William C., Couillard, Jacobson, Martin, and Perkins. 2,808,564.
- Perks, Joseph, and W. H. Bishop, to Weathershields Ltd. Roof ventilators for motor coaches and like vehicles. 2,810,334, 10-22-57, Cl. 98-9.
- Perl, Frederick W.: *See*—
Parr, Bernard F., and Perl. 2,795,183.
- Perl, Henry J.: *See*—
Houska, Lawrence, Cole, and Perl. 2,788,180.
- Perla, Martin R., to The Singer Mfg. Co. Ornamental stitch sewing machines. 2,810,360, 10-22-57, Cl. 112-158.
- Perlaki, Nándor, to "Licencia" Talalmanyokát Ertekesito Vallalat. Elastic thread-cutting die with automatic adjustment. 2,799,028, 7-16-57, Cl. 10-111.
- Perle, Abe J.: *See*—
Bragman, Clifford I., and Perle. 2,818,145.
- Perlin, Fred, to The Parker Pen Co. Lighters. 2,779,180, 1-29-57, Cl. 67-7.1.
- Perlin, Fred, to The Parker Pen Co. Lighters. 2,780,085, 2-5-57, Cl. 67-7.1.
- Perlin, Fred, to The Parker Pen Co. Self-contained developing unit. 2,781,708, 2-19-57, Cl. 95-90.5.
- Perlin, Fred, to Grafex, Inc. Flash synchronizing for stereo-camera. 2,807,990, 10-1-57, Cl. 95-11.5.
- Perlis, David B.: *See*—
Hersey, Henry J., Jr., and Perlis. 2,796,146.
McGrane, Norman M., and Perlis. 2,818,136.
- Perlitz, Robert H., trustee: *See*—
Bloxsom, Allan P. 2,810,384.
- Perlman, Jacob L., to B. T. Babbitt, Inc. Ammonia-containing detergents. 2,801,978, 8-6-57, Cl. 252-137.
- Perlman, Robert R. Reduction of distortion in amplifying systems. 2,807,665, 9-24-57, Cl. 179-1.
- Permacel Le Page's Inc.: *See*—
Bergstedt, Milton A. 2,818,169.
Bergstedt, Milton A., and Keys. 2,818,349.
- Permacel Tape Corp.: *See*—
Frantz, Verne L. 2,799,596.
Lavanchy, Patricia B. 2,795,515.
- Permachem Corp.: *See*—
Stokes, Thomas A., Jr., and Davis. 2,791,518.
- Permafuse Corp., The: *See*—
Tilden, Stanley G. 2,788,958.
- Permaplate Corp.: *See*—
Binkley, Raymond G. 2,792,376.
- Perma-Stamp Products Corp., The: *See*—
Leeds, Harry R. 2,777,824.
- Pernex Corp.: *See*—
Chavannes, Marc A., and Howden. 2,808,098.
Howden, James W. 2,816,054.
- Permutit Co., The: *See*—
Calmon, Calvin. 2,810,692.
Gilwood, Martin E., and Greer. 2,788,330.
Greer, Albert H. 2,801,222.
Greer, Albert H. 2,801,223.
Greer, Albert H. 2,801,224.
Greer, Albert H., and Gilwood. 2,788,331.
- Permutit Co. Ltd., The: *See*—
Williams, Thomas H., and Hall. 2,795,544.
- Perna, Angelo J., and W. F. Dahlberg, to Pullman-Standard Car Mfg. Co. Railway car side wall closure. 2,794,402, 6-4-57, Cl. 105-393.
- Pernert, John C., to Hooker Electrochemical Co. Chlorine dioxide generation. 2,811,420, 10-29-57, Cl. 23-152.
- Pernert, John C., to Hooker Electrochemical Co. Recovery of sodium sulfate and hydrochloric acid from acidic sulfate waste materials. 2,816,820, 12-17-57, Cl. 23-121.
- Peronto, James W.: *See*—
Pfugger, Charles L. 2,798,634.
- Peronto, Mildred L.: *See*—
Pfugger, Charles L. 2,798,634.
- Perra, Joseph D. Drill sharpener. 2,800,755, 7-30-57, Cl. 51-241.
- Perrelli, John. Apparatus for stacking discrete articles. 2,780,367, 2-5-57, Cl. 214-10.5.
- Perrelli, Joseph, to Filper Corp. Method of pitting peaches. 2,818,098, 12-31-57, Cl. 146-238.
- Perret, Adrien: *See*—
Von Bézard, André, and Perret. 2,809,975.
- Perret, Rene: *See*—
Miossec, Jean, and Perret. 2,790,381.
- Perri, Frank B.: *See*—
Du Grenier, Francis C., and Perri. 2,802,474.
- Perrier, Robert, to La Gaine Scandale. Girdle. 2,788,524, 4-16-57, Cl. 2-37.
- Perrin, Eddie J. Multi-way valve unit with jet pump. 2,782,726, 2-26-57, Cl. 103-262.
- Perrin, Hugh. Skimmer spoon. 2,796,992, 6-25-57, Cl. 210-471.
- Perrin, John, to Powers-Samas Accounting Machines Ltd. Sheet feeding apparatus. 2,792,220, 5-14-57, Cl. 271-32.
- Perrin, Rene, and J. Lamberton, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for rapidly desulphurizing cast iron. 2,794,730, 6-4-57, Cl. 75-55.
- Perrin, Tom S., to Diamond Alkali Co. Method of preparing a tanning composition comprising basic chromic sulfate. 2,805,117, 9-3-57, Cl. 8-94.27.
- Perrin, William K.: *See*—
Wiesman, Clarence K., and Perrin. 2,781,271.
- Perrine, Elmer C.: *See*—
Eck, John C., and Perrine. 2,787,864.
- Perrine, Herald B. Evaporative cooler. 2,782,015, 2-19-57, Cl. 261-23.
- Perrotti, Francesco, and M. Valdivieso. Apparatus for indicating the mean speed of a vehicle. 2,782,987, 2-26-57, Cl. 235-61.
- Perry, Claude A., and R. D. Wackrow, to The Birmingham Small Arms Co. Ltd. Firing mechanism for a firearm. 2,775,837, 1-1-57, Cl. 42-69.
- Perry, Donald O., to Lockheed Aircraft Corp. Multiple brake system for aircraft. 2,794,609, 6-4-57, Cl. 244-111.
- Perry, Edward G., to Texas Instruments Inc. Magnetic fluid seals in magnetic clutches. 2,809,733, 10-15-57, Cl. 192-21.5.
- Perry, Edward G., to Texas Instruments Inc. Rectilinear recording. 2,814,549, 11-26-57, Cl. 346-139.

- Perry, Edward G., Jr., to Texas Instruments Inc. Magnetic bridge circuit to cancel hysteresis effects in magnetic clutches. 2,778,466, 1-22-57, Cl. 192-21.5.
- Perry, Frank R., to Turco Products, Inc. Power unit for supporting interchangeable power operated tools. 2,778,233, 1-22-57, Cl. 74-219.
- Perry, George L.: *See*—
Bondi, Arnold A., Borsoff, and Perry. 2,788,326.
- Perry, Hugh J.: *See*—
Watts, Gilbert E., Hainsworth, and Perry. 2,800,701.
- Perry, Ian A. H., to Whitco Hardware Mfg. Co. Pty Ltd. Friction stays for casements. 2,791,810, 5-14-57, Cl. 20-42.
- Perry, J. W.: *See*—
Hilden, Dale G. 2,779,029.
- Perry, James G. Removable window sash balancing mechanism. 2,807,838, 10-1-57, Cl. 20-52.2.
- Perry, James S. Multiple compartment money bag. 2,795,260, 6-11-57, Cl. 150-37.
- Perry, John A. Pivotaly mounted airplane sustaining wing structure. 2,792,191, 5-14-57, Cl. 244-48.
- Perry, John R., and L. C. Williams, to Miehle-Goss-Dexter, Inc. Pneumatic sheet separating and feeding apparatus. 2,799,499, 7-16-57, Cl. 271-26.
- Perry Knitting Co., The: *See*—
Heilbronner, Harry S. 2,775,771.
- Perry, Laurie: *See*—
Timper, Fred F., and Perry. 2,792,215.
- Perry, Malcolm W. Automobile top ski and ski pole carrier. 2,805,015, 9-3-57, Cl. 224-42.1.
- Perry, Mayne A. Service indicators. 2,787,851, 4-9-57, Cl. 40-68.
- Perry, Murle. Colostomy and ileostomy appliance. 2,787,270, 4-2-57, Cl. 128-283.
- Perry, Paul G.: *See*—
Hull, Henry E., and Perry. 2,795,397.
- Perry, Randolph, Jr.: *See*—
Barrett, Gerald R., and Perry. 2,795,573.
- Perry, Robert C., and F. W. Kocher, to Pittsburgh Glass Co. Plate glass polishing apparatus. 2,799,978, 7-23-57, Cl. 51-110.
- Perry, Roy A. Combined lawn mower and sweeper. 2,795,098, 6-11-57, Cl. 56-249.
- Perry, Russell W., to The Firestone Tire & Rubber Co. New polymeric material containing copolymerized monochlorotri-fluoroethylene and an alkyl vinyl ether. 2,779,025, 1-29-57, Cl. 2-167.
- Perry, Stephen F., and H. J. Zoeller, to Esso Research and Engineering Co. Refining of hydrocarbon wax. 2,798,028, 7-2-57, Cl. 196-20.
- Perry, Sydney V.: *See*—
Fine, Roy S., and Perry. 2,802,063.
- Perry, Walter M., and J. J. Fitz Maurice, to Johns-Manville Corp. Shingle take off and stacker. 2,813,637, 11-19-57, Cl. 214-6.
- Perry, Winthrop L., to Abbott Machine Co., Inc. Winding machine. 2,808,216, 10-1-57, Cl. 242-31.
- Perryman, Butler: *See*—
Davis, Morris C., Perryman, and Gannon. 2,802,655.
- Persch, Walther, and R.-E. Nitz, to Cassella Farbwerke Mainkur Aktiengesellschaft. Organic mercury compounds of xanthenes and process of making same. 2,799,674, 7-16-57, Cl. 260-242.
- Persico, Ralph W., to the United States of America as represented by the Secretary of the Army. Armored vest. 2,808,588, 10-8-57, Cl. 2-2.5.
- Person, Frank S. Guide frame for a rotating mortising tool. 2,785,712, 3-19-57, Cl. 144-27.
- Person, Lars B.: *See*—
Von Sivers, Carl H., Wadö, Wickman, and Person. 2,782,307.
- Person, Per H.: *See*—
Greenley, Henry R., Graham, Person, and Rouch. 2,816,604.
- Personal Products Corp.: *See*—
Beck, Gasper P., Johnson, and Korsgaard. 2,816,312.
Beck, Gasper P., Johnson, Korsgaard, and Nydegger. 2,816,311.
Beck, Gasper P., Johnson, Korsgaard, and Nydegger. 2,816,313.
Graham, George C., Jr. 2,815,756.
- Perspecta Sound, Inc.: *See*—
Fine, Clarence R. 2,802,061.
- Persson, Erik: *See*—
Garde, Aage, and Persson. 2,813,262.
- Persson, Erik, and H. Schiott, to Allmänna Svenska Elektriska Aktiebolaget. Hydraulic servo-motor. 2,813,519, 11-19-57, Cl. 121-41.
- Persson, Ernest, and M. L. Beyer. Mail handling tables. 2,804,302, 8-27-57, Cl. 271-45.
- Persson, John A., to Union Carbide Corp. Method and apparatus for magnetically-impelled arc welding. 2,809,278, 10-8-57, Cl. 219-123.
- Persson, Nils H. Adjustable socket spanner. 2,796,791, 6-25-57, Cl. 81-128.
- Persson, Per W. S.: *See*—
Nilsson, Hans R., and Persson. 2,803,508.
- Persson, Per W. S., to Svenska Rotor Maskiner Aktiebolag. Support of rotor housing of regenerative heat exchangers. 2,797,897, 7-2-57, Cl. 257-6.
- Pertile, John T. Internal combustion engine exhaust system. 2,806,347, 9-17-57, Cl. 60-30.
- Pertsch, Joseph L.: *See*—
Blair, Raymond H., Pertsch, and Scribner. 2,805,623.
- Perugia, Andre, to I. Miller & Sons, Inc. Ladies' shoes. 2,795,866, 6-18-57, Cl. 36-24.5.
- Pesce, Joseph D. Oil burner. 2,815,985, 12-10-57, Cl. 299-118.
- Pesch, Herman: *See*—
Wilcox, Isaac L., and Pesch. 2,781,946.
- Peschke, Carl H. Winding machine for link sausage. 2,781,988, 2-19-57, Cl. 242-113.
- Peselnick, Herman. Fastening devices. 2,814,085, 11-26-57, Cl. 24-140.
- Pesnell, Austell H. Means for injecting treating chemicals into an oil well flow line. 2,803,259, 8-20-57, Cl. 137-87.
- Pessel, Leopold, to Radio Corp. of America. Methods and means of marine marking. 2,783,209, 2-26-57, Cl. 252-301.3.
- Pessolano, Arsenio: *See*—
Clark, Robert L., and Pessolano. 2,806,853.
- Pestardini, Joseph M. Variable speed motor system. 2,780,761, 2-5-57, Cl. 318-146.
- Pestardini, Joseph M. Electric power plant. 2,790,123, 4-23-57, Cl. 318-146.
- Pestardini, Joseph M. Electric power system. 2,796,570, 6-18-57, Cl. 318-140.
- Pest Control Ltd.: *See*—
Hartley, Gilbert S. 2,809,469.
Lane, David W. J., and Heath. 2,791,599.
- Petcar Research Corp.: *See*—
Carbauh, Robert E. 2,804,608.
- Petch, James H. T.: *See*—
Whitehead, Derek J., and Petch. 2,788,272.
- Peter, Albin: *See*—
Frey, Wolfgang, and Peter. 2,794,031.
Frey, Wolfgang, and Peter. 2,794,032.
- Peter, Albin, and W. Frey, to Saul & Co. Green substantive dyestuffs of the anthraquinone series. 2,778,839, 1-22-57, Cl. 260-368.
- Peter, Elmer P., to Kent Machine Works, Inc. Roller mill. 2,794,603, 6-4-57, Cl. 241-231.
- Peter, Julius: *See*—
Freytag, Helmut, Lober, Wegler, and Peter. 2,815,336.
- Peter, Leslie H., A. Langridge, and B. J. Gumm, to Westinghouse Brake & Signal Co. Ltd. Metal rectifiers. 2,783,418, 2-26-57, Cl. 317-234.
- Peter, Robert G., and E. J. Volmert, to Reed Roller Bit Co. Drill bits. 2,815,936, 12-10-57, Cl. 255-313.
- Peter, Rolf W., to Radio Corp. of America. Electron beam tubes. 2,776,389, 1-1-57, Cl. 313-80.
- Peter, Rolf W., to Radio Corp. of America. Transmission line directional coupler. 2,794,958, 6-4-57, Cl. 333-10.
- Peter, Rolf W., to Radio Corp. of America. Coupling circuit for helical delay lines. 2,799,797, 7-16-57, Cl. 315-3.5.
- Peter, Rolf W., to Radio Corp. of America. Electron beam traveling-wave tube. 2,813,221, 11-12-57, Cl. 315-3.5.
- Peter, Rolf W., to Radio Corp. of America. Traveling wave electron tubes and circuits. 2,817,037, 12-17-57, Cl. 315-3.5.
- Petercem, Societe Anonyme: *See*—
Lenoir, Michel. 2,815,417.
- Peterhans, Josef. Apparatus for the manufacture of slide fasteners. 2,797,723, 7-2-57, Cl. 153-1.
- Peterlik, Leopold: *See*—
Ertl, Emerich, and Peterlik. 2,794,090.
- Petermann, Lucier, A., to Gulton Industries, Inc. Method and apparatus for ascertaining ultrasonic beam patterns. 2,803,128, 8-20-57, Cl. 73-67.6.
- Peters, Albin, to Chicago Coin Machine Co. Combination bumper and switch. 2,804,514, 8-27-57, Cl. 200-61.11.
- Peters, Beldon A.: *See*—
Rumble, Robert C., and Peters. 2,779,192.
Rumble, Robert C., and Peters. 2,781,853.
- Peters, Clifford M.: *See*—
Garrett, Henry U., and Peters. 2,790,501.
Garrett, Henry U., and Peters. 2,796,885.
Garrett, Henry U., and Peters. 2,804,830.
Garrett, Henry U., Peters, and Dinning. 2,790,395.
Garrett, Henry U., Peters, and Dinning. 2,808,781.
- Peters, Clifford M., and V. B. Scott, to U. S. Industries, Inc. Automatic tank switching system and apparatus therefor. 2,800,138, 7-23-57, Cl. 137-122.
- Peters, Edward A., to Kilgore, Inc. Toy cap rifle with rotatable magazine plate. 2,808,672, 10-8-57, Cl. 42-54.
- Peters, Francis B. E.: *See*—
Sesny, Stephen A., and Peters. 2,779,929.
- Peters, Freimut, to Accumulatoren-Fabrik Aktiengesellschaft. Oxidizable electrode for sealed alkaline storage cells. 2,798,110, 7-2-57, Cl. 136-6.
- Peters, Garrett H.: *See*—
Pospychala, Henry C., and Peters. 2,793,959.
- Peters, Harry C.: *See*—
Mittelstadt, Clarence F., Peters, and Baldy. 2,793,013.
- Peters, Harvey V. Sanitary shopping cart or carriage handle. 2,803,849, 8-27-57, Cl. 16-111.
- Peters, John G.: *See*—
Cantrell, Troy L., and Peters. 2,789,952.
Cantrell, Troy L., and Peters. 2,805,998.
Cantrell, Troy L., Peters, and Smith. 2,789,092.
Cantrell, Troy L., Peters, and Smith. 2,810,697.
Gottshall, Ralph I., Kern, and Peters. 2,786,028.
Gottshall, Ralph I., and Peters. 2,786,033.
Gottshall, Ralph I., Peters, and Swain. 2,789,950.
Kern, Raymond T., Jr., and Peters. 2,789,951.

- Peters, Max D., to Minneapolis-Honeywell Regulator Co. Magnetic snap switch. 2,782,278, 2-19-57, Cl. 200-67.
- Peters, Melville F. Electric cables and the method of making the same. 2,808,354, 10-1-57, Cl. 154-2.25.
- Peters, Melville F. Electric cables and the method of making the same. 2,808,450, 10-1-57, Cl. 174-10.2.
- Peters, Melville F. Fuel combustion promotion. 2,812,749, 11-12-57, Cl. 123-25.
- Peters, Paul C., Jr. Multiple blade razor. 2,804,685, 9-3-57, Cl. 30-90.
- Peters, Pete P., to Valley Foundry & Machine Works, Inc. Compress. 2,817,288, 12-24-57, Cl. 100-52.
- Peters, Philip H., Jr.: *See*—
Wilbur, Donald A., and Peters. 2,803,773.
- Peters, Philip H., Jr., and D. A. Wilbur, to General Electric Co. Magnetron device. 2,810,095, 10-15-57, Cl. 315-39.73.
- Peters, Philip H., Jr., and D. A. Wilbur, to General Electric Co. Voltage tunable magnetron with control electrode. 2,810,096, 10-15-57, Cl. 315-39.73.
- Peters, Philip H., Jr., and D. A. Wilbur, to the United States of America as represented by the Secretary of the Army. Noise generating system. 2,814,777, 11-26-57, Cl. 332-1.
- Peters, Ray A. Deformable element, holder and dispenser therefor. 2,791,925, 5-14-57, Cl. 81-15.
- Peters, Robert A.: *See*—
Teja, Jayanti D., and Peters. 2,788,286.
- Peters, Robert M.: *See*—
Barrett, Fred O., Goebel, and Peters. 2,793,219.
Barrett, Fred O., Goebel, and Peters. 2,793,220.
- Peters, Robert M., to Eoeb Industries, Inc. Hydrogenation of structurally modified acids and products produced thereby. 2,812,542, 11-5-57, Cl. 260-40.9.
- Peters & Russell, Inc.: *See*—
Russell, Linus E. 2,809,605.
- Peters, Theodore J.: *See*—
Mottorn, Henry O., and Peters. 2,800,451.
- Peters, William D., to Phillips Petroleum Co. Method of and apparatus for controlling carbon black furnaces. 2,800,394, 7-23-57, Cl. 25-20.4.
- Peters, William F., to Syntron Co. Bowl feeding gravimetric feeder. 2,804,992, 9-3-57, Cl. 222-55.
- Petersen, Carl E., to Eastern Tool & Mfg. Co. Buckle. 2,817,888, 12-31-57, Cl. 24-73.
- Petersen, Erwin P., and H. L. Whitney, to Continental Radiant Glass Heating Corp. Radiant heating panels. 2,781,440, 2-12-57, Cl. 219-34.
- Petersen, Hans C. W. Driving gear for internal combustion engine-air compressor with double pistons. 2,800,270, 7-23-57, Cl. 230-56.
- Petersille, Hans H., and E. O. Zimmermann, to F. R. Lushas. Hardened molded articles. 2,812,570, 11-12-57, Cl. 28-80.
- Petersen, John S., to Simmons Co. Locking linkage for sofa bed. 2,785,415, 3-19-57, Cl. 5-13.
- Petersen, John S., to Simmons Co. Cushion construction. 2,802,517, 8-13-57, Cl. 155-17.9.
- Petersen, Karl, and H. Jacobsen, to Novo Therapeutisk Laboratorium A/S. Aqueous suspension of penicillin compounds exhibiting decreased caking on storage and maintained resuspendability. 2,803,583, 8-20-57, Cl. 167-65.
- Petersen, Lee. Tool for removing brake shoe retainer locks. 2,779,088, 1-29-57, Cl. 29-22.9.
- Petersen, Lee B. Windshield wiper arm operating mechanism. 2,784,438, 3-12-57, Cl. 15-25.5.
- Petersen Oven Co., The: *See*—
Armstrong, John D., Wallman, and Wittenberger. 2,804,192.
- Mahoney, Joseph L. 2,804,832.
- Skarin, Carl R., and Wittenberger. 2,783,720.
- Petersen, Peter J. Sanitary manipulator and retainer for milk strainer filter disks. 2,796,282, 6-18-57, Cl. 294-19.
- Petersen, Peter O. Interior and exterior fastening means for sliding doors. 2,799,153, 7-16-57, Cl. 70-100.
- Petersen, Richard J.: *See*—
Cripe, Gene H., and Petersen. 2,809,282.
Pinkus, Jerome R., and Petersen. 2,796,860.
- Petersen, Roy H.: *See*—
Roehl, Ray T., and Petersen. 2,791,456.
- Petersen, Siegfried: *See*—
Müller, Erwin, and Petersen. 2,778,810.
- Petersen, Siegfried, O. Bayer, H.-A. Offe, and G. Domagk, to Schenley Industries, Inc. Metal complexes of isonizoid. 2,794,019, 5-28-57, Cl. 260-270.
- Petersen, Siegfried, O. Bayer, H.-A. Offe, and G. Domagk, to Schenley Industries, Inc. Metal complexes of hydrazide-hydrazones and process for producing the same. 2,801,246, 7-30-57, Cl. 260-270.
- Petersen, Svend A.: *See*—
Weber, Harold, and Petersen. 2,798,348.
- Petersen, Svend A., to Celanese Corp. of America. Yarn winding. 2,781,177, 2-12-57, Cl. 242-18.
- Petersen, Svend A., and H. Chow, to Celanese Corp. of America. Textile winding. 2,789,774, 4-23-57, Cl. 242-18.
- Petersen, Thorvald, to Reed Mfg. Co. Chain pipe wrench. 2,795,986, 6-18-57, Cl. 81-68.
- Petersime, Ira M. Pulsators. 2,779,264, 1-29-57, Cl. 98-40.
- Peterson, Adolphe C. Fuel supply and control means for turbines and turbine jets. 2,776,537, 1-8-57, Cl. 60-39.15.
- Peterson, Adolphe C. Heat pump system and construction. 2,787,140, 4-2-57, Cl. 62-12.9.
- Peterson, Adolphe C. Public parking garage means. 2,787,386, 4-2-57, Cl. 214-16.1.
- Peterson, Adolphe C. Jet propelled rotor sustentation and propulsion means. 2,808,115, 10-1-57, Cl. 170-135.4.
- Peterson, Albert, to The Columbia Mills, Inc. Locking means for holddown brackets. 2,781,837, 2-19-57, Cl. 160-32.8.
- Peterson, Albert C., and R. T. Smith, to Union Special Machine Co. Sewing machines. 2,783,724, 3-5-57, Cl. 112-18.
- Peterson, Arnold P. G., and D. B. Sinclair, to General Radio Co. Distortionless audio amplifier. 2,802,907, 8-13-57, Cl. 179-17.1.
- Peterson, Arthur E., to Chicago Forging and Mfg. Co. Ash tray support for automobiles. 2,793,092, 5-21-57, Cl. 312-24.6.
- Peterson, Arthur S. Reciprocable work guide for saw tables. 2,789,595, 4-23-57, Cl. 143-52.
- Peterson, Axel H. Valve for core blowing machine. 2,793,408, 5-28-57, Cl. 22-10.
- Peterson, Benjamin R., Jr.: *See*—
Cummings, Thomas N., Peterson, and Shiu. 2,805,095.
- Peterson, Bernhart M. Game. 2,801,108, 7-30-57, Cl. 273-13.9.
- Peterson, Bertil E., to Cardwell Westinghouse Co. Sliding draft lug for railway cars. 2,806,611, 9-17-57, Cl. 213-22.
- Peterson, Boyd G.: *See*—
Kelso, Robert L., and Peterson. 2,809,824.
- Peterson, C. Lynn, to Peterson Filters & Engineering Co. Method of liming raw sugar juice. 2,776,229, 1-1-57, Cl. 127-48.
- Peterson, Charles B., to The Texas Co. Oil well treatment to prevent coning. 2,788,855, 4-16-57, Cl. 166-42.
- Peterson, Charles D., to Universal Controls Corp. Leak testing and detecting apparatus for piping systems. 2,796,757, 6-25-57, Cl. 73-40.
- Peterson, Charles L., to Western Electric Co., Inc. Heat treating furnace. 2,809,027, 10-8-57, Cl. 263-42.
- Peterson, Chester H., to U. S. Rubber, Reclaiming Co., Inc. Methods of providing reclaimed rubber. 2,804,651, 9-3-57, Cl. 18-48.
- Peterson, Clarence A. Venetian blind cleaning machines. 2,816,304, 12-17-57, Cl. 15-23.
- Peterson, David, to the United States of America as represented by the United States Atomic Energy Commission. Production of metals. 2,795,499, 6-11-57, Cl. 75-84.1.
- Peterson, David C., and C. F. Ralsch, to Stewart-Warner Corp. Pumping unit for centralized lubricating system. 2,789,664, 4-23-57, Cl. 184-27.
- Peterson, David G., to The Air Preheater Corp. Heat exchange assembly. 2,784,947, 3-12-57, Cl. 257-24.5.
- Peterson, David G., to The Air Preheater Corp. Heat exchanger formed of channel members. 2,804,285, 8-27-57, Cl. 257-24.5.
- Peterson, David G., to The Air Preheater Corp. Heat exchanger. 2,814,470, 11-26-57, Cl. 257-262.14.
- Peterson, Dean E., and W. F. Brucksch, Jr., to United States Rubber Co. Synthetic rubber-synthetic resin blend containing an alkylene polyamine. 2,811,504, 10-29-57, Cl. 260-45.5.
- Peterson, Donald E. Combination step and scaffold shelf for ladders. 2,801,886, 8-6-57, Cl. 304-31.5.
- Peterson, Donald W., to Radio Corp. of America. Slotted sheet antenna. 2,781,513, 2-12-57, Cl. 343-81.6.
- Peterson, Donald W., to Radio Corp. of America. Antenna for broadcasting two signals. 2,800,658, 7-23-57, Cl. 343-72.5.
- Peterson, Durey H.: *See*—
Murray, Herbert C., and Peterson. 2,793,216.
Murray, Herbert C., and Peterson. 2,800,490.
- Peterson, Durey H., and B. E. Leach, to The Upjohn Co. Circulin derivatives and circulin recovery. 2,779,705, 1-29-57, Cl. 167-65.
- Peterson, Edward C., to Birdsboro Steel Foundry and Machine Co. Shear for metallic stock. 2,808,104, 10-1-57, Cl. 164-34.
- Peterson, Edward G., to Bristol Industrial Equipment Co. Method of coating sheets with lubricant for draw dies. 2,809,129, 10-8-57, Cl. 117-10.4.
- Peterson, Edward S., to Automatic Electric Laboratories, Inc. Time announcing system. 2,776,341, 1-1-57, Cl. 179-100.2.
- Peterson, Edward S., to General Telephone Laboratories, Inc. Impulse storage unit. 2,798,212, 7-2-57, Cl. 340-17.4.
- Peterson, Edward S., to General Telephone Laboratories, Inc. Polarized electromagnetic relay. 2,816,190, 12-10-57, Cl. 200-93.
- Peterson, Edward T., to Birdsboro Steel Foundry and Machine Co. Tilting table. 2,777,343, 1-15-57, Cl. 80-47.
- Peterson, Edwin F. Positive drive vibratory mechanism. 2,778,230, 1-22-57, Cl. 74-61.
- Peterson, Edwin F. Supporting pad for hot flat irons. 2,778,589, 1-22-57, Cl. 248-117.3.
- Peterson, Edwin F. Vibratory mechanism. 2,778,612, 1-22-57, Cl. 259-1.
- Peterson, Edwin F. Machine vibrator. 2,793,009, 5-21-57, Cl. 259-1.
- Peterson, Emil. Roller gage means for portable lumber saw mill. 2,778,392, 1-22-57, Cl. 143-17.3.
- Peterson, Ernest A. Cable clamping device. 2,796,648, 6-25-57, Cl. 24-12.3.
- Peterson, Esther. Foot mop with detachable foot engaging portion. 2,784,436, 3-12-57, Cl. 15-22.7.

- Peterson, Everett S., Jr.: *See*—
Kennelly, Francis X., and Peterson. 2,802,204.
Peterson Filters & Engineering Co.: *See*—
Peterson, C. Lynn. 2,776,229.
- Peterson, Frank C. Method and means for concentrating valuable components of placer gravel. 2,793,750, 5-28-57, Cl. 209—457.
- Peterson, Garfield E.: *See*—
Baudry, René A., and Peterson. 2,788,251.
- Peterson, George N.: *See*—
Kronoff, Clarence R., and Peterson. 2,808,074.
- Peterson, George N., to Crompton & Knowles Loom Works. Gripper shuttle. 2,777,471, 1-15-57, Cl. 139—125.
- Peterson, Gerald H.: *See*—
Park, Harwood E. 2,794,108.
- Peterson, Gerald M.: *See*—
Bremer, Harris B., Lane, Scott, and Peterson. 2,813,692.
- Peterson, Glen. Apparatus for connecting circuit elements to electronic tube socket. 2,779,867, 1-29-57, Cl. 250—16.
- Peterson, Glen. Apparatus for connecting circuit elements to electronic tube socket. 2,782,301, 2-19-57, Cl. 250—16.
- Peterson, Gustav, to Dykrex Corp. Lapping machine. 2,787,090, 4-2-57, Cl. 51—50.
- Peterson, Gustave A., to The Ferro Engineering Co. Bottom rings for hot tops. 2,799,067, 7-16-57, Cl. 22—147.
- Peterson, Harold O., and R. E. Schock, to Radio Corp. of America. Automatic gain control system. 2,783,372, 2-26-57, Cl. 250—20.
- Peterson, Harold R., to Brock Equipment Co. Wire bending tool. 2,811,064, 10-29-57, Cl. 81—15.
- Peterson, Joe G.: *See*—
Kundiger, Donald G., and Peterson. 2,788,376.
Kundiger, Donald G., Peterson, and Ikenberry. 2,778,851.
- Peterson, Joel D., to Bendix Aviation Corp. Control system for eliminating ice from a transparent windshield panel. 2,806,118, 9-10-57, Cl. 219—20.
- Peterson, John J.: *See*—
Dann, Morris, Peterson, and Moran. 2,807,923.
- Peterson, Justin: *See*—
Foulds, Arthur E., and Peterson. 2,807,787.
- Peterson, Kenneth C.: *See*—
Hoff, Melvern C., and Peterson. 2,777,888.
- Peterson, Lester C.: *See*—
Iknayan, Alfred N., Peterson, and Batts. 2,811,190.
- Peterson, Lester C., and H. J. Batts, to United States Rubber Co. Pneumatic article and method of making same. 2,782,829, 2-26-57, Cl. 152—347.
- Peterson, Lester C., and H. J. Batts, to United States Rubber Co. Tubeless tire. 2,791,258, 5-7-57, Cl. 152—330.
- Peterson, Lester C., and H. J. Batts, to United States Rubber Co. Tubeless tire. 2,798,526, 7-9-57, Cl. 152—330.
- Peterson, Lester C., and H. J. Batts, to United States Rubber Co. Puncture-sealing pneumatic article. 2,802,505, 8-13-57, Cl. 152—347.
- Peterson, Merlin H., A. W. Goldstein, and F. W. Denison, Jr., to Abbott Laboratories. pH control in production of fumagillin. 2,803,586, 8-20-57, Cl. 195—81.
- Peterson, Norman G.: *See*—
Andrews, Robert C., and Peterson. 2,777,829.
- Peterson, Oscar S., Jr. Rotational radiation therapy system and unit. 2,793,296, 5-21-57, Cl. 250—61.5.
- Peterson, Paul F.: *See*—
Deslierres, John M., and Peterson. 2,810,325.
- Peterson, Paul F., to North American Aviation, Inc. Gun installation in jet aircraft. 2,787,194, 4-2-57, Cl. 89—37.5.
- Peterson, Paul F., to North American Aviation, Inc. Gun protective device. 2,801,574, 8-6-57, Cl. 89—13.
- Peterson, Raymond A., to United Geophysical Corp. Geophysical prospecting system. 2,792,067, 5-14-57, Cl. 181—5.
- Peterson, Raymond A., to United Geophysical Corp. Geophysical prospecting system. 2,792,068, 5-14-57, Cl. 181—5.
- Peterson, Robert E.: *See*—
Thorington, Luke, and Peterson. 2,806,968.
- Peterson, Ruben O., to The Osborn Manufacturing Co. Brush utilizing removable lengths of brush strip. 2,789,298, 4-23-57, Cl. 15—128.
- Peterson, Ruben O., to The Osborn Mfg. Co. Brushing mechanism. 2,800,677, 7-30-57, Cl. 15—308.
- Peterson, Ruben O., to The Osborn Mfg. Co. Buff. 2,816,403, 12-17-57, Cl. 51—193.5.
- Peterson, Russell E. Work hold-down for jointers. 2,804,892, 9-3-57, Cl. 144—242.
- Peterson, Stuart R. Control for electrically heated devices. 2,785,278, 3-12-57, Cl. 219—44.
- Peterson, Thomas F. Corona shielding. 2,789,154, 4-16-57, Cl. 174—73.
- Peterson, Thomas F. Shielded ignition cable and resistors. 2,790,053, 4-23-57, Cl. 201—63.
- Peterson, Victor W., to General Motors Corp. Thrust nut lock. 2,796,139, 6-18-57, Cl. 170—177.
- Peterson, Vincent C. J.: *See*—
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- Peterson, Walter E.: *See*—
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- Peterson, Walter H.: *See*—
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- Peterson, Walter H., and A. A. Bondi, to Shell Development Co. Grease compositions. 2,782,165, 2-19-57, Cl. 252—41.
- Peterson, William B., Jr., to Angelus Sanitary Can Machine Co. Shaft timing adjustment device. 2,810,275, 10-22-57, Cl. 64—24.
- Peterson, William D. Land planing apparatus. 2,806,306, 9-17-57, Cl. 37—153.
- Peterson, William F.: *See*—
Venner, William M., Bowser, and Peterson. 2,780,505.
Venner, William M., Bowser, and Peterson. 2,795,468.
- Peterson, William F., and P. L. Bowser, Jr., to Sterling Aluminum Products, Inc. Piston molding machine. 2,789,329, 4-23-57, Cl. 22—93.
- Peterson, William R.: *See*—
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- Peterson, William R., to St. Regis Paper Co. Bag closing apparatus. 2,817,936, 12-31-57, Cl. 53—126.
- Peterson, William R., and C. E. Krupp, to Vapor Heating Corp. Water by-pass control for bus heating system. 2,790,605, 4-30-57, Cl. 237—8.
- Peterson, William R., and H. S. Rhodes, to St. Regis Paper Co. Vibrating conveyor with oscillating side plates. 2,798,699, 7-9-57, Cl. 259—72.
- Pethybridge, Charles A., to New Britain Machine Co. Transmission. 2,789,440, 4-23-57, Cl. 74—371.
- Petit, Daniel. Low temperature distillation oven. 2,793,175, 5-21-57, Cl. 202—215.
- Petit, Michel: *See*—
Camescasse, Pierre, and Petit. 2,781,189.
- Petitjean, Charles: *See*—
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- Petitti, Jerry P.: *See*—
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- Petkowitz, Carl F.: *See*—
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- Petoskey, Charles R., to Automotive Rubber Co., Inc. Flexible connecting sleeve with releasable spring clamping means. 2,810,593, 10-22-57, Cl. 285—236.
- Petre, John R., to The American Laundry Machinery Co. Sequential actuator for multiple unit measuring timer. 2,783,994, 3-5-57, Cl. 270—80.
- Petre, John W., to Fairchild Engine and Airplane Corp. Fuel supply system. 2,775,961, 1-1-57, Cl. 123—119.
- Petree, Jay R., to Crouse-Hinds Co. Electric plug and receptacle. 2,806,213, 9-10-57, Cl. 339—111.
- Petrén, Arvid R.: *See*—
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- Petri, Hector D., to United-Carr Fastener Corp. Fastening device for securing an article to an apertured support. 2,817,132, 12-24-57, Cl. 24—73.
- Petrick, Edward J., to Knox Mfg. Co. Movie screen stretching device. 2,793,687, 5-28-57, Cl. 160—24.
- Petrick, Edward J., to Bretford Mfg., Inc. Lamp holder. 2,808,219, 10-1-57, Cl. 248—126.
- Petrick, Emilion J., Sr. Scale model highway-railroad crossing. 2,804,543, 8-27-57, Cl. 246—114.
- Petrides, Thracy, to International Telephone and Telegraph Corp. Phase detectors. 2,781,489, 2-12-57, Cl. 324—87.
- Petrie, Douglas P. R.: *See*—
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- Petrie, James A., to Rolls-Royce Ltd. Rotary drive-transmitting coupling arrangements. 2,785,550, 3-19-57, Cl. 64—9.
- Petrie, James A., to Rolls-Royce Ltd. Rotor for gas-turbine engine with means to locate rotor discs with respect to one another. 2,818,228, 12-31-57, Cl. 253—39.
- Petro-Chem Process Co., Inc.: *See*—
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Throckmorton, John W., and Wallis. 2,796,052.
- Petroff, Merlin. Audio frequency meter. 2,779,920, 1-29-57, Cl. 324—80.
- Petroleum Engineering Associates, Inc.: *See*—
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- Petrolite Corp.: *See*—
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- Petrometer Corp.: *See*—
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- Petronello, Peter D., and D. France; said France assor to Jaloseal, Inc. Jalousie louver weatherstripping. 2,805,453, 9-10-57, Cl. 20—69.
- Petropoulos, John C., to American Cyanamid Co. Plasticized vinyl chloride polymer. 2,780,609, 2-5-57, Cl. 260—31.8.
- Petropoulos, John C., to American Cyanamid Co. Novel compositions of matter and processes of preparing same. 2,814,608, 11-26-57, Cl. 260—72.

- Petrovicki, Herbert: *See*—
Overlach, Hans, and Petrovicki. 2,801,011.
- Petrow, Vladimir: *See*—
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- Petrow, Vladimir, Isobel, A. Stuart-Webb, and D. K. Patel, to The British Drug Houses Ltd. Organic compounds. 2,816,901, 12-17-57, Cl. 260—397.4.
- Petry, Stanton H., to W. M. Welch Mfg. Co. Transmission light source. 2,807,187, 9-24-57, Cl. 88—14.
- Petry, Stanton H., and K. E. Grosse, to W. M. Welch Mfg. Co. Photographic exposure probe device. 2,800,834, 7-30-57, Cl. 88—24.
- Petter, Noel A., to Standard Paper Box Corp. Container for sliced food product. 2,804,258, 8-27-57, Cl. 229—87.
- Petters, Oscar R., to Hamilton Watch Co. Clock hand setting mechanism. 2,777,280, 1-15-57, Cl. 53—80.
- Petters, Oscar R., to Hamilton Watch Co. Power operated setting means for clock or watch hands. 2,784,546, 3-12-57, Cl. 58—80.
- Petterson, De Witt R.: *See*—
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- Petterson, John C. Collapsible guard fence. 2,805,046, 9-3-57, Cl. 256—25.
- Petterson, Thomas M. Rod holder. 2,783,009, 2-26-57, Cl. 248—44.
- Petterson, Thorleif H., to Avery Adhesive Label Corp. Label dispenser. 2,802,598, 8-13-57, Cl. 221—13.
- Pettet, Norman F.: *See*—
Rommel, Frederick E., and Pettet. 2,810,040.
- Pettibone, Raymond B., to Vickers Inc. Speed-compensated flow control. 2,782,718, 2-26-57, Cl. 103—42.
- Pettibone, Robert L., to Eaton Mfg. Co. High temperature, high strength alloy. 2,818,331, 12-31-57, Cl. 75—134.
- Pettibone, Robert L., to Eaton Mfg. Co. High temperature, high strength alloy. 2,818,332, 12-31-57, Cl. 75—134.
- Pettine, Giuseppe A. Warning signal for hydraulic brakes. 2,800,550, 7-23-57, Cl. 200—84.
- Pettipiece, John J. Block forming machine. 2,787,041, 4-2-57, Cl. 25—41.
- Pettit, Dorn L., to Square D Co. Crane hoist motor limit circuit. 2,805,377, 9-3-57, Cl. 318—275.
- Pettit, Frank, to The Lionel Corp. Toy cars. 2,813,648, 1-19-57, Cl. 214—518.
- Pettitt, Leslie E., and P. R. Peasey, to C. A. V. Ltd. Method of coating and coiling paper strips. 2,790,729, 4-30-57, Cl. 117—44.
- Pettus, James L., and E. P. Ancona, Jr., to Radio Corp. of America. Shutterless direct positive sound recording system. 2,784,260, 3-5-57, Cl. 179—100.3.
- Pettway, Patrick H.: *See*—
Atkins, Iris F. 2,788,688.
- Petty, Henry W. Cooking utensil. 2,807,995, 10-1-57, Cl. 99—415.
- Petty and Sons Ltd.: *See*—
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- Pettyjohn, Elmore S., to Institute of Gas Technology. Apparatus for eliminating lint in discharge duct of clothes driers. 2,809,025, 10-8-57, Cl. 263—33.
- Pettyjohn, Elmore S., and H. R. Linden, to The Institute of Gas Technology. Apparatus and cyclic regenerative process for making oil gas. 2,807,528, 9-24-57, Cl. 48—74.
- Petuely, Friedrich, to N. V. "Jervalon" Maatschappij voor Voedingsmiddelen op Wetenschappelijke basis (Scientific Food Co.). Method of producing food-preparations. 2,811,450, 10-29-57, Cl. 99—54.
- Petze, Charles L., to Delaware Research & Development Corp. Glass fiber reinforced rubber-resin. 2,794,792, 6-4-57, Cl. 260—41.5.
- Petzke, Max K., II, and H. Fanslau. Hand truck for desks. 2,808,163, 10-1-57, Cl. 214—383.
- Petzold, Bruno, to Adolf Messer G. m. b. H. High pressure piston pump for liquefied gases. 2,818,029, 12-31-57, Cl. 103—178.
- Peucker, Max P., to the United States of America as represented by the Secretary of the Navy. Internal balances for wind force measurements on aerodynamic objects. 2,782,636, 2-26-57, Cl. 73—147.
- Peucker, Max P., to the United States of America as represented by the Secretary of the Navy. Double diaphragm electrical pressure gage. 2,784,593, 3-12-57, Cl. 73—398.
- Pevere, Ernest F., and H. V. Hess, to The Texas Co. Generation of carbon monoxide and hydrogen by underground gasification of coal. 2,788,956, 4-16-57, Cl. 262—3.
- Pevere, Ernest F., H. V. Hess, and G. B. Arnold, to The Texas Co. Spark discharge activated chemical reactions. 2,799,640, 7-16-57, Cl. 204—171.
- Pew, James E., and C. W. Hayes, ½ to Sun Oil Co. and ½ to Black, Sivalls and Bryson, Inc. Treatment of crude oil. 2,780,304, 2-5-57, Cl. 183—2.7.
- Pew, Preston F., to Inflico Inc. Apparatus and process for washing diatomite type filters. 2,780,363, 2-5-57, Cl. 210—144.
- Pewitt, Bion D., to Radio Corp. of America. Stabilized two-stage oscillators. 2,792,498, 5-14-57, Cl. 250—36.
- Pewthers, Charles W.: *See*—
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- Peyses, Ivan, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Process for surfacing glass. 2,787,100, 4-2-57, Cl. 51—283.
- Peyer, Eduard, to Durand & Huguenin A. G. Process of making water-soluble salts of sulphuric acid esters of leuco vat dyestuffs of the anthraquinone series. 2,784,198, 3-5-57, Cl. 260—316.
- Peyrot, Pierre P.: *See*—
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- Pezziello, Anthony H., and W. A. Lignelli. Unitary motor and turbine pump. 2,805,628, 9-10-57, Cl. 103—87.
- Pfaff, Elmer F.: *See*—
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- Henning, Robert W., and Pfaff. 2,785,402.
- Pfaff, Elmer F. Fastener device. 2,778,021, 1-22-57, Cl. 1—44.5.
- Pfaff, G. M., A.-G.: *See*—
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- Benink, Christiaan J. M., Bungert, and Kleemann. 2,809,601.
- Clauss, Emil, and Zink. 2,815,727.
- Schenkelgel, Emerich. 2,806,440.
- Zink, Hermann. 2,792,798.
- Winz, Karl. 2,800,209.
- Pfaff, Henry C., Jr., to Pfaff and Kendall. Pole. 2,789,669, 4-23-57, Cl. 189—28.
- Pfaff and Kendall: *See*—
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- Pfaff, Robert W.: *See*—
Shrider, Kenneth L., and Pfaff. 2,809,342.
- Pfaff, Robert W., to The Reliance Electric & Engineering Co. Phase shifting circuit. 2,805,386, 9-3-57, Cl. 323—124.
- Pfaffhausen, Herbert, to Leeds and Northrup Co. Protective systems for electrical temperature indicators. 2,793,815, 5-28-57, Cl. 236—69.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Semiconductor translating devices with embedded electrode. 2,792,538, 5-14-57, Cl. 317—235.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Junction transistor. 2,792,540, 5-14-57, Cl. 317—235.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Semiconductor translating devices utilizing selected natural grain boundaries. 2,795,742, 6-11-57, Cl. 317—235.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Temperature gradient zone-melting. 2,813,048, 11-12-57, Cl. 148—1.
- Pfarrwaller, Erwin, to Sulzer Freres, S. A. Shuttle picking mechanism. 2,777,472, 1-15-57, Cl. 139—145.
- Pfarrwaller, Erwin, to Sulzer Freres Societe Anonyme. Thread feed mechanism for gripper shuttle looms. 2,783,778, 3-5-57, Cl. 139—126.
- Pfarrwaller, Erwin, to Sulzer Freres, Societe Anonyme. Device for transporting gripper shuttles in a loom. 2,788,022, 4-9-57, Cl. 139—125.
- Pfarrwaller, Erwin, to Sulzer Freres, Societe Anonyme. Weft thread feeding mechanism for weaving machines. 2,796,084, 6-18-57, Cl. 139—126.
- Pfarrwaller, Erwin, to Gebruder Sulzer, Aktiengesellschaft. Mechanically driven loom of great width. 2,798,513, 7-9-57, Cl. 139—101.
- Pfarrwaller, Erwin, to Sulzer Freres, Societe Anonyme. Transporting threads in a loom for weaving. 2,805,687, 9-10-57, Cl. 139—125.
- Pfarrwaller, Erwin, to Sulzer Freres, S. A. Shuttle checking device for weaving machines. 2,808,853, 10-8-57, Cl. 139—126.
- Pfarrwaller, Erwin, to Sulzer Freres, S. A. Shuttle picking mechanism for weaving machines. 2,813,549, 11-19-57, Cl. 139—145.
- Pfarrwaller, Erwin, to Sulzer Freres, Societe Anonyme. Weaving machine. 2,817,367, 12-24-57, Cl. 139—125.
- Pfau, Julius H., to Bachmann Uxbridge Worsted Corp. Crimping of filaments. 2,793,418, 5-28-57, Cl. 28—1.
- Pfau, William F. Storm windows. 2,804,139, 8-27-57, Cl. 160—372.
- Pfaudler Co., The: *See*—
Dittrich, Edwin L. 2,782,013.
- Osborne, Alec V. 2,801,024.
- Osborne, Alec V. 2,808,176.
- Osborne, Alec V., and Britton. 2,806,629.
- Osborne, Alec V., and McPherson. 2,808,657.
- Osborne, Alec V., and Webster. 2,811,339.
- Pfeffer, Hans: *See*—
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- Pfeiffer, Edward J. Collapsible box. 2,778,560, 1-22-57, Cl. 229—41.
- Pfeiffer, Fred B., ½ to J. R. Crossan. Apparatus for working sheet material. 2,788,626, 4-16-57, Cl. 53—180.
- Pfeiffer, Heinrich: *See*—
Junkmann, Karl, and Pfeiffer. 2,816,910.
- Pfeiffer, Sigmund B., to Bell Telephone Laboratories, Inc. Reflected binary digital-to-analog converter for synchro devices. 2,803,003, 8-13-57, Cl. 340—347.
- Pfeiffer, Sigmund B., to Bell Telephone Laboratories, Inc. Binary digital-to-analog converter for synchro devices. 2,817,078, 12-17-57, Cl. 340—347.
- Pfennig, Reuben F.: *See*—
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- Pfingsten, August F. Combination radiator screen and insect deflector for windshields. 2,778,439, 1-22-57, Cl. 180—68.
- Pfister, Rene: *See*—
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- Pfister, Rudolf, and F. Häfner, to Geigy Chemical Corp. 1,2 - diphenyl - 3,5 - dioxo - 4 - [3' - (pyridyl - 2' - mercapto)-n-propyl]-pyrazolidine. 2,798,074, 7-2-57, Cl. 260-294.8.
- Pfister & Vogel Tanning Co.: See—
Tigerman, Louis. 2,785,562.
- Pfister, William T. Automatic, pneumatic (pressure-vacuo), object sorting machine. 2,812,061, 11-5-57, Cl. 209-72.
- Pfisterer, George E. Collapsible golf cart. 2,803,469, 8-20-57, Cl. 280-38.
- Pfizer, Chas., & Co., Inc.: See—
Agnello, Eugene J., and Laubach. 2,788,354.
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Bayley, Abraham, and McLamore. 2,791,603.
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- Pfizer, Kenneth W., to Bell Telephone Laboratories, Inc. Differential loss measuring system. 2,812,492, 11-5-57, Cl. 324-57.
- Pfuger, Charles L., 1/4 to M. L. Peronto and 1/4 to J. W. Peronto. Can openers. 2,798,634, 7-9-57, Cl. 220-52.
- Pfuger, Charles L. Tools for roughening surfaces. 2,799,035, 7-16-57, Cl. 15-22.
- Pfuger, Hugo: See—
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- Pfuger, Leo L., L. H., and H. to Agathon A. G. Work aligning attachment on grinding machine. 2,814,170, 11-26-57, Cl. 51-234.
- Pfoh, Curt. Wrapper for tobacco, such as cigars, cigars, cheroots and the like. 2,801,636, 8-6-57, Cl. 131-15.
- Pfrefle, Otto, to Victor Chemical Works. Production of triphosphates. Re. 24,381, 10-29-57, Cl. 23-106.
- Pfrefle, Otto, to Chemische Fabrik Budenheim Aktiengesellschaft. Production of triphosphates. 2,776,187, 1-1-57, Cl. 23-106.
- Pfundt, Cecil G.: See—
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- Pfundt, Fredrick H. 25% to C. G. Pfundt, 25% to P. S. Cook, and 25% to C. Mackie. Apparatus for smoking fish or meat. 2,789,877, 4-23-57, Cl. 312-312.
- Phaneuf, Edgar A., H. Springer, and J. R. Enochs, to General Electric Co. Electric motor and method of manufacture therefor. 2,818,518, 12-31-57, Cl. 310-177.
- Phares, Earl K., to S. G. Taylor Chain Co. Machine for trimming weld flash from chain links. 2,806,345, 9-17-57, Cl. 59-29.
- Phares, Harley L. Mechanical post driver. 2,792,689, 5-21-57, Cl. 61-74.
- Pharis, William W., to General Dynamics Corp. Howler control circuit. 2,785,237, 3-12-57, Cl. 179-175.2.
- Pharis, William W., to General Dynamics Corp. Conference circuit. 2,787,663, 4-2-57, Cl. 179-18.
- Pharis, William W., to General Dynamics Corp. Trunk hunting final selector. 2,790,852, 4-30-57, Cl. 179-18.
- Pharis, William W., to General Dynamics Corp. Connector circuit-local and toll. 2,791,636, 5-7-57, Cl. 179-18.
- Pharis, William W., to General Dynamics Corp. Community dial office step-by-step connector. 2,792,452, 5-14-57, Cl. 179-18.
- Pharis, William W., to General Dynamics Corp. Telephone test selector. 2,806,093, 9-10-57, Cl. 179-175.2.
- Pharis, William W., to General Dynamics Corp. Telephone system. 2,816,957, 12-17-57, Cl. 179-5.
- Pharis, William W., and C. R. Fisher, Jr., to General Dynamics Corp. Telephone system. 2,792,451, 5-14-57, Cl. 179-18.
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- Pharris, John A.: See—
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- Phelan, James E., M. Marich, and E. J. Larson, to Vickers Inc. Power transmission. 2,803,223, 8-20-57, Cl. 121-41.
- Phelan, John A., to Phelan Mfg. Corp. Adjustable bottle suspending device. 2,814,457, 11-26-57, Cl. 248-328.
- Phelan, Louis A. M. Freezer mechanism. 2,810,557, 10-22-57, Cl. 259-109.
- Phelan Mfg. Corp.: See—
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- Phelon, R. E., Co., Inc.: See—
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- Phelon, Russell E. Flywheel magneto. 2,806,156, 9-10-57, Cl. 310-70.
- Phelon, Russell E., and J. F. Martin, to R. E. Phelon Co., Inc. Flywheel magneto. 2,786,154, 3-19-57, Cl. 310-153.
- Phelps, Claude A. Ladders for concrete structures. 2,785,842, 3-19-57, Cl. 228-45.
- Phelps Dodge Corp.: See—
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- Phelps, Elza C. Chair. 2,803,289, 8-20-57, Cl. 155-2.
- Phelps, Louis F. Vacuum bottle with pourer. 2,807,385, 9-24-57, Cl. 215-13.
- Phelps, Morton E. and M. F., and W. D. Phelps, Sr. Portable nut harvester. 2,781,625, 2-19-57, Cl. 56-328.
- Phelps, Morton F.: See—
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- Phelps, Richard J., to Sperry Rand Corp. Private line system. 2,812,509, 11-5-57, Cl. 340-147.
- Phelps, Richard W., to The Black-Clawson Co. Paper machinery. 2,776,802, 1-8-57, Cl. 242-58.
- Phelps, Stuart M.: See—
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- Phelps, Stuart M., to General Railway Signal Co. Automatic switch control system for classification yards. 2,793,287, 5-21-57, Cl. 246-134.
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- Phelps, Willie G. Tire pressure switch. 2,794,876, 6-4-57, Cl. 200-61.25.
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- Philcord Corp.: See—
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- Philp, Morris. Method of and apparatus for changing knitting patterns. 2,775,880, 1-1-57, Cl. 66—19.
- Philipp, Friedrich, to Gebrüder Busatis. Mounting means for side delivery board for mowing machine. 2,782,588, 2-26-57, Cl. 56—314.
- Philipp, Lawrence A., to American Motors Corp. Refrigerating apparatus. 2,801,045, 7-30-57, Cl. 230—235.
- Philipp, Lawrence A., to Nash-Kelvinator Corp. Hinge for low-temperature cabinets. 2,816,318, 12-17-57, Cl. 16—190.
- Philipp, Lawrence A., to American Motors Corp. Refrigerating apparatus. 2,818,210, 12-31-57, Cl. 230—206.
- Philippe, Howard L., to The Imperial Brass Mfg. Co. Tube bender. 2,796,785, 6-25-57, Cl. 81—15.
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- Philips, Adrain, to Baldwin-Lima-Hamilton Corp. Tube inspecting machine. 2,781,905, 2-19-57, Cl. 209—72.
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- Pellerin, Norvin L., Phillips, and Levy. 2,779,937.
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- Phillips, Arthur P., and J. C. Castillo, to Burroughs Wellcome & Co. (U. S. A.) Inc. Inhibiting polymethylene diquaternary curariform activity by α -stilbazoline derivatives. 2,780,577, 2-5-57, Cl. 167—65.
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- Phillips, Benjamin. Plastic awning construction. 2,785,445, 3-19-57, Cl. 20—57.5.
- Phillips, Benjamin, and F. C. Frostick, Jr., to Union Carbide and Carbon Corp. Higher fatty ester diepoxides and process of producing the same. 2,779,771, 1-29-57, Cl. 260—348.
- Phillips, Benjamin, and P. S. Starcher, to Union Carbide and Carbon Corp. Process for making oxirane compounds from olefins and aldehyde monoperacylates. 2,785,185, 3-12-57, Cl. 260—348.5.
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- Phillips, Benjamin, and P. S. Starcher, to Union Carbide and Carbon Corp. Aliphatic esters and ethers of 3,4-epoxy cyclohexyl-methanol. 2,794,029, 5-28-57, Cl. 260—348.
- Phillips, Benjamin, and P. S. Starcher, to Union Carbide and Carbon Corp. Aliphatic esters of 4,5-epoxycyclohexane-1,2-dicarboxylic acids. 2,794,030, 5-28-57, Cl. 260—348.
- Phillips, Benjamin, and P. S. Starcher, to Union Carbide and Carbon Corp. 7-oxabicyclo heptane-3-carboxylic acids and esters. 2,794,812, 6-4-57, Cl. 260—348.
- Phillips, Benjamin, F. C. Frostick, Jr., and P. S. Starcher, to Union Carbide Corp. Production of lower aliphatic peracids. 2,804,473, 8-27-57, Cl. 260—502.
- Phillips, Benjamin, P. S. Starcher, and B. D. Ash, to Union Carbide Corp. Process for producing peracids from aliphatic carboxylic acids. 2,814,641, 11-26-57, Cl. 260—502.
- Phillips, Bernard C., to The Tillotson Mfg. Co. Fuel feed and charge forming apparatus. 2,796,838, 6-25-57, Cl. 103—150.
- Phillips, Brooks. Ballot box. 2,777,633, 1-15-57, Cl. 232—2.
- Phillips, Charles E., deceased (C. A. Dean, executor), and P. N. Frade; said Frade assor, to said Phillips. Apparatus for forming protuberances on stamping tools. 2,805,322, 9-3-57, Cl. 219—130.
- Phillips, Charles E.; C. A. Dean, executor of the estate of said Phillips. Welding electrode. 2,817,751, 12-24-57, Cl. 219—146.
- Phillips, Charles S., to Thermoid Co. Band seeding device and hanger bracket therefor. 2,818,036, 12-31-57, Cl. 111—80.
- Phillips, Clifton H., to Shell Development Co. Closure for containers. 2,816,687, 12-17-57, Cl. 220—85.
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- Phillips, Eric T. A., and P. W. Sieber, to Muirhead & Co. Ltd. Stabilising arrangements for facsimile apparatus and the like. 2,796,530, 6-18-57, Cl. 250—205.
- Phillips, Everett D., deceased, R. W., executrix of said E. D. Axially adjustable fuel burner for furnaces. 2,793,686, 5-28-57, Cl. 158—15.
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- Phillips, Harold P., to Hastings Mfg. Co. Piston ring assembly. 2,815,996, 12-10-57, Cl. 309—45.
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- Phillips, Harold P., and E. J. Morgan, to Hastings Mfg. Co. Piston having a lined ring groove and liner therefor. 2,815,255, 12-3-57, Cl. 309—14.
- Phillips, Harry L., and L. S. Fain, to Floseal Corp. Carton blank forming die and method. 2,817,273, 12-24-57, Cl. 93—58.
- Phillips, Hermon E. Mooring buoy. 2,814,054, 11-26-57, Cl. 9—8.
- Phillips, Hermon E. Mooring buoy. 2,814,055, 11-26-57, Cl. 9—8.
- Phillips, Hubert E., and H. E. Hinman. Time cycle indicator. 2,797,870, 7-2-57, Cl. 235—71.
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- Phillips, John K., and A. M. Sookne, to The Goodyear Tire & Rubber Co. Process of making regenerated cellulose balloon fabric comprising shrinking with strong alkali and steam blasting and product produced thereby. 2,809,089, 10-8-57, Cl. 8—125.
- Phillips, John T., Jr., to Lilliston Implement Co. Peanut combine. 2,788,628, 4-16-57, Cl. 56—19.
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- Phillips, Joseph, and A. Kinsel, to L. Sonneborn Sons, Inc. Process of upgrading petrolatum. 2,779,710, 1-29-57, Cl. 196—17.
- Phillips, Joseph C. Elevator safety apparatus. 2,804,175, 8-27-57, Cl. 187—86.
- Phillips, Leonard R.: *See*—
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- Phillips, Leonard R., R. L. Miller, E. Godes, and F. J. Kurth, to Anemostat Corp. of America. Probe device for fluid condition measuring apparatus. 2,800,018, 7-23-57, Cl. 73—204.
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 Dale, Glenn H., and Shelton. 2,779,709.
 Davidson, Morgan W., and Ruehlen. 2,792,338.
 Davison, Joseph W. 2,777,305.
 De Boisblanc, Deslonde R. 2,779,917.
 De Boisblanc, Deslonde R. 2,789,269.
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 Dennis, William H., Jr. 2,793,985.
 De Vault, Albert N. 2,782,142.
 Dixon, Henry O. 2,818,118.
 Doss, Richard C., and Schnitzer. 2,800,509.
 Dougherty, Charles F., Jr. 2,790,004.
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 Fauske, Sig C. 2,816,096.
 Ferro, Bernardo J., Jr. 2,784,806.
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 Findlay, Robert A. 2,806,071.
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 Fisher, Henry B. 2,816,610.
 Fluegel, Dale A., and Lupfer. 2,813,237.
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 Forkel, Curt E., Hall, and Dean. 2,784,066.
 Fox, Homer M. 2,812,637.
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 Frey, Frederick E., and Hepp. 2,803,684.
 Fromm, Ellsworth H., and Schirmer. 2,810,260.
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 Goodhue, Lyle D., and Cantrel. 2,813,101.
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 Green, Richard M. 2,815,364.
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 Hall, Dick S. 2,797,335.
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 Hudson, Thomas B. 2,803,114.
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 Jones, Rufus V. 2,782,858.
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 Legatski, Theodore W., and Tooke. 2,783,640.
 Lupier, Dale E. 2,815,663.
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 Mabry, Lloyd C., Jr., and Myers. 2,817,626.
 MacQueen, Donald K. 2,813,138.
 Mahan, John E. 2,786,851.
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 Martinez, Jesus S. 2,805,732.
 Marx, John W., and Parker. 2,813,583.
 Mathis, Clyde H., Siedenstrang, and Vandiver. 2,813,141.
 Mayland, Bertrand J. 2,794,724.
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 Walker, Harry L. 2,816,858.
 Warner, Paul F. 2,790,008.
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 Wiley, Bruce F. 2,788,662.
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 Phillips, William A., to Surface Combustion Corp. Apparatus for treating a strip of metal. 2,775,825, 1-1-57, Cl. 34-242.
 Phillips, William I., and J. C. Lawrence, to C & H Supply Co. Sheet cleaning machines. 2,781,535, 2-19-57, Cl. 15-77.
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 Phillipsen, Harold, 20% to S. Rothberg, 20% to A. H. Kurtzman, 20% to J. Leder, and 20% to M. A. Rothberg. Laminated foil adhesive tapes and sheets. 2,804,416, 8-27-57, Cl. 154-53.5.
 Philmus, Herman. Jewelry construction. 2,789,380, 4-23-57, Cl. 41-10.
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 Piana, Renato, to Edit dell'Ing. Renato Piana & C-Società in Accomandita Semplice. Blind made of elements of plastics foldable to bellows shape. 2,814,341, 11-26-57, Cl. 160-229.
 Pianfetti, John A., O. F. Williams, and J. F. Allen, to Food Machinery and Chemical Corp. Insecticidal compositions comprising carbonyl bisdithiophosphate compounds and method of applying the same. 2,786,009, 3-19-57, Cl. 167-22.
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 Picchetti, Alberto, to Traficante, Inc. Accordion bass chord converter. 2,798,400, 7-9-57, Cl. 84-376.
 Picciano, Michael A., and C. Ekstein, to Vitro Corp. of America. Photo-cell construction. 2,779,811, 1-29-57, Cl. 136-89.
 Picciati, Antonio: *See*—
 Angiolini, Aristide and Barbuti. 2,817,119.
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 Picha, George M., to G. D. Searle & Co. Hydroxylated derivatives of 2,4,6-dimethyl-2-hydroxy-7-oxopolhydrophenanthrene-1-propionic acid- δ -lactones. 2,806,038, 9-10-57, Cl. 260-343.2.
 Pichitino, Albert M., to E. J. Johnson Co. Binding post structure. 2,806,999, 9-17-57, Cl. 339-129.
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 Pick, Joseph R., deceased, T. M. Lasinski, V. C. Baldwin and Continental Illinois National Bank and Trust Co. of Chicago; executors of said J. R. Pick. Handle for luggage and the like. 2,806,564, 9-17-57, Cl. 190-58.
 Pick, Joseph W., O. E. Martin, E. P. Gividen, and R. L. Frye, to Armco Steel Corp. Attachment for lifting tongs. 2,790,672, 4-30-57, Cl. 294-106.
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- Pickering, George R. Self-leveling spoon. 2,809,426, 10-15-57, Cl. 30—324.
- Pickett, Harold D., and L. Beckwith, Sr. Cam actuated collet. 2,777,703, 1-15-57, Cl. 279—556.
- Pickett, Howard W.: *See*—
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- Pickett, Lester D. Headlight for vehicles. 2,813,971, 11-19-57, Cl. 240—414.
- Pickett, Theodore C., to Minnesota Mining & Mfg. Co. Measuring and cutting device. 2,776,492, 1-8-57, Cl. 33—135.
- Picking, Henry J., to Gestetner Ltd. Sheet feeding mechanisms. 2,783,042, 2-26-57, Cl. 271—42.
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- Pickles, Joseph, to Hupp Corp. Vehicle window regulator. 2,781,191, 2-12-57, Cl. 268—124.
- Pickles, Joseph, to Ferro Stamping Co. Power window regulators. 2,798,719, 7-9-57, Cl. 268—124.
- Pickles, Sidney B., and M. A. Karpeles, to International Telephone and Telegraph Corp. Radio navigation receiver. 2,803,821, 8-20-57, Cl. 343—106.
- Pickman, Edgard, to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Method and device for constructing foundation piles in the ground. 2,779,161, 1-29-57, Cl. 61—57.
- Pickman, Edgard, to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Method for forming reinforced foundation piles with an enlarged base. 2,789,419, 4-23-57, Cl. 61—57.
- Pickover, Merwin B., to Bendix Aviation Corp. Frequency regulator. 2,801,381, 7-30-57, Cl. 322—32.
- Pickover, Merwin B., to Bendix Aviation Corp. Electric regulator system. 2,805,381, 9-3-57, Cl. 322—17.
- Picozzi, Vincent J., to General Electric Co. Integral forced lubricating pump assembly for totally enclosed fan cooled motors. 2,817,027, 12-17-57, Cl. 310—90.
- Pickrel, Howard H., to The Standard Register Co. Paper planographic plate. 2,805,621, 9-10-57, Cl. 101—149.2.
- Pickup, Bryan, to Dunlop Rubber Co. Ltd. Device for measuring tackiness. 2,775,888, 1-1-57, Cl. 73—150.
- Pickup, George, to Power Jets (Research and Development) Ltd. Rotors for turbines and similarly bladed fluid flow machines. 2,805,838, 9-10-57, Cl. 253—77.
- Pickwick Co.: *See*—
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Pitts, Robert D., and Corey. 2,777,159.
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- Piel, Alfred J. All weather feeder for animals. 2,807,235, 9-24-57, Cl. 119—52.
- Piel, Alfred J. Animal actuated liquid applicator for hide. 2,813,510, 11-19-57, Cl. 119—157.
- Piemont, Georges. Band conveyors. 2,792,103, 5-14-57, Cl. 198—121.
- Plen, Hsia-Si, to Wilkening Mfg. Co. Piston-ring construction. 2,777,740, 1-15-57, Cl. 309—24.
- Pientkewic, Martin. Tire removing device with circumferentially distributed pivoted thrust members. 2,796,117, 6-18-57, Cl. 157—12.
- Piepenbrink, Hans-Frank: *See*—
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- Pieper, Chester R. Fastening device. 2,815,554, 12-10-57, Cl. 24—243.
- Pieper, Ernest J.: *See*—
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- Pieper, Gustav: *See*—
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- Pieper, Werner: *See*—
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- Pierce, Bernard N., to The Merrow Machine Co. Belt and pulley guard for sewing machines. 2,788,760, 4-16-57, Cl. 112—261.
- Pierce, Charles W. Holding device for paint cans and the like. 2,783,077, 2-26-57, Cl. 294—33.
- Pierce, Earl R.: *See*—
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- Pierce, Earl R., to General Motors Corp. Air filter. 2,795,291, 6-11-57, Cl. 183—61.
- Pierce, Earl R., and G. P. Ransom, to General Motors Corp. Thermostatic control means. 2,797,675, 7-2-57, Cl. 123—122.
- Pierce, Earl W., to United States Steel Corp. Method of making killed resulfurized steel. 2,780,540, 2-5-57, Cl. 75—129.
- Pierce, Earl W., to General Motors Corp. Spark plug testing apparatus. 2,801,384, 7-30-57, Cl. 324—15.
- Pierce, Earl W. to U. S. Reduction Co. Method of deoxidizing steel with aluminum base alloy. 2,808,327, 10-1-57, Cl. 75—58.
- Pierce, Edwin L.: *See*—
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- Pierce, Firth: *See*—
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- Pierce, Firth, *See*—
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- Pierce, Firth, and G. A. Brettell, Jr., to the United States of America as represented by the Secretary of the Navy. Shipboard training device. 2,780,011, 2-5-57, Cl. 35—10.4.
- Pierce Governor Co., Inc.: *See*—
Benjamin, Walter E. 2,781,751.
- Pierce, Harold L. Apparatus for expanding earth materials. 2,807,453, 9-24-57, Cl. 263—21.
- Pierce, John A., to the United States of America as represented by the Secretary of the Navy. Mechanical indicator plotting board for loran navigation. 2,804,616, 8-27-57, Cl. 343—112.
- Pierce, John B. Foundation: *See*—
Da Fano, Ettore. 2,814,634.
Da Fano, Ettore, and Sternheim. 2,818,389.
Tidd, Elbert De F. 2,783,444.
- Pierce, John R.: *See*—
Hebenstreit, William B., and Pierce. 2,801,362.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Traveling wave slicer tube. 2,790,927, 4-30-57, Cl. 315—3.6.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Ribbon helix traveling wave tube. 2,792,519, 5-14-57, Cl. 315—3.5.
- Pierce, John R., to Bell Telephone Laboratories, Inc. High frequency amplifier. 2,801,361, 7-30-57, Cl. 315—3.6.
- Pierce, Leonard, Jr.: *See*—
Tanona, Charles C., and Pierce. 2,794,042.
- Pierce, Norton T., P. D. Bartlett, H. E. Erikson, M. N. Fairbank, W. J. McCune, Jr., and A. L. H. Wright, to Polaroid Corp. Photographic apparatus. 2,784,653, 3-12-57, Cl. 95—14.
- Pierce, Ogden R.: *See*—
McBee, Earl T., and Pierce. 2,777,870.
- Pierce, R. H., Mfg. Co.: *See*—
Carver, James W., Jr. 2,793,908.
- Pierce, Robert E., to Bemis Bro. Bag Co. Web perforating apparatus. 2,792,062, 5-14-57, Cl. 164—102.
- Pierce, Russell F., and V. G. Potter, to Union Carbide Corp. Apparatus for and method of treating plastic film. 2,810,933, 10-29-57, Cl. 18—48.
- Pierce, Stephen C. Device to introduce a liquid in metered amounts into a grinding mill. 2,805,827, 9-10-57, Cl. 241—171.
- Pierce, Ted M. Method of preparing a turkey loaf. 2,808,335, 10-1-57, Cl. 99—107.
- Pierce, William A., to Western Electric Co., Inc. Apparatus for testing finger wheels of dials. 2,816,365, 12-17-57, Cl. 33—174.
- Pierce, William C., to Warner Electric Brake & Clutch Co. Magnetic clutch with stationary winding. 2,796,962, 6-25-57, Cl. 192—84.
- Pierle, Charles G. Collapsible clothes dryer. 2,804,215, 8-27-57, Cl. 211—178.
- Pierpont, Edward K.: *See*—
Ames, Jack, and Pierpoint. 2,794,701.
- Pierre, Collet D.: *See*—
Larive, Henri, and Pierre. 2,798,066.
- Pierson, Bernice: *See*—
Ferdinand, Irwin J., and Pierson. 2,802,644.
- Pierson, Earl H., F. Verbanac, E. L. Foerster, and F. C. Boss, to Merck & Co., Inc. Streptomycin sulfate resin metathesis. 2,804,456, 8-27-57, Cl. 260—210.
- Pierson, Hugh C.: *See*—
Ferdinand, Irwin J., and Pierson. 2,802,644.
- Pierson, Norman A., to Naturizer Co. Cylindrical drum mill with plurality of pivotally mounted hammers on inner periphery. 2,797,051, 6-25-57, Cl. 241—176.
- Pierson, Paul R., H. H. Rugg, and R. R. Jank, Jr., to Westinghouse Electric Corp. Disconnecting switch. 2,813,178, 11-12-57, Cl. 200—163.
- Pierson, Philip C., and L. J. Oliver. Bun package. 2,809,896, 10-15-57, Cl. 99—172.
- Pierson, Robert M., to The Goodyear Tire & Rubber Co. Bis[2 - beta - (alpha' - 4'-pyridyl-ethylthio)propionamido-phenyl] disulfide. 2,810,724, 10-22-57, Cl. 260—294.8.
- Pierstorff, Buckley C., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,787,512, 4-2-57, Cl. 346—32.
- Pietenpol, William J., to Bell Telephone Laboratories, Inc. Method of optically testing semiconductor junctions. 2,790,952, 4-30-57, Cl. 324—158.
- Piester, Loyd W., to Columbia-Southern Chemical Corp. Packaging of benzene hexachloride. 2,801,745, 8-6-57, Cl. 206—84.
- Pietropinto, Anna M. D. Design cookie making appliance. 2,791,960, 5-14-57, Cl. 99—430.
- Pietruszynski, Frank E.: *See*—
Ruszkowski, Stanley J., and Pietruszynski. 2,804,283.
- Pietry, Raymond G., to Phillips Petroleum Co. Filter for seismic amplifier. 2,783,448, 2-26-57, Cl. 340—15.
- Pietry, Raymond G., to Phillips Petroleum Co. Electrical computer. 2,786,629, 3-26-57, Cl. 235—61.

- Piety, Raymond G., to Phillips Petroleum Co. Method and apparatus for logging wells. 2,787,757, 4-2-57, Cl. 324-1.
- Piety, Raymond G., to Phillips Petroleum Co. Apparatus for determining temperature conditions in a well. 2,787,906, 4-9-57, Cl. 73-155.
- Piety, Raymond G., to Phillips Petroleum Co. Simulator. 2,791,375, 5-7-57, Cl. 235-61.
- Piety, Raymond G., to Phillips Petroleum Co. Method of and apparatus for locating zones of lost circulation of drilling fluids. 2,805,346, 9-3-57, Cl. 250-83.6.
- Piety, Raymond G., to Phillips Petroleum Co. Seismic wave generation by the weight-dropping technique. 2,816,618, 12-17-57, Cl. 181-5.
- Pifer, Marion J., to Sylvania Electric Products Inc. Terminal board for antenna lead. 2,779,010, 1-22-57, Cl. 339-198.
- Pifer, Marion J., to Sylvania Electric Products Inc. Surround lighting structure for image screen of cathode ray tubes. 2,779,938, 1-29-57, Cl. 340-369.
- Pigatti, Antonio, and F. Jorio. Knockdown container. 2,801,761, 8-6-57, Cl. 217-12.
- Pigeon Hole Parking, Inc.: See—
Sanders, Leo K., and V. A. 2,788,193.
Sanders, Leo K., and V. A. 2,788,864.
- Pigeon, Jean. Apparatus for recovering of silver from photographic processing baths. 2,791,556, 5-7-57, Cl. 204-248.
- Pigford, John D., to Northrop Aircraft, Inc. Cable quadrant assembly. 2,810,300, 10-22-57, Cl. 74-501.5.
- Pigman, Calvin D., to General Electric Co. Air conditioning apparatus having condensate disposal means. 2,776,554, 1-8-57, Cl. 62-140.
- Pignons S. A.: See—
Bourgeois, Benjamin. 2,780,137.
- Pigo, Lewis, and H. W. Stoll, to Rohr Aircraft Corp. Method and machine for making cellular core. 2,789,203, 4-16-57, Cl. 219-78.
- Pigott, Reginald J. S., to Gulf Research & Development Co. Means for applying cutting liquids and greases to a lathe tool. 2,785,457, 3-19-57, Cl. 29-106.
- Pihl, George, to Acton Laboratories, Inc. Electrical phase shifting device. 2,778,988, 1-22-57, Cl. 323-123.
- Piip, Ants T.: See—
Golden, Norman J., and Piip. 2,794,952.
- Pike, Carl L.: See—
Faus, Harold T., and Pike. 2,810,037.
- Pike, Carl M., and C. M. Xeros, to Engineering Laboratories, Inc. Air course drill bits. 2,814,464, 11-26-57, Cl. 255-303.
- Pike, Charles O., and J. E. Snyder, to The Goodyear Tire & Rubber Co. Secondary closures. 2,790,285, 4-30-57, Cl. 53-39.
- Pike, Kenneth R., to West Bend Aluminum Co. Induction hardened crankpins. 2,800,809, 7-30-57, Cl. 74-595.
- Pike, Kenneth R., to West Bend Aluminum Co. Relief valve. 2,816,571, 12-17-57, Cl. 137-493.6.
- Pike, Robert D., deceased: K. B. Ray and The Stamford Trust Co., executors. Carbonation of recycle liquor in sodium sesquicarbonate production. 2,780,520, 2-5-57, Cl. 23-63.
- Pike, Robert D., deceased: K. B. Ray and The Stamford Trust Co., executors of said R. D. Pike. Method of producing refined soda ash from trona. 2,792,282, 5-14-57, Cl. 23-38.
- Pike, Robert D., deceased: K. B. Ray and The Stamford Trust Co., executors. Production of sodium sesquicarbonate. 2,798,790, 7-9-57, Cl. 23-63.
- Pike, Robert D., deceased: K. B. Ray and The Stamford Trust Co., executors of said R. D. Pike. System for the recovery of nitric oxide. 2,800,392, 7-23-57, Cl. 23-161.
- Pike, Robert D., deceased: K. B. Ray and The Stamford Trust Co., executors. Complete concentrated mixed fertilizer. 2,804,383, 8-27-57, Cl. 71-35.
- Piker, Herbert M., to The Hamilton Metal Products Co. Insulated container. 2,781,937, 2-19-57, Cl. 220-17.
- Piki, Josef, to E. I. du Pont de Nemours and Co. 2,2'-ethylene-bis(6-tertiarybutyl-paracresol). 2,792,428, 5-14-57, Cl. 260-619.
- Pikosky, Daniel J. Microscopic comparator. 2,795,167, 6-11-57, Cl. 83-24.
- Pilarczyk, Karol, to Worthington Corp. Thrust bearing. 2,813,761, 11-19-57, Cl. 308-9.
- Pilas, Frank J., R. K. Wolke, and J. A. Chase, to Radio Corp. of America. Electrode cage for electron discharge devices. 2,778,968, 1-22-57, Cl. 313-261.
- Pilch, John S. Log loader or the like. 2,799,412, 7-16-57, Cl. 214-147.
- Pilch, John S. Hydraulic trencher. 2,801,013, 7-30-57, Cl. 214-138.
- Pilch, John S. Hydraulic system and vacuum eliminating and relief valve therefor. 2,807,238, 9-24-57, Cl. 121-38.
- Pilch, John S. Material handling device. 2,807,379, 9-24-57, Cl. 214-140.
- Pilch, John S. Earth moving apparatus or the like. 2,813,645, 11-19-57, Cl. 214-138.
- Pilch, John S. Material handling device. 2,817,448, 12-24-57, Cl. 214-140.
- Pileggi, Joseph: See—
Pileggi, Vincent R. and J. 2,811,973.
- Pileggi, Vincent R. and J. Hair formers and retainers. 2,811,973, 11-5-57, Cl. 132-37.
- Pilia, Frank J.: See—
Young, Lloyd W., and Pilia. 2,788,436.
- Pilia, Frank J., L. W. Young, and S. H. Royer, to Union Carbide Corp. Tube butt welding. 2,817,745, 12-24-57, Cl. 219-61.
- Pilia, Frank J., and L. W. Young, to Union Carbide Corp. Circle welding machine. 2,818,493, 12-31-57, Cl. 219-125.
- Piliro, James, to The Englander Co., Inc. Sofa bed construction. 2,803,018, 8-20-57, Cl. 5-13.
- Pilkington Brothers (Canada) Ltd.: See—
Samson, Walter O., 2,790,271.
- Pilkington Brothers Ltd.: See—
Swain, Stanley, and Eden. 2,811,249.
- Pilkington, Harold O. S., and P. J. Bloomfield, to Bomford & Evershed Ltd. Attachments for vehicles for traversing heaped up material along the ground. 2,794,273, 6-4-57, Cl. 37-144.
- Pilkington, James B. Toothpaste dispenser. 2,793,792, 5-28-57, Cl. 222-191.
- Pilling, Alan H., to Richmond Screw Anchor Co., Inc. Concrete anchorages. 2,788,652, 4-16-57, Cl. 72-105.
- Pilling, Eugene A. Binder. 2,802,469, 8-13-57, Cl. 129-23.
- Pilling, George P., and Son Co.: See—
Baker, Elvin E. 2,779,327.
- Pillsbury Mills, Inc.: See—
Brabender, Carl W. 2,780,095.
Brabender, Carl W. 2,808,720.
Coyne, William R., Brabender, and Swanson. 2,782,012.
Werly, Emil F. 2,777,817.
Whitby, Kenneth T. 2,817,970.
- Pillstrom, Lawrence G. Snake tongs. 2,807,495, 9-24-57, Cl. 204-104.
- Piltz, Erich, to W. W. Lenkeit. Device for stretching the thread in hand-operated knitting machines. 2,791,109, 5-7-57, Cl. 66-146.
- Piltz, Erich, to W. W. Lenkeit. Needle bed for knitting machines. 2,800,005, 7-23-57, Cl. 66-115.
- Piltz, Erich, to W. W. Lenkeit. Mesh-stripper for hand-operated knitting machines. 2,817,962, 12-31-57, Cl. 66-109.
- Pinard, Henri N., to A. Beaudet and D. Gelinos. Rust disintegrator. 2,810,528, 10-22-57, Cl. 241-46.
- Pinard, Vivian E., to Richmond-Chase Co. Machine for removing butt ends from Brussels sprouts. 2,793,665, 5-28-57, Cl. 146-81.
- Pinardel, Pierre: See—
Branchu, Paul J., and Caudmont. 2,783,524.
- Pinchin, Frank J.: See—
Thrower, Ronald D., and Pinchin. 2,792,395.
- Pinckaers, Balthazar H., to Minneapolis-Honeywell Regulator Co. Transistor flame detector. 2,807,758, 9-24-57, Cl. 317-148.5.
- Pinckaers, Balthazar H., to Minneapolis-Honeywell Regulator Co. Hot water heating control system with non-linear water temperature control. 2,812,142, 11-5-57, Cl. 236-91.
- Pinckard, Dorothy H.: See—
Pinckard, Robert F. 2,812,520.
- Pinckard, Robert F., deceased: D. H. Pinckard, administratrix. Swimming pool guard. 2,812,520, 11-12-57, Cl. 4-172.
- Pinckney, Arthur S. Combined toothbrush hanger and bristle straightener. 2,797,886, 7-2-57, Cl. 248-113.
- Pincus, Gregory: See—
Fish, Charles A., Hayano, and Pincus. 2,797,186.
- Pindzola, Daniel: See—
Aterno, Joseph P., Heyner, Leyden, and Pindzola. 2,811,483.
- Pine, Orie E., to Midwest Mfg. Corp. Fuse holder. 2,816,193, 12-10-57, Cl. 200-133.
- Pine, Virginia W.: See—
Jamison, Martha B., and Pine. 2,817,569.
- Pine, William S. Hydraulic jack. 2,786,453, 3-26-57, Cl. 121-46.
- Pineider, Paul, to South Bend Tackle Co., Inc. Outboard motor carrier. 2,811,942, 11-5-57, Cl. 115-17.
- Pines Engineering Co., Inc.: See—
Bower, Bryon F. 2,810,422.
- Pines, Herman: See—
Pines, Herman, and Ipatieff. 2,804,489.
- Pines, Herman, and V. N. Ipatieff, deceased (by V. Haensel, H. Pines, and V. Kibort, executors), to Universal Oil Products Co. Conversion of olefinic hydrocarbons to isomers containing a rare centrally located double bond. 2,804,489, 8-27-57, Cl. 260-683.2.
- Pines, Robert M.: See—
Spivack, John D., Pines, and Kroll. 2,790,779.
- Pinhasik, Sidney N.: See—
Colt, Edwin W., Pinhasik, and Sulc. 2,803,577.
- Pink, Albert F. J.: See—
Harrowell, Douglas W. J., and Pink. 2,799,411.
- Pink, Martin M., to Chippewa Paper Products Co., Inc. Lampshade packing and shipping device. 2,812,058, 11-5-57, Cl. 206-65.
- Pinkard, Kathryn B., and E. A. Quinn. Safety switch. 2,817,733, 12-24-57, Cl. 200-142.
- Pinkas, Jaroslav: See—
Hubalek, Karel and J., and Pinkas, Zak, Zert, and Kuttan. 2,804,004.
- Pinke, August H.: See—
Hudson, Robert C., Oys, and Pinke. 2,792,170.
- Pinkerson, Albert S., to Berkson Products, Inc. Battery carrier. 2,817,791, 12-17-57, Cl. 294-92.
- Pinkerton, Dale F., and J. A. McAllister. Folding head rest for automobile seats. 2,801,677, 8-6-57, Cl. 155-174.

- Pinkerton, Frank J., Sr. Pick-hammer auto body tool. 2,782,665, 2-26-57, Cl. 81-15.
- Pinkerton, Harry B., Jr., to the United States of America as represented by the Secretary of the Army. Sear mechanism for a firearm. 2,779,247, 1-29-57, Cl. 89-135.
- Pinkerton, Harry B., Jr., to the United States of America as represented by the Secretary of the Army. Cam actuated sight. 2,792,632, 5-21-57, Cl. 33-56.
- Pinkham, Carl W.: *See*—
Kain, John F., and Pinkham. 2,800,525.
- Pinkus, Jerome R., and K. J. Petersen, to Utility Appliance Corp. Expandible combustion heater unit and support therefor. 2,796,860, 6-25-57, Cl. 126-99.
- Pinkvoss, Berthold P., to The Singer Mfg. Co. Adjustable eccentrics for sewing machines. 2,790,331, 4-30-57, Cl. 74-571.
- Pinnell, Stanley E. A.: *See*—
Warren, Francis G. R., and Pinnell. 2,814,037.
- Pinnell, Stanley E. A., to RCA Victor Co. Ltd. Microwave scanner. 2,809,370, 10-8-57, Cl. 343-762.
- Pinney, Reldon G.: *See*—
Allan, Harry T. 2,776,756.
- Pino, Andrew: *See*—
Mizrahi, Eli, and Pino. 2,813,928.
- Pino, Piero: *See*—
Natta, Giulio, Pino, and Ercoli. 2,805,245.
- Pinotti, Primo L., to California Research Corp. Diesel fuel composition. 2,789,892, 4-23-57, Cl. 44-69.
- Pinsker, Benjamin: *See*—
Morelli, Dino A., and Pinsker. 2,787,040.
- Pinson, Ellis R., Jr., and G. D. Laubach, to Chas. Pfizer & Co., Inc. Hydrocortisone pharmaceutical compositions. 2,786,835, 3-26-57, Cl. 260-239.5.
- Pinson, Ellis R., Jr., and G. D. Laubach, to Chas. Pfizer & Co., Inc. Pressor amines. 2,794,763, 6-4-57, Cl. 167-65.
- Pintarelli, Ralph. Radiation fins. 2,804,286, 8-27-57, Cl. 257-262.16.
- Pinter, George: *See*—
Lynch, Donald W., and Pinter. 2,807,943.
- Pinto, Michael, to Douglas Tool Co. Shearing cutters. 2,788,568, 4-16-57, Cl. 29-103.
- Pintsch Bamag A.-B.: *See*—
Conforto, Gaetano. 2,801,163.
- Pio, Albert S. Machine for spreading peat moss and the like. 2,784,880, 3-12-57, Cl. 222-177.
- Pioneer Heddle and Reed Co., Inc.: *See*—
Suchke, Frederick M. 2,808,073.
- Pioneer Rubber Co., The: *See*—
Ayres, Weldon R. 2,788,121.
- Pioneer Specialty Co.: *See*—
Carlson, Emil. 2,796,221.
Marion, Thomas E. 2,795,304.
- Pioneer Water Heater Corp.: *See*—
Stanley, Robert F., and Day. 2,781,977.
- Pipe Machinery Co., The: *See*—
Benninghoff, William L., and Sawdey. 2,798,234.
Finley, John E., and Fuller. 2,789,360.
- Piper, Melvin E. Vehicle wheel suspension means. 2,801,112, 7-30-57, Cl. 280-96.2.
- Piper, Melvin E. Steerable vehicle wheel suspension means. 2,801,113, 7-30-57, Cl. 280-96.2.
- Piper, Ronald N., and E. Dawson, to Powers-Samas Accounting Machines Ltd. Statistical machines. 2,811,309, 10-29-57, Cl. 235-61.9.
- Pipkin, Marvin, to General Electric Co. Coated lamp. 2,781,654, 2-19-57, Cl. 67-31.
- Pipkin, Robert J. Visual device for teaching musical instruments. 2,788,699, 4-16-57, Cl. 84-470.
- Piquerez, Erwin. Fluidtight watch case. 2,777,282, 1-15-57, Cl. 58-90.
- Piquerez, Erwin. Fluidtight timepiece. 2,806,343, 9-17-57, Cl. 58-90.
- Pircon, Ladislav J., to the United States of America as represented by the Secretary of the Army. Continuous thermatronic processing cell. 2,783,350, 2-26-57, Cl. 219-10.69.
- Pircon, Ladislav J., to A. W. Brickman, V. Conquest, F. J. Madden, W. B. Oleson, and E. T. Filbey, as trustees for the benefit of American Meat Institute Foundation. Means for sensing and recording the temperature of the contents of lard renderers and the like. 2,795,139, 6-11-57, Cl. 73-362.
- Pircon, Ladislav J., to A. W. Brickman, V. Conquest, F. J. Madden, W. B. Oleson, and E. T. Filbey. Thermatronic processing and container-cell combination. 2,807,698, 9-24-57, Cl. 219-10.57.
- Pirelli-General Cable Works Ltd.: *See*—
Penrose, James R. 2,817,363.
- Pirelli, S. p. A.: *See*—
Vanzo, Marcello, Giletta, and Nuara. 2,814,330.
- Pirelli Sapsa Società per Azioni: *See*—
Ciampolini, Valerio. 2,783,497.
Pedrocchi, Giovan B. 2,788,061.
- Pirelli Società per Azioni: *See*—
Boschi, Antonio, and Mastropietro. 2,783,959.
Chiovato, Luigi, and Legnani. 2,817,879.
Emanuelli, Luigi. 2,799,720.
Ruggeri, Giovanni A., and Angioletti. 2,813,566.
- Pirlot, Georges, to Solvay & Cie. Method of extracting sodium from amalgams. 2,798,803, 7-9-57, Cl. 75-66.
- Pirone, Alfred D., to Sperry Rand Corp. Gyromagnetic reference systems. 2,808,656, 10-8-57, Cl. 33-222.
- Piros, John J., to Sinclair Refining Co. Lubricating apparatus. 2,776,729, 1-8-57, Cl. 184-50.
- Pirot, Ernst: *See*—
Heisenberg, Erwin, and Pirot. 2,779,746.
- Pirot, Ernst, to Vereinigte Glanzstoff-Fabriken Aktiengesellschaft. Dimethylformamide-aliphatic diester spinning solutions of polyacrylonitriles. 2,814,603, 11-26-57, Cl. 260-31.6.
- Pirrone, Anthony L. M. Portable seat. 2,792,875, 5-21-57, Cl. 155-133.
- Pirz, Joseph J. Combined charcoal broiler and portable rotisserie. 2,791,959, 5-14-57, Cl. 99-421.
- Pisani, Joseph. Lock releasing device in refrigerators. 2,784,023, 3-5-57, Cl. 292-341.15.
- Pisano, James A. Cording presser-foot for sewing machines. 2,807,225, 9-24-57, Cl. 112-139.
- Pisano, Martin. Windshield wipers. 2,775,780, 1-1-57, Cl. 15-255.
- Pisano, Martin. Combustible gas detector. 2,781,249, 2-12-57, Cl. 23-255.
- Pischel, Brunhilde: *See*—
Pischel, Werner. 2,815,666.
- Pischel, Eckhard: *See*—
Pischel, Werner. 2,815,666.
- Pischel, Werner, deceased, B. Pischel acting for herself and E. Pischel, heirs. Device for measuring the unbalance of a revolving body. 2,815,666, 12-10-57, Cl. 73-462.
- Pisoni, Rino. Plant for the continuous cooling of laundry soap. 2,816,344, 12-17-57, Cl. 25-8.
- Pistole, Harry, J. G. Calvert, R. J. Williams, J. V. Morse, I. T. Pryor, III, C. B. Corley, Jr., and B. W. Evans, to Esso Research and Engineering Co. Sealing leaking tubing couplings without removing the tubing from the well. 2,804,147, 8-27-57, Cl. 166-14.
- Pistoles, Lambert R. Gages. 2,783,460, 2-26-57, Cl. 340-265.
- Pistor, Christel, to American Viscose Corp. Candle filter. 2,789,699, 4-23-57, Cl. 210-448.
- Pistor, Christel, and H. J. McDermott, to American Viscose Corp. Wet spinning apparatus. 2,789,315, 4-23-57, Cl. 18-8.
- Pitther, Leslie F., to Owens-Illinois Glass Co. Method of making glass-to-metal seals. 2,786,307, 3-26-57, Cl. 49-81.
- Pitkin, Wilfred R.: *See*—
Green, Edward C., Jones, and Pitkin. 2,793,951.
- Pitman, Alfred T. Flexible band type adjustable tire bead spreading tool. 2,799,328, 7-16-57, Cl. 157-1.21.
- Pitman Mfg. Co.: *See*—
Thornton-Trump, Walter E. 2,815,250.
- Pitman, Richard W., and F. W. Schlesinger, to the United States of America as represented by the Secretary of the Navy. Hand held low altitude bombsight. 2,815,694, 12-10-57, Cl. 88-1.
- Pitney-Bowes, Inc.: *See*—
Bach, John W., Frisbie, and Kubovy. 2,795,186.
Herrick, William W. 2,813,714.
Russell, Alva G. 2,778,568.
- Pitt, Burnett M.: *See*—
Miller, Arthur J., Pitt, and Grieger. 2,780,515.
- Pitt, Harold M., to Stauffer Chemical Co. Soil conditioning. 2,800,747, 7-30-57, Cl. 47-58.
- Pitt, Harold M., to Stauffer Chemical Co. Process for making sulfonium compounds. 2,807,648, 9-24-57, Cl. 260-607.
- Pitt, Norman, to Standard Steel Corp. Cellular drier. 2,810,968, 10-29-57, Cl. 34-109.
- Pitt, Paul A.: *See*—
Wosika, Leon R., Pitt, and Hodgson. 2,801,518.
- Pittman, Forrest C.: *See*—
Pyle, Edwin C., and Pittman. 2,781,100.
- Pittman, George F., Jr., to Westinghouse Electric Corp. Amplifiers. 2,809,343, 10-8-57, Cl. 323-89.
- Pittman, Raymond A.: *See*—
Rawden, Cecil E., and Pittman. 2,797,115.
- Pittman, Raymond A., and C. E. Rawden, to Ford Motor Co. Vehicle steering mechanism. 2,779,208, 1-29-57, Cl. 74-493.
- Pittman, Robert R., to Southwestern Industrial Electronics Co. Precision motor drive device. 2,783,426, 2-26-57, Cl. 318-171.
- Pittman, Wayne F. Strap buckle. 2,792,609, 5-21-57, Cl. 24-164.
- Pitton, Robert A. Flying top. 2,799,120, 7-16-57, Cl. 46-85.
- Pitts, John L. Electric baseball game. 2,811,357, 10-29-57, Cl. 273-88.
- Pitts, Kennard: *See*—
Herider, Elmer A., and Pitts. 2,777,504.
- Pitts, Robert D., to Pickwick Co. Poultry stunner. 2,814,068, 11-26-57, Cl. 17-11.
- Pitts, Robert D., and F. Corey, to Pickwick Co. Poultry picking machine. 2,777,158, 1-15-57, Cl. 17-11.1.
- Pitts, Robert D., and F. Corey, to Pickwick Co. Method of picking fowl. 2,777,159, 1-15-57, Cl. 17-45.
- Pittsburgh Brass Mfg. Co.: *See*—
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- Pittsburgh Coke & Chemical Co.:** *See—*
 Dimond, Harold L. 2,818,411.
 Kauffman, Harry F., Griffiths, and Mackay. 2,796,331.
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 Shrader, Marvin O., and Dimond. 2,809,926.
- Pittsburgh Consolidation Coal Co.:** *See—*
 Barthauer, Gerald, Phinney, Wasp, and Speller. 2,791,472.
 Clancey, James T., Phinney, Regan, and Wasp. 2,791,471.
 Gorin, Everett. 2,781,248.
 Gorin, Everett, Jones, and Neuworth. 2,789,144.
 Lee, Arthur L. Re. 24,327.
 Neuworth, Martin B. 2,777,881.
 Neuworth, Martin B. 2,785,206.
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 Neuworth, Martin B., and Hotelling. 2,810,765.
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- Pittsburgh-Des Moines Steel Co.:** *See—*
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- Pittsburgh Forgings Co.:** *See—*
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- Pittsburgh Metallurgical Co., Inc.:** *See—*
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- Pittsburgh Plate Glass Co.:** *See—*
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 Bader, Alfred R. 2,790,830.
 Bader, Alfred R. 2,811,564.
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 Bader, Alfred R. 2,812,340.
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 Black, Lloyd V. 2,805,520.
 Cochran, Carl J., and Neuhausen. 2,781,534.
 Cox, Robert P., Yeager, and Buetow. 2,788,306.
 Cusick, Charles S. 2,780,039.
 Cusick, Charles S., and Lange. 2,782,576.
 Cutler, Adolphus E. 2,800,960.
 Cutler, Adolphus E. 2,800,961.
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 Emhiser, Donald E. 2,793,128.
 Englehart, Oscar D. 2,805,452.
 Evans, William R. 2,778,689.
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 Freiberg, James M. 2,790,270.
 Geary, Eugene W., and Kreaeger. 2,792,312.
 Golightly, James S. 2,794,300.
 Hainsfurther, Robert M. 2,795,083.
 Harvey, Adelbert W., Terry, and Reis. 2,784,587.
 Hoyet, Eugene, and Hazen. 2,776,527.
 Lytle, William O. 2,777,044.
 McAlpine, Kenneth B., and Rinehart. 2,782,319.
 Mirr, Gordon J., and Bader. 2,809,182.
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 Perry, Robert D., and Koche. 2,799,978.
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 Shields, George B., and Stepp. 2,817,117.
 Stevens, Stephen, and Jorgensen. 2,787,360.
 Stewart, Arnold K. 2,794,418.
 Toney, Edward F. 2,800,983.
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 Van Chief, William C., Jr. 2,817,108.
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- Pittsburgh Steel Co.:** *See—*
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- Pittwell, Laurence R., to Imperial Chemical Industries Ltd.**
 Hydration of olefins over tungstic acid-alumina catalysts. 2,807,655, 9-24-57, Cl. 260—641.
- Pityo, Albert F.** Method of producing metallic ribbon attaching element and welding the same. 2,779,858, 1-29-57, Cl. 219—78.
- Pityo, Albert F.** Method of producing a diode element. 2,779,993, 2-5-57, Cl. 29—155.5.
- Pityo, Albert F.** Method of and apparatus for forming and welding pins to one or both sides of a metal strip. 2,784,297, 3-5-57, Cl. 219—78.
- Pitzer, Emory W., to Phillips Petroleum Co.** Activated alpha alumina, its formation, and its use. 2,800,518, 7-23-57, Cl. 260—683.3.
- Pitzipio, George O.** Respiration mask with air heater means. 2,784,714, 3-12-57, Cl. 128—146.
- Pixley, William I.** Guide means for roll straighteners. 2,791,260, 5-7-57, Cl. 153—54.
- Piziali, Alfred:** *See—*
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- Pizor Container Corp.:** *See—*
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- Pizzo, Vita, and H. E. Hasselbusch, Jr.** Protective device. 2,779,109, 1-29-57, Cl. 36—70.
- Pizzuto, Michael J.:** *See—*
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- Pjerrou, Charles F., to Northrop Aircraft, Inc.** Elongation indicating and controlling mechanism. 2,812,584, 11-12-57, Cl. 33—148.
- Place, Mark I., and A. P. Rasmussen, to Westinghouse Electric Corp.** Aircraft control system. 2,801,618, 8-6-57, Cl. 121—41.
- Plachecki, Leo R.** Drill-rod holder. 2,784,624, 3-12-57, Cl. 81—19.
- Plachter, Abraham, 1/2 to F. Schwartz.** Movable mouth figure. 2,798,334, 7-9-57, Cl. 46—126.
- Placke, Everett H., and W. E. Eickman, to The National Cash Register Co.** Slip feeler control in accounting machines. 2,811,918, 11-5-57, Cl. 101—93.
- Placke, Everett H., and H. H. Oehertman, to The National Cash Register Co.** Record material feeding controls. 2,813,718, 11-19-57, Cl. 271—51.
- Plagemann, Werner.** Process of making a bolt head by permanently securing a nut to a threaded rod. 2,810,139, 10-22-57, Cl. 10—27.
- Plagge, Howard A.:** *See—*
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- Plahn, Donald E., 1/2 to L. E. Johnson.** Corn planter box gauge. 2,777,205, 1-15-57, Cl. 33—126.
- Plambeck, Louis, Jr., to E. I. du Pont de Nemours and Co.** Photopolymerizable elements. 2,791,504, 5-7-57, Cl. 96—84.
- Plamondon, Ambrose D.:** *See—*
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- Planert, Edward H., to Planert Skate Co.** Tendon guard. 2,789,374, 4-23-57, Cl. 36—1.
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- Planett, Earl C.** Device for descaling and cleaning wire rod. 2,804,196, 8-27-57, Cl. 205—22.
- Planiol, René J. H.** Arrangement for controlling the throughput of a fine pulverulent material through a port. 2,817,561, 12-24-57, Cl. 302—56.
- Plan-It Homes:** *See—*
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- Plank, Charles J.:** *See—*
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- Plank, Johann:** *See—*
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- Plant, Edwin K., to Columbia-Southern Chemical Corp.** Chlorination process. 2,805,120, 9-3-57, Cl. 23—87.
- Plant, Leland G., deceased; P. L. M. Plant, executrix.** Time mounting for raking wheel. 2,811,008, 10-29-57, Cl. 56—367.
- Plant, Leland G., deceased; P. L. M. Plant, executrix.** Side delivery rake. 2,811,009, 10-29-57, Cl. 56—377.
- Plant, Pattie L. M.:** *See—*
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 Plant, Leland G. 2,811,009.
- Plante, Louis P., and M. Roy, to Page Belting Co.** Slide rod check strap. 2,796,890, 6-25-57, Cl. 139—166.
- Plante, Wilfred M.:** *See—*
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- Planters Cotton Oil & Fertilizer Co.:** *See—*
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- Plass, Robert J., to Western Precipitation Corp.** Apparatus for heating finely divided solid material. 2,796,249, 6-18-57, Cl. 263—32.
- Plastaras, James C., to Mergenthaler Linotype Co.** Typographic negative film. 2,781,598, 2-19-57, Cl. 41—46.
- Plastaras, James C., to Mergenthaler Linotype Co.** Photographic film correction apparatus. 2,794,487, 6-4-57, Cl. 154—42.1.
- Plastaras, James C., and E. F. Coleman, to Mergenthaler Linotype Co.** Method of and means for correcting a phototypographical film. 2,794,486, 6-4-57, Cl. 154—42.1.
- Plastex Co., a division of The Zimmerman Co., The:** *See—*
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- Plastex Molding Co.:** *See—*
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- Plastic Containers, Inc.:** *See—*
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- Plastic Film Corp.:** *See—*
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- Plastic Golf Products, Inc.:** *See—*
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- Plastic Molded Arts Corp.:** *See—*
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- Plastic Top Fabricators, Inc.:** *See—*
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- Plastifix Inc.:** *See—*
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- Plastimayd Products Corp.:** *See—*
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- Plasti-Print, Inc.:** *See—*
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- Plastiques Dentaires & Médicaux:** *See—*
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- Plastone Corp.:** *See—*
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- Plastray Corp.:** *See—*
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- Platalloy Corp.:** *See—*
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- Plath, Hilmar R.:** *See—*
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- Plati, John T., and W. Wenner, to Hoffmann-La Roche Inc.** Purification of triiodothyronine. 2,784,222, 3-5-57, Cl. 260—519.

- Plati, John T., and W. Wenner, to Hoffmann-La Roche Inc. Octahydro-pyrido [4,3-D] pyrimidine compounds. 2,802,826, 8-13-57, Cl. 260—256.4.
- Platner, John B., and C. D. Moore, to Chrysler Corp. Intake manifold and fuel feeding system for high output engines. 2,791,205, 5-7-57, Cl. 123—55.
- Platow, Raymond C., to Bell Telephone Laboratories, Inc. Sealing electrical apparatus. 2,792,441, 5-14-57, Cl. 174—23.
- Platt, Bertha L.: *See—*
- Platt, John W., Sr., and J. W. Platt, Jr. 2,791,782.
- Platt, Gilbert G. Ice tray. 2,796,742, 6-25-57, Cl. 62—108.5.
- Platt, John G., to Flex-O-Lators, Inc. Padding assembly for spring structures. 2,779,036, 1-29-57, Cl. 5—35.4.
- Platt, John G., to Flex-O-Lators, Inc. Spring base for seat cushions. 2,794,493, 6-4-57, Cl. 155—179.
- Platt, John W., Jr.: *See—*
- Platt, John W., Sr., and J. W. Platt, Jr. 2,791,782.
- Platt, John W., Sr., deceased, by B. L. Platt, executrix, and J. W. Platt, Jr. Adjustable flush valve bracket. 2,791,782, 5-14-57, Cl. 4—57.
- Platt Luggage, Inc.: *See—*
- Platt, Sidney. 2,787,350.
- Platt, Sidney, to Platt Luggage, Inc. Hand luggage. 2,787,350, 4-2-57, Cl. 190—53.
- Platteeuw, Joost C. G. Meyer, and G. A. M. Diepen, to N. V. Billiton Maatschappij. Process for the recovery of tin or tin dioxide from materials containing tin in an oxide form. 2,815,267, 12-3-57, Cl. 23—144.
- Platzman, Michael M., to L. Pearle, d. b. a. Radar Control Devices Co. Speed monitor. 2,785,395, 3-12-57, Cl. 343—8.
- Plax Corporation: *See—*
- Bailey, James. 2,810,934.
- Du Bois, John H. 2,784,882.
- Strauss, Robert G. 2,804,648.
- Pleasant, John W.: *See—*
- Jordan, Franklin J., and Pleasant. 2,796,669.
- Plechner, Sophie L.: *See—*
- Berger, Frank M., and Plechner. 2,790,747.
- Pledger, Huey, Jr.: *See—*
- Kundiger, Donald G., and Pledger. 2,778,861.
- Kundiger, Donald G., and Pledger. 2,797,248.
- Kundiger, Donald G., and Pledger. 2,813,131.
- Kundiger, Donald G., and Pledger. 2,813,132.
- Pleines, William H.: *See—*
- Dwyer, Richard M., and Pleines. 2,792,042.
- Plesch, Janos O., to P. H. Plesch. Razor blades for use in safety razors. 2,794,252, 6-4-57, Cl. 30—351.
- Plesch, Peter H.: *See—*
- Plesch, Janos O. and P. H. 2,794,252.
- Plescica, Otto J.: *See—*
- Mantell, Russell M., and Plescica. 2,776,190.
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- Plessey Co. Ltd., The: *See—*
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- Hall, Richmond E. 2,787,687.
- Hilton, John L. 2,808,785.
- Jarvis, Percival J. 2,816,510.
- Moore, Norman C. 2,785,974.
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- Trowbridge, David R. 2,810,261.
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- Pletsch, Erich C., and M. Bock, II, to Exomet Inc. Method of applying exothermic material to the hot-top of steel. 2,791,816, 5-14-57, Cl. 22—216.
- Pletsch, Erich C., and L. M. Diran, to Exomet, Inc. Moldable exothermic compositions. 2,798,818, 7-9-57, Cl. 106—38.35.
- Pletscher, Theodor. Bicycle frame with luggage carrier. 2,809,053, 10-8-57, Cl. 280—281.
- Pletz, Bruce O. Sinkers pellet splitting and line clamping device. 2,806,229, 9-17-57, Cl. 7—5.4.
- Pleuger, Friedrich W.: *See—*
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- Pleuger, Friedrich W. Submersible electric motor. 2,786,952, 3-26-57, Cl. 310—87.
- Pleuger, Friedrich W., and J. C. Grober, to F. W. Pleuger. Pumping equipment for viscous liquids. 2,814,253, 11-26-57, Cl. 103—44.
- Pleuss, Herbert E., to Heresite & Chemical Co. Self-curing synthetic rubber. 2,776,269, 1-1-57, Cl. 260—23.7.
- Plint, Dennis J. W., to The Hoover Co. Thermostatic control means particularly for electric irons. 2,814,711, 11-26-57, Cl. 219—25.
- Plodari, Francesco. Safety lockset. 2,793,895, 5-28-57, Cl. 292—150.
- Ploegsma, Antonie W., to Hartford National Bank and Trust Co. as trustee. Enveloped diamond die and method of making same. 2,778,250, 1-22-57, Cl. 76—107.
- Ploegsma, Antonie W., to North American Phillips Co., Inc. Stylus and method of making same. 2,814,495, 11-26-57, Cl. 274—38.
- Ploetz, Edwin C., to A. O. Smith Corp. Spud fitting coating apparatus. 2,800,876, 7-30-57, Cl. 118—326.
- Plomb Tool Co., The: *See—*
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- Johnson, Richard N., and Brame. 2,791,141.
- Pepperdine, Ben. 2,811,068.
- Plotkin, Frederic P., to Shore-Calnevar, Inc. Vehicle wheel covers. 2,809,076, 10-8-57, Cl. 301—37.
- Plubell, Arthur S. Ornamental device. 2,815,439, 12-3-57, Cl. 240—10.
- Pluckness, William K. Separation of zirconium and hafnium halides. 2,816,814, 12-17-57, Cl. 23—17.
- Pluin, Jan, to Shell Development Co. Preparation of ammonium sulfate. 2,795,486, 6-11-57, Cl. 23—119.
- Plumb, D. S., Co., Inc.: *See—*
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- Plumb, Robert R., to Iowa Mfg. Co. of Cedar Rapids, Iowa. Pug mill shaft seal. 2,805,874, 9-10-57, Cl. 286—11.13.
- Plumb, Ross F. Portable apparatus for burning circular holes in metal. 2,801,098, 7-30-57, Cl. 266—23.
- Plumley, Glenn V., and W. B. Stevens. Veterinarian's animal restrainer. 2,804,845, 9-3-57, Cl. 119—102.
- Plumley, Harold J.: *See—*
- Filbert, Howard C., Jr., and Plumley. 2,789,506.
- Plumley, Harold J. Magnetic inertia controlled fuze. 2,775,941, 1-1-57, Cl. 102—70.2.
- Plummer, Alexander R. F., to The General Electric Co., Ltd. Apparatus for and method of forming P-N junction devices. 2,794,899, 6-4-57, Cl. 219—85.
- Plummer, Harold: *See—*
- Parker, Truman A., Jr., and Plummer. 2,808,114.
- Plummer, Harold, to Rohr Aircraft Corp. Fluid container and discharge control valve. 2,804,929, 9-3-57, Cl. 169—9.
- Plummer, Harry D. Toy walking puppet. 2,783,586, 3-5-57, Cl. 46—110.
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- Plummer, William J., Jr. Weedless fishhook. 2,789,387, 4-23-57, Cl. 43—436.
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- McMillan, James G., Jr., and Plunkett. 2,776,966.
- Plymouth Products Co.: *See—*
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- Pneumafil Corp.: *See—*
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- Pneumatic Conveyors Ltd.: *See—*
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- Vergobbi, Robert W. 2,794,745.
- Tiano, Dominic W., and Whitehead. 2,808,856.
- Poarch, Arthur E., and G. W. Twieg, to Avoset Co. Gel-forming composition and method of manufacture. 2,809,893, 10-15-57, Cl. 99—131.
- Poarch, Arthur E., and G. W. Twieg, to Avoset Co. Gel-forming composition and method of producing the same. 2,809,894, 10-15-57, Cl. 99—132.
- Pobanz, Clifford L. Hydraulic anti-roll stabilizer system. 2,804,311, 8-27-57, Cl. 280—112.
- Pochopien, Wojciech G. Snowplow attachment for mower. 2,784,505, 3-12-57, Cl. 37—53.
- Pochopien, Wojciech G. Snow plow. 2,803,071, 8-20-57, Cl. 37—53.
- Pocock, Frederick: *See—*
- Molins, Desmond W., Pocock, and Hopkins. 2,779,243.
- Pocock, Robert C.: *See—*
- Stedman, Frances E., and Pocock. 2,784,105.
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- Pocoski, Edward J., and W. G. Hennessy. Combined tool. 2,779,098, 1-29-57, Cl. 30—155.
- Podell, Howard I. Threaded fastener with locking insert having projection and recess engaging means. 2,815,787, 12-10-57, Cl. 151—7.
- Podell, Howard I., and M., to the United States of America as represented by the Secretary of the Army. Connector. 2,813,174, 11-12-57, Cl. 200—133.
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- Podesta, Armando. Method for the sealing of containers by means of pre-curved metal caps. 2,802,322, 8-13-57, Cl. 53—16.
- Podhajsky, Theodore A.: *See—*
- McElhinney, Eric M., and Podhajsky. 2,780,374.

- Podnos, Selim S., and B. H. Tabb, Jr., to the United States of America as represented by the Secretary of the Army. Delayed arming booster. 2,807,211, 9-24-57, Cl. 102-79.
- Podolan, Edward G., to General Motors Corp. Abutting front and rear door window-seal construction for hard top sedans. 2,797,958, 7-2-57, Cl. 296-44.
- Podolan, Edward G., to General Motors Corp. Vehicle door operated roof flipper panel. 2,815,977, 12-10-57, Cl. 296-44.
- Podschus, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Colloidal silica products. 2,794,783, 6-4-57, Cl. 252-313.
- Podesta, Armando, to Veri Industriali S. a. r. l. Reusable closure for jars and like containers and jar therefor. 2,812,093, 11-5-57, Cl. 215-96.
- Poe, Lloyd R., to C. Hartwell, d. b. a. Hartwell Aviation Supply Co. Magnetic latch. 2,808,281, 10-1-57, Cl. 292-251.5.
- Poelma, Jacob: *See*—
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- Poepsel, Donald A.: *See*—
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- Poet, Robert D. Clearance signalling device for automotive vehicles and the like. 2,813,940, 11-19-57, Cl. 200-61.44.
- Poethig, Robert E., and E. R. Billington, to The Bastian-Blessing Co. Apparatus for liquid filling of pressure storage tanks. 2,813,402, 11-19-57, Cl. 62-1.
- Poetsch, Chester E., to Smith, Kline & French Laboratories. Compositions containing cortisone or hydrocortisone with phenylephrine. 2,801,202, 7-30-57, Cl. 167-77.
- Poffenberger, Noland: *See*—
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- Poffenberger, Noland, and V. S. Morello, to The Dow Chemical Co. Process for the extraction and recovery of aromatic hydrocarbons from hydrocarbon mixtures. 2,803,685, 8-20-57, Cl. 260-674.
- Poganski, Sigfried, to Licentia Patent-Verwaltungs-G. m. b. H. Electric un-symmetrically conductive systems, particularly dry-plate rectifiers. 2,786,166, 3-19-57, Cl. 317-234.
- Pogge, Raymond C.: *See*—
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- Poggio, Mario J. Utensil lifter. 2,786,708, 3-26-57, Cl. 294-34.
- Pohl, Walter, and H. Kraft, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the recovery of pentaerythritol. 2,790,011, 4-23-57, Cl. 260-637.
- Pohland, Albert, to Eli Lilly and Co. Synthesis of 1-benzamido-1-phenyl-3-piperidinopropane. 2,778,835, 1-22-57, Cl. 260-294.
- Pohland, Albert, to Eli Lilly and Co. Substituted benzamido-piperidinopropanes. 2,793,212, 5-21-57, Cl. 260-294.
- Pohland, Albert, to Eli Lilly and Co. Substituted benzamido-piperidinopropanes. 2,798,072, 7-2-57, Cl. 260-294.
- Pohlandt, Walter: *See*—
Pölguter, Franz, Pöhlndt, and Linneweh. 2,792,600.
- Pohlman, Reimar, to Firma USAG, Ultraschall A. G. Flaw detection device using reflected ultrasonic acoustic waves. 2,799,157, 7-16-57, Cl. 73-67.7.
- Pohlman, William A., to Gardner Mfg. Co. Insect exterminator. 2,778,150, 1-22-57, Cl. 43-139.
- Pohorilla, Michael J., and R. K. Smith, to Kendall Refining Co. Lithium soap-boric acid ester containing grease. 2,815,325, 12-3-57, Cl. 252-42.1.
- Pohrt, Henry O.: *See*—
Teschendorf, Gerald P., Donovan, and Pohrt. 2,799,486.
- Point, Marcel: *See*—
Felici, Noel, and Point. 2,818,513.
Felici, Noel, Point, and Moerl. 2,797,345.
- Pointer, Robert W., to L. B. De Long. Platform construction. 2,775,869, 1-1-57, Cl. 61-46.5.
- Poirier, Robert H., to the United States of America as represented by the United States Atomic Energy Commission. Recovery of uranium from aqueous solutions. 2,798,084, 7-2-57, Cl. 260-429.1.
- Poirier, Robert H., to the United States of America as represented by the United States Atomic Energy Commission. Method of recovering uranium compounds. 2,811,412, 10-29-57, Cl. 23-14.5.
- Poised Power Corp.: *See*—
Werner, Ralph M. 2,800,030.
- Poitras, Edward J. Blood or sterile fluid equipment. 2,784,932, 3-12-57, Cl. 249-3.
- Poizat, Louis, and C. Ortolì, to Societe des Usines Chimiques Rhone-Poulenc. Process for the preparation of indole and homologues thereof. 2,811,530, 10-29-57, Cl. 260-319.
- Poje, Albert J. Multi-purpose rubber stamps. 2,784,668, 3-12-57, Cl. 101-109.
- Pokorny, James. Gun-sight mechanism. 2,788,600, 4-16-57, Cl. 42-1.
- Pokorny, Oldrich S., and M. H. Farmer, to Esso Research and Engineering Co. Liquid-liquid contacting apparatus. 2,777,758, 1-15-57, Cl. 23-270.5.
- Pokorny, Stephen S. Tractor loader. 2,803,359, 8-20-57, Cl. 214-140.
- Pokorski, Joseph W., to United Shoe Machinery Corp. Die cutting presses and cutting surfaces. 2,792,883, 5-21-57, Cl. 164-23.
- Pokryfke, John A., to W. D. Allen Mfg. Co. Hose rack. 2,780,430, 2-5-57, Cl. 248-90.
- Pola-Lux Gesellschaft fur Blendschutz und Raumbildprojektion mit beschränkter Haftung: *See*—
Wiemer, Kurt F. G. and P. E. A. 2,811,077.
- Poland, Frank F., to Revere Copper and Brass Inc. Electric furnaces. 2,798,108, 7-2-57, Cl. 13-31.
- Polanin, Walter R., to American Steel Foundries. Clasp brake. 2,809,719, 10-15-57, Cl. 188-56.
- Polanin, Walter R., to American Steel Foundries. Rotor brake suspension arrangement. 2,815,095, 12-3-57, Cl. 188-59.
- Polarad Electronics Corp.: *See*—
Jaffe, David L. 2,787,706.
Jaffe, David L. 2,818,553.
Jaffe, David L., and Ross. 2,818,529.
Skwarek, Frank. 2,808,506.
- Polard, Jean, and R. Herbrecht, to Societe Anonyme dite: Compagnie Electro Mecanique. Comb device for machines for inserting coils in the slots of stators of electrical machines. 2,815,564, 12-10-57, Cl. 29-205.
- Polarobe Co.: *See*—
Sullivan, William P. 2,817,843.
- Polaroid Corp.: *See*—
Balkan, Samuel A. 2,804,652.
Bartlett, Philip D. 2,778,269.
Bing, Herbert A., and Hunter. 2,812,420.
Eloranta, Vaito K. 2,789,488.
Erllichman, Irving. 2,788,722.
Fairbank, Murry N. 2,778,734.
Fairbank, Murry N. 2,780,972.
Fairbank, Murry N. 2,780,974.
Fairbank, Murry N. 2,794,377.
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Fairbank, Murry N., McCune, Wareham, and Whittier. 2,794,376.
Fairbank, Murry N., and Wareham. 2,804,811.
Grey, David S. 2,784,645.
Land, Edwin H. 2,788,707.
Land, Edwin H. 2,789,054.
Land, Edwin H. 2,798,021.
Land, Edwin H. 2,802,735.
Land, Edwin H., and Green. 2,794,740.
Land, Edwin H., and Shurcliff. 2,779,017.
Pierce, Norton T., Bartlett, Erikson, Fairbank, McCune, and Wright. 2,784,653.
Ryan, William H. 2,811,893.
Wareham, Richard R. 2,794,378.
West, Cutler D. 2,788,710.
West, Cutler D. 2,793,148.
West, Cutler D. 2,811,898.
Wolff, Otto E. 2,804,812.
- Polazzolo, Samuel. Thermos insulated container for baby bottle. 2,808,167, 10-1-57, Cl. 215-13.
- Poldervaart, Jacob, W. A. Kuyvenhoven, T. C. van den Dool, and A. 't Hart. Process for the preparation of artificial fertilizer. 2,805,138, 9-3-57, Cl. 71-25.
- Pole, Gordon R., to Minnesota Mining & Mfg. Co. Agricultural granule. 2,806,773, 9-17-57, Cl. 71-64.
- Poleete, Inc.: *See*—
Wilson, Woodrow S., Carabel, and Malick. 2,800,259.
- Polen, Percy B., to Velsicol Chemical Corp. Process for preparing a halogenated diene. 2,813,914, 11-19-57, Cl. 260-648.
- Polese, James P., to Eitel-McCullough, Inc. Ceramic electron tube. 2,814,750, 11-26-57, Cl. 313-247.
- Polhemus, Dale N.: *See*—
Wallin, Jack R., and Polhemus. 2,808,722.
- Polhemus, John K., to General Aniline & Film Corp. Back latch device for a camera. 2,808,769, 10-8-57, Cl. 95-11.
- Polhemus, Von D.: *See*—
Ruegg, Max, and Polhemus. 2,789,812.
- Poliansky, Alejandro. Apparatus for utilization of solar heat. 2,791,214, 5-7-57, Cl. 126-270.
- Policansky, Hyman. Tipping mechanism for filter tip assembling machines and the like. 2,805,857, 9-10-57, Cl. 271-51.
- Polich, Anthony, to Sabre Metal Products, Inc. Vehicle mounted magnet. 2,818,176, 12-31-57, Cl. 209-215.
- Polidor, Edward C., W. de Boer, and G. A. Betts, to Optical Gaging Products, Inc. Profile contour machine. 2,789,354, 4-23-57, Cl. 33-23.
- Polin, Herbert S., to Colorescent Corp. Picture projector and movable display device. 2,810,320, 10-22-57, Cl. 88-24.
- Poling, Ezra C.: *See*—
Ott, Howard F., and Poling. 2,780,574.
- Polioni, Paul. Horseshoe. 2,791,280, 5-7-57, Cl. 168-24.
- Polios, Spero M.: *See*—
Vize, Joseph C. 2,796,676.
- Polishuk, Arthur T.: *See*—
Jezl, James L., and Polishuk. 2,815,827.
- Polissar, Milton J., to the United States of America as represented by the United States Atomic Energy Commission. Process for the production of an activated form of UO₂. 2,807,519, 9-24-57, Cl. 23-14.5.
- Politzer, Alfred, and L. J. Stoll. Abrasive article. 2,804,728, 9-3-57, Cl. 51-185.
- Politzer, Benjamin F.: *See*—
Gans, Jerome T., and Politzer. 2,805,515.
- Polivka, John N., to General Mills, Inc. Electrically heated appliance with expansion stabilizer. 2,797,292, 6-25-57, Cl. 219-25.

- Polk, Charles : *See*—
Fiet, Owen O., and Polk. 2,790,958.
- Polk, Isaac H., 5% to W. R. Graham, 5% to C. Mason, 40% to J. S. Drum, Jr., and 10% to E. L. Morris. Apparatus for freezing packaged products. 2,795,939, 6-18-57, Cl. 62-114.
- Polk, Isaac H., 5% to W. R. Graham and 5% to C. Mason. Method and apparatus for cooling products. 2,802,341, 8-13-57, Cl. 62-114.
- Polk, Ralph, Jr. Juice extractor. 2,791,171, 5-7-57, Cl. 100-98.
- Polk, Ralph, Jr. Fruit-positioning device for fruit-processing machine. 2,812,845, 11-12-57, Cl. 198-29.
- Polk, Robert E. : *See*—
Jenkins, Reginald T., and Polk. 2,808,463.
- Polkasnik, Bernard L. : *See*—
Bernhard, Joseph, and Polkasnik. 2,796,928.
- Polkosky, Joseph J. : *See*—
Weaver, James L., and Polkosky. 2,794,140.
- Polk's Model Craft Hobbies, Inc. : *See*—
Longarzo, Roland. 2,812,617.
- Pollock, Hyman. Combination high chair and carriage. 2,790,484, 4-30-57, Cl. 155-41.
- Pollock, Roy L., to LCN Closers, Inc. Fusible holding arm for door closers. 2,792,087, 5-14-57, Cl. 189-45.
- Pollock, Joseph, Corp. : *See*—
Fried, Bernard. 2,785,244.
Fried, Bernard. 2,806,112.
Martell, Charles E. 2,796,486.
- Pollan, David, to Viewlex, Inc. Film projector cooling means. 2,779,236, 1-29-57, Cl. 88-24.
- Pollard, Brian W. : *See*—
Thomas, Graham I., and Pollard. 2,804,570.
Williams, Frederic C., Kilburn, Tootill, and Pollard. 2,800,277.
- Pollard, Charles E., Jr. : *See*—
Brown, John T. L., and Pollard. 2,806,186.
- Pollard, Charles E., Jr., to Bell Telephone Laboratories, Inc. Power control circuit. 2,781,459, 2-12-57, Cl. 307-132.
- Pollard, Ernest C., to the United States of America as represented by the Secretary of the Navy. Medium precision self-synchronous automatic range tracking circuit. 2,786,995, 3-26-57, Cl. 343-7.3.
- Pollard, Frank G. : *See*—
Goodspeed, Edwin W., and Pollard. 2,813,814.
- Pollard & Johnston : *See*—
Murray, Jerome L. 2,802,694.
- Pollard, Terence A. : *See*—
Reichert, Paul P., Sandberg, Connally, and Pollard. 2,784,677.
- Polley, Herman M., to American Optical Co. Lens marking devices. 2,803,884, 8-27-57, Cl. 33-174.
- Pollays, Richard W., to Downington Mfg. Co. Fiber cleaner. 2,791,158, 5-7-57, Cl. 92-28.
- Poli, John, and E. Guastalli. Mask-type respirator. 2,775,968, 1-1-57, Cl. 128-145.
- Pollia, Andrew A. Pipe couplings with keyed-on flanges. 2,784,990, 3-12-57, Cl. 285-368.
- Pollock, Frank, to Columbia Broadcasting System, Inc. Television effects camera adapter. 2,811,076, 10-29-57, Cl. 88-16.
- Pollitz, Harold C., to Iowa Mfg. Co. of Cedar Rapids, Iowa. Segmental crusher roll. 2,803,411, 8-20-57, Cl. 241-294.
- Pollmann, Max, to Kurt Korber & Co. K.-G. Device for wrapping an adhesive connecting band around the abutting ends of a double cigarette and mouthpiece assemblage. 2,779,339, 1-29-57, Cl. 131-94.
- Pollmann, Max, to Kurt Korber & Co. K. G. Wrapping device for filter-tip cigarette machine. 2,808,060, 10-1-57, Cl. 131-94.
- Pollmann, Max, and A. Schmid, to Kurt Korber & Co. K. G. Apparatus for withdrawing rod-like articles from a supply container. 2,809,768, 10-15-57, Cl. 221-68.
- Pollnitz, John A. Pitch and roll vessel. 2,782,560, 2-26-57, Cl. 46-243.
- Pollock, Bessie E. : *See*—
Lannert, Paul. 2,785,489.
- Pollock, Earl S., to The Tappan Stove Co. Closure mechanism for oven doors. 2,780,219, 2-5-57, Cl. 126-194.
- Pollock, Earl S., to The Tappan Stove Co. Closure mechanism for oven doors. 2,805,661, 9-10-57, Cl. 126-194.
- Pollock, Edith N. S., and M. L. Baker. Surgical garment. 2,778,362, 1-22-57, Cl. 128-283.
- Pollock, James W. : *See*—
Ruboff, John R., Martin, and Pollock. 2,816,815.
- Pollock, Lou, and H. C. Wald, to The Davies-Young Soap Co. Apparatus for washing dishes. 2,808,842, 10-8-57, Cl. 134-101.
- Pollock, Lyle W. : *See*—
Bethae, Charles F., Pollock, and Wood. 2,785,054.
- Pollock, Lyle W., to Phillips Petroleum Co. Carbon black separation. 2,785,769, 3-19-57, Cl. 183-114.
- Pollock, Lyle W., to Phillips Petroleum Co. Process, apparatus and system for producing, agglomerating and collecting carbon black. 2,785,964, 3-19-57, Cl. 23-314.
- Pollock, Lyle W., to Phillips Petroleum Co. Process for producing carbon black, acrylonitrile and hydrogen cyanide. 2,796,327, 6-18-57, Cl. 23-151.
- Pollock, Lyle W., to Phillips Petroleum Co. Process for production of carbon black. 2,796,332, 6-18-57, Cl. 23-209.6.
- Pollock, Mark W., to Argus Chemical Corp. Benzoates of alkylated phenols. 2,789,957, 4-23-57, Cl. 260-31.2.
- Pollock, Max, to Bumpers, Inc. Bumpers. 2,783,992, 3-5-57, Cl. 267-1.
- Pollock, Max, to Bumpers, Inc. Bumper means. 2,799,494, 7-16-57, Cl. 267-1.
- Pollock, Max, to Bumpers, Inc. Resilient bumper. 2,806,688, 9-17-57, Cl. 267-1.
- Pollock, Stuart W. : *See*—
Snyder, Howard C., and Pollock. 2,804,527.
- Pollopas Patents Ltd. : *See*—
Burg, Hans. 2,800,092.
Burg, Hans. 2,800,093.
Montrose-Oster, Louis E. W. 2,806,191.
- Polly, Orville L., and O. D. Cunningham, to Union Oil Co. of California. Polyhydric alcohol esters of acids formed by oxidation of hydrocarbons. 2,783,270, 2-26-57, Cl. 260-485.
- Polmanteer, Keith E., to Dow Corning Corp. Laminated rubber article and a method of making same. 2,781,288, 2-12-57, Cl. 154-139.
- Poloron Products, Inc. : *See*—
Brown, Joseph D. 2,788,149.
- Polson, Alfred. Method and apparatus for electrodecantation and its application for the separation of materials. 2,801,962, 8-6-57, Cl. 204-180.
- Polster, John A., to Minnesota Mining & Mfg. Co. Heavy duty hand dispensers. 2,798,551, 7-9-57, Cl. 164-845.
- Poludniak, Wincenty B. Locking switch for motor vehicles. 2,802,198, 8-6-57, Cl. 340-64.
- Polychrome Corp. : *See*—
Brown, Robert G. 2,779,268.
- Polydoroff, Wladimir J. Antenna systems. 2,804,617, 8-27-57, Cl. 343-788.
- Polye, William R., to Bendix Aviation Corp. Electric control device. 2,815,423, 12-3-57, Cl. 201-63.
- Polygram Casting Co. Ltd. : *See*—
Cheyne, Robert D. 2,778,073.
- Polymer Corp. : *See*—
Borunsky, Jules. 2,814,609.
Cotton, William S., Kupa, and Taylor. 2,788,378.
Davis, William J. 2,802,237.
Hervey, Laurence R. B. 2,811,499.
Killey, Robert F., Welch, and McKenzie. 2,815,334.
Stott, Louis L., and Davis. 2,808,622.
- Polymer Industries Inc. : *See*—
Marks, Lewis, and Stern. 2,782,949.
- Polymers, Inc. : *See*—
Lewis, Raymond M. 2,808,854.
- Polytechnic Institute of Brooklyn : *See*—
Horowitz, Isaac M. 2,817,717.
Laemmel, Arthur E. 2,818,546.
Laemmel, Arthur E. 2,818,547.
- Polytechnic Research & Development Co., Inc. : *See*—
Berger, Christian D. 2,794,413.
Finke, Herbert A. 2,798,161.
Johnson, Stanley A. 2,788,447.
Johnson, Stanley A. 2,816,523.
Lebowitz, Robert A. 2,778,941.
- Polyzou, James, to International Telephone and Telegraph Corp. Carrier telegraph receiver. 2,797,261, 6-25-57, Cl. 178-66.
- Pölzger, Franz, W. Pöhlandt, and K. Linneweh, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of and apparatus for the production of cores, shell moulds or the like for casting purposes. 2,792,600, 5-21-57, Cl. 22-10.
- Polzin, Dean A. Conveyor system for pistons to and from grinding machines. 2,799,124, 7-16-57, Cl. 51-74.
- Polzin, Marvin H., J. A. Geer, and F. E. Fowler, to J. J. Monaghan Co., Inc. Respirators. 2,780,222, 2-5-57, Cl. 128-30.
- Pomerance, Hy. Ophthalmic mounting. 2,778,270, 1-22-57, Cl. 88-41.
- Pomernacki, Henry, to Illinois Tool Works. Master gear. 2,780,007, 2-5-57, Cl. 33-179.5.
- Pomeroy, Frederick A., and A. G. Walther, to Eastman Kodak Co. Light and moistureproof protection for rolls of light-sensitive photographic material. 2,797,804, 7-2-57, Cl. 206-59.
- Pomeroy, Harold H., to Dorr-Oliver Inc. Anti-foaming centrifugal methods and apparatus. 2,779,536, 1-29-57, Cl. 233-13.
- Pomeroy, Richard C. : *See*—
Beal, Dick H., Pomeroy, Robertson, and Zinn. 2,789,267.
- Pomeroy, Richard D. De-odorizing of gas streams by the use of microbiological growths. 2,793,096, 5-21-57, Cl. 23-2.
- Pomeroy, S. H., Co., Inc. : *See*—
Walsh, William L. 2,813,296.
- Pomon, Jack D., to The Pyle-National Co. Explosion-proof panelboard. 2,816,678, 12-17-57, Cl. 220-3.94.
- Pompa, Leonard, to Lukens Steel Co. Method of uniting metals and pack for same. 2,813,333, 11-19-57, Cl. 29-471.5.
- Pomykata, John C., to North American Aviation, Inc. Sole-noid-operated, self-restricting inlet pump. 2,797,646, 7-2-57, Cl. 103-53.
- Pon, Wing G. : *See*—
Ruby, Lawrence, Crawford, and Pon. 2,786,143.
- Ponciano, Irene M. Corsage holding pin. 2,784,469, 3-12-57, Cl. 24-6.
- Pond, Anthony V. : *See*—
Lambeck, Raymond P., and Pond. 2,809,702.
- Pond, John E. : *See*—
Bloomberg, Daniel J., and Pond. 2,797,618.

- Pond, Kenneth H.: *See*—
French, Ralph W., Shields, and Pond. 2,782,709.
- Ponder, Ann S.: *See*—
Ponder, Raymond E. 2,796,280.
- Ponder, Raymond E., $\frac{1}{4}$ to B. Moser, $\frac{1}{4}$ to C. Kahn, and by decree of distribution $\frac{1}{4}$ to A. S. Ponder. Door stop. 2,796,280, 6-18-57, Cl. 292-343.
- Ponder, Raymond E., and M. Babunovic, to Quirk Machinery Co. Machine for breasting Louis heels. 2,776,445, 1-8-57, Cl. 12-47.1.
- Pondrom, Walter L., Jr.: *See*—
Curtis, Thomas E., and Pondrom. 2,789,260.
- Ponsa, Yves, to Etablissements Neyrpic. Low friction valve. 2,814,306, 11-26-57, Cl. 137-433.
- Ponsar, Yves, to Etablissements Neyrpic. Apparatus responsive to variations in the differential between the levels of two liquid bodies. 2,802,363, 8-13-57, Cl. 73-432.
- Ponsy, Louis E., to Etablissements Labinal. Automatic circuit breakers. 2,797,276, 6-25-57, Cl. 200-106.
- Pontiac Engraving & Electrotype Co.: *See*—
Gegan, Roland F. 2,801,129.
- Pontin, Fernando A., $\frac{1}{2}$ to R. A. Kuro. Folding piece of furniture of stool or table type. 2,808,100, 10-1-57, Cl. 155-149.
- Pontius, Eugene C., to E. I. du Pont de Nemours and Co. Process for spinning modified viscose solution. 2,810,658, 10-22-57, Cl. 106-165.
- Pontzen, George R., and R. R. Clark, to Lustraphone Ltd. Microphones. 2,778,882, 1-22-57, Cl. 179-115.5.
- Ponza, Lorenzo J. Mechanical baseball pitching machines. 2,792,822, 5-21-57, Cl. 124-7.
- Ponza, Lorenzo J. Batting practice device. 2,818,255, 12-31-57, Cl. 273-26.
- Ponzini, Louis J. Air-actuated devices for producing and dispensing comminuted solids in suspension. 2,817,310, 12-24-57, Cl. 118-46.
- Pool, Stuart D.: *See*—
Orelind, John R., Pool, Barkstrom, and Karlsson. 2,796,717.
- Pool, Stuart D., and M. J. Whitney, to International Harvester Co. Machine clamp for implement carrier. 2,797,103, 6-25-57, Cl. 280-106.
- Pool, Stuart D., and R. D. Downing, to International Harvester Co. Remote control gear shifting mechanism. 2,814,209, 11-26-57, Cl. 74-477.
- Poole, Alton. Dispenser. 2,783,469, 3-5-57, Cl. 1-49.5.
- Poole, Arthur: *See*—
Brown, Charles L. M., and Poole. 2,797,241.
- Poole, Arthur B., to Haydon Mfg. Co., Inc. Timer mechanism. 2,783,835, 3-5-57, Cl. 161-1.
- Poole, Arthur J., to The Babcock & Wilcox Co. Combustion apparatus. 2,807,242, 9-24-57, Cl. 122-235.
- Poole, Arthur J., G. Musat, and M. M. Clark, to The Babcock & Wilcox Co. Igniter for fuel burners. 2,806,518, 9-17-57, Cl. 158-28.
- Poole, Donald S., to The Goodyear Tire & Rubber Co. Air filter with orderly arranged filaments. 2,804,937, 9-3-57, Cl. 183-70.
- Poole, Edward M., to The Babcock & Wilcox Co. Pneumatic vibrator and starting system therefor. 2,781,742, 2-19-57, Cl. 121-17.
- Poole, Eric W.: *See*—
Kinsella, Edward, and Poole. 2,814,175.
- Poole, Foster M., and L. C. Paslay, $\frac{1}{2}$ to said Poole and $\frac{1}{2}$ to C. Casey. Densimeter. 2,785,567, 3-19-57, Cl. 73-24.
- Poole, George D.: *See*—
Manty, William A., and Poole. 2,810,778.
- Poole, James P., to Brockway Glass Co., Inc. Glass batch and method of preparing the same. 2,813,036, 11-12-57, Cl. 106-52.
- Poole, John E.: *See*—
Schmid, William, and Poole. 2,808,620.
- Poole, John H., to British Insulated Callender's Cables Ltd. Means for detecting eccentricity in insulated electric conductors. 2,779,916, 1-29-57, Cl. 324-34.
- Poole, John W.: *See*—
Labastie, Albert H., and Poole. 2,780,737.
- Poole, Kenneth M.: *See*—
Cook, John S., Poole, and Sullivan. 2,812,470.
- Poole, Thomas J. Adding and subtracting device. 2,795,862, 6-18-57, Cl. 35-31.
- Poole, Victor D.: *See*—
Green, Joseph, Daglish, and Poole. 2,776,303.
- Pooley, Henry, and L. D. Parker, to Vickers-Armstrongs Ltd. Shaft kilns. 2,788,961, 4-16-57, Cl. 263-29.
- Poor & Co.: *See*—
Chester, Allan E. 2,813,044.
Chester, Allan E., and Jeremias. 2,796,372.
Chester, Allan E., Jeremias, and Irwin. 2,796,361.
Chester, Allan E., Jeremias, and Irwin. 2,796,369.
Chester, Allan E., and Main. 2,799,635.
Degman, John T. 2,808,995.
Delfox, James G. 2,808,996.
Grant, John L. 2,815,902.
Heer, Ralph W. 2,798,676.
Jeremias, Bruno R. 2,793,867.
Lansing, Horace L. 2,785,862.
Lansing, Horace L. 2,793,816.
Neely, Forest H. 2,808,214.
- Poorte, Glen E., and D. L. Nettleton, to Radio Corp. of America. Switching system. 2,796,597, 6-18-57, Cl. 340-174.
- Poos, George I.: *See*—
Arth, Glen E., Poos, and Sarett. 2,791,591.
- Poos, George I., and L. H. Sarett, to Merck & Co., Inc. Process for the preparation of the 21-acetate of 16,17-oxido-11-dehydrocorticosterone. 2,809,967, 10-15-57, Cl. 260-239.55.
- Pop Corn, Inc.: *See*—
Martin, Joseph T. 2,805,639.
- Pop, Gregorio. Photographic sensitizer and developer. 2,776,888, 1-8-57, Cl. 96-49.
- Pope, Arthur J. Gun construction. 2,809,564, 10-15-57, Cl. 89-128.
- Pope, Eddie. Fish lures or spoons. 2,777,243, 1-15-57, Cl. 43-42.5.
- Pope, John R.: *See*—
Murphy, Brian J. M., and Pope. 2,779,957.
Murphy, Brian J. M., and Pope. 2,802,226.
- Pope, William P., to Paramount Textile Machinery Co. Setting apparatus for textile fabrics. 2,800,724, 7-30-57, Cl. 34-48.
- Pope, Willis G. Exhaust system for tobacco barns. 2,810,209, 10-22-57, Cl. 34-232.
- Pope, Winslow B.: *See*—
Hykes, Paul G., and Pope. 2,812,216.
- Popell, Samuel J. Food chopper. 2,787,308, 4-2-57, Cl. 146-160.
- Popino, Robert P.: *See*—
Sokol, Herman, and Popino. 2,784,181.
- Popkess, William R., and L. L. Johnson. Cash box. 2,804,197, 8-27-57, Cl. 206-0.83.
- Popkin, Alexander H., to Esso Research and Engineering Co. Metal salts of organic acids of phosphorus. 2,785,128, 3-12-57, Cl. 252-32.7.
- Popkin, Alexander H., to Esso Research and Engineering Co. Polymerization process for preparing lubricant additives and products. 2,810,744, 10-22-57, Cl. 260-485.
- Popovac, Daniel O.: *See*—
Conwell, John W., and Popovac. 2,808,372.
- Popovich, Montgomery T., and L. N. Ricci, to Westinghouse Electric Corp. Bus duct constructions. 2,798,898, 7-9-57, Cl. 174-72.
- Popowsky, William J.: *See*—
Streater, Jack W., and Popowsky. 2,783,423.
- Popowsky, William J., to Minneapolis-Honeywell Regulator Co. Stabilized pneumatic regulator apparatus. 2,789,543, 4-23-57, Cl. 121-41.
- Popowsky, William J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,792,565, 5-14-57, Cl. 340-187.
- Popp, Rudolf, to McGill Mfg. Co., Inc. Multiple lamp sockets, switch and housing. 2,799,743, 7-16-57, Cl. 200-51.03.
- Poppe, Heinrich. Lifting jack device. 2,784,940, 3-12-57, Cl. 254-120.
- Popple, Charles O. Barbecue machine. 2,813,478, 11-19-57, Cl. 99-346.
- Porada, Stephen J. M. Clothesline support and tightener. 2,798,270, 7-9-57, Cl. 24-68.
- Porak, Hermine: *See*—
Porak, Waldemar, and H. Porak. 2,812,526.
- Porak, Waldemar, and H., to Hans Arledter. Process of manufacturing sheet metal nails. 2,812,526, 11-12-57, Cl. 10-34.
- Porath, Merritt R. Stalk guiding means for corn harvester. 2,811,005, 10-29-57, Cl. 56-119.
- Porath, Norman F., to General Electric Co. Photosensitive layer cell. 2,776,357, 1-1-57, Cl. 201-63.
- Porbes, Henry F.: *See*—
Medal, Leon E., and Porbes. 2,783,507.
- Porkola, Onni A. Apparatus for disposing of trash. 2,778,554, 1-22-57, Cl. 224-42.46.
- Porocel Corp.: *See*—
Miller, John G. 2,800,510.
- Porsche, Ferdinand A. E., to Dr. Ing. h. c. F. Porsche K.-G. Hydraulic mechanism for operating the clutch and brakes of automotive vehicles and safety means therefor. 2,788,873, 4-16-57, Cl. 192-12.
- Porsche, Ferdinand A. E., and E. Forstner, to Dr. Ing. h. c. F. Porsche K.-G. Adjusting mechanism for servo brakes, particularly for motor vehicles. 2,788,866, 4-16-57, Cl. 188-79.5.
- Porsche, Ferdinand A. E., and E. Forstner, to Dr. Ing. h. c. F. Porsche K.-G. Air-cooled internal combustion engines and cylinder therefor. 2,799,261, 7-16-57, Cl. 123-41.64.
- Porsche, Ferdinand A. E., and E. Forstner, to Dr. Ing. h. c. F. Porsche K.-G. Air-cooled internal-combustion engines. 2,799,262, 7-16-57, Cl. 123-41.64.
- Porsche, Ferdinand A. E., and W. Eyb, to Dr. Ing. h. c. F. Porsche K.-G. Axle suspension for automotive vehicles. 2,814,503, 11-26-57, Cl. 280-124.
- Porsche, Ferdinand A. E., and E. Komenda, to Dr. Ing. h. c. F. Porsche K.-G. Self-supporting bodies of synthetic material for motor vehicles. 2,814,524, 11-26-57, Cl. 296-31.
- Port, Julius: *See*—
Stern, Robert G., and Port. 2,810,210.
- Port, Richard A., to Olin Mathieson Chemical Corp. Valve bag. 2,786,623, 3-26-57, Cl. 229-62.5.
- Port, Samuel. Compartmented car. 2,790,396, 4-30-57, Cl. 105-376.
- Porta Co., Inc.: *See*—
Stanley, Malcolm N. 2,816,297.

- Portable Electric Tools, Inc.: *See*—
Dudek, Edmund C. 2,782,813.
- Portable Industries, Inc.: *See*—
Henning, Robert W. 2,785,401.
Henning, Robert W., and Pfaff. 2,785,402.
- Portage Machine Co., The: *See*—
Schiler, Frederick S. 2,796,264.
Tao, Deh C. 2,795,992.
- Portco Corp.: *See*—
Wall, Howard M. 2,780,987.
- Porter, Burke E., to Burke E. Porter Machinery Co. Gang saw with removable frame. 2,793,660, 5-28-57, Cl. 143-60.
- Porter, Burke E., and A. H. Stuart, to Porter-Stuart Co. Planer having work piece carrying belt. 2,789,599, 4-23-57, Cl. 144-128.
- Porter, Burke E., Machinery Co.: *See*—
Porter, Burke E. 2,793,660.
- Porter-Cable Machine Co., The: *See*—
Emmons, Arthur N. 2,784,482.
Emmons, Arthur N. 2,800,759.
Emmons, Arthur N., and Bentley. 2,793,485.
Pedersen, Dane H. 2,813,558.
Stoll, Russell F. 2,796,768.
- Porter, Carroll D., to the United States of America as represented by the Secretary of the Navy. Pulse combustor or jet engine. 2,795,105, 6-11-57, Cl. 60-35.6.
- Porter, Clarence W.: *See*—
Mierendorf, Robert C., and Porter. 2,783,375.
- Porter, Clarence W., to Square D Co. Multi-sequence weld timer. 2,811,679, 10-29-57, Cl. 317-142.
- Porter, Edward D., to Norton Co. Process for making fused magnesia. 2,798,002, 7-2-57, Cl. 106-60.
- Porter, Floyd B., Jr., to American Cyanamid Co. Production of acrylamide. 2,806,881, 9-17-57, Cl. 260-561.
- Porter, Frank M.: *See*—
Borkowski, Casimer J., and Porter. 2,778,949.
Borkowski, Casimer J., and Porter. 2,779,875.
- Porter, Frederick W. B., and A. H. Richardson, to The British Petroleum Co. Ltd. Catalytic hydro-reforming and hydrofining of petroleum hydrocarbons. 2,792,333, 5-14-57, Cl. 196-28.
- Porter, Frederick W. B., D. A. Howes, and J. E. Morris, to The British Petroleum Co. Ltd. Desulphurisation with a cobalt molybdate catalyst containing fluorine, and under equilibrium pressure. 2,800,429, 7-23-57, Cl. 196-28.
- Porter, Frederick W. B., and R. P. Northcott, to The British Petroleum Co. Ltd. Hydrocatalytic desulphurisation of petroleum hydrocarbons. 2,800,430, 7-23-57, Cl. 196-28.
- Porter, Frederick W. B., and R. P. Northcott, to The British Petroleum Co. Ltd. Hydrocatalytic desulphurisation of petroleum hydrocarbons. 2,800,431, 7-23-57, Cl. 196-28.
- Porter, Frederick W. B., and L. B. Witten, to The British Petroleum Co. Ltd. Production of molybdenum-cobalt catalysts. 2,817,637, 12-24-57, Cl. 252-442.
- Porter, H. K., Co.: *See*—
Eldridge, Tausias I. 2,802,175.
- Porter, H. K., Co. (Delaware): *See*—
Hauptman, Ferdinand D. 2,809,393.
- Porter, H. K., Co., Inc., of Pittsburgh: *See*—
Killian, Stanley C., and Edison. 2,784,012.
Killian, Stanley C., and Stene. 2,778,894.
Kleb, Robert. 2,786,923.
Stene, Manfred. 2,816,752.
Stumphaus, Clarence H. 2,786,922.
- Porter, H. K., Inc.: *See*—
Northcutt, Walter E. 2,776,481.
- Porter, Herbert E.: *See*—
McBride, Russel E., and Porter. 2,784,515.
- Porter, Herschel D., to Eli Lilly and Co. 2-substituted aromatic thiazoles. 2,780,628, 2-5-57, Cl. 260-304.
- Porter, John L., to Kaiser Aluminum & Chemical Corp. Extracting alumina from alumina and aluminum phosphate ores in one liquor. 2,812,239, 11-5-57, Cl. 23-143.
- Porter, John S. Thieving liquid sampler. 2,817,969, 12-31-57, Cl. 73-425.4.
- Porter, Joseph B. Automatic fishing device. 2,795,072, 6-11-57, Cl. 43-16.
- Porter, Lee M., and F. F. Rust, to Shell Development Co. Production of phenolic compounds. 2,792,430, 5-14-57, Cl. 260-621.
- Porter-Stuart Co.: *See*—
Porter, Burke E., and Stuart. 2,789,599.
- Porter, Weston C. Barrier for doorways and the like. 2,814,340, 11-26-57, Cl. 160-216.
- Porter, William J., to Jones & Laughlin Steel Corp. Method for the aluminum cladding of ferrous base metal and product thereof. 2,818,360, 12-31-57, Cl. 148-12.1.
- Portillo, Carlos. Spraying apparatus. 2,814,530, 11-26-57, Cl. 299-140.1.
- Portman, Donald G., and N. B. Papalas, to Westinghouse Electric Corp. Enclosed circuit interrupter operating mechanism. 2,806,098, 9-10-57, Cl. 200-50.
- Portmann, August, to Societe Anonyme Adalphe Saurer. Braking device for two-stroke cycle internal combustion engines. 2,787,987, 4-9-57, Cl. 123-65.
- Portney, Phillip, and C. E. Vancura, to Koppers Co., Inc. Flexible seal for pipes passing through a wall. 2,779,609, 1-29-57, Cl. 285-45.
- Porto Knurling Tools, Inc.: *See*—
Bennett, Anthony. 2,798,390.
Bennett, Anthony. 2,798,391.
- Portser, Charles H., Jr., to Armstrong Cork Co. Method of making alkaline earth metal naphthenates. 2,815,372, 12-3-57, Cl. 260-514.
- Portzer, Harry J.: *See*—
Locklair, Earl E., and Portzer. 2,812,645.
- Portzer, Lloyd B., and W. C. Leitenberger. Electrodeposition of copper. 2,814,590, 11-26-57, Cl. 204-52.
- Porwancher, Samuel R., to Drying Systems, Inc. Control devices. 2,788,411, 4-9-57, Cl. 200-81.5.
- Porwancher, Samuel R., to Drying Systems, Inc. Control devices. 2,790,042, 4-23-57, Cl. 200-81.9.
- Poryle, Joseph J. Bag carrier. 2,773,555, 1-22-57, Cl. 224-45.
- Posey, Elbert H. Garment ironing machine having a bottom pad and a heated metal cover. 2,778,132, 1-22-57, Cl. 38-21.
- Posey, R. L.: *See*—
Reese, Herbert E., and Posey. 2,798,129.
- Posin, Melvin: *See*—
Joel, Amos E., Jr., Krom, and Posin. 2,812,385.
Krom, Myron E., and Posin. 2,807,668.
- Poska, Bert. Sink-strainer seat pressing tool. 2,815,791, 12-10-57, Cl. 153-24.
- Posner, Adolph. Tonometer adjunct for ophthalmology. 2,780,221, 2-5-57, Cl. 128-32.
- Posner, Harry, and J. R. Posner. Natural animal casing form. 2,803,036, 8-20-57, Cl. 17-43.
- Posner, Jack R.: *See*—
Posner, Harry, and J. R. 2,803,036.
- Pospishil, Robert L., and R. Phillips. Portable awning. 2,788,791, 4-16-57, Cl. 135-5.
- Pospiszel, Joseph T., to Mohasco Industries, Inc. Fluid applicators. 2,782,755, 2-26-57, Cl. 118-207.
- Pospychala, Henry C., and G. H. Peters, to Rhineland Paper Co. Lacquer formulation. 2,793,959, 5-28-57, Cl. 106-173.
- Poss, Ambrose W. Fastening device. 2,810,597, 10-22-57, Cl. 287-103.
- Poss, Bernard N.: *See*—
Keating, Henry E., Murphy, and Poss. 2,782,508.
- Post, David D. Vehicle suspension and stabilizing system. 2,807,475, 9-24-57, Cl. 280-112.
- Post, David D. Vehicle suspension apparatus. 2,815,202, 12-3-57, Cl. 267-11.
- Post, Frederick A., and J. C. Vaughan, to the United States of America as represented by the Secretary of the Navy. Model catcher for wind tunnel. 2,788,661, 4-16-57, Cl. 73-147.
- Post, Harold P. Foldable display case. 2,813,769, 11-19-57, Cl. 312-257.
- Post, Louis, to Flexigrip, Inc. Actuator for zippers and pouch embodying the same. 2,789,609, 4-23-57, Cl. 150-3.
- Posta, Stephen J.: *See*—
Lutz, Charles H., Durrett, Posta, and Susel. 2,817,395.
- Postal, Robert H., to McGraw-Edison Co. Cable-type thermocouple and circuit. 2,805,272, 9-3-57, Cl. 136-4.
- Postlewait, George K. Liquefied gas valve. 2,784,561, 3-12-57, Cl. 62-1.
- Postlewaite, William R.: *See*—
Gilman, Harris H., Henning, Mock, and Postlewaite. 2,800,974.
- Postlewaite, William R., and E. F. Sullivan, to California Research Corp. Nozzle assembly. 2,800,367, 7-23-57, Cl. 299-86.
- Postmaster General, Her Majesty's: *See*—
Wheeler, Leonard K., and Frost. 2,816,956.
- Potagrain Foods Refining Corp.: *See*—
Medriczky, Andrew. 2,798,815.
- Potchen, Joseph A.: *See*—
Kloote, George E., and Potchen. 2,778,766.
- Potocnik, Rudolph: *See*—
Hess, William, Potocnik, and Wather. 2,793,907.
- Potter, Allen D., and H. Goldberg. Chair convertible to baby walker or rocker. 2,776,700, 1-8-57, Cl. 155-22.
- Potter, Claud N., and V. J. Ervin, 1/2 to R. H. Ehrlich and S. H. Garonzik. Brick chipping machine. 2,801,626, 8-6-57, Cl. 125-3.
- Potter, Donald C. Terminal block. 2,787,773, 4-2-57, Cl. 339-198.
- Potter, Edwin F.: *See*—
Benson, Charles J., Potter, Rose, and Schollenberger. 2,796,284.
- Potter, Elbert L., Jr., to Houdaille Industries, Inc. Piston rod seal. 2,793,889, 5-28-57, Cl. 288-2.
- Potter, James A., to International Business Machines Corp. Resistance testing machine. 2,798,199, 7-2-57, Cl. 324-62.
- Potter, Michael D.: *See*—
Austin, William C., Collier, Potter, and Taylor. 2,791,582.
Collier, Henry O. J., Potter, and Taylor. 2,791,588.
- Potter, Peter B.: *See*—
Groff, Frazier, and Potter. 2,779,744.
- Potter, Richard D.: *See*—
Parker, Earl R., and Potter. 2,801,193.
- Potter, Richard P., and D. F. S. Melville, to Inventions & Patents Proprietary Ltd. Device for loosening and removing nuts overtight upon or adhering by corrosion to screwed members. 2,788,689, 4-16-57, Cl. 81-52.3.
- Potter, Russell R. Typewriter keys identification board. 2,800,727, 7-30-57, Cl. 35-5.

- Potter, Thomas W., to Journal Box Servicing Corp. Batt waste packing. 2,781,239, 2-12-57, Cl. 308-88.
- Potter, Vernie G.: *See*—
- Pierce, Russell F., and Potter. 2,810,933.
- Potter, William, and E. Parsi, to Ionics Inc. Method for recovering base ions from waste sulfite liquor and producing sulfite cooking liquor. 2,785,955, 3-19-57, Cl. 23-129.
- Pottier, Richard, to Union Chimique Belge Societe Anonyme. Analgesic and antirheumatic preparation. 2,815,315, 12-3-57, Cl. 167-77.
- Pottmeyer, Edward W., to Blaw-Knox Co. Valve operator mechanism. 2,808,849, 10-8-57, Cl. 137-309.
- Potts, Ernest L., to C. C. Brown. Hydraulic pulling tool for use in wells. 2,806,534, 9-17-57, Cl. 166-98.
- Potts, Harry A., to The Durite Corp. Ratchet wheel having reversible parts. 2,800,987, 7-30-57, Cl. 192-45.
- Potts, John W. Sawhorse leg cutting jig. 2,777,487, 1-15-57, Cl. 145-129.
- Potts, Mack F., P. S. Hudson, and W. L. Smith, to Phillips Petroleum Co. Stabilization of polymerizable heterocyclic nitrogen compounds. 2,776,975, 1-8-57, Cl. 260-290.
- Potts, Michael C., to Dowty Mining Equipment Ltd. Mine roof support systems. 2,803,444, 8-20-57, Cl. 262-1.
- Potts, Ralph H., and R. S. Smith, to Armour and Co. Preparation of nitriles. 2,808,426, 10-1-57, Cl. 260-465.2.
- Potvin, Richard J. Manufacture of moccasin shoes. 2,806,234, 9-17-57, Cl. 12-142.
- Poucel, William H., and J. W. Woestman, to Radio Corp. of America. Temperature-compensated semi-conductor signal amplifier circuits. 2,808,471, 10-1-57, Cl. 179-171.
- Pouchot, Walter D.: *See*—
- French, Ralph T., and Pouchot. 2,800,765.
- Poudrieres Reunis de Belgique: *See*—
- Diels, Albert, and Orth. 2,784,638.
- Pouell, Harry E., to Pouell Mfg. Co. Spring tool. 2,789,342, 4-23-57, Cl. 25-252.
- Pouell Mfg. Co.: *See*—
- Pouell, Harry E. 2,789,342.
- Pouliart, Willy H. E., and J. P. H. Vandevenne, to International Standard Electric Corp. Electrical intelligence storage arrangement. 2,807,004, 9-17-57, Cl. 340-174.
- Pouliot, Paul: *See*—
- Fortin, Charles A. 2,776,660.
- Poulsen, Charles I.: *See*—
- Eash, George H. 2,778,635.
- Eash, George H. 2,778,636.
- Eash, George H. 2,778,637.
- Eash, George H. 2,778,880.
- Poulsen, George H.: *See*—
- Eash, George H. 2,778,635.
- Eash, George H. 2,778,636.
- Eash, George H. 2,778,637.
- Pound, Dr. Earl: *See*—
- Ingersoll, Nelson, Jr. 2,784,490.
- Pound, Robert V., and H. F. Webster, to the United States of America as represented by the Secretary of the Navy. Crystal mounts. 2,791,691, 5-7-57, Cl. 250-31.
- Poupitch, Ougljesa J., to L. O. Holmberg. Can carrier device. Re. 24,333, 6-25-57, Cl. 206-65.
- Poupitch, Ougljesa J., to Illinois Tool Works. Fastener having folded, splitting helical lock washer retained thereon. 2,779,376, 1-29-57, Cl. 151-37.
- Poupitch, Ougljesa J., to Illinois Tool Works. Sealing molding clip. 2,786,249, 3-26-57, Cl. 24-73.
- Poupitch, Ougljesa J., to Illinois Tool Works. Sheet metal nut having flexible loop portions. 2,797,606, 7-2-57, Cl. 85-32.
- Poupon, Andre, to Schlumberger Well Surveying Corp. Induction well logging. 2,790,138, 4-23-57, Cl. 324-6.
- Poux, Noel J., to Talon, Inc. Machine for making slide fastener stringers. 2,804,677, 9-3-57, Cl. 29-34.
- Poux, Noel J., to Talon, Inc. Releasable slider. 2,810,175, 10-22-57, Cl. 24-205.15.
- Pouzet, Georges, to Compagnie Generale d'Electricite. Flexible submarine repeater. 2,803,694, 8-20-57, Cl. 174-70.
- Pouzoulet, Andre A. E., to Societe d'Etude et d'Exploitation Chimie et Mecanique E. C. E. M. (Societe a Responsabilite Limitee). Peeling machine. 2,813,562, 11-19-57, Cl. 146-49.
- Povlich, Frederick C. Automobile door safety lock. 2,786,701, 3-26-57, Cl. 292-144.
- Powell, Bennington S. Three wheeled tobacco priming vehicle. 2,797,123, 6-25-57, Cl. 296-5.
- Powell, Burnet J., and N. B. Cox, to Houdaille Industries, Inc. Actuators for automobile heater controls and the like. 2,814,958, 12-3-57, Cl. 74-503.
- Powell, Charles C. Wire basket and manufacture thereof. 2,797,013, 6-25-57, Cl. 220-19.
- Powell, Clyde C., to National Poultry Equipment Co. Automatic egg scale. 2,818,173, 12-31-57, Cl. 209-121.
- Powell, Clyde C., to National Poultry Equipment Co. Automatic egg scale. 2,818,174, 12-31-57, Cl. 209-121.
- Powell, David B., to General Electric Co. Plug-in connector. 2,809,362, 10-8-57, Cl. 339-255.
- Powell, Donald W., to Hughes Aircraft Co. Connector strip and chassis for interconnecting electronic components. 2,799,837, 7-16-57, Cl. 339-17.
- Powell, Ernest F., and S. W. Gough, to Dunlop Rubber Co. Ltd. Apparatus for regulating the temperature of electrically heated elements. 2,780,710, 2-5-57, Cl. 219-20.
- Powell, George B., to Tamwell Enterprises. Impregnated and coated fuel body and method. 2,816,013, 12-10-57, Cl. 44-6.
- Powell, Gordon F. W.: *See*—
- Molins, Desmond W., and Powell. 2,800,131.
- Molins, Desmond W., and Powell. 2,815,759.
- Powell, Homer E., to Owens-Illinois Glass Co. Inspecting interior of television tube face. 2,816,474, 12-17-57, Cl. 88-14.
- Powell, Jack E.: *See*—
- Spedding, Frank H., Wheelwright, and Powell. 2,798,789.
- Powell, John. Seed planting machine. 2,779,511, 1-29-57, Cl. 222-216.
- Powell, John W.: *See*—
- Brooking, Edgar C., and Powell. 2,805,016.
- Powell, Loyd E., and G. Tapp. Fluid mixing device. 2,777,467, 1-15-57, Cl. 138-37.
- Powell, Paul B., and D. W. Blair, to Esso Research and Engineering Co. Surveying instrument. 2,804,689, 9-3-57, Cl. 33-71.
- Powell Pressed Steel Co., The: *See*—
- Johnson, Richard C. 2,780,393.
- Johnson, Richard C. 2,788,144.
- Powell, Ray, to The Texas Co. Removal of metal components from petroleum oils. 2,778,777, 1-22-57, Cl. 196-40.
- Powell, Robert J., to Continental Motors Corp. Centrifugal breather. 2,818,047, 12-31-57, Cl. 121-194.
- Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Fuel injection system. 2,787,257, 4-2-57, Cl. 123-28.
- Powell, Robert W., to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor. 2,790,760, 4-30-57, Cl. 204-193.
- Powell, Robert W., and P. H. Lee, to the United States of America as represented by the United States Atomic Energy Commission. Leak detection system. 2,777,812, 1-15-57, Cl. 204-193.
- Powell, Robert W., and S. Tirsky, to National Briefcase Mfg. Co. Brief case. 2,782,890, 2-26-57, Cl. 190-51.
- Powell, Roger F., and E. F. Martin; said Powell assor. to National Chemical Products Ltd. Beta alkoxy crotonic acid esters in froth flotation processes. 2,776,748, 1-8-57, Cl. 209-166.
- Powell, Roger F., and E. F. Martin, to National Chemical Products Ltd. Alkoxy benzene in froth flotation process. 2,776,749, 1-8-57, Cl. 209-166.
- Powell, Russell W.: *See*—
- Norman, Richard M., and Powell. 2,804,752.
- Powell, Wm. Co., The: *See*—
- Smith, Russell G. 2,810,494.
- Power Equipment Co.: *See*—
- Paskell, Ernest. 2,814,853.
- Power Brake Equipment Co.: *See*—
- Fishwood, Rollin W., and Evans. 2,804,878.
- Williams, Norman C. 2,792,916.
- Williams, Norman C. 2,800,112.
- Williams, Norman C. 2,805,656.
- Williams, Norman C. 2,805,802.
- Williams, Norman C., and Fishwood. 2,794,423.
- Power Jets (Research and Development) Ltd.: *See*—
- Dimmock, Norman A. 2,791,059.
- Fletcher, Philip J. 2,781,057.
- Fletcher, Walter G., and Ashwood. 2,781,638.
- Flint, John A. 2,788,951.
- Gaved, Clement. 2,800,685.
- Grantham, Cyril. 2,786,646.
- Grey, John C. 2,796,305.
- Grey, John C. 2,806,684.
- Hodge, James, and Borley. 2,811,302.
- Moss, Charles E. 2,801,789.
- Pickup, George. 2,805,338.
- Probert, Rhys P., and Johnstone. 2,797,549.
- Shaw, Harry. 2,800,015.
- Speed, Frank L. 2,801,822.
- Taylor, Tristram A., Macfarlane, and Stephenson. 2,781,005.
- Whitehead, Leslie T. 2,803,429.
- Powers, Chemco, Inc.: *See*—
- Anander, Andrew K. 2,814,233.
- Smith, Otto T., and Butter. 2,818,043.
- Powers & Co.: *See*—
- Powers, Frank M. 2,808,844.
- Powers, Frank M., to Powers & Co. Tent construction. 2,808,844, 10-8-57, Cl. 135-1.
- Powers Generators Ltd.: *See*—
- Larrecq, Anthony J., Lynch, and Cushing. 2,799,988.
- Powers, Harold C.: *See*—
- Ebbs, John W., and Powers. 2,811,692.
- Powers, Herman G.: *See*—
- Kieffer, Dale C., Davis, and Powers. 2,798,801.
- Powers, Howard A.: *See*—
- Altfillisch, Michael D., Powers, and White. 2,813,423.
- Powers, Howard A., to Detroit Controls Corp. Low deflection mass flowmeter. 2,811,854, 11-5-57, Cl. 73-194.
- Powers, Howard A., H. L. Mutti, and R. L. Boyles, to General Electric Co. Low cost clock switch. 2,782,274, 2-19-57, Cl. 200-38.
- Powers, Jack W.: *See*—
- Kornblum, Nathan, and Powers. 2,816,909.
- Powers, James H., to General Electric Co. Waste disposal apparatus. 2,784,914, 3-12-57, Cl. 241-46.

- Powers, James H., to General Electric Co. Electrostatic gas filter. 2,814,355, 11-26-57, Cl. 183-7.
- Powers, James H., to General Electric Co. Method of cutting material having a frangible coating. 2,815,569, 12-10-57, Cl. 29-545.
- Powers, James H., to General Electric Co. Electrostatic gas filter. 2,818,134, 12-31-57, Cl. 183-7.
- Powers, John M.: See—
Bennett, Rufus B., Dockendorff, Powers, and Speed. 2,810,772.
- Powers, Milton A., to Skuttile Mfg. Co. Humidifier apparatus. 2,790,374, 4-30-57, Cl. 98-105.
- Powers, Norman C. Tray with gripping legs. 2,787,507, 4-2-57, Cl. 311-17.
- Powers, Raymond S.: See—
Opalick, Stephen. 2,782,567.
- Powers, Richard, to Bulletin Co. Bottom wrapper feeder. 2,816,408, 12-17-57, Cl. 53-209.
- Powers, Richard E., to Powers Wire Products Co., Inc. Head construction for fastener driver. 2,784,406, 3-12-57, Cl. 1-49.
- Powers, Robert P., to The Firestone Tire & Rubber Co. Wheel structure. 2,779,631, 1-29-57, Cl. 301-13.
- Powers, Robert P., to The Firestone Tire & Rubber Co. Tire and rim combination. 2,817,381, 12-24-57, Cl. 152-381.
- Powers-Samas Accounting Machines Ltd.: See—
Davy, John C., and Cooté. 2,797,920.
Excell, Arthur W. 2,794,592.
Haines, Sidney R. 2,791,376.
Hewitt, Maurice C. P., and Lambert. 2,786,631.
Jones, Charles T. A. 2,783,944.
Lambert, Donald R. and D. P. 2,786,630.
Lucas, John H. 2,815,913.
Perrin, John. 2,792,220.
Piper, Ronald N., and Dawson. 2,811,309.
Watkin, Wilfrid B. C. 2,798,668.
Wildy, Ronald G. 2,783,943.
Wildy, Ronald G. 2,786,412.
- Powers, Wallace F., and R. B. Bradstock, to General Electric Co. Load resistor cooling system. 2,790,122, 4-23-57, Cl. 318-87.
- Powers, Walter P., to C. Todd, as trustee. Air operated slide feed. 2,803,335, 8-20-57, Cl. 203-159.
- Powers, Walter P., to C. Todd, as trustee. Slide feed with spring loaded gripper. 2,803,455, 8-20-57, Cl. 271-2.5.
- Powers, Walter P., to C. Todd, as trustee. Slide feed with toggle actuated gripper. 2,803,456, 8-20-57, Cl. 271-2.5.
- Powers, Walter P., to C. Todd, as trustee. Slide feed with spring closed gripper. 2,803,457, 8-20-57, Cl. 271-2.5.
- Powers, Wesley R., to General Electric Co. Dynamoelectric machine. 2,802,959, 8-13-57, Cl. 310-156.
- Powers Wire Products Co., Inc.: See—
Powers, Richard E. 2,784,406.
- Powlas, James J., to Wagner Electric Corp. Piston assembly. 2,776,864, 1-8-57, Cl. 309-4.
- Poylo, Michael C., to International Telephone and Telegraph Corp. Information transmission system. 2,815,400, 12-3-57, Cl. 179-2.
- Pozerycki, John W., W. E. Lazott, T. Flint, and G. Smith, to Needham Mfg. Co., Inc. Power actuated tire changing machine. 2,783,830, 3-5-57, Cl. 157-1.24.
- Poznik, William. Automotive control system. 2,806,150, 9-10-57, Cl. 307-10.
- Prachar, Otakar P.: See—
Gaubatz, Arthur W., Prachar, Wheatley, and Zimmerman. 2,809,503.
Hazen, Ronald M., and Prachar. 2,798,360.
Wheatley, John B., Prachar, Gaubatz, and Zimmerman. 2,791,091.
- Prachar, Otakar P., to General Motors Corp. Foreign object separator. 2,802,618, 8-13-57, Cl. 230-132.
- Practical Products Co.: See—
St. Laurence, Ernest J. 2,776,074.
- Praeg, Walter S., to National Broach & Machine Co. Broach checker. 2,803,066, 8-20-57, Cl. 33-199.
- Praeger, Henry L. Universal focal length photo-objective system. 2,811,081, 10-29-57, Cl. 88-57.
- Prager, Hans J., and R. A. Wissolik, to Radio Corp. of America. Electrode arrangement for gas tubes. 2,813,217, 11-12-57, Cl. 313-193.
- Praha, Vydroj, Narodni Podnik: See—
Mladek, Bedrich. 2,777,403.
- Prahl, Walter H. Manufacture of aryl phosphates. 2,805,240, 9-3-57, Cl. 260-461.
- Prairie Schooner, Inc.: See—
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- Praizer, Robert J., to Swift & Co. Development of cured color for meat products. 2,797,998, 7-2-57, Cl. 99-159.
- Prall, Gustav. Safety lock for automobile hub caps. 2,797,572, 7-2-57, Cl. 70-258.
- Praschak, Henry A. Device for handling building blocks and other building products. 2,796,178, 6-18-57, Cl. 212-41.
- Prasse, Herbert F., and A. A. Armstrong, to Thompson Products, Inc. Cast valve seat made of an iron alloy. 2,805,943, 9-10-57, Cl. 75-126.
- Prasz, Ove F., to Mikroyaerk A/S. Arrangement in conveyors for mounding plants for chocolate and similar mouldable masses. 2,811,933, 11-5-57, Cl. 107-8.
- Prater, John H. Safety cut-off valve. 2,804,317, 8-27-57, Cl. 284-19.
- Prather, John B. Apparatus for testing hardness of inside surfaces. 2,816,438, 12-17-57, Cl. 73-81.
- Pratt, Adrian B., to Addressograph-Multigraph Corp. Inker control for rotary duplicating apparatus. 2,813,484, 11-19-57, Cl. 101-144.
- Pratt, Edmond O. Guard attachment for beds. 2,817,854, 12-31-57, Cl. 5-331.
- Pratt, Edmond O. Adjustable fence attachment for beds. 2,817,855, 12-31-57, Cl. 5-331.
- Pratt, Elmer J., to Guardian Electric Mfg. Co. Flow control device. 2,816,572, 12-17-57, Cl. 137-501.
- Pratt, Francis E.: See—
Hall, Emery L., and Pratt. 2,794,163.
- Pratt, Harold J.: See—
Seutsch, Franz S., Smith, and Pratt. 2,816,044.
- Pratt, Herbert L., to W. D. Allen Mfg. Co. Hose reel and guard. 2,815,180, 12-3-57, Cl. 242-86.1.
- Pratt, James H.: See—
Epstein, Herman, and Pratt. 2,802,441.
- Pratt, Kenneth W., to National Lead Co. Vibratory apparatus for treating materials. 2,812,063, 11-5-57, Cl. 210-179.
- Pratt, Leonard C.: See—
Moretti, Whitfield, and Pratt. 2,808,082.
- Pratt, Wesley. Indoor portable garden stand. 2,803,923, 8-27-57, Cl. 47-39.
- Pratt & Whitney Co., Inc.: See—
Campbell, Paul J. 2,796,772.
Chandler, Milton E. 2,809,022.
Laviere, Daniel C., and Hawley. 2,814,239.
Whitney, Charles A., and Tinker. 2,814,121.
Wright, Alexander M. 2,788,063.
- Pray, Blaine O., and F. C. Trager, to Columbia-Southern Chemical Corp. Metahalooxaniline production using copper oxide-chromic oxide catalysts. 2,791,613, 5-7-57, Cl. 260-580.
- Preble, Harry, Jr.: See—
Gilbert, Jack, and Preble. 2,777,488.
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- Precious Metals Research Works, Inc.: See—
Neustadter, Irving. 2,798,295.
- Precisa A. G. Rechenmaschinenfabrik: See—
Heinze, Werner, and Julich. 2,802,415.
- Precision Building System, Inc.: See—
Zagray, Harold F. 2,811,035.
- Precision-Cosmet Co., Inc.: See—
Adams, Edwin M. 2,814,916.
- Precision Exploration Co.: See—
Schempf, Edward G. 2,806,545.
- Precision Flexopress Corp.: See—
Forkner, Ewell W. 2,783,996.
Forkner, Ewell W. 2,789,672.
- Precision Parts Corp.: See—
Harmon, Paul V. 2,815,159.
- Precision Scientific Co.: See—
Duray, Joseph P., and Kurz. 2,777,043.
- Precision Welder & Machine Co.: See—
Matthes, Karl W. 2,784,299.
- Preeman, Marvin B., to Standard Steel Corp. Mobile asphalt plant. 2,805,052, 9-3-57, Cl. 259-159.
- Preferred Engineering and Research Corp., The: See—
Miller, Paula A. 2,790,614.
O'Shaughnessy, Bernard T., Jr. 2,805,597.
- Preferred Product Features, Inc.: See—
Kemper, Robert J. 2,788,161.
- Preisig, Joseph O., to Radio Corp. of America. Constant current power supply. 2,816,261, 12-10-57, Cl. 321-23.
- Preisinger, Siegfried R.: See—
Eckardt, Wolfgang M. J., and Preisinger. Re. 24,373.
- Preiswerk, Eduard: See—
Gams, Alphonse, Kraus, Preiswerk, Widmer, and Wieland. 2,786,794.
- Preiswerk, Eduard, K. Meyerhans, O. Ernst, E. Denz, and A. Juchli, to Ciba Ltd. Method of preparing rapid-hardening artificial resin compositions containing hardening agents. 2,788,337, 4-9-57, Cl. 260-37.
- Preload Co., Inc., The: See—
Dobell, Curzon. 2,776,471.
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- Prem, Calvin W.: See—
Von Sosdy, Ivan. 2,809,632.
- Premier Co.: See—
Bowman, Gordon L. 2,814,357.
- Premier Malt Products, Inc.: See—
Frieden, Alexander, and Geller. 2,806,791.
- Premier Research Laboratories, Inc.: See—
Font, Ramon. 2,791,706.
- Premier Thread Co.: See—
Lee, Thomas O. 2,803,337.
- Prendergast, Charles S., 1/2 to H. Gordon. Rotary pump or motor. 2,786,421, 3-26-57, Cl. 103-123.
- Prendergast, Frank L.: See—
James, Richard D., and Prendergast. 2,810,302.
- Prendegast, John: See—
Ketchem, Clarence A., and Prendergast. 2,784,509.
- Prendergast, John, and R. R. Winner, to The American Laundry Machinery Co. Safety device for ring drying conveyor apparatus. 2,802,563, 8-13-57, Cl. 198-232.
- Prentice, Alfred F.: See—
Comtois, Ernest R., and Prentice. 2,782,901.
- Prentice, Alfred F., to Morgan Construction Co. Coll handling apparatus. 2,813,643, 11-19-57, Cl. 214-89.

- Prentice, G. E., Mfg. Co., The: *See*—
 Legat, Robert C. 2,794,226.
 Legat, Robert C. 2,807,849.
 Legat, Robert C. 2,807,851.
 Legat, Robert C. 2,808,718.
 Legat, Robert C. 2,810,945.
- Prentice Machine Works, Inc.: *See*—
 Anderson, Victor E. 2,781,068.
- Prentice, Russell E.: *See*—
 Loftus, Leroy A., and Prentice. 2,812,776.
- Prentiss, Richard J.: *See*—
 Buell, Lucille P., and Prentiss. 2,791,269.
- Prentiss, Spencer S., to Phillips Petroleum Co. Analyzer for gaseous mixtures. 2,782,103, 2-19-57, Cl. 23-255.
- Prentiss, William C.: *See*—
 Conn, William R., Kine, and Prentiss. 2,795,566.
- Preparation Industrielle des Combustibles: *See*—
 Turpin, Jacques. 2,804,206.
- Prescott, Charles H., Jr., and J. A. Holmes, to the United States of America as represented by the United States Atomic Energy Commission. Preparation of uranium metal. 2,785,972, 3-19-57, Cl. 75-84.1.
- Prescott, Ford L., and C. F. Bachle, to Continental Aviation and Engineering Corp. Engine construction. 2,809,614, 10-15-57, Cl. 121-194.
- Prescott, Norman F., to Atwood & Morrill Co. Plug valve. 2,791,395, 5-7-57, Cl. 251-162.
- Presdee, John J., and E. E. Tangard, to Combustion Engineering, Inc. Closure securing means for pressure vessels. 2,786,704, 3-26-57, Cl. 292-256.
- Present, Louis. Colostomy belt. 2,788,785, 4-16-57, Cl. 128-283.
- Presil-fabriken A/S.: *See*—
 Sethne, Magne, and Skorge. 2,801,771.
- Preslan, Floyd W., to Snap-on Tools Corp. Automatic transmission band adjusting tool for internal combustion engines. 2,814,221, 11-26-57, Cl. 81-3.
- Preslicka, Fred M.: *See*—
 Preslicka, Joe and F. M. 2,793,872.
- Preslicka, Joe and F. M. Front wheel suspension for a farm tractor. 2,793,872, 5-28-57, Cl. 280-80.
- Presnell, Frank G., to Bendix Aviation Corp. Combination sequence and locking valve. 2,778,378, 1-22-57, Cl. 137-469.
- Presnell, Frank G., to Bendix Aviation Corp. Fluid metering shut-off valve. 2,796,080, 6-18-57, Cl. 137-620.
- Presnell, Frank G. Flow control valve. 2,807,279, 9-24-57, Cl. 137-493.2.
- Presnell, Frank G. Shuttle valve. 2,811,979, 11-5-57, Cl. 137-112.
- Press Automation Systems Inc.: *See*—
 Sehn, Francis J., and Clemons. 2,781,136.
- Press, Irving D.: *See*—
 Peleris, Edgar S., and Press. 2,800,145.
- Press, Irving D., to Resistoflex Corp. Cam actuated valve. 2,779,564, 1-29-57, Cl. 251-257.
- Press, Irving D., to Resistoflex Corp. Flame-resistant flexible hose assembly. 2,787,289, 4-2-57, Cl. 138-55.
- Press, Jack J. Apparatus for testing fabric or the like. 2,815,658, 12-10-57, Cl. 73-7.
- Press, John E., and D. R. Brandt, to Federal Tool Corp. Step-on type waste receptacle unit. 2,811,329, 10-29-57, Cl. 248-147.
- Press Plugs Pty. Ltd.: *See*—
 Wood, David S. 2,801,021.
- Press Seal Gasket Corp.: *See*—
 Miller, Joseph E. 2,815,228.
- Pressing, Robert W., and A. W. Lavers, to S. C. Johnson & Son, Inc. Wax stripper. 2,804,271, 8-27-57, Cl. 241-30.
- Pressman, Ralph, 25% to N. Dartell. Meat wrapping sheet. 2,811,454, 10-29-57, Cl. 99-171.
- Presson, David, to Century Sportswear Co., Inc. Reversible pleated skirt. 2,791,779, 5-14-57, Cl. 2-211.
- Prest, Robert J., to Technical Operations, Inc. Connector. 2,816,341, 12-17-57, Cl. 24-221.
- Prester, Arthur, to Ocean City Mfg. Co. Gear construction. 2,778,240, 1-22-57, Cl. 74-459.5.
- Prestige, Inc.: *See*—
 Clarke, Joseph V., and Burd. 2,814,938.
- Prestigiacomo, Nick J. Combined water tank and tree ornament. 2,784,529, 3-12-57, Cl. 47-57.5.
- Prestipino, Vincent J., and B. C. Botts. Spring loaded thrust loading device. 2,787,905, 4-9-57, Cl. 73-67.
- Presto Lock Co.: *See*—
 Gebrie, Charles S. 2,798,371.
- Presto Recording Corp.: *See*—
 Stahl, Philip D. 2,785,308.
- Prestole Corp.: *See*—
 Khan, Aman U. 2,777,496.
 Patten, Alexander S. 2,799,202.
- Pres-To-Line Corp. of America: *See*—
 Tatro, Lysle G. 2,803,454.
- Preston, Donald C. Tractor axle and hub. 2,804,157, 8-27-57, Cl. 180-75.
- Preston, Frank S.: *See*—
 Speller, Jack B., and Preston. 2,808,987.
- Preston, Frederick A., to Deering Milliken Research Corp. Process and apparatus for converting continuous filamentary material into filaments of staple length. 2,784,458, 3-12-57, Cl. 19-41.
- Preston, Jack, to Imperial Chemical Industries Ltd. Melting of high melting point metals or alloys. 2,782,114, 2-19-57, Cl. 75-10.
- Preston, Jack, to Imperial Chemical Industries Ltd. Electric furnace for melting of high melting point metals or alloys. 2,782,245, 2-19-57, Cl. 13-9.
- Preston, Jack, and F. W. B. Atcheson, to Imperial Chemical Industries Ltd. Arc-melting furnaces. 2,795,636, 6-11-57, Cl. 13-33.
- Preston, John: *See*—
 Olson, Harry F., and Preston. 2,814,353.
 Olson, Harry F., and Preston. 2,815,823.
- Preston, Martin, to The Wellman Mfg. Co. Locomotive crane. 2,813,636, 11-19-57, Cl. 212-59.
- Preston, Troy C., to Chicago Towel Co. Multiple towel dispensing device. 2,785,034, 3-12-57, Cl. 312-38.
- Preston, William E.: *See*—
 Michael, Ralph A., Newkirk, and Preston. 2,789,655.
- Prete, Ernest, Jr., and E. R. Snyder, to G. D. Brown. Buckle. 2,816,339, 12-17-57, Cl. 24-170.
- Preuss, Albert F., Jr.: *See*—
 Lyman, William R., and Preuss. 2,813,838.
- Preuss, Charles. Automatic transfer device. 2,805,785, 9-10-57, Cl. 214-314.
- Preusser, Henry M., to American-Marietta Co. Adhesive, Resin and Chemical Division. Method of producing soy bean adhesive composition and product derived therefrom. 2,810,657, 10-22-57, Cl. 106-154.
- Prevost, Bruno E., to John W. Bolton & Sons, Inc. Coupling for split hub and shaft. 2,778,663, 1-22-57, Cl. 287-52.03.
- Prevost, Bruno E., to John W. Bolton & Sons, Inc. Magnetic separator. 2,798,611, 7-9-57, Cl. 210-222.
- Pre-Vue Co., Inc.: *See*—
 Kampa, George L. 2,783,015.
- Preway, Inc.: *See*—
 Snyder, Wesley J., Roth, Dillingham, and Jensen. 2,808,823.
- Prewett, Marshall E. Wheel or tire handling device. 2,797,005, 6-25-57, Cl. 214-332.
- Prewitt, Ben F. Hobby horse. 2,785,732, 3-19-57, Cl. 155-56.
- Prex Forgings Corp.: *See*—
 Prough, Paul B., and Bachner. 2,814,101.
- Pribble, Noble F., to Bendix Aviation Corp. Fuel injection control system. 2,815,009, 12-3-57, Cl. 123-32.
- Pribil, Victor. Suction cups. 2,815,919, 12-10-57, Cl. 248-363.
- Price, Aubrey F.: *See*—
 Crozier, Robert N., MacDonald, and Price. 2,816,655.
- Price, Aubrey F., to Shawining Resins Corp. Free flowing thermoplastic vinyl ester copolymer granules and method of preparing same. 2,816,877, 12-17-57, Cl. 260-45.5.
- Price Battery Corp.: *See*—
 Vieth, Albert B. 2,799,905.
- Price Brothers Co.: *See*—
 Osweiler, Paul L. 2,786,127.
- Price Brothers, Inc.: *See*—
 Nelson, George. 2,810,820.
- Price, Charles S., deceased, T. D. Austin, executor. Frame for an object such as a Christmas card, picture, or the like. 2,784,511, 3-12-57, Cl. 40-152.1.
- Price, D. W.: *See*—
 Bachman, Eugene, Bolte, and Hicks. 2,794,889.
- Price, D. W., Corp.: *See*—
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 Bachman, Eugene. 2,816,471.
- Price, Earl R., and T. H. Thomas, to Bendix Aviation Corp. Booster unit for hydraulic pressure system. 2,787,122, 4-2-57, Cl. 60-54.5.
- Price, Frank C. Guard rail assembly for door openings in vehicular bodies. 2,798,762, 7-9-57, Cl. 296-63.
- Price, Harry M., Sr. Article supporting spring clip. 2,794,225, 6-4-57, Cl. 24-84.
- Price, James R. Material handling apparatus. 2,792,973, 5-21-57, Cl. 222-333.
- Price, John A., to American Cyanamid Co. N-substituted acrylamide and polymerization products thereof. 2,806,018, 9-10-57, Cl. 260-80.5.
- Price, John A., to American Cyanamid Co. Method of recovering unreacted monomers including a vinylpyridine. 2,810,714, 10-22-57, Cl. 260-80.5.
- Price, John A., and W. M. Thomas, to American Cyanamid Co. Copolymers of hydroxynitriles. 2,812,315, 11-5-57, Cl. 260-80.5.
- Price, Milton, to Milton Mfg. Co., Inc. Hose nozzles. 2,804,344, 8-27-57, Cl. 299-149.
- Price, Nathan C., to Lockheed Aircraft Corp. Airplane for vertical take-off in horizontal attitude. 2,780,424, 2-5-57, Cl. 244-12.
- Price, Nathan C., and W. M. Hawkins, Jr., to Lockheed Aircraft Corp. Variable area and direction changing propulsive nozzle. 2,802,333, 8-13-57, Cl. 60-35.54.
- Price, R. K., Associates, Inc.: *See*—
 Launay, Pierre. 2,798,555.
- Price, Ralph E., to Gardner Machine Co. Centering guides for disc grinders. 2,808,685, 10-8-57, Cl. 51-118.
- Price, Richard H. and O. Kaye, to Saunders Valve Co. Ltd. Diaphragm valves. Re. 24,350, 8-27-57, Cl. 251-266.
- Price, Richard P., to Barnes Drill Co. Fluid jet size measuring device. 2,777,321, 1-15-57, Cl. 73-37.9.

- Price, Russell W. Apparatus for dispensing intravenous solutions. 2,786,467, 3-26-57, Cl. 128-214.
- Priece, William. Electric water heaters. 2,791,671, 5-7-57, Cl. 219-39.
- Price, William A., Jr.: *See*—
Hermann, Edward C., Larson, and Price. 2,805,185.
- Price, Thomas H., to Marconi's Wireless Telegraph Co. Ltd. Tuned thermionic valve amplifiers. 2,786,903, 3-26-57, Cl. 179-171.
- Price, Thomas H., to National Tile & Terrazzo Co. Precast masonry stairs. 2,815,657, 12-10-57, Cl. 72-96.
- Prieger, Edgar E. Soldering iron. 2,790,060, 4-23-57, Cl. 219-26.
- Prichard, Evan S., to Cook Bros. Equipment Co. Tilting hood and cab for motor vehicles. 2,781,102, 2-12-57, Cl. 180-89.
- Prichard, Homer B. Gyro-controlled automatic transmission. 2,811,050, 10-29-57, Cl. 74-751.
- Prichard, John H.: *See*—
Grow, Harold J., Prichard, and Paist. 2,795,820.
- Pride Washroom Service: *See*—
Johnson, Martin A. 2,802,695.
- Prideaux, Donald W., to General Electric Co. Spotlight apparatus. 2,798,943, 7-9-57, Cl. 240-47.
- Pridy, Whetstone B. Debris and potato sorting device. 2,793,747, 5-28-57, Cl. 209-125.
- Priebe, Henry F., Jr., and A. E. Spencer, Jr., to Bell Telephone Laboratories, Inc. Transistor multivibrator circuits. 2,787,712, 4-2-57, Cl. 250-36.
- Priede, Teodors: *See*—
Mansfield, Wilfred P., Thornycroft, and Priede. 2,804,825.
- Prielipp, Ernest P.: *See*—
Lund, Thomas B., and Prielipp. 2,790,874.
- Prielipp, Glenn E.: *See*—
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- Priess, Hans. Parallel ruler fitted with rollers. 2,789,355, 4-23-57, Cl. 33-109.
- Priest, Gerald G.: *See*—
Morgan, Bryan E., and Priest. 2,805,722.
Morgan, Bryan E., and Priest. 2,806,531.
- Priest, Henry M., to United States Steel Corp. Railway car underframe construction. 2,788,750, 4-16-57, Cl. 105-406.
- Priest, Reid G. Portable logging tower. 2,790,622, 4-30-57, Cl. 254-139.1.
- Priest, William J.: *See*—
Unruh, Cornelius C., Smith, and Priest. 2,808,331.
- Priewe, Hans, and R. Rutkowski, to Schering A. G. Injectable X-ray contrast agents comprising salts of N-acyl derivatives of 2,4,6-triiodo-3-aminobenzoic acid. 2,776,241, 1-1-57, Cl. 167-95.
- Priffits, Sidaire, to Bendix Aviation Corp. Rotatable inductive electro-mechanical apparatus. 2,780,745, 2-5-57, Cl. 310-258.
- Prill, Erhard J., to Monsanto Chemical Co. 3,4-dimethylbenzophenone. 2,802,032, 8-6-57, Cl. 260-591.
- Prill, Erhard J., to Monsanto Chemical Co. Condensation of acetylene with aromatic hydrocarbons. 2,802,038, 8-6-57, Cl. 260-668.
- Prill, Erhard J., to Monsanto Chemical Co. Ketone synthesis. 2,818,436, 12-31-57, Cl. 260-591.
- Primetti, Brenno: *See*—
Torre, Pier L., and Primetti. 2,778,953.
- Primus, Arthur. Reinforced, monolithically faced wall. 2,787,902, 4-9-57, Cl. 72-28.
- Primus Motor: *See*—
Gross, Court. 2,814,282.
- Prince, Clarence F., to Package Machinery Co. Wrapping machine. 2,801,508, 8-6-57, Cl. 53-373.
- Prince, Jack H., and L. Ve Zain, to Solar Aircraft Co. Linear saw blade guide. 2,783,793, 3-5-57, Cl. 143-162.
- Prince, Morton B., to Bell Telephone Laboratories, Inc. Silicon rectifier and method of manufacture. 2,790,940, 4-30-57, Cl. 317-234.
- Prince, Richard H. Topping concentrate and method of making the same. 2,786,765, 3-26-57, Cl. 99-139.
- Prince, Robert W.: *See*—
Miller, Ernest B., Sweet, and Prince. 2,784,798.
- Prince, William W., to Union Stock Yards and Transit Co. Apparatus for precooling and cooling railroad cars. 2,775,871, 1-1-57, Cl. 62-24.
- Princeton Knitting Mills, Inc.: *See*—
Thomas, John B. 2,783,709.
- Prindle, Frank D., to A. O. Smith Corp. Apparatus for attaching a thermostat to a water heater tank. 2,801,320, 7-30-57, Cl. 219-38.
- Prindle, Frank D., to A. O. Smith Corp. Electric water heater having a wrap-around heating element and a glass-coated exterior surface. 2,801,321, 7-30-57, Cl. 219-38.
- Prindle, Robert H. Fray guard for fish hook leaders. 2,812,610, 11-12-57, Cl. 43-44.83.
- Pring, Vernon R.: *See*—
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- Pringham, Henry E. J., to Studebaker-Packard Corp. Two stage fuel injection nozzle. 2,813,752, 11-19-57, Cl. 299-107.2.
- Pringle, Dwight L., to Collins Radio Co. Method of rudder control that gives coordinated turns at all air speeds. 2,791,738, 5-7-57, Cl. 318-489.
- Pringle, William L., to Rockwell Spring and Axle Co. Vehicle drive mechanism. 2,802,554, 8-13-57, Cl. 192-21.
- Pringle, William L., to Rockwell Spring and Axle Co. Shift mechanism for locking differential. 2,803,149, 8-20-57, Cl. 74-710.5.
- Prior, Francis J.: *See*—
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- Prior, Hector T.: *See*—
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- Prior, Hector T., and W. F. S. Chittleburgh, to International Standard Electric Corp. Synchronising arrangements in electric telegraph systems. 2,802,051, 8-6-57, Cl. 178-69.5.
- Prior Products, Inc.: *See*—
Doyle, Arthur J., and Wadsworth. 2,800,245.
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- Prismant, Joseph. Magnifying receptacle for clinical thermometers and the like. 2,787,937, 4-9-57, Cl. 88-39.
- Prism Signs Inc.: *See*—
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- Pritchard, Arnold J. Vehicle steering idler arm bracket. 2,788,221, 4-9-57, Cl. 280-95.
- Pritchard, Clarence L., to Malsbary Mfg. Co. Solution feed for a cleaning machine. 2,781,230, 2-12-57, Cl. 299-84.
- Pritchard, Howard A., to Harris Seybold Co. Plate dampening means. 2,796,832, 6-25-57, Cl. 101-147.
- Pritchard, Hubert K.: *See*—
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- Pritchard, James E., to Phillips Petroleum Co. Rubber softener comprising reaction products of liquid copolymers of conjugated dienes with copolymerizable heterocyclic nitrogen bases. 2,779,747, 1-29-57, Cl. 260-45.5.
- Pritchard, James E., to Phillips Petroleum Co. Process for separation of chlorinated xylenes. 2,814,649, 11-26-57, Cl. 260-651.
- Pritchard, Kenneth L., to The Duralite Mfg. Co. Commercial vehicle body wall construction. 2,812,973, 11-12-57, Cl. 296-28.
- Pritchard, Richard J. Laundry bag. 2,789,610, 4-23-57, Cl. 150-7.
- Pritchard, Robert L., to General Electric Co. Negative resistance oscillator. 2,777,065, 1-8-57, Cl. 250-36.
- Pritchard, Thomas R., to Tanra Mfg. Co. Dispensing valve. 2,781,950, 2-19-57, Cl. 222-82.
- Pritchard, William H.: *See*—
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- Pritchett, David E., to Sunkist Growers, Inc. Debitting navel orange juice. 2,816,033, 12-10-57, Cl. 99-105.
- Pritchett, Ralph M.: *See*—
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- Pritchett, Welby B. Wall with ground anchored thereto. 2,795,130, 6-11-57, Cl. 72-101.
- Pritikin, Nathan, and H. Weinstein, said Weinstein assor. to said Pritikin. Electrical resistor and method of making resistors en masse. 2,796,504, 6-18-57, Cl. 201-64.
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- Prizer, Charles J.: *See*—
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- Pro, George M., to Air Placement Equipment Co. Nozzle for air placement of cementitious materials. 2,785,014, 3-12-57, Cl. 299-140.
- Probal, Robert V., and C. M. Rock; said Rock assor. to said Probal. Lock control. 2,814,197, 11-26-57, Cl. 70-181.
- Probert, Rhys P., and A. P. Johnstone, to Power Jets (Research and Development) Ltd. Combustion apparatus incorporating a combustion chamber of the cyclone or vortex type. 2,797,549, 7-2-57, Cl. 60-39.23.
- Probst, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for purifying ketene. 2,816,143, 12-10-57, Cl. 260-585.5.
- Procedes Sauter: *See*—
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- Process Engineers Inc.: *See*—
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- Prochazka, Frank J., to Racine Hydraulics & Machinery, Inc. Quick-opening tool retainer jaws. 2,776,841, 1-8-57, Cl. 279-19.4.
- Prochazka, Zelimir: *See*—
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- Procházka, Zelimir, to Spofa, narodni podnik. New anti-coagulants. 2,806,858, 9-17-57, Cl. 260—343.2.
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- Frisch, Maurice. 2,788,781.
- Procter, Edward C., to Sperry Rand Corp. Sharpening attachment. 2,788,623, 4-16-57, Cl. 51—246.
- Procter, Edward C., to Sperry Rand Corp. Chuck. 2,789,826, 4-23-57, Cl. 279—87.
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- Andre, James R., and Goings. 2,815,286.
- Daley, Edwin W. 2,814,584.
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- Eaton, Stanley L. 2,776,943.
- Holman, George W., and Sanders. 2,815,285.
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- Huber, Wilson F., and Tucker. 2,812,324.
- Klein, Lorenz E. 2,813,615.
- Lutton, Edwin S. 2,801,177.
- McDonough, Everett G. 2,809,150.
- Sanders, Judson H. 2,812,284.
- Stocking, George L. 2,816,646.
- Procter, Maurice A. Wall jack. 2,812,077, 11-5-57, Cl. 214—1.
- Procter, Samuel A. Phase-sensitive synchronizing circuit. 2,795,644, 6-11-57, Cl. 178—7.5.
- Procter, Allen C. Exercising device. 2,814,491, 11-26-57, Cl. 272—68.
- Proctor, Aurion M., to ACF Industries, Inc. Fastening device, for panels. 2,791,301, 5-7-57, Cl. 189—88.
- Proctor Electric Co.: *See—*
- Lawser, John J. 2,796,492.
- Turner, Charles R. 2,817,741.
- Proctor, Kenneth L., and H. L. Katz. Phenol-formaldehyde resin and its method of preparation. 2,806,006, 9-10-57, Cl. 260—2.5.
- Proctor, Robert G.: *See—*
- McCahon, John O., and Proctor. 2,777,562.
- Proctor and Schwartz, Inc.: *See—*
- Bogaty, Stanislaus. 2,777,446.
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- Meder, Arthur A., Jr., and Lewis. 2,815,654.
- Remer, Robert J. 2,795,056.
- Schwartz, Phillips K. 2,815,832.
- Scott, John F. 2,799,096.
- Thygeson, John R. 2,801,042.
- Proctor, Sidney E., to Austin Hoy & Co. Ltd. Tool carrying chains for use on coal cutters and the like. 2,778,236, 1-22-57, Cl. 74—246.
- Proddo, Edward F. Manufacture of packages with detachable registered printed appendages. 2,815,620, 12-10-57, Cl. 53—14.
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- Proffitt, Leslie M. Ring projecting toy. 2,816,536, 12-17-57, Cl. 124—10.
- Profos, Paul, to Sulzer Freres, Societe Anonyme. Control system for forced flow vapor generators. 2,800,887, 7-30-57, Cl. 122—448.
- Progrner, Fred W., Jr. Speed signal means. 2,785,247, 3-12-57, Cl. 200—81.9.
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- Progressive Welder Sales Co.: *See—*
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- Prohaczka, Karoline (Karla) and S. Prohaczka. Stroking-massage apparatus. 2,803,243, 8-20-57, Cl. 128—24.1.
- Prohaczka, Stefan: *See—*
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- Walsh, David A., Projector, and Mullis. 2,805,357.
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- Ifrey, William T., and Prokop. 2,776,112.
- Morgan, Bryan E., and Prokop. 2,776,713.
- Prokop, Charles L., G. G. Wrightsman, W. A. Hoyer, and M. S. Taggart, Jr., to Humble Oil & Refining Co. Mining of sulfur using spaced-apart wells. 2,808,248, 10-1-57, Cl. 262—3.
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- Fleetwood, Roscoe. 2,803,369.
- Properzi, Ilario. Device for making metal pellets particularly for shotguns. 2,782,487, 2-26-57, Cl. 29—1.22.
- Properzi, Ilario. Rolling mill. 2,789,450, 4-23-57, Cl. 80—30.
- Proportioners, Inc.: *See—*
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- Propos, Harry. Portable self contained signal and warning light. 2,780,802, 2-5-57, Cl. 340—321.
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- Prose, Joseph, to Burgess-Norton Mfg. Co. Tread unit structure. Re. 24,331, 6-18-57, Cl. 305—10.
- Prosser, Dwight M., to Peerless Balance Co. Window sash assembly. 2,792,597, 5-21-57, Cl. 20—52.2.
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- Prothero, James H.: *See—*
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- Protocorp, Inc.: *See—*
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- Protapapa, Sejñ, B. W. Ela, Jr., and J. Mandycyk, to The Ryan Aeronautical Co. Internal planimeter. 2,796,668, 6-25-57, Cl. 33—122.
- Protz, Edward H., to Carter Parts Co. Foot dimmer switch. 2,809,262, 10-8-57, Cl. 200—168.
- Proudfoot, Don A., D. K. Meissner, and A. T. Walton, to Simpson Timber Co. Process of forming fissured fiber acoustical tile and product thereof. 2,791,289, 5-7-57, Cl. 181—33.
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- Prough, Paul B., and A. J. Bachner, to Prex Forgings Corp. Forging die and method. 2,814,101, 11-26-57, Cl. 29—55.2.
- Proulx, Leonard E., to United Shoe Machinery Corp. Machine for shaping uppers over lasts. 2,794,994, 6-11-57, Cl. 12—10.2.
- Prout, Lester B. Winding reel for oxy-acetylene torch hoses. 2,783,089, 2-26-57, Cl. 299—78.
- Prout, William C., and G. M. Loveland. Cord dispensing device. 2,776,804, 1-8-57, Cl. 242—145.
- Provi, Mike A., to The Brearley Co. Weighing scales. 2,788,963, 4-16-57, Cl. 265—68.
- Provi, Mike A., The Brearley Co. Illuminated bathroom scale. 2,812,422, 11-5-57, Cl. 240—2.11.
- Province, John H., to Phillips Petroleum Co. Hydraulic control system. 2,780,950, 2-12-57, Cl. 81—53.
- Provost, John R. Power window operator. 2,791,420, 5-7-57, Cl. 268—124.
- Prowinsky, Joseph H. Straight line lift truck. 2,785,807, 3-19-57, Cl. 214—1.
- Prowse, Marl D. Percussion hot wire cutter. 2,814,873, 12-3-57, Cl. 30—228.
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- Sims, Marion W., and Proxmire. 2,791,660.
- Prucha, Frank J., and E. G. Abersfeller, to American Smelting and Refining Co. Pouring mechanism for casting molten metal and the like. 2,803,861, 8-27-57, Cl. 22—79.
- Prucha, Frank J., and E. G. Abersfeller, to American Smelting and Refining Co. Mechanism for removing a casting from a mold. 2,803,978, 8-27-57, Cl. 81—52.3.
- Pruehs, Leslie L., to General Electric Co. Mounting plate for refrigerator control. 2,777,038, 1-8-57, Cl. 200—168.
- Pruett, George O., to American Cyanamid Co. Treatment of heavy metal ferrocyanides for the recovery of heavy metal sulfides. 2,789,033, 4-16-57, Cl. 23—134.

- Pruett, George O., to American Cyanamid Co. Oxidation inhibitors for lubricating oil. 2,809,164, 10-8-57, Cl. 252-51.5.
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- Prust, Alvin F., to Republic Steel Corp. Lubricating composition. 2,790,771, 4-30-57, Cl. 252-34.7.
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- Prupton, Daniel H. Follower guide fixture. 2,792,729, 5-21-57, Cl. 80-7.
- Prutzman, Paul E. Rear view truck mirrors. 2,797,287, 6-25-57, Cl. 219-19.
- Prymek, Milton C., to Western Electric Co., Inc. Still extractor. 2,779,723, 1-29-57, Cl. 202-170.
- Pryne & Co., Inc.: *See*—
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- Pryne, Ralph, to Pryne & Co., Inc. Wall cap for ventilating duct. 2,790,377, 4-30-57, Cl. 98-119.
- Pryne, Ralph, to Emerson-Pryne Co. Housing construction for electrical devices. 2,810,009, 10-15-57, Cl. 174-51.
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- Przyslak, Nicholas E.: *See*—
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- Przysiecki, Theodore I., to Teletype Corp. Tape feeder. 2,817,515, 12-24-57, Cl. 271-2.5.
- Przystawik, Otto, to Dancing Waters, Inc. Fountain installation and an electric circuit for operating same. 2,787,495, 4-2-57, Cl. 299-7.
- Przystawik, Otto, to Dancing Waters, Inc. Fountain installation disassembling features. 2,794,674, 6-4-57, Cl. 299-7.
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- Puckett, Billy E. Center locator. 2,780,874, 2-12-57, Cl. 33-191.
- Puckett, James H., 1/2 to P. Asmussen. Actuating means for electric light bulbs. 2,795,668, 6-11-57, Cl. 200-81.
- Puckett, Louis S. Ground leveler. 2,814,891, 12-8-57, Cl. 37-148.
- Puckett, Oliver K. Ammunition case. 2,779,522, 1-29-57, Cl. 224-15.
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- Puddington, Ira E., and A. F. Sirianni, to National Research Council. Water-repellent aerogels. 2,805,961, 9-10-57, Cl. 117-100.
- Pudlo, Alex., to Pudlo Liquid Filter, Inc. Liquid filters. 2,809,754, 10-15-57, Cl. 210-443.
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- Puerner, Bertram H., to Allis-Chalmers Mfg. Co. Method and apparatus for supplying a kiln with a uniform flow of secondary combustion air at a constant temperature. 2,793,020, 5-21-57, Cl. 263-32.
- Puerner, Larry R. Butter dispenser. 2,809,428, 10-15-57, Cl. 31-13.
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- Purcell, John C. 2,787,246.
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- Puett, Joseph R. Chimney cleaner. 2,799,885, 7-23-57, Cl. 15-243.
- Pugach, Paul I. Guard for a domestic range. 2,778,356, 1-22-57, Cl. 126-42.
- Pugel, Mathias P. Level vial. 2,792,638, 5-21-57, Cl. 33-211.
- Pugh, Emerson, to Western Electric Co., Inc. Hearth structures for high temperature furnaces. 2,798,716, 7-9-57, Cl. 263-49.
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- Pugh, William A., Sr. Beverage containers. 2,799,439, 7-16-57, Cl. 229-7.
- Pugh, William A., Sr. Containers with pressure closed self opening sipper straw. 2,800,265, 7-23-57, Cl. 229-7.
- Pugh, William A. Container with sipper straw. 2,805,809, 9-10-57, Cl. 229-7.
- Pugin, André, to J. R. Geigy A. G. Process for the production of finely dispersed phthalocyanine pigments which are stable in solvents. 2,791,589, 5-7-57, Cl. 260-314.5.
- Pugliese, Vito A. Drip catcher. 2,808,066, 10-1-57, Cl. 135-48.
- Puhlmann, Otto, to L. Schuler Ag. Power presses with multiple point drive means. 2,815,709, 12-10-57, Cl. 100-257.
- Pujes, Adolphe. Extinguishing apparatus. 2,783,846, 3-5-57, Cl. 169-32.
- Pukelko, Richard, and H. Tobler, to Landis & Gyr, A. G. Totalizing meter. 2,781,975, 2-19-57, Cl. 235-92.
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- Pulaski, John W., to General Electric Co. Vacuum molding apparatus. 2,784,455, 3-12-57, Cl. 18-35.
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- Pullin, Cyril G., and J. S. Shapiro, to Autogiro Co. of America. Helicopter with paddle wheel type tail rotor. 2,788,075, 4-9-57, Cl. 170-135.24.
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- Augstgen, Kenneth J., and Candlin. 2,778,320.
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- Boese, William G. 2,804,024.
- Candlin, James E., Jr., and Van Der Sluys. 2,812,725.
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- Edwards, Francis E., and Wille. 2,816,670.
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- Meldrum, Robert A. 2,783,717.
- Meyer, Wendel J., and Johnsen. 2,803,353.
- Miers, Archie M., and Van Der Sluys. 2,816,683.
- Osner, Clarence W., and Spence. 2,811,380.
- Perna, Angelo J., and Dahlberg. 2,794,402.
- Rothfuchs, Oscar E. 2,780,180.
- Shaver, William R. 2,813,496.
- Smith, Henry J. 2,809,722.
- Van Der Sluys, William. 2,779,032.
- Pull-Packaging, Inc.: *See*—
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- Pulnik, Edward L.: *See*—
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- Pulse Techniques, Inc.: *See*—
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- Pulsifer, Clarence D.: *See*—
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- Pulsifer, Frank: *See*—
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- Pulvari, Charles F. Apparatus for electrostatic recording and reproducing. 2,793,288, 5-21-57, Cl. 250-27.
- Pummer, Herbert: *See*—
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- Schmalenbach, Adolf, Pummer, and Daniels. 2,808,317.
- Pumpelly, Charles T., and E. C. Britton, to The Dow Chemical Co. Chloroaryloxyacetates and chloroaryloxypropionates of the partial esters of 2,2-dichloropropionic acid and an aliphatic polyhydric alcohol. 2,817,676, 12-24-57, Cl. 260-473.
- Pumphrey, Howard F.: *See*—
Dowell, Peter T. G., and Pumphrey. 2,815,988.
- Pumphrey, Roy L., deceased; by S. M. Pumphrey, widow and sole heir. Cleaning nozzle. 2,802,697, 8-13-57, Cl. 299-140.
- Pumphrey, Sallie M.: *See*—
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- Punch and Judy: *See*—
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- Punte, William F.: *See*—
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- Punte, William F., to Continental Can Co., Inc. Plastic nozzle mounting and method of forming same. 2,813,664, 11-19-57, Cl. 222-566.
- Punzak, Joseph F., to United Metal Goods Mfg. Co., Inc. Heating unit for percolator. 2,785,276, 3-12-57, Cl. 219-44.
- Punzmann, Carl: *See*—
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Fischer, Franz, and Punzmann. 2,807,688.
- Purcell, Edward M., to the United States of America as represented by the Secretary of the Navy. Mode transformer for wave guides. 2,779,923, 1-29-57, Cl. 333-21.
- Purcell, John C., to Puett Electrical Starting Gate Corp. Race starting gate. 2,787,245, 4-2-57, Cl. 119-15.5.
- Purcell, John C., to Puett Electrical Starting Gate Corp. Race starting gate for flat races. 2,787,246, 4-2-57, Cl. 119-15.5.
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- Purcell, Joseph J.: *See*—
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- Purdue, Albert G., to Fluid Systems, Inc. Method of and apparatus for storage heating of materials. 2,813,961, 11-19-57, Cl. 219-19.
- Purdue, Edward J., to Radio Corp. of America. Crystal mounting. 2,784,326, 3-5-57, Cl. 310-9.4.
- Purdue Research Foundation: *See*—
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- Purdy, Bruce B. Weft-manipulating and protective means for looms. 2,809,672, 10-18-57, Cl. 139-336.
- Purdy, George W. Turnbuckles. 2,810,595, 10-22-57, Cl. 287-60.
- Purdy Machinery Co. Ltd.: *See*—
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- Purdy, Robert J., to The Orr Felt and Blanket Co. Clearing board. 2,804,656, 9-3-57, Cl. 19-139.
- Purdy, Richard H., and J. A. Kneeland, to Pacific Vegetable Oil Corp. Extraction of sesame. 2,786,063, 3-19-57, Cl. 260-340.5.
- Purdy, Roland M.: *See*—
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- Pure Oil Co., The: *See*—
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- Puretic, Mario J. One operator net-retrieving and boat-guiding device and method of using same. 2,810,979, 10-29-57, Cl. 43-8.
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- Purington, Ellison S.: *See*—
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- Purington, Ellison S., to J. H. Hammond, Jr. Transmitter-controlled receiver recording system. 2,788,389, 4-9-57, Cl. 178-6.7.
- Purington, Ellison S., to J. H. Hammond, Jr. Oscillator. 2,794,124, 5-28-57, Cl. 250-36.
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- Purkhiser, Roy C. Insulated pipe union with dip tube hanger. 2,794,658, 6-4-57, Cl. 285-52.
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- Purolator Products, Inc.: *See*—
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- Purpura, Frank J., to The Yale & Towne Mfg. Co. Rotating clamp attachment for lift trucks. 2,812,089, 11-5-57, Cl. 214-620.
- Pursche, Harry A. Two-way roll-over disc plow. 2,777,373, 1-15-57, Cl. 97-26.
- Pursche, Harry A. Coulter mounting for tractor supported two-way plow. 2,780,157, 2-5-57, Cl. 97-26.
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- Pursel, Harold R., and M. B. Owen, to Beaumont Birch Co. Automatic system for handling pulverulent material. 2,818,305, 12-31-57, Cl. 302-14.
- Purser, Edwina: *See*—
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- Purvis, Joseph L., to International Minerals & Chemical Corp. Process for recovering glutamic acid. 2,788,368, 4-9-57, Cl. 260-527.
- Purvis, Joseph L., to International Minerals & Chemical Corp. Resolution of amino acids. 2,790,001, 4-23-57, Cl. 260-534.
- Purvis, Joseph L., and H. L. Fike, to International Minerals & Chemical Corp. Process for producing glutamic acid. 2,796,433, 6-18-57, Cl. 260-527.
- Purvis, Joseph T., and L. C. Secord, to A. V. Roe Canada Ltd. Joint construction for combustion chamber casings. 2,795,930, 6-18-57, Cl. 60-39.31.
- Purvis, Joseph T., and E. Kennard, to A. V. Roe Canada Ltd. Mounting means for turbine rotors. 2,801,070, 7-30-57, Cl. 253-39.
- Purvis, Joseph T., and L. C. Secord, to A. V. Roe Canada Ltd. Flame tube support for a gas turbine combustion system. 2,807,934, 10-1-57, Cl. 60-39.31.
- Purvis, Robert J., and W. R. Beck, to Minnesota Mining & Mfg. Co. Method of activating the surface of perfluorocarbon polymers and resultant article. 2,789,063, 4-16-57, Cl. 117-47.
- Purvis, Thomas J.: *See*—
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- Puryear, Virgil L. Unipole antenna. 2,805,416, 9-3-57, Cl. 343-848.
- Puschhof, Siegfried: *See*—
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- Puschmann, Heinz: *See*—
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- Pusey, Raymond D., to Wilson Refrigeration, Inc. Bulk milk cooler. 2,785,545, 3-19-57, Cl. 62-141.
- Pusinelli, Eric: *See*—
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- Puster, Louis M., to Robertshaw-Fulton Controls Co. Automobile radiator thermostat. 2,810,524, 10-22-57, Cl. 236-34.
- Putnam, Maurice W., to the United States of America as represented by the Secretary of the Interior. Destructive distillation of hydrocarbonaceous materials. 2,813,823, 11-19-57, Cl. 202-6.
- Putnam, Austin C., to R. W. Beach. Dry ore concentrating devices and methods. 2,806,601, 9-17-57, Cl. 209-474.
- Putnam, Gerald F.: *See*—
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- Putnam, Hamilton W.: *See*—
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- Putnam, Peter, to Sanders Associates, Inc. Speed registering device. 2,795,273, 6-11-57, Cl. 161-18.
- Putnam, Stearns T.: *See*—
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- Putney, David H., to Stratford Engineering Corp. Apparatus for controlling temperature change of blends of fluids or fluids and finely divided solids. 2,800,307, 7-23-57, Cl. 257-73.
- Pütter, Rolf: *See*—
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- Pütter, Rolf, to Farbenfabriken Bayer Aktiengesellschaft. Chromium complex disazo dyestuffs. 2,803,625, 8-20-57, Cl. 260-148.
- Putter, Rolf, and F. Suckfull, to Farbenfabriken Bayer Aktiengesellschaft. Cyclic ether-sulfones. 2,807,627, 9-24-57, Cl. 260-327.
- Puttman, Ernest G., to Kaiser Steel Corp. Cooling device. 2,781,923, 2-19-57, Cl. 214-17.
- Putz, Hector R., to McGraw-Edison Co. Remote control relay. 2,794,091, 5-28-57, Cl. 200-92.
- Pütz, Johannes: *See*—
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- Putz, Roman G. Hand tool type of sponge cleansing device. 2,817,106, 12-24-57, Cl. 15-136.
- Putzrath, Franz L., to Radio Corp. of America. Frequency synthesis system. 2,797,326, 6-25-57, Cl. 250-36.
- Puvogel, William M. Device for converting discarded beverage can into well type ash tray. 2,777,596, 1-15-56, Cl. 220-1.
- Pycpe, Inc.: *See*—
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- Pye, David J., and G. F. Schurz, to The Dow Chemical Co. Electrowinning of metals. 2,798,040, 7-2-57, Cl. 204-108.
- Pye, David J., T. J. West, P. M. Craven, and J. A. Patterson, to The Dow Chemical Co. Weighted ion exchange resin granules and method of making same. 2,809,943, 10-15-57, Cl. 260-2.1.
- Pye, Harold C., to General Telephone Laboratories, Inc. Telephone receiver. 2,791,641, 5-7-57, Cl. 179-114.
- Pye, Harold C., to General Telephone Laboratories, Inc. Telephone for use in noisy locations. 2,801,289, 7-30-57, Cl. 179-81.
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- Pyk, Herman T., to Atlas Copco Aktiebolag. Hammer pistons and tools provided therewith. 2,812,745, 11-12-57, Cl. 121-31.
- Pyle, Cyrus: *See*—
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- Pyle, Cyrus, and G. M. Turner, to E. I. du Pont de Nemours and Co. Process of suppressing foam formation in distillation of acrylonitrile. 2,777,807, 1-15-57, Cl. 202-39.5.
- Pyle, Edwin C., and F. C. Pittman, to Halliburton Oil Well Cementing Co. Well bore scraping device. 2,781,100, 2-12-57, Cl. 166-173.
- Pyle-National Co., The: *See*—
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- Pyle, Robert J.: *See*—
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- Pyle, Ronald E., and J. B. Longenecker, to Union Starch & Refining Co. Caramel color manufacture. 2,784,118, 3-5-57, Cl. 127-34.
- Pym, Derek: *See*—
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- Pynor, Thomas E., to Beaumont Birch Co. Automatic continuous discharge air lock for cyclone separator. 2,804,170, 8-27-57, Cl. 185-85.
- Pynor, Thomas E., to Beaumont Birch Co. Pulverized material feeder apparatus. 2,804,349, 8-27-57, Cl. 302-29.
- Pynor, Thomas E., to Beaumont Birch Co. Vacuum ash handling system. 2,805,895, 9-10-57, Cl. 302-27.
- Pyramid Leather Goods Co., Inc.: *See*—
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- Pyramid Mouldings, Inc.: *See*—
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- Pyrene Co., Ltd., The: *See*—
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- Pyro Plastics Corp.: *See*—
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Baker, Giles A. 2,796,667.
- Pyzel, Robert. Cement manufacture. 2,776,132, 1-1-57, Cl. 263-53.
- Quaas, Joseph F.: *See*—
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- Quackenbush, Carl L. Flower support. 2,815,606, 12-10-57, Cl. 47-41.
- Quackenbush, Edward C., to Whitney Blake Co. Electrical connector having resilient insert. 2,779,008, 1-22-57, Cl. 339-59.
- Quackenbush, Edward C., to Whitney Blake Co. Angle adapter. 2,801,395, 7-30-57, Cl. 339-94.
- Quackenbush, Robert C. Feed control attachment for hand tools. 2,784,616, 3-12-57, Cl. 77-34.4.
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- Quaker Oats Co., The: *See*—
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Dunlop, Andrew P., and Madden. 2,786,852.
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- Quaker Stretcher Co.: *See*—
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- Qualey, Norman C., to Northern Ordnance Inc. Welding gun structure. 2,797,306, 6-25-57, Cl. 219-130.
- Qualheim, Harold J., to Qualheim, Inc. Vegetable slicing machine. 2,807,302, 9-24-57, Cl. 146-115.
- Qualheim, Inc.: *See*—
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- Quality Components, Inc.: *See*—
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- Quality Hosiery Mills, Inc.: *See*—
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- Qualman, Jack W.: *See*—
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- Quam, Ranold F. Valves for pressure jugs or the like. 2,794,452, 6-4-57, Cl. 141-17.
- Quandt, Hans-Hubert, to Rudolf Mohr. Wick assembly. 2,784,581, 3-12-57, Cl. 67-64.
- Quantrille, Oliver H. Weather strip structure for doors. 2,797,453, 7-2-57, Cl. 20-68.
- Quantz, Chester C., to Electro-Mechanical Products Co. Regulating device. 2,806,962, 9-17-57, Cl. 290-31.
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- Quayle, Alexander, to United States Steel Corp. Pump driving mechanism. 2,790,335, 4-30-57, Cl. 74-665.
- Quayle, George F., to The Yale & Towne Mfg. Co. Guide for industrial truck lifting member. 2,787,337, 4-2-57, Cl. 187-9.
- Quayle, George F., to The Yale & Towne Mfg. Co. Chain securing means for a lift truck. 2,787,338, 4-2-57, Cl. 187-9.
- Quayle, George F., to The Yale & Towne Mfg. Co. Ram guide for lift truck. 2,791,292, 5-7-57, Cl. 187-9.
- Quayle, George F., to The Yale & Towne Mfg. Co. Caster wheel tilting mount for corner drive truck. 2,793,875, 5-28-57, Cl. 280-128.
- Quebec Iron and Titanium Corp.: *See*—
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- Quebec Metallurgical Industries Ltd.: *See*—
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- Queen Stone Works, Inc.: *See*—
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- Quelrolo, Francis J. Eraser cleaner. 2,779,046, 1-29-57, Cl. 15-810.
- Queisser, Roger J., to Stewart-Warner Corp. Hot air heater with overheat safety device. 2,793,477, 7-9-57, Cl. 126-116.
- Queneau, Bernard R.: *See*—
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- Quercetti, Louis C. Ratchet ladder. 2,800,371, 7-23-57, Cl. 304-10.
- Quermann, Thomas R., and S. M. Weinberger, to Sperry Rand Corp. Gyro pendulum rotor speed control. 2,786,357, 3-26-57, Cl. 74-5.7.
- Querry, Merle V.: *See*—
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- Quick, Alfred S., and A. A. Rivington, to United Shoe Machinery Corp. Sole molding machines. 2,806,232, 9-17-57, Cl. 12-21.
- Quick, Robert J. Animal grooming implement. 2,800,879, 7-30-57, Cl. 119-92.
- Quick, William G., and W. O. Wilson, to Kingsboro Mills, Inc. Selvedge straightening mechanism. 2,813,325, 11-19-57, Cl. 26-57.
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- Quigley Co., Inc.: *See*—
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- Quigley, Milner D., to Sinclair Oil & Gas Co. Process of geophysical prospecting. 2,796,235, 6-18-57, Cl. 255-1.8.
- Quigley, William A.: *See*—
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- Quilici, Gino: *See*—
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- Quimby, Walter. Apparatus for graphprinting. 2,776,620, 1-8-57, Cl. 101-328.
- Quimby, William S., and J. M. Robertson, to The Texas Co. Lubricating compositions containing 2-benzothiazyl-N,N-dialkylidithiocarbamates. 2,785,129, 3-12-57, Cl. 252-33.4.
- Quin, Denis C.: *See*—
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- Quin, James P., to Imperial Chemical Industries Ltd. Process for refining titanium. 2,807,539, 9-24-57, Cl. 75-84.
- Quin, James P., to Imperial Chemical Industries Ltd. Method of producing titanium. 2,816,020, 12-10-57, Cl. 75-84.5.
- Quin, James P., to Imperial Chemical Industries Ltd. Method of producing titanium. 2,816,021, 12-10-57, Cl. 75-84.5.
- Quinche, Albert: *See*—
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- Quinche, Albert, and E. Lecluyse, to Uni-Tubo S. A. Mold for plastic collapsible containers. 2,812,548, 11-12-57, Cl. 18-42.
- Quinlan, Amos L.: *See*—
- Birchler, Robert O., and Quinlan. 2,807,707.
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- Quinlan, Amos L., to Western Electric Co., Inc. Welding apparatus. 2,789,202, 4-16-57, Cl. 219-78.
- Quinlan, Amos L., to Western Electric Co., Inc. Method of and apparatus for welding contacts onto relay parts. 2,798,936, 7-9-57, Cl. 219-96.
- Quinlan, Amos L., to Western Electric Co., Inc. Percussion welding apparatus. 2,809,274, 10-8-57, Cl. 219-95.
- Quinlan, Amos L., and R. F. Schalk, to Western Electric Co., Inc. Apparatus for selectively forming and welding contacts onto electrical components. 2,809,273, 10-8-57, Cl. 219-79.
- Quinlan, John F.: *See*—
- Lewis, Frederick J., Jr., and Quinlan. 2,790,973.
- Quinn, Bert A. Door latching mechanism. 2,796,272, 6-18-57, Cl. 292-67.
- Quinn, Bert A. Door and hinge construction. 2,805,740, 9-10-57, Cl. 189-46.
- Quinn, Clark E.: *See*—
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- Quinn, Edward, to United Shoe Machinery Corp. Tack driving mechanisms. 2,779,942, 2-5-57, Cl. 1-18.1.
- Quinn, Edward, to United Shoe Machinery Corp. Machines for contracting the margins of sheet material. 2,781,533, 2-19-57, Cl. 12-97.
- Quinn, Edward, to United Shoe Machinery Corp. Slip-lasted shoe sewing machines. 2,807,224, 9-24-57, Cl. 112-36.
- Quinn, Edwin A.: *See*—
- Pinkard, Kathryn B., and Quinn. 2,817,733.
- Quinn, James H. Hydraulically operated ignition switch and brake control device. 2,817,424, 12-24-57, Cl. 192-3.
- Quinn, John A., to The Theobald Industries. Composition providing available chlorine and process of making same. 2,795,556, 6-11-57, Cl. 252-187.
- Quinn, John F.: *See*—
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- Quinn, John F., and C. Osuch, to Monsanto Chemical Co. Alkali metal hydroxylamine disulfonates. 2,812,238, 11-5-57, Cl. 23-114.
- Quinn, Neville R. L., B. D. Blackwell, and A. Scott, to The Bristol Aeroplane Co. Ltd. Sealing devices. 2,814,512, 11-26-57, Cl. 286-9.
- Quinn, Truman H., to the United States of America as represented by the United States Atomic Energy Commission. Compound action gain control. 2,801,302, 7-30-57, Cl. 179-171.
- Quinsey, Thomas E., and H. E. Krueger, to Mitts & Merrill. Dicing apparatus for sheet materials. 2,812,815, 11-12-57, Cl. 164-17.
- Quint, Ferdinand: *See*—
- Bestian, Herbert, Schäfer, and Quint. 2,794,023.
- Quintanilla, Janet. Window structure. 2,776,459, 1-8-57, Cl. 20-48.
- Quintili, Leoni. Recovery of heat contained in cooling fluid of transformers and alternators. 2,778,607, 1-22-57, Cl. 257-24.
- Quintin, Albert A. J., to Compagnie des Metaux d'Overpelt-Lemmel and de Corphalia. Process for roasting of sulfide ores. 2,797,987, 7-2-57, Cl. 75-9.
- Quirk Machinery Co.: *See*—
- Ponder, Raymond E., and Babunovic. 2,776,445.
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- Levin, Carl A., and Quirk. 2,804,014.
- Quisenberry, Carter E., to BMC Mfg. Corp. Drive for wheeled vehicles. 2,784,605, 3-12-57, Cl. 74-217.
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- Jahn, Earl W., and Quist. 2,813,316.
- Quist, Harold A., to Sun Oil Co. Breather valve. 2,811,980, 11-5-57, Cl. 137-248.
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- Quittenton, Richard C., to Aluminium Laboratories Ltd. Removal of hydrogen fluoride from gases. 2,813,000, 11-12-57, Cl. 23-2.
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- Back, Frank G., and Quittner. 2,815,701.
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- Qvarnstrom, Gustaf E. Plucking tools. 2,788,651, 4-16-57, Cl. 69-20.
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- Geist, William L., Fienup, Putnam, Easter, and Zoeller. 2,793,127.
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- Warren, Francis G. R. 2,814,040.
- Warren, Francis G. R., and Pinnell. 2,814,037.
- R. C. M. Revisione Construzione Macchine Societa in nome collettivo: *See*—
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- Raab, Karlheinz: *See*—
- Härter, Paul, Ort, Raab, and Umbs. 2,811,080.
- Raab, William J.: *See*—
- Monroe, Carl M., Rader, and Raab. 2,802,770.
- Raab, William J., and R. R. Whetstone, to Shell Development Co. Halo-substituted organo-phosphorous compounds. 2,806,049, 9-10-57, Cl. 260-461.
- Raabe, Erwin M.: *See*—
- Bergen, Edward C., and Raabe. 2,810,492.
- Rabas, Eduard. Shut-off valve. 2,816,730, 12-17-57, Cl. 251-328.
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- Rabenda, Edward J., to International Business Machines Corp. Electronic decimal storage device. 2,807,413, 9-24-57, Cl. 235-61.6.
- Rabenda, Edward J., to International Business Machines Corp. Pre-set recycling glow transfer counter. 2,807,419, 9-24-57, Cl. 235-132.
- Rabenda, Edward J., and D. W. Rubidge, to International Business Machines Corp. Statistical tape analyzer. 2,803,402, 8-20-57, Cl. 235-61.1.
- Rabeux, Jean, and R. Jacob, to Societe d'Applications Generales d'Electricite et de Mecanique. Circular loom. 2,813,547, 11-19-57, Cl. 139-13.
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- Rabinowitz, Irwin. Music copying typewriter mechanism. 2,784,828, 3-12-57, Cl. 197-8.
- Rabinowitz, Irving. Pressure pack and sealing machine for edibles. 2,795,092, 6-11-57, Cl. 53-113.
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- Race, Richard T., to Motorola, Inc. Radio receiver. 2,810,071, 10-15-57, Cl. 250-20.
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- Rach, Herbert E. Snell adapter for fishhooks. 2,780,886, 2-12-57, Cl. 43-44.83.
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- Rachman, Isadore B., and S. Bobb, to P. B. R. Mfg. Co. Locking hinge. 2,803,033, 8-20-57, Cl. 16-144.
- Rachner, Udo H. Sine square. 2,813,346, 11-19-57, Cl. 33-174.
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- Radase, Albert. Combined sharpening, sanding and honing machine. 2,780,897, 2-12-57, Cl. 51-141.
- Radatz, Minnie R., 1/2 to A. Stadler. Cylinder pin for revolvers. 2,798,329, 7-9-57, Cl. 42-59.
- Radcliffe, Charles C. Bar latch for doors. 2,801,871, 8-6-57, Cl. 292-267.
- Radd, Frederick J., to Continental Oil Co. Check valve. 2,790,460, 4-30-57, Cl. 137-533.15.
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- Rademakers, Adrian, and E. J. Haes, to North American Philips Co., Inc. Magnetic electron lens. 2,799,813, 7-16-57, Cl. 317-200.
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- Ramey, Robert A., Jr. Magnetic amplifier control circuit. 2,783,315, 2-26-57, Cl. 179-171.
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- Ramsay, John F., and E. M. Wells, to Marconi's Wireless Telegraph Co. Ltd. Hybrid arrangements for use on micro radio waves. 2,738,440, 4-9-57, Cl. 250-6.
- Ramsay, Joseph D. Hydraulic pump or motor. 2,805,548, 9-10-57, Cl. 60-53.
- Ramsay, Thomas W., to Morris Motors Ltd. Window mountings for motor vehicles. 2,794,218, 6-4-57, Cl. 20-56.4.
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- Ramsden, Hugh E., E. L. Weinberg, and L. A. Tomka, to Metal & Thermit Corp. Rubber stabilized with hydrocarbon tin mercaptides. 2,789,104, 4-16-57, Cl. 260-45.75.
- Ramsden, Hugh E., and C. K. Banks, to Metal & Thermit Corp. Polyhydric alcohol-organotin derivatives. 2,789,994, 4-23-57, Cl. 260-429.7.
- Ramsden, Hugh E., E. L. Weinberg, and L. A. Tomka, to Metal & Thermit Corp. Rubber stabilized with hydrocarbon tin mercapto alcohol esters. 2,790,785, 4-30-57, Cl. 260-45.75.
- Ramseier, Otto, and A. Meylan, to Fabrique d'Ebauches Venus S. A. Alarm watch. 2,803,940, 8-27-57, Cl. 58-57.5.
- Ramset Fasteners, Inc.: *See*—
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- Kopf, Rowland J., and Marsh. 2,799,108.
- Ramsey, Arthur C. Liquid dispensing machine. 2,778,534, 1-22-57, Cl. 222-129.4.
- Ramsey, Arthur C. Egg opening device. 2,802,686, 8-13-57, Cl. 294-1.
- Ramsey, Austin L.: *See*—
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- Ramsey, Austin L., A. C. McColl, and T. W. Westbrook, to The Wheland Co. Apparatus for trimming lumber and control means therefor. 2,803,273, 8-20-57, Cl. 143-37.
- Ramsey Corp.: *See*—
Marien, Melvin W. 2,817,563.
- Marien, Melvin W. 2,817,564.
- Ramsey, D. Paul, to General Motors Corp. Guide pilot for an automobile hood. 2,815,822, 12-10-57, Cl. 180-69.
- Ramsey, Robert P., and W. A. Morain, to The Cooper-Bessemer Corp. Starting system for free piston engines. 2,815,641, 12-10-57, Cl. 60-14.
- Ramun, Michael, and D. Marian. Spring suspension for load-bearing road vehicles. 2,788,224, 4-9-57, Cl. 280-124.
- Ranby, Peter W., to Thorn Electrical Industries Ltd. Luminescent materials. 2,785,137, 3-12-57, Cl. 252-301.4.
- Ranchers Cotton Oil: *See*—
Cavanagh, George C. 2,789,120.
- Ranco Inc.: *See*—
Kumler, Joseph E. 2,815,416.
- Liebermann, John. 2,792,465.
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- Raney, Estel C. 2,792,466.
- Raney, Estel C. 2,801,798.
- Rancourt, Alphonse. Elevator mechanism. Re. 24,286, 3-12-57, Cl. 187-29.
- Rand, Arthur I., and G. A. Kidder, to The Firestone Tire & Rubber Co. Method of making high grade rubber. 2,802,893, 8-13-57, Cl. 260-819.
- Rand, Arthur V.: *See*—
Roll, William G., and Rand. 2,786,928.
- Rand, Arthur V., and W. G. Roll, to Illinois McGraw Electric Co. Electric cooking appliance. 2,780,707, 2-5-57, Cl. 219-19.
- Rand, Arthur V., and W. G. Roll, to Illinois McGraw Electric Co. Electric cooking appliance. 2,784,663, 3-12-57, Cl. 99-376.
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Mantzel, Albrecht-Wolf. 2,798,525.
- Rand, James H., to Sperry Rand Corp. Information recording apparatus. 2,788,879, 4-16-57, Cl. 197-1.
- Rand, Kenneth R., to American Machine & Foundry Co. Automatic bread plant. 2,780,182, 2-5-57, Cl. 107-4.
- Rand, Paul. Collapsible lamps. 2,792,491, 5-14-57, Cl. 240-4.
- Randall, Clifton O., L. D. Zepernick, and K. W. McLoad, to Vector Mfg. Co. Geophone clip. 2,793,355, 5-21-57, Cl. 339-200.
- Randall, David I.: *See*—
Buc, Saul R., Randall, Smith, and Jackson. 2,783,244.
- Martin, Tellis A., and Randall. 2,795,583.
- Martin, Tellis A., and Randall. 2,795,584.
- Schmidt-Nickels, Wilhelm, and Randall. 2,813,875.
- Schmidt-Nickels, Wilhelm, and Randall. 2,817,667.
- Randall, David I., and T. A. Martin, to General Aniline & Film Corp. Process of preparing nitro-N-alkylsulfonanilides. 2,794,834, 6-4-57, Cl. 260-556.
- Randall, Grant M.: *See*—
Marsh, James A., Randall, and Zemke. 2,784,403.
- Randall, Harold M.: *See*—
Vog, Norman E., and Randall. 2,791,210.
- Randall, John V.: *See*—
Randall, Merwyn C., and Gethen. 2,815,293.
- Randall, John W., to John Dickinson & Co. Ltd. Method of manufacturing tubular bags, envelopes, and like containers with folded bottoms. 2,780,969, 2-12-57, Cl. 93-35.
- Randall, John W., to John Dickinson & Co. Ltd. Manufacture of envelopes. 2,796,008, 6-18-57, Cl. 93-62.
- Randall, Kenneth B.: *See*—
Welch, Douglas F., Bell, and Randall. 2,775,865.
- Randall, Kenneth B., to The British Thomson-Houston Co. Ltd. Starters for prime movers such as gas turbines. 2,775,866, 1-1-57, Cl. 60-39.14.
- Randall, Mary I.: *See*—
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- Randall, Merwyn C., deceased (J. V. Randall, executor), and G. S. Gethen, deceased (E. G. Gethen, executrix), to M. I. Randall and E. G. Gethen. Insulating finishing cement and structural material. 2,815,293, 12-3-57, Cl. 106-97.
- Randall, Philip H., to United Shoe Machinery Corp. Shoe sewing machines. 2,779,299, 1-29-57, Cl. 112-52.
- Randall, Ross D.: *See*—
Collins, Arthur R., Ryder, and Randall. 2,811,166.
- Randebrock, Rudolf: *See*—
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- Randels, Robert B., P. L. Orr, and J. L. Sheldon, to Corning Glass Works. Picture-tube processing. 2,787,101, 4-2-57, Cl. 53-9.
- Randles, Guy S., and W. D. Reynolds. Chatterless counter-sink and deburring tool. 2,804,789, 9-3-57, Cl. 77-73.5.
- Rando, James J. Combination vehicle jack and parking device. 2,784,793, 3-12-57, Cl. 180-1.
- Randol, Glenn T. Hydraulic valve tappet. 2,803,232, 8-20-57, Cl. 123-90.
- Randolph, Andrew S. F. Stud driver and remover. 2,798,392, 7-9-57, Cl. 81-53.
- Randolph, Chalmers H. Electro-magnetically operated pump. 2,809,589, 10-15-57, Cl. 103-53.
- Randolph, Harry B., and A. Mathisen, 1/2 to Gravinier Mfg. Co. Ltd., and 1/2 to The Wilkinson Sword Co. Ltd. Device for protecting a fuel tank against explosion. 2,798,562, 7-9-57, Cl. 169-4.
- Randolph, Henry G. Neck protector. 2,778,024, 1-22-57, Cl. 2-50.
- Randolph, Oliver W., to A. T. Ferrell & Co. Dehydration. 2,803,545, 8-20-57, Cl. 99-8.
- Randolph, Ray A.: *See*—
Braunlich, Richard H., Ghenn, Messmer, and Randolph. 2,803,851.
- Randrup, Ben. Rotary cleaning device. 2,801,432, 8-6-57, Cl. 15-104.01.
- Rands, William E., and L. E. Collins. Safety cut-off for out-board motor. 2,816,186, 12-10-57, Cl. 200-52.
- Raney, Ben B., to Chicago Development Corp. of Delaware. Method for producing titanium and zirconium. 2,783,196, 2-26-57, Cl. 204-64.
- Raney, Ben B., to Chicago Development Corp. Production of titanium. 2,786,808, 3-26-57, Cl. 204-10.
- Raney, Estel C., to Ranco Inc. Control apparatus. 2,792,466, 5-14-57, Cl. 200-67.
- Raney, Estel C., to Ranco Inc. Mixing valve. 2,801,798, 8-6-57, Cl. 236-12.
- Raney, Russell R., W. F. Collins, and W. F. Schmied, to International Harvester Co. Flexible frame construction for vehicle running gear. 2,801,863, 8-6-57, Cl. 280-106.
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- Ranger, Hubert O., to General Aniline & Film Corp. Process of inhibiting the discoloration of photographic color images. 2,788,274, 4-9-57, Cl. 96-56.
- Ranger, Richard H. Synchronized magnetic sound recording apparatus. 2,803,988, 8-27-57, Cl. 88-16.2.
- Rankin, Alexander B. C.: *See*—
Halliday, William, Jefferys, and Rankin. 2,784,325.
- Rankin, Andrew W., to General Electric Co. Multiple finger dovetail attachment for turbine bucket. 2,790,620, 4-30-57, Cl. 253-77.

- Rankin, John B., to Radio Corp. of America. Center-fed wave-guide antenna. 2,818,566, 12-31-57, Cl. 343-905.
- Ranney, Rufus P.: *See*—
- Guérard, Albert S., Jr., Ranney, Reese, and MacDonald. 2,793,659.
- Guérard, Albert S., Jr., Ranney, Reese, and MacDonald. 2,812,919.
- Rannikko, William. Diamond-shaped roofing shingle of heavy sheet material. 2,808,010, 10-1-57, Cl. 108-7.
- Ransburg, Edwin M.: *See*—
- Starkey, William A., and Ransburg. 2,794,417.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Electrostatic coating apparatus and method. 2,785,088, 3-12-57, Cl. 117-93.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Electrostatic gas-treating apparatus. 2,788,081, 4-9-57, Cl. 183-7.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Atomizing apparatus. 2,803,496, 8-20-57, Cl. 299-1.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Method and apparatus for electrostatically coating articles. 2,809,902, 10-15-57, Cl. 117-93.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Method and apparatus for dip-coating article. 2,812,269, 11-5-57, Cl. 117-47.
- Ransburg Electro-Coating Corp.: *See*—
- Juvinall, Robert C. 2,780,565.
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- Miller, Emery P. 2,777,784.
- Miller, Emery P. 2,781,280.
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- Miller, Emery P. 2,795,516.
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- Miller, Merton R. 2,781,279.
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- Ransburg, Edwin M. 2,785,088.
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- Shepherd, James B. 2,794,416.
- Simmons, Charles C. 2,808,343.
- Smart, William L. 2,799,532.
- Starkey, William A., and Ransburg. 2,794,417.
- Ranseen, Agnes J.: *See*—
- Ranseen, Emil L. 2,797,346.
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- Ransley, Charles E., to The British Aluminium Co. Ltd. Aluminum-magnesium alloys and method of producing same. 2,789,050, 4-16-57, Cl. 75-147.
- Ransohoff, N., Inc.: *See*—
- Ransohoff, Nathan. 2,815,716.
- Ransohoff, Nathan, to N. Ransohoff, Inc. Grit pump for wet grit blasting machines. 2,815,716, 12-10-57, Cl. 103-104.
- Ransom, David H., and F. Benjamin, to Reconstruction Finance Corp. Parallel operation of motor-generator set. 2,782,323, 2-19-57, Cl. 307-57.
- Ransom, Edward B. Natural orange concentrate and orange-milk drink. 2,818,342, 12-31-57, Cl. 99-105.
- Ransom, George P.: *See*—
- Pierce, Earl R., and Ransom. 2,797,675.
- Ransom, George P., to General Motors Corp. Self-actuating clutch mechanism. 2,810,462, 10-22-57, Cl. 192-36.
- Ranson, William W., to E. I. du Pont de Nemours and Co. Coloring composition for hectograph inks. 2,810,653, 10-22-57, Cl. 106-22.
- Ranta, Esko E. Package closing machine. 2,810,996, 10-29-57, Cl. 53-71.
- Räntsch, Kurt, to C. Zeiss. Prism system for beam splitting. 2,787,187, 4-2-57, Cl. 88-1.
- Rao, Gadicherla V. R., to General Electric Co. Device for thrust spooling and thrust reversal. 2,791,088, 5-7-57, Cl. 60-35.54.
- Rapaport, Harold: *See*—
- Hampton, J. Dailey, and Rapaport. 2,813,216.
- Rapata, George M., to Illinois Tool Works. Driven plastic sealing fastener having shoulder means thereon. 2,780,128, 2-5-57, Cl. 85-5.
- Rapata, George M., to Illinois Tool Works. Plastic nut having workpiece engaging means. 2,788,047, 4-9-57, Cl. 151-41.75.
- Raphael, Orin M.: *See*—
- Karlby, Henning, and Lessen. 2,784,551.
- Raphael, Thomas, and R. W. Schweizer, to W. R. Grace Co. Plate separator for storage batteries. 2,810,775, 10-22-57, Cl. 136-145.
- Rapid Electrottype Co., The: *See*—
- Mueller, Louis E. 2,780,287.
- Rapids-Standard Co., Inc., The: *See*—
- De Graaf, Maurice, and Falcon. 2,786,578.
- Koepnick, Paul J., and Woldring. 2,813,604.
- Rapin, Theodore W. Water drip and weather strip. 2,786,244, 3-26-57, Cl. 20-67.
- Rapinwax Paper Co.: *See*—
- Lithio, Clarence N. 2,790,480.
- Rapisarda, Alexander F., to Ward Leonard Electric Co. Rheostat. 2,804,528, 8-27-57, Cl. 201-48.
- Rapke, John T., to Western Electric Co., Inc. Cable reel lagging machine. 2,793,663, 5-28-57, Cl. 144-25.
- Rapley, Harold H., to Cutler-Hammer Inc. Newspaper conveyors. 2,805,757, 9-10-57, Cl. 198-35.
- Rapoport, Henry, and S. Masamune, to The Regents of the University of California. 10-hydroxyalkaloids and method of making. 2,783,233, 2-26-57, Cl. 260-285.
- Rapp, Earl J., to Lynch Corp. Ice cream sandwich machine. 2,794,404, 6-4-57, Cl. 107-1.
- Rapp, George: *See*—
- Schweitzer, Pierre, and Rapp. 2,782,527.
- Rapp, Georges, to Society Sirelec. Amplifier for direct currents or for very low frequency currents. 2,807,678, 9-24-57, Cl. 179-171.
- Rapp, Gustav W. Novel pyran compounds. 2,791,590, 5-7-57, Cl. 260-343.5.
- Rapp, Janet L. C.: *See*—
- Anderson, Philip C., and Rapp. 2,808,332.
- Rapp, John L., and G. W. Bristow, to Nordberg Mfg. Co. Screen cleaning structure. 2,802,570, 8-13-57, Cl. 209-390.
- Rapp, Theodore F., and R. J. Demartini, to F. C. Huyck & Sons. Picking mechanism for looms. 2,787,290, 4-2-57, Cl. 139-142.
- Rappaport, George, to General Motors Corp. Method of bonding a fluorinated synthetic resin to another material. 2,809,130, 10-8-57, Cl. 117-138.8.
- Rappaport, Paul, to Radio Corp. of America. Secondary electron emitter and process of preparing same. 2,784,123, 3-5-57, Cl. 148-6.3.
- Rappe, Walter, H., Pasedach, E. Dreher, and A. Amann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Nitrogen containing carbinols. 2,782,191, 2-19-57, Cl. 260-239.
- Rappen, Friedrich: *See*—
- Kolling, Helmut, and Rappen. 2,795,596.
- Rappeport, Lester W. Toy bank and money adding aid. 2,808,199, 10-1-57, Cl. 232-5.
- Rappl, Anton: *See*—
- Scinta, Anthony C., and Rappl. 2,780,824.
- Rapplevea, Frederick A., and G. E. Morgan, Jr., to John T. Riddell, Inc. Tubular face guard. 2,785,406, 3-19-57, Cl. 2-9.
- Rapplevea, George W. Synthetic bitumen compositions. 2,780,607, 2-5-57, Cl. 260-9.
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- Rapport, Arthur, to L. Ratner. Method of preserving egg material. 2,786,770, 3-26-57, Cl. 99-196.
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- Ras, Martinus D. C. Deep-sea fishing devices. 2,795,883, 6-18-57, Cl. 43-8.
- Rasbach, Melvin J. Portable knock-down gun rack. 2,797,033, 6-25-57, Cl. 224-1.
- Rasch, Albert. Replacement for faucet valves. 2,783,773, 3-5-57, Cl. 137-454.6.
- Rasch, Arthur A.: *See*—
- Baxendale, Ralph W., Rasch, and Crabtree. 2,816,026.
- Raschig, Dr. F., G. m. b. H.: *See*—
- Mathes, Wilhelm, and Sauermilch. 2,798,071.
- Rasemont, Pierre, to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva. Process for manufacturing electrodes for gaseous electric discharge apparatus. 2,798,828, 7-9-57, Cl. 148-6.
- Rasero, Lawrence J.: *See*—
- Walters, Gustav, Rasero, and Brownlow. 2,801,456.
- Rashevsky, Michael, to Westinghouse Electric Corp. Locking-keys for turbine-generator retaining rings. 2,792,513, 5-14-57, Cl. 310-270.
- Rashid, George. Automatic vehicle control system. 2,804,160, 8-27-57, Cl. 180-82.1.
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- Raske, Arthur. Abrading wheel. 2,817,932, 12-31-57, Cl. 51-191.
- Raskin, Seymour H. Direction-changing device for conveyor. 2,798,590, 7-9-57, Cl. 198-184.
- Rasky, David. Method of packaging and freezing shelled eggs. 2,813,800, 11-19-57, Cl. 99-196.
- Rasky, Edward A. Motor driven repeat mechanism for piano. 2,779,226, 1-29-57, Cl. 84-239.
- Rasmussen, Alfred E. Underground and above ground animal housing. 2,795,208, 6-11-57, Cl. 119-15.
- Rasmussen, Arne P.: *See*—
- Place, Mark I., and Rasmussen. 2,801,618.
- Rasmussen, Calvin L., to Rodney Hunt Machine Co. Treatment of lecithin. 2,812,019, 11-5-57, Cl. 159-49.
- Rasmussen, Chris M. Lifters for pots and pans. 2,808,284, 10-1-57, Cl. 294-28.
- Rasmussen, Clarence T., W. R. Frank, and E. H. Douglas, to John Deere Killefer Co. Hinged offset disk harrow. 2,795,911, 6-18-57, Cl. 55-81.
- Rasmussen, Harold F. Ear corn pickup equipment for corn harvesters. 2,797,543, 7-2-57, Cl. 56-15.
- Rasmussen, Peter A.: *See*—
- Schober, Wayne E. 2,792,230.
- Rasmussen, Peter D., to Invention Development Corp. Insulating structure. 2,780,090, 2-5-57, Cl. 72-17.
- Rasmussen, Robert T. C. Electric smelting process for manganese ores. 2,799,574, 7-16-57, Cl. 75-10.

- Rasmussen, Sherrill K.: *See*—
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- Rasmussen, Svein B., to Beckman Instruments, Inc. Potentiometer and contact therefor. 2,798,137, 7-2-57, Cl. 201-48.
- Rasmussen, Marlin B. Float valve. 2,804,880, 9-3-57, Cl. 137-422.
- Rassweiler, Gerald M., and E. F. Weller, Jr., to General Motors Corp. Gas analyzer resonator block. 2,775,885, 1-1-57, Cl. 73-24.
- Rataiczak, Francis I., to General Motors Corp. Door biasing device. 2,799,550, 7-16-57, Cl. 312-319.
- Rataiczak, Francis I., and H. C. Pearson, to General Motors Corp. Refrigerating apparatus with overload control. 2,794,323, 6-4-57, Cl. 62-4.
- Ratchewski, Rachel, to Compagnie Francaise des Matieres Colorantes. Coloration of fibres having a polyvinyl derivative base. 2,795,477, 6-11-57, Cl. 8-25.
- Ratcliff, Ralph A. Hoist hook safety gate. 2,796,651, 6-25-57, Cl. 24-241.
- Ratcliffe, Temple W.: *See*—
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 Harter, Isaac, Jr., Ratcliffe, and McClain. 2,804,663.
- Rath, Joseph, to Arvey Corp. Display stand. 2,789,701, 4-23-57, Cl. 211-142.
- Rath, Karl, to Radio Patents Co. Passive responder radio system. 2,812,428, 11-5-57, Cl. 250-6.
- Rath, Stephan. Method of preparing glutamine. 2,788,370, 4-9-57, Cl. 260-534.
- Rath, Stephen. Dimethylaminopropyl-dipyridothiazane. 2,789,978, 4-23-57, Cl. 260-243.
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- Ratje, John D., to Phillips Petroleum Co. Apparatus for separation by crystallization. 2,809,884, 10-15-57, Cl. 23-273.
- Ratkiewicz, Albert W., and J. M. Budzyna, to Draper Corp. Filling feeder for looms. 2,808,077, 10-1-57, Cl. 139-273.
- Ratliff, Lawrence S. Trailer for heavy machinery. 2,794,565, 6-4-57, Cl. 214-394.
- Ratliff, William T. Cam. 2,816,532, 12-17-57, Cl. 123-90.
- Ratner, Lee: *See*—
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- Ratte, Heinrich: *See*—
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- Ratte, Heinrich, and J. Geller, to Rutgerswerke-Aktiengesellschaft. Fractional distillation of coal tar. 2,795,538, 6-11-57, Cl. 202-52.
- Ratti, Roger, to Durand & Huguenin A. G. Wetting agents and a process of making same. 2,794,004, 5-28-57, Cl. 252-353.
- Ratz, Rudi F. W.: *See*—
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- Rätz, Rudi F. W., to Olin Mathieson Chemical Corp. Carboxy-amino compounds. 2,817,682, 12-24-57, Cl. 260-534.
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- Rau, David W.: *See*—
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- Rau, David W., to Vickers Inc. Magnetic particle coupling device with nickel-coated iron particles. 2,809,731, 10-15-57, Cl. 192-215.
- Rau, Frank J., to Westinghouse Electric Corp. Voltage equalizer for unbalanced loads. 2,808,519, 10-1-57, Cl. 307-14.
- Rau, Harry A.: *See*—
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- Rau, Howard J., 49% to J. F. Mitchell. Fish net having detachable ring. 2,783,573, 3-5-57, Cl. 43-11.
- Rau, Wolfgang: *See*—
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- Raub, Samuel H. S.: *See*—
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- Rauch, Walter: *See*—
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- Rauland Corp., The: *See*—
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 Reed, William O. 2,785,220.
- Raumaker, Paul H.: *See*—
 Stout, William H., and Raumaker. 2,775,979.
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- Rauma-Rekola Oy: *See*—
 Jalkanen, Matti J. 2,802,572.
- Raupp, Ray J.: *See*—
 Klessig, Ernst F., Graham, and Raupp. 2,817,210.
- Rausch, Clifford E.: *See*—
 Reynolds, Kenneth W., Billson, and Rausch. 2,788,157.
- Rausch, Hans: *See*—
 Wendeborn, Hellmut, Schwartz, Maelzer, and Rausch. 2,797,158.
- Rausch, John J.: *See*—
 Crossley, Frank A., and Rausch. 2,798,807.
- Rausch, John P., to Link-Belt Co. Car shaker. 2,795,343, 6-11-57, Cl. 214-83.3.
- Rausch, Roswell H. Atomizer. 2,786,717, 3-26-57, Cl. 299-88.
- Rausch, Werner: *See*—
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- Rausch, Werner, and A. Mayr, to Parker Rust Poof Co. Composition for and method of forming oxalate coatings on ferrous metal surfaces. 2,791,525, 5-7-57, Cl. 148-6.14.
- Rauschenberger, William F. Section stacker. 2,793,857, 5-28-57, Cl. 271-88.
- Raut, Earle J.: *See*—
 Lippert, Ralph E., and Raut. 2,779,453.
- Rauth, Adolph W. Handling equipment for electric meters. 2,804,964, 9-3-57, Cl. 198-33.
- Rauth, John H., to Bendix Aviation Corp. Indicating apparatus and means for mounting dials therein. 2,794,412, 6-4-57, Cl. 116-129.
- Rauth, William R., Jr., to Sperry Rand Corp. Three-phase magnetic amplifier. 2,779,910, 1-29-57, Cl. 323-89.
- Rayburn, Alden G., to V. M. Carter. Standard chassis lock hardware for passage set and privacy lock. 2,795,948, 6-18-57, Cl. 70-146.
- Raye, Jean. Fastening device for bands, straps and the like. 2,807,852, 10-1-57, Cl. 24-197.
- Raver, Louis J., to General Motors Corp. Battery charging circuit. 2,817,830, 12-24-57, Cl. 340-249.
- Raverty, Donald E. and R. J. Soap measuring dispenser. 2,778,532, 1-22-57, Cl. 222-89.
- Raverty, Richard J.: *See*—
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- Ravich, Leonard E.: *See*—
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- Ravnsbeck, Fred. Safety pilot detector. 2,795,270, 6-11-57, Cl. 158-123.
- Rawden, Cecil E.: *See*—
 Pittman, Raymond A., and Rawden. 2,779,208.
- Rawden, Cecil E., and R. A. Pittman, to Ford Motor Co. Vehicle door latch. 2,797,115, 6-25-57, Cl. 292-11.
- Rawdon, Albert H., Jr., to Riley Stoker Corp. Draft apparatus. 2,799,482, 7-16-57, Cl. 257-244.
- Rawitzer, Walter L., H. J. Stern, and L. E. Shadbolt, to Dental Fillings Ltd. Polymerisation of acrylic esters with peroxide catalyst copper compound and a mercaptide. 2,798,060, 7-2-57, Cl. 260-45.5.
- Rawlings, Frank N.: *See*—
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- Rawlings, Frank N. Emulsification of fats for animal feeds. 2,793,952, 5-28-57, Cl. 99-6.
- Rawlings, Frank N., J. H. Grantham, and C. C. Miller, to The Amalgamated Sugar Co. Converting sugar and other granules. 2,809,903, 10-15-57, Cl. 127-22.
- Rawlings, William H. Extensible house trailer. 2,801,878, 8-6-57, Cl. 296-23.
- Rawlins, Albert L.: *See*—
 Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb. Re. 2,4265.
- Rawls, Vaughn, and R. W. La Warre: said La Warre, 1/4 to said Rawls; said Rawls, 63% to W. O. Lones; and said La Warre, 31% to said Lones. Apparatus for automatically buffing pneumatic tire casings. 2,788,851, 4-16-57, Cl. 164-10.2.
- Rawson, Alexander. Built-in radio refrigerator doors. 2,795,639, 6-11-57, Cl. 174-52.
- Rawson, Ralph L.: *See*—
 Allyn, Charles L., Barrentine, Hodgins, Shelton, and Rawson. 2,812,309.
- Ray, Alice M. Latigo cinch buckle. 2,804,742, 9-3-57, Cl. 54-46.
- Ray, Frederick. Fountain pen of the ball point type. 2,775,956, 1-1-57, Cl. 120-42.4.
- Ray, Gardner C., to Phillips Petroleum Co. Selective solvent for the separation of phosphorus halide and hydrocarbons. 2,801,957, 8-6-57, Cl. 202-39.5.
- Ray, Henry M. Life saver tackle box. 2,811,276, 10-29-57, Cl. 220-10.
- Ray, John G.: *See*—
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- Ray, John G., and C. M. Grayson, to Sylvania Electrical Products Inc. Mercury switching device. 2,799,753, 7-16-57, Cl. 200-152.
- Ray, Kenneth A.: *See*—
 Lee, Lyman S., and Ray. 2,797,783.
 Pike, Robert D. 2,798,790.
- Ray, Kenneth B.: *See*—
 Pike, Robert D. 2,780,520.
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- Ray, Leon H.: *See*—
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- Ray, Richard M. Mask. 2,795,796, 6-18-57, Cl. 2-206.
- Ray, William A.: *See*—
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- Ray, William A., to General Controls Co. Fluid control valve. Re. 2,4321, 5-28-57, Cl. 251-130.
- Ray, William A., to General Controls Co. Control system using cam and solenoid operated switch. 2,788,482, 4-9-57, Cl. 313-466.

- Ray, William A., to General Controls Co. Load operating device with automatic disconnecting mechanism. 2,791,920, 5-14-57, Cl. 74—751.
- Ray, William A., to General Controls Co. Thermostatic control system. 2,798,764, 7-9-57, Cl. 297—8.
- Ray, William A., to General Controls Co. Bi-metal control. 2,803,495, 8-20-57, Cl. 297—12.
- Ray, William A., to General Controls Co. Fluid control valve. 2,807,689, 9-24-57, Cl. 200—116.
- Ray, William A., to General Controls Co. Valve structure. 2,809,662, 10-15-57, Cl. 137—614.17.
- Ray, William A., to General Controls Co. Thermocouple structure. 2,810,005, 10-15-57, Cl. 136—4.
- Ray, William A., and W. C. Buescher, to General Controls Co. Thermostat. 2,813,426, 11-19-57, Cl. 73—363.5.
- Raybestos-Manhattan, Inc.: *See—*
- Adams, James, Jr. 2,801,452.
 - Adams, James, Jr. 2,814,846.
 - Cofek, Henry J. 2,790,206.
 - Cofek, Henry J. 2,811,750.
 - Kozmick, Joseph N., and Bell. 2,780,534.
 - Novak, Izador J. 2,778,763.
- Rayburn, Charles C., and J. G. Black, Jr., to the United States of America as represented by the Secretary of the Navy. Vibratory orienting feeder. 2,807,350, 9-24-57, Cl. 198—33.
- Rayburn Machine Corp.: *See—*
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- Rayburn, Vincent A., to Western Electric Co., Inc. Material handling apparatus. 2,801,057, 7-30-57, Cl. 242—67.3.
- Rayer, Richard J., to The Pyle-National Co. Explosion proof motor starter or circuit breaker enclosure. 2,814,701, 11-26-57, Cl. 200—168.
- Rayline, Inc.: *See—*
- Barnaby, Roland E. 2,209,748.
- Rayman, Douglas E.: *See—*
- Mann, Kingsley M., Drake, and Rayman. 2,794,816.
- Raymar Co., The: *See—*
- Koree, Jean U. 2,809,904.
- Raymond, Charles A. Method of making soy bean product. 2,795,502, 6-11-57, Cl. 99—98.
- Raymond Concrete Pile Co.: *See—*
- Hazak, John T., and Kinneman. 2,798,363.
 - Smith, Herman R. 2,791,097.
- Raymond Corp.: *See—*
- Gibson, Christian D. 2,792,079.
- Raymond, David L., and R. J. Brown, to Hupp Corp. Retort burner and blowtorch incorporating the same. 2,804,918, 9-3-57, Cl. 158—83.
- Raymond, Francois H., to Societe D'Electronique et D'Automatisme. Electromagnetic relays. 2,799,746, 7-16-57, Cl. 200—87.
- Raymond, Francois H., and B. A. Sokoloff, to Societe d'Electronique et d'Automatisme. Improvements in closed loop transmission systems. 2,805,823, 9-10-57, Cl. 235—61.
- Raymond, Francois H., and R. R. Dussine, to Societe d'Electronique et d'Automatisme. Electric adder-subtractor devices. 2,808,205, 10-1-57, Cl. 235—61.
- Raymond, Jerry W. Attachment for fishhooks. 2,782,551, 2-26-57, Cl. 43—44.82.
- Raymond, Lambert L. Ornamental nut cup. 2,786,620, 3-26-57, Cl. 229—1.5.
- Raymond, Louis C., to Ford, Bacon & Davis, Inc. Cavern storage for natural gas. 2,810,263, 10-22-57, Cl. 61—5.
- Raymond, Norton G.: *See—*
- Monroe, Charles, and Raymond. 2,798,582.
- Raymond, Paul L., to National Research Corp. Method of producing an adherent molybdenum coating on a metal substrate. 2,815,299, 12-3-57, Cl. 117—107.
- Raymond, Richard H.: *See—*
- Turner, William J., Jr., and Raymond. 2,793,527.
- Raymond, Thomas E., 90% to Simplex Engineering Co., 5% to P. Fultz, and 5% to W. H. F. Schmieding. Fluid pump. 2,786,424, 3-26-57, Cl. 103—174.
- Rayner, Stanley H. Baking apparatus. 2,809,598, 10-15-57, Cl. 107—57.
- Raynes, Bertram C., to Horizons Titanium Corp. Purification of fused salt electrolytes. 2,782,136, 2-19-57, Cl. 204—64.
- Raynes, Bertram C., to Horizons Titanium Corp. Electrolytic cladding. 2,786,809, 3-26-57, Cl. 204—39.
- Raynes, Bertram C., and E. L. Theilmann, to Horizons Titanium Corp. Control of corrosion in reaction vessels. 2,783,195, 2-26-57, Cl. 204—64.
- Raynes, Bertram C., M. E. Sibert, and J. T. Burwell, Jr., to Horizons Titanium Corp. Porous anode. 2,813,069, 11-12-57, Cl. 204—64.
- Rayniak, Joseph G., to Outboard Marine Corp. Choke and grounding switch control for engine with magento ignition. 2,791,207, 5-7-57, Cl. 123—99.
- Raynor, Arthur E.: *See—*
- Chan, Charles R., and Raynor. 2,800,115.
 - Koch, Paul H., and Raynor. 2,811,955.
- Raynor, Arthur E., and W. H. Rowand, to The Babcock & Wilcox Co. Steam generating and superheating unit with recycled gas flow. 2,800,116, 7-23-57, Cl. 122—240.
- Raynor, Charlie J., to Planters Cotton Oil & Fertilizer Co. Sacked material conditioning machine, including opposed vibrating conveyor belts. 2,815,177, 12-3-57, Cl. 241—200.
- Raynor, Edward A. Bulk bin discharge means. 2,776,078, 1-1-57, Cl. 222—413.
- Raynor, Forrest G., to The Babcock & Wilcox Co. Plural drum vapor generator with differential separation for high duty and low duty generating tubes. 2,811,144, 10-29-57, Cl. 122—488.
- Raynsford, Charles K., to Vitro corp. of America. Information processing apparatus. 2,795,695, 6-11-57, Cl. 250—27.
- Raynsford, Nancy S.: *See—*
- Cosby, John N., Eberts, and Raynsford. 2,808,429.
- Ray-O-Lite Corp., of America: *See—*
- Bobo, Walton E., and Hudson. 2,803,276.
- Rayonier Inc.: *See—*
- Gray, Kenneth R., and Crosby. 2,782,241.
 - Gray, Kenneth R., and Crosby. 2,801,994.
 - Mitchell, Reid L. 2,805,169.
 - Mitchell, Reid L., and Schlosser. 2,811,518.
 - Schlosser, Paul H., Mitchell, and Gray. 2,814,569.
 - Thomas, Berwyn B., Gray, and Schlosser. 2,790,795.
- Ray-O-Vac Co.: *See—*
- Anthony, Herman R. C., and Torgerson. 2,802,042.
 - Boyer, Charles J. 2,816,290.
 - Herbert, William S., and Oakley. 2,803,691.
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- Raytheon Mfg. Co.: *See—*
- Amsden, Chester C., and Lehr. 2,811,670.
 - Anderson, Carl L. 2,798,781.
 - Anzaldi, Salvatore. 2,803,595.
 - Argento, Henry F. 2,814,298.
 - Beveridge, Harold N. 2,817,762.
 - Beveridge, Harold N., and Dunham. 2,814,760.
 - Bigelow, John E. 2,790,108.
 - Blackmer, David E. 2,814,715.
 - Blackmer, David E. 2,816,209.
 - Blass, Judd. 2,814,708.
 - Brown, William C. 2,801,368.
 - Brown, William C. 2,805,361.
 - Brown, William C., and Dench. 2,802,141.
 - Calosi, Carlo L. 2,792,829.
 - Cobbett, Leonard C. 2,786,986.
 - Corey, Frank J. 2,806,080.
 - Cronin, Leo J. 2,795,033.
 - Dairiki, Setsuo, and Michelson. 2,801,390.
 - Davis, Luther, Jr. 2,789,557.
 - Dench, Edward C. 2,795,760.
 - Dench, Edward C. 2,804,725.
 - Dench, Edward C. 2,809,328.
 - DeTurk, John E. 2,804,605.
 - Dieterich, Ernest J. 2,799,845.
 - Dunham, Richard M., and Mofenson. 2,815,447.
 - Duran, Patrick J. 2,813,377.
 - Eisan, James R. 2,794,934.
 - Freedman, George, and Berberian. 2,814,574.
 - Fryklund, Robert A. 2,801,148.
 - Fryklund, Robert A. 2,806,216.
 - Fryklund, Robert A. 2,814,548.
 - Gardner, Bernard C. 2,782,334.
 - Gardner, Bernard C. 2,794,931.
 - Geier, Leonard W. 2,814,754.
 - Goldstein, Irving. 2,796,586.
 - Gowell, Niles P. 2,789,243.
 - Gross, Fritz A., Hall, and Hart. 2,795,780.
 - Gross, Herbert G. 2,791,522.
 - Gross, Thomas A. O. 2,789,233.
 - Guterman, Sadia S. 2,778,006.
 - Haagensen, Duane B. 2,785,380.
 - Haagensen, Duane B. 2,790,054.
 - Haagensen, Duane B. 2,811,624.
 - Haagensen, Duane B. 2,817,739.
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 - Harvey, Winston S., and Eisler. 2,802,977.
 - Hergenrother, Rudolf C. 2,791,626.
 - Hinckley, Robert H., and Borgeson. 2,790,077.
 - Holland, Donald O. 2,792,517.
 - House, Robert E. 2,817,820.
 - Jackson, Samuel R., and Margolin. 2,817,750.
 - Kennedy, David P. 2,811,591.
 - Kline, Jack. 2,805,362.
 - Kline, Jack, and Lehr. 2,817,790.
 - MacDowell, Kenneth M. 2,802,898.
 - Morrill, Austin L., and Kelly. 2,806,628.
 - Nichols, Nathaniel B., and Fisher. 2,814,167.
 - Riblet, Henry J. 2,814,784.
 - Rich, Stanley R. 2,786,193.
 - Rich, Stanley R. 2,806,946.
 - Richmond, Martin R. 2,801,049.
 - Segerstrom, Carl A. 2,799,727.
 - Segerstrom, Carl A., and Werner. 2,816,959.
 - Shelton, Earl J., Jr., and Phillips. 2,815,465.
 - Smith, Charles G. 2,789,258.
 - Smith, Charles G. 2,815,303.
 - Smith, Robert V. 2,813,185.
 - Spencer, Percy L. 2,784,345.
 - Spencer, Percy L. 2,801,367.
 - Soragne, Robert M. 2,789,211.
 - Topol, Sidney. 2,816,285.
 - Waldstein, Albert E. 2,815,667.
 - West, Charles F., De Turk, and MacNeill. 2,782,398.
 - West, Charles F., Smith, and Dean. 2,802,101.
- Razdow, Adolph. Device for a non-destructive dimensional inspection of mechanical parts. 2,795,995, 6-18-57, Cl. 88—24.

- Razdow, Adolph. Coated metal tubular seal. 2,814,517, 11-26-57, Cl. 288-20.
- Razlag, Emil W., to Continental Radiant Glass Heating Corp. Electrical connectors. 2,787,693, 4-2-57, Cl. 219-19.
- Rea, Agostino. Timber hoist. 2,784,941, 3-12-57, Cl. 254-145.
- Rea, Stanley E., and K. L. Williamson, to Boeing Airplane Co. Expansion fastener with sealing liner. 2,787,185, 4-2-57, Cl. 85-40.
- Rea, William F., to L. O. F. Glass Fibers Co. Tube drive twister. 2,787,113, 4-2-57, Cl. 57-90.
- Rea, Wilton T.: See—
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- Reaction Motors, Inc.: See—
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- Read, Bruce, to Sanders Associates, Inc. Microwave modulator. 2,802,183, 8-6-57, Cl. 332-44.
- Read, Chester L., to Esso Research and Engineering Co. Integrated process for manufacture of gasoline and lubricating oils. 2,800,433, 7-23-57, Cl. 196-52.
- Read, Claude D. Automobile traction attachment. 2,816,801, 12-17-57, Cl. 301-47.
- Read, David H., to American-Marietta Co. Method of producing proteinaceous adhesives and the product thereof. 2,813,037, 11-12-57, Cl. 106-135.
- Read, Harold L.: See—
Furman, Frank J., Kistner, and Read. 2,785,800.
- Read, John C., and D. R. Smith, to The British Thomson-Houston Co. Ltd. Electric current rectifiers. 2,777,108, 1-8-57, Cl. 321-48.
- Read, Leland B., to ACF Industries, Inc. Pressure carburetor. 2,801,835, 8-6-57, Cl. 261-51.
- Read, Leonard H. Refrigerating unit. 2,778,199, 1-22-57, Cl. 62-92.
- Read, Leonard H. Closure stop. 2,797,838, 7-2-57, Cl. 217-60.
- Read, Oliver. Loudspeaker enclosure. 2,805,729, 9-10-57, Cl. 181-31.
- Read, Robert C.: See—
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- Reader, Joseph T., and R. P. Butler. Steam heating system. 2,788,177, 4-9-57, Cl. 237-9.
- Reader, Lawrence J., to Foote Mineral Co. Method of recovering lithium values. 2,803,518, 8-20-57, Cl. 23-32.
- Readey, William B. Containers that keep materials warm. 2,783,357, 2-26-57, Cl. 219-43.
- Reading, Ralph R. Tire buffing apparatus. 2,805,699, 9-10-57, Cl. 154-9.
- Ready, Harold R.: See—
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- Ready, Harold R., to Esso Research and Engineering Co. Process for recovery of complex ester synthetic lubricants from alumina adsorbents. 2,780,644, 2-5-57, Cl. 260-485.
- Ready Hung Door Corp.: See—
Guerrant, Edmunds L. 2,778,121.
- Ready-To-Bake Foods, Inc.: See—
Clinton, Otto M. 2,803,175.
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- Reagan, Leon H., to General Dynamics Corp. Key sender test circuit. 2,797,268, 6-25-57, Cl. 179-175.23.
- Reagan, Leon H., to General Dynamics Corp. Intertoll trunk circuit. 2,813,153, 11-12-57, Cl. 179-27.
- Reagan, Maurice E., and S. D. Silliman, to Westinghouse Electric Corp. Motor control apparatus. 2,802,161, 8-6-57, Cl. 318-170.
- Realistic Latex Products: See—
Hall, William A. 2,791,854.
- Reary, Arthur R.: See—
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- Reaves, John H., to the United States of America as represented by the Secretary of Commerce. Square-wave amplifier circuits. 2,783,314, 2-26-57, Cl. 179-171.
- Reaves, John H., to the United States of America as represented by the Secretary of Commerce. Pulse height analyzer systems. 2,804,606, 8-27-57, Cl. 340-213.
- Reavis, William J.: See—
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- Reavis, William J., and E. Schutte, to S. & E. Mfg. Co. Slip covers. 2,818,106, 12-31-57, Cl. 155-182.
- Rebikoff, Dimitri I., and Y. P. Le Prieur. Breathing apparatus for free divers. 2,818,067, 12-31-57, Cl. 128-142.
- Rebstock, Mildred C.: See—
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- Recchi, Quito G., to The De Laval Separator Co. Washing apparatus for milking installations. 2,794,420, 6-4-57, Cl. 119-14.18.
- Recherches et Techniques Appliquees (Société Anonyme): See—
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- Rechler, Morton D. Lounging chair with adjustable back rest. 2,783,824, 3-5-57, Cl. 155-112.
- Rechnitzer, Buren W., to General Electric Co. High voltage supply. 2,815,479, 12-3-57, Cl. 321-2.
- Reck, Frank, to Bell Telephone Laboratories, Inc. Tool for unwrapping wrapped wire connections. 2,804,887, 9-3-57, Cl. 140-123.
- Reck, Richard A.: See—
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- Recopé de Tilly Blaru, Hubert M. B. Device for priming electric batteries. 2,787,650, 4-2-57, Cl. 136-90.
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- Record Files, Inc.: See—
Regenhardt, Hans W. 2,789,025.
- Records, John K., to General Electric Co. Directional coupler. 2,779,001, 1-22-57, Cl. 333-10.
- Records, Robert B. Tilttable axis attrition mill with hammer and knife rotor. 2,807,424, 9-24-57, Cl. 241-154.
- Records Service Corp.: See—
Mease, Robert O. 2,805,947.
- Rector, John D., E. H. Fritze, and L. P. Kammerer, to Collins Radio Co. A. C. to D. C. converter. 2,777,981, 1-15-57, Cl. 321-8.
- Red Devil Tools: See—
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- Reda Pump Co.: See—
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- Reda-Turner Mfg. Co., Inc.: See—
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- Redard, Leslie J., to Flexi-Versal Corp. Right angle flexible power coupling. 2,811,025, 10-29-57, Cl. 64-20.
- Redcay, Aaron, to Gulf Oil Corp. Process for drying and purifying chlorine gas. 2,785,055, 3-12-57, Cl. 23-219.
- Redcay, Aaron K., to Gulf Oil Corp. Process for the compression of gases. 2,786,626, 3-26-57, Cl. 230-209.
- Redcay, Aaron K., to Gulf Oil Corp. Transportation of sulfur. 2,798,772, 7-9-57, Cl. 302-14.
- Reddeck, Joseph G.: See—
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- Reddi, Mullapudi M., to The Dole Valve Co. Heat motors and overload devices therefor. 2,797,546, 7-2-57, Cl. 60-23.
- Reddick, John A.: See—
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- Redding, Arnold H.: See—
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- Redding, Arnold H., and D. F. Winters, to Westinghouse Electric Corp. Fuel system. 2,812,715, 11-12-57, Cl. 103-5.
- Redding, Carter E. Weather seal for doors, windows and the like. 2,799,904, 7-23-57, Cl. 20-64.
- Reddle, Victor L., to the United States of America as represented by the Secretary of the Army. Quick acting closure. 2,781,148, 2-12-57, Cl. 220-40.
- Redel, Joseph, and J. Maillard, to Chimie et Atomistique. α -(2,4,6-triiodophenoxy) butyric acid and its preparation. 2,796,432, 6-18-57, Cl. 260-521.
- Reder, Leon. Flexible door stop. 2,805,441, 9-10-57, Cl. 16-85.
- Redfern, Donald V., and G. F. Baxter, to American-Marietta Co., Adhesive, Resin and Chemical Division. Production of adhesive from monohydric phenolaldehyde resin and sodium silicate. 2,813,082, 11-12-57, Cl. 260-7.
- Redfern, Peter: See—
Basford, Kenneth A., and Redfern. 2,806,519.
Haworth, Lionel, and Redfern. 2,795,107.
- Redfern, Sutton: See—
Reich, Ismar M., Redfern, Lenney, and Schimmel. 2,801,920.
- Redick, David C.: See—
Julian, Clarence L., and Redick. 2,816,968.
- Redick, David C., to General Motors Corp. Control circuit for engine starting and ignition system. 2,807,729, 9-24-57, Cl. 290-38.
- Redick, David C., and V. E. McCarty, to General Motors Corp. Ignition apparatus. 2,790,020, 4-23-57, Cl. 123-148.
- Rediess, Herman A.: See—
Rediess, Herman H., and H. A. 2,788,605.
- Rediess, Herman H. and H. A. Fishing sinkers. 2,788,605, 4-16-57, Cl. 43-43.1.
- Reding, Marcel: See—
Bossard, Werner, and Reding. 2,817,659.
- Redington, F. B., Co.: See—
Engleson, Harry E., and Sramek. 2,778,476.
Engleson, Harry E., and Sramek. 2,802,560.
Engleson, Harry E., and Sramek. 2,815,112.
Malhot, Clarence J. 2,792,922.
- Red Jacket Mfg. Co.: See—
Patterson, Glenn A. 2,807,214.
Patterson, Glenn A., and Deters. 2,787,220.
- Redka, Henry R. Clip. 2,796,646, 6-25-57, Cl. 24-66.
- Redlich, Horst, to Teldec Schallplatten G. m. b. H. Storage device. 2,792,454, 5-14-57, Cl. 179-100.1.
- Redlich, Horst, and W. Schmacks, to Teldec Schallplatten G. m. b. H. Recording apparatus. 2,792,455, 5-14-57, Cl. 179-100.1.
- Redman, Horace E., to Ethyl Corp. Manufacture of triethylaluminum. 2,787,626, 4-2-57, Cl. 260-448.
- Redman, Horace E., to Ethyl Corp. Preparation of trichlorophenylalkyl ethers. 2,803,664, 8-20-57, Cl. 260-612.

- Redmon, Bryan C., to National Distillers Products Corp. Preparation of malonanilic acid and substituted malonanilic acids. 2,782,231, 2-19-57, Cl. 260-518.
- Redmond, Audy J., 50% to J. C. Smith. Adjustable slub catcher. 2,808,634, 10-8-57, Cl. 28-64.
- Redmond Co., Inc.: See—
- Howes, John T. 2,810,845.
- Latta, Edward, and Jones. 2,810,294.
- Schultz, Werner F., and Seelhoff. 2,785,568.
- Tweedy, James W. 2,798,659.
- Tweedy, James W. 2,802,704.
- Tweedy, James W. 2,810,847.
- Tweedy, James W. 2,816,506.
- Tweedy, James W., and Gintner. 2,802,123.
- Redmond, John M., Jr., to The Coleman Co., Inc. Aspiring apparatus and valve therefor. 2,811,092, 10-29-57, Cl. 98-38.
- Redmond, Vincent J. Lock device for automobile wheel plates. 2,778,215, 1-22-57, Cl. 70-231.
- Redmond, William G., to Chance Vought Aircraft, Inc. Auxiliary servo control hand grip for a manually operable control lever. 2,787,746, 4-2-57, Cl. 318-19.
- Redniss, Alexander. Cyclone separator. 2,792,910, 5-21-57, Cl. 183-85.
- Redon, Celestin, to Etablissements Berry. Pneumatic governors for compression-ignition engines and like applications. 2,791,208, 5-7-57, Cl. 123-140.
- Redslob, Jean J., to Aircraft-Marine Products, Inc. Aluminum ferrule-copper tongue terminal and method of making. 2,806,215, 9-10-57, Cl. 339-276.
- Redslob, Jean J., to A M P Inc. Connector for aluminum wire. 2,815,497, 12-3-57, Cl. 339-276.
- Redston, John P.: See—
- Davis, Lloyd W., and Redston. 2,806,804.
- Reduction Engineering Corp.: See—
- Kidwell, Cleo H., and Oschwald. 2,792,114.
- Redyard, John, Jr. Wheel slide protection system for electric locomotive. 2,802,428, 8-13-57, Cl. 105-35.
- Reece Corp., The: See—
- French, Henry C., and Althens. 2,804,036.
- Nichols, Walter E. 2,788,755.
- Reed, Alfred. Groove cutting tool. 2,788,682, 4-16-57, Cl. 77-2.
- Reed, Arthur E., to General Electric Co. Drift stabilized velocity servo. 2,777,103, 1-8-57, Cl. 318-32.
- Reed, Byron F. Basketball play analyzer. 2,801,476, 8-6-57, Cl. 35-29.
- Reed & Carnrick Division of Corega Chemical Co.: See—
- Belleau, Bernard. 2,807,628.
- Reed, Charles C., L. Ritter, W. Valentine, and E. Chu Yen, to American Cyanamid Co. Gelatin films and capsules made therefrom. 2,776,220, 1-1-57, Cl. 106-136.
- Reed, Daniel J., to A. O. Smith Corp. Fiber reinforced tubular article. 2,791,241, 5-7-57, Cl. 138-76.
- Reed, David C. Power drive for reciprocating well pumps. 2,812,722, 11-12-57, Cl. 103-205.
- Reed, Edwin E., to Phillips Petroleum Co. Pump control system. 2,797,846, 7-2-57, Cl. 222-63.
- Reed, Eo, and J. C. Young, to Armco Steel Corp. Resistance welding machine. 2,815,437, 12-3-57, Cl. 219-102.
- Reed, Eugene D.: See—
- Luckner, Leo B., and Reed. 2,802,137.
- Reed, Eugene D., to Bell Telephone Laboratories, Inc. Electron discharge devices for the klystron type. 2,790,928, 4-30-57, Cl. 315-521.
- Reed, Flood E., Jr.: See—
- Latham, Allen, Jr., and Reed. 2,793,988.
- Reed, G. Raymond: See—
- Fletcher, Robert E., and Reed. 2,798,382.
- Reed, George W. Chinchilla cage door latch. 2,785,917, 3-19-57, Cl. 292-210.
- Reed, Howard L.: See—
- Williams, Willis E., and Reed. 2,806,464.
- Reed, Hugh W. B., to Imperial Chemical Industries Ltd. Production of terephthalates from cyclohexane-2,5-diol-1,4-dicarboxylates. 2,782,221, 2-19-57, Cl. 260-475.
- Reed, Hugh W. B., to Imperial Chemical Industries Ltd. Production of terephthalates from 2,5-diacyloxy cyclohexane-1,4-dicarboxylates. 2,782,223, 2-19-57, Cl. 260-475.
- Reed, James. Educational amusement device. 2,811,356, 10-29-57, Cl. 272-8.
- Reed, James V. Seating device. 2,797,418, 7-2-57, Cl. 4-57.
- Reed, Jesse O. Apparatus for heat processing and conveying of canned materials. 2,814,980, 12-3-57, Cl. 99-362.
- Reed, Kenneth D. Bumper, grill and pan guard. 2,779,620, 1-29-57, Cl. 293-64.
- Reed, Leland G. Storage battery plates and separator assembly machine. 2,790,536, 4-30-57, Cl. 198-35.
- Reed, Leslie L. Adapter type dispensing cap for glazier's putty containers. 2,815,895, 12-10-57, Cl. 222-568.
- Reed, Leslie M. Drain receptacle. 2,783,476, 3-5-57, Cl. 4-290.
- Reed-Lethbridge, William. Wind screen wipers. 2,787,802, 4-9-57, Cl. 15-250.
- Reed Mfg. Co.: See—
- Petersen, Thorvald. 2,795,986.
- Reed, Newton M.: See—
- Brooks, John W., Reed, and Walker. 2,809,391.
- Catlin, Robert T., and Reed. 2,790,972.
- Reed, Prentiss B., Jr., to the United States of America as represented by the Secretary of the Army. Electrostatic relay. 2,786,111, 3-19-57, Cl. 200-87.
- Reed, Robert D.: See—
- Zink, John S., and Reed. 2,779,399.
- Reed, Robert H.: See—
- Sandeman, Cargill S., and Reed. 2,793,737.
- Reed, Robert R.: See—
- Okress, Ernest C., and Reed. 2,785,340.
- Reed, Robert R., M. S. Wheeler, and J. Newell, to the United States of America as represented by the Secretary of the Navy. System of magnetron frequency modulation. 2,810,856, 10-22-57, Cl. 315-513.
- Reed Rolled Thread Die Co.: See—
- Lyman, George W., and Bibber. 2,781,677.
- Reed Roller Bit Co.: See—
- Peter, Robert G., and Volmert. 2,815,936.
- Schmid, Paul E. 2,802,556.
- Reed, Ronald A., to Whiffen and Sons Ltd. Process for preparing expanded organic polymeric materials and a blowing agent therefor. 2,804,435, 8-27-57, Cl. 260-2.5.
- Reed, Sherman K.: See—
- Edwards, Stephen P., Johnson, Reed, and Wilson. 2,802,717.
- Reed, Wade R. Adjustable gearing. 2,775,903, 1-1-57, Cl. 74-397.
- Reed, Wesley B., to American Optical Co. Aviators' helmets. 2,809,374, 10-15-57, Cl. 2-6.
- Reed, Wesley B., to American Optical Co. Means for supporting apparatus on the head. 2,810,385, 10-22-57, Cl. 128-141.
- Reed, Wesley B., to American Optical Co. Oxygen masks embodying means for ventilating goggles. 2,810,386, 10-22-57, Cl. 128-142.
- Reed, William A.: See—
- Harding, Walter L., and Reed. 2,817,499.
- Whitehouse, Irving, Graham, and Reed. 2,811,433.
- Reed, William A., H. R. Hatcher, and J. R. Sanscrainte, to Republic Steel Corp. Reactor for the high temperature reduction of iron oxide and the like. 2,776,874, 1-8-57, Cl. 23-284.
- Reed, William A., and S. R. Crooks, to Republic Steel Corp. Process of making parts by powder metallurgy and preparing a powder for use therein. 2,799,570, 7-16-57, Cl. 75-5.
- Reed, William K.: See—
- Billante, Charles A., and Reed. 2,804,585.
- Reed, William O., to The Rauland Corp. Monochrome to color converter system. 2,785,220, 3-12-57, Cl. 178-5.4.
- Reedall, Allen R., 1/2 to D. E. Funderburgh. Tackle box. 2,814,904, 12-3-57, Cl. 43-54.5.
- Reeder, Frank: See—
- Lowther, Alan G., and Reeder. 2,796,414.
- Reeder, Leo E., to MacGregor Sport Products, Inc. Protective pad. 2,785,407, 3-19-57, Cl. 2-22.
- Reeder, William H., III, to Dresser Operations, Inc. Partial oxidation of hydrocarbons in the presence of sulfur dioxide. 2,776,317, 1-1-57, Cl. 260-604.
- Reeh, Johann J.: See—
- Schwamm, Ernst, and Reeh. 2,804,069.
- Reenstra, Willard A., to Bell Telephone Laboratories, Inc. Line circuit. 2,796,465, 6-18-57, Cl. 179-18.
- Reerink, Wilhelm, W. Mischenborn, and E. Nötold. Method of dewatering and dressing very fine-grained mineral substances. 2,781,904, 2-19-57, Cl. 209-12.
- Rees, Earl W. Meat grinder and safety attachment therefor. 2,801,664, 8-6-57, Cl. 146-182.
- Rees, Frank X., to General Railway Signal Co. Track circuit responsive to varying train-shunt. 2,817,010, 12-17-57, Cl. 246-41.
- Rees, Frank X., and C. A. Pickell, to General Railway Signal Co. Combined manual block and train identity system. 2,794,117, 5-28-57, Cl. 246-5.
- Rees, Frank X., F. W. Brixner, and W. M. Barker, to General Railway Signal Co. Control of manual block signal by a multiple frequency carrier system. 2,816,218, 12-10-57, Cl. 246-5.
- Rees, Harry V., to Texaco Development Corp. Process for the recovery of oil from oil-bearing minerals. 2,793,104, 5-21-57, Cl. 48-197.
- Rees, John H. Automobile frame handling means and method. 2,806,581, 9-17-57, Cl. 198-33.
- Rees, Nancy T.: See—
- Buquor, Adolph P., and J. L. 2,788,501.
- Reesby, Carl E., and O. R. Smith, to Halliburton Oil Well Cementing Co. Control mechanism for elements in well tools. 2,795,856, 6-18-57, Cl. 33-178.
- Reese, Donald H.: See—
- Guerard, Albert S., Jr., Ranney, Reese, and MacDonald. 2,793,659.
- Guerard, Albert S., Jr., Ranney, Reese, and MacDonald. 2,812,919.

- Reese, Herbert E., and R. L. Posey, to Phillips Petroleum Co. Pressure balance indicator. 2,793,129, 7-2-57, Cl. 200—83.
- Reese, Michael, Research Foundation: *See*—
Rodbard, Simon. 2,799,270.
- Reese, Seward P. Pipe. 2,795,230, 6-11-57, Cl. 131—213.
- Reese, Terrell J. Car level and load adjustings device. 2,808,272, 10-1-57, Cl. 280—406.
- Reese, Walter J., and A. C. Smith. Safety radiator cap. 2,792,964, 5-21-57, Cl. 220—44.
- Reetz, Theodor, to Monsanto Chemical Co. Acetylene solution. 2,799,365, 7-16-57, Cl. 183—115.
- Reetz, Theodor, to Monsanto Chemical Co. Acetylene solution. 2,800,979, 7-30-57, Cl. 183—115.
- Reeve & Mitchell Mfg. Co., Inc.: *See*—
Banner, Edwin B. 2,788,827.
Banner, Edwin B. 2,788,828.
- Reeve, Robert E. Milk withdrawal device for continuous milking systems. 2,791,964, 5-14-57, Cl. 103—4.
- Reeves, Albert H.: *See*—
Anderson, Tore N., Hautzik, and Reeves. 2,813,972.
- Reeves Instrument Corp.: *See*—
McCoy, Rawley D. 2,795,653.
- Reeves, James C.: *See*—
Rust, John D. 2,784,544.
- Reeves, John F. Container closure. 2,785,824, 3-19-57, Cl. 220—46.
- Reeves, John S. Metal roof or wall construction. 2,814,999, 12-3-57, Cl. 108—13.
- Reeves, Paul B., to The Reliance Electric and Engineering Co. Actuator assembly for speed-varying unit. 2,797,590, 7-2-57, Cl. 74—509.
- Reeves Pulley Co.: *See*—
Michie, John S. 2,776,575.
- Reeves, Raymond J. D.: *See*—
Cox, Victor J., and Reeves. 2,797,325.
- Reeves Sound Studios, Inc.: *See*—
Wiggin, Lyman J., and Elder. 2,803,711.
- Reeves, Wilson A., and J. D. Guthrie, to the United States of America as represented by the Secretary of Agriculture. Ethylenimine methylol-phosphorus polymers and process of preparation. 2,795,569, 6-11-57, Cl. 260—45.2.
- Reeves, Wilson A., and J. D. Guthrie, to the United States of America as represented by the Secretary of Agriculture. Producing phosphorus containing amino resins and flame-proofing organic textiles. 2,809,941, 10-15-57, Cl. 260—2.
- Reeves, Wilson A., and J. D. Guthrie, to the United States of America as represented by the Secretary of Agriculture. Aqueous emulsion-suspension textile treating compositions and processes of treating textiles with same. 2,810,701, 10-22-57, Cl. 260—29.4.
- Reeves, Wilson A., J. D. Guthrie, and J. Warren, to the United States of America as represented by the Secretary of Agriculture. Water dispersible solid nitrilo-methylol-phosphorus polymers. 2,812,311, 11-5-57, Cl. 260—2.
- Reeves, Wilson A., C. Hamalainen, and J. D. Guthrie, to the United States of America as represented by the Secretary of Agriculture. Organic polymeric compositions containing nitrilo methylol-phosphorus polymers and bromine compounds. 2,814,573, 11-26-57, Cl. 117—136.
- Reff, John. Depressing and holding devices for automobile brake pedals and the like. 2,812,669, 11-12-57, Cl. 74—532.
- Refined Products Corp.: *See*—
Young, Walter T., Jr. 2,808,435.
Young, Walter T., Jr. 2,811,550.
- Reflectone Corp., The: *See*—
Eisele, William A. 2,790,124.
May, Richard D. 2,792,646.
May, Richard D., and Mickelson. 2,792,645.
- Simjian, Luther G. 2,778,645.
Simjian, Luther G. 2,783,999.
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Simjian, Luther G. 2,784,001.
Simjian, Luther G. 2,787,854.
Simjian, Luther G. 2,796,801.
Simjian, Luther G. 2,802,463.
Simjian, Luther G. 2,806,246.
Simjian, Luther G. 2,811,083.
- Reflector-Hardware Corp.: *See*—
Levy, Edward M., and Rheinstrom. 2,810,539.
- Reflectotherm, Inc.: *See*—
Mills, Clarence A. 2,783,618.
- Refrigeration Appliances, Inc.: *See*—
Erl, Edward J. 2,798,366.
- Refrigeration Package Spacers, Inc.: *See*—
Lang, Murray J. 2,787,407.
- Regal Shoe Mfg. Co.: *See*—
Sherbrook, Victor A. 2,794,995.
- Regan Bro's Co.: *See*—
Jess, John J., Sr. 2,814,328.
- Regan, John J. Covered vessel. 2,812,100, 11-5-57, Cl. 220—36.
- Regan, Thomas J.: *See*—
Clancey, James T., Phinney, Regan, and Wasp. 2,791,371.
- Regel, Erik: *See*—
Wegler, Richard, Grewe, and Regel. 2,784,138.
- Regenhardt, Hans W., to Record Files, Inc. Cabinets for filing, transfer, storage or the like. 2,789,025, 4-16-57, Cl. 312—342.
- Regent Wire and Rope Works: *See*—
Olsen, Otto. 2,780,278.
- Regents of the University of California, The: *See*—
Lamouria, Lloyd H. 2,818,160.
- Reggia, Frank, to the United States of America as represented by the Secretary of Commerce. Magnetic microwave attenuators. 2,798,207, 7-2-57, Cl. 333—81.
- Reggio, Ferdinando C. Control apparatus for power plants driving a variable torque load device. 2,776,720, 1-8-57, Cl. 170—135.74.
- Reggio, Ferdinando C. Engine fuel controller, including induction air pressure and temperature sensors. 2,778,350, 1-22-57, Cl. 123—119.
- Reggio, Ferdinando C. Regulating device. 2,812,746, 11-12-57, Cl. 121—42.
- Reggio, Ferdinando C. Fluid pump system. 2,816,533, 12-17-57, Cl. 123—139.
- Regie Nationale des Usines Renault: *See*—
Peras, Lucien. 2,782,049.
Peras, Lucien. 2,794,131.
Peras, Lucien. 2,795,947.
Peras, Lucien. 2,807,249.
Peras, Lucien. 2,807,251.
Peras, Lucien. 2,811,859.
Peras, Lucien. 2,815,221.
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Saives, Leon. 2,779,140.
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Saives, Leon. 2,791,454.
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- Regie Nationale des Usines Renault & Societe des Hauts-Fourneaux et Forges d'Allevard: *See*—
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- Regina Corp., The: *See*—
Verhaegen, Edward L. 2,784,433.
- Regle, Marius, and L. Lemaire, to Welding Research, Inc. Lattice forming machine. 2,778,384, 1-22-57, Cl. 140—3.
- Regnier, Norman J., to Hoffman Electronics Corp. Receiver selectively responsive to amplitude modulation, single side band or continuous wave signals. 2,811,638, 10-29-57, Cl. 250—20.
- Regoma Co. Ltd.: *See*—
Voumard, Bertrand, and Monnier. 2,788,544.
- Regula-King K. G.: *See*—
Engelage, Günther, and Padberg. 2,794,520.
- Reh, Carter K., to Borg-Warner Corp. Housing for earth boring apparatus. 2,776,113, 1-1-57, Cl. 255—4.8.
- Rehbeln, Charles A., and W. A. Mitchell, to Shell Development Co. Catalytic cracking apparatus. 2,798,795, 7-9-57, Cl. 23—288.
- Rehberg, Richard A., to Westinghouse Electric Corp. Sectional lead wire transfer and sorting device. 2,787,373, 4-2-57, Cl. 209—72.
- Reheis Co., Inc.: *See*—
Beekman, Stewart M. 2,797,978.
Beekman, Stewart M. 2,802,773.
- Reheis, Harry L., to Car Blocking Inc. Lading blocking device. 2,812,728, 11-12-57, Cl. 105—369.
- Rehm, Gustav A., to Springfield Boiler Co. Exchanger vapor generators. 2,796,050, 6-18-57, Cl. 122—32.
- Rehm, Gustav A., to Springfield Boiler Co. Superheater. 2,807,243, 9-24-57, Cl. 122—473.
- Rehme, William L. Ventilating means for a building wall. 2,779,065, 1-29-57, Cl. 20—4.
- Rehnberg, Edward H.: *See*—
Gearheart, John D., Sayre, and Rehnberg. 2,813,183.
- Rehorn, Miles P. Stereoscopic camera optical system. 2,794,380, 6-4-57, Cl. 95—18.
- Rehorn, Miles P. Personal heating system. 2,800,891, 7-30-57, Cl. 126—208.
- Reibell, Willard A.: *See*—
Bornzin, James H., Currier, and Reibell. 2,800,996.
- Reich, A., & Sons, Inc.: *See*—
Reich, Walter A. 2,786,427.
Reich, Walter A. 2,800,235.
- Reich, Ismar M., and W. R. Johnston, to Standard Brands Inc. Spray drying foamed material. 2,788,276, 4-9-57, Cl. 99—71.
- Reich, Ismar M., S. Redfern, J. F. Lenney, and W. W. Schimmel, to Standard Brands Inc. Prevention of gel in frozen coffee extract. 2,801,920, 8-6-57, Cl. 99—71.
- Reich, Leo. Cover for a mortar and pestle. 2,795,383, 6-11-57, Cl. 241—199.
- Reich, Walter A., to A. Reich & Sons, Inc. Track, trolley and derailler assembly. 2,786,427, 3-26-57, Cl. 104—96.
- Reich, Walter A., to A. Reich & Sons, Inc. Hand truck for handling bunches of bananas. 2,800,235, 7-23-57, Cl. 214—513.
- Reichard, Arthur R.: *See*—
Bemiss, Robert P., and Reichard. 2,803,392.
- Reichard, Hans, and W. Bauer, to H. and F. W. Deckel. Duplicate milling machine. 2,812,694, 11-12-57, Cl. 90—13.1.
- Reichardt, Wade H., to General Railway Signal Co. Induction type alternating current relay. 2,793,266, 5-21-57, Cl. 200—91.
- Reichardt, Pierre. Portable apparatus for detecting and locating noises. 2,792,902, 5-21-57, Cl. 181—24.

- Reichel & Drews, Inc.: *See*—
Jensen, Poul L. T. 2,795,384.
Stanley, Peter P., and Becker. 2,785,834.
- Reichel, Howard G.: *See*—
Hensgen, Bernard T., and Reichel. 2,799,585.
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Hensgen, Bernard T., Reichel, and Prohaska. 2,809,115.
Reichel, Samuel M. Venetian blind construction. 2,794,500, 6-4-57, Cl. 160-115.
Reichel, Samuel M. Venetian blind attachment. 2,818,113, 12-31-57, Cl. 160-115.
Reichelderfer, Charles A.: *See*—
Norman, Edward A., Jr., Reichelderfer, and Herzig. 2,809,627.
- Reichert, Lester O.: *See*—
Brauer, William F., Reichelt, and Surver. 2,807,697.
Kalbow, Theodore W., and Reichelt. 2,775,819.
- Reichert, Lester O., to Western Electric Co., Inc. Aligning fixture for brazing parts. 2,801,603, 8-6-57, Cl. 113-99.
- Reichert Floot & Mfg. Co., The: *See*—
Reichert, Paul F. H. 2,788,525.
- Reichert, Howard E.: *See*—
Gelzheiser, Francis L., Flick, and Reichert. 2,797,278.
- Reichert, Paul F. H., to The Reichert Floot & Mfg. Co. Tank ball. 2,788,525, 4-16-57, Cl. 4-56.
- Reichert, Robert D., to Radio Corp. of America. Electron beam tube. 2,813,215, 11-12-57, Cl. 313-82.
- Reichert, Wilhelmus J., to Shell Development Co. Low frequency seismometer. 2,788,512, 4-9-57, Cl. 340-17.
- Reichert, William G. Apparatus for automatically forming cores on arbors. 2,800,689, 7-30-57, Cl. 22-12.
- Reichert, Paul P.: *See*—
Zimmerman, Carl W., Reichertz, and Skinner. 2,781,488.
- Reichert, Paul P., to C. R. Sandberg, C. A. Connolly, Jr., and T. A. Pollard, to Socrony Mobil Oil Co., Inc. Gas anchor. 2,784,677, 3-12-57, Cl. 103-203.
- Reichhold Chemicals, Inc.: *See*—
Alynn, Charles L., Barrentine, Hodgins, Shelton, and Rawson. 2,812,309.
Fahrenhorst, Heinz, and Stimler. 2,808,389.
Shelton, Frederic J., and Barrentine. 2,812,308.
Swann, Geoffrey, and Evans. 2,781,332.
Walker, Robert B., Warner, and Hodgins. 2,812,310.
- Reichle, Hans: *See*—
Lauxmann, Hans H., and Reichle. 2,791,303.
- Reichmann, Ludwig: *See*—
Hartman, Arthur E. 2,806,562.
- Reichstein, Tadeus. 11-trifluoroacetoxy steroids and process. 2,800,489, 7-23-57, Cl. 260-397.1.
- Reichstein, Tadeus, to Organon Inc. Pregnane compounds and a process of making same. 2,813,107, 11-12-57, Cl. 260-397.45.
- Reid, Alan A., to General Mills, Inc. Method and apparatus for forming seams of thermoplastic material. 2,786,511, 3-26-57, Cl. 154-42.
- Reid, Edward S.: *See*—
Martin, John H., and Reid. 2,798,510.
- Reid Engineering Co.: *See*—
Reid, James H. 2,802,374.
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- Reid, Harold V. Truss. 2,779,330, 1-29-57, Cl. 128-98.
- Reid, Henry. Work-holding clamp for workpieces of variable thickness. 2,782,666, 2-26-57, Cl. 81-17.
- Reid, James H., to Allen B. Du Mont Laboratories, Inc. Radar contour circuit. 2,786,993, 3-26-57, Cl. 343-5.
- Reid, James H., to Reid Engineering Co. Locking device. 2,802,374, 8-13-57, Cl. 74-531.
- Reid, James H., to Reid Engineering Co. Locking device mechanism. 2,809,720, 10-13-57, Cl. 188-67.
- Reid, James W., Jr., to B. Lermont. Movable slot closures. 2,811,201, 10-29-57, Cl. 160-122.
- Reid, Johnson C. Earth cooled basement lock box. 2,800,090, 7-23-57, Cl. 109-59.
- Reid, Orland B., to The Singer Mfg. Co. Sewing apparatus and methods. 2,797,656, 7-2-57, Cl. 112-2.
- Reid, Raymond W., and R. C. Kirk, to The Dow Chemical Co. Magnesium anode dry cell. 2,806,079, 9-10-57, Cl. 136-133.
- Reid, Robert J., and B. H. Werner, to The Firestone Tire & Rubber Co. Solutions of vinylidene chloride terpolymers in tetrahydrofuran and uses thereof. 2,802,801, 8-13-57, Cl. 260-30.4.
- Reid, Robert J., W. M. Smith, Jr., and B. H. Werner, to The Firestone Tire & Rubber Co. Plasticization of vinylidene resins with tricarballylates. 2,802,802, 8-13-57, Cl. 260-31.8.
- Reid, Robert J., and W. M. Smith, Jr., to The Firestone Tire & Rubber Co. Chlorinated dialkyl maleates as processing aids for extrusion of vinylidene chloride resins. 2,802,803, 8-13-57, Cl. 260-31.8.
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- Reid, Thomas H.: *See*—
McPhee, Alexander H., and Reid. 2,803,315.
- Reider, George S., Jr., to Aircraft-Marine Products, Inc. Magazine-type hand tool for crimping electrical connectors. 2,777,345, 1-15-57, Cl. 81-15.
- Reidinger, Albert D.: *See*—
Struve, William S., and Reidinger. 2,808,400.
- Reifel, Harry, to The A. C. Gilbert Co. Input saving vibratory induction coil. 2,785,372, 3-12-57, Cl. 321-49.
- Reiff, Charles C.: *See*—
Last, Bernard, and Reiff. 2,783,063.
- Reiff, Charles C., to Rockwell Mfg. Co. Lubricant fitting. 2,776,926, 1-1-57, Cl. 184-105.
- Reiffel, Leonard, to Armour Research Foundation of Illinois Institute of Technology. X-ray source. 2,797,333, 6-25-57, Cl. 250-84.
- Reiffel, Leonard. Radiation detector. 2,809,295, 10-8-57, Cl. 250-71.
- Reiffen, Ernst A. Mixing and kneading machine. 2,808,239, 10-1-57, Cl. 259-102.
- Reifschneider, Gilbert. Flag Kit. 2,794,414, 6-4-57, Cl. 116-173.
- Reifschneider, Winston H., to Hughes Tool Co. Well drill. 2,807,444, 9-24-57, Cl. 255-313.
- Reifsnnyder, Shirley E. Steering wheel attachment. 2,810,221, 10-22-57, Cl. 40-10.
- Reigel, George W.: *See*—
Lineberry, Dewey D., and Reigel. 2,783,167.
- Reighart, June H. Ladle maintenance safety cage. 2,816,335, 12-17-57, Cl. 22-85.
- Reihman, Earl F., to General Electric Co. Mercury switch with lighted trigger. 2,810,047, 10-15-57, Cl. 200-152.
- Reik, Ella H. Heater for canned food. 2,814,288, 11-26-57, Cl. 126-263.
- Reilly, Alfred F., Sr. Vibrating hay tedder attachment for a hay pick-up mechanism. 2,815,636, 12-10-57, Cl. 56-370.
- Reilly, Arthur: *See*—
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- Reilly, Daniel A. Vehicle conversion unit. 2,777,727, 1-15-57, Cl. 296-21.
- Reilly, Frank E., to Electrographic Corp. Process of making a printing member. 2,789,500, 4-23-57, Cl. 101-401.1.
- Reilly, James J., to The Waterbury Tack Co., Inc. Thumb tack sorting apparatus. 2,808,930, 10-8-57, Cl. 209-72.
- Reilly, James J., and P. J. Nemerut, to Waterbury Tack Co., Inc. Tack packaging. 2,794,980, 6-11-57, Cl. 1-1.
- Reilly Tar & Chemical Corp.: *See*—
Cislak, Francis E. 2,786,847.
Cislak, Francis E. 2,789,982.
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Cislak, Francis E. 2,807,619.
Cislak, Francis E., and Wheeler. 2,786,846.
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- Reilly, William J., to Evans Case Co. Expandable belt. 2,795,797, 6-18-57, Cl. 2-339.
- Reilly, Phil K., Jr.: *See*—
Heiberger, Charles A., and Reilly. 2,803,674.
- Reiman, Vern: *See*—
Barry, John A. 2,787,277.
- Reimer, George M.: *See*—
Hayes, Robert A., and Reimer. 2,792,797.
- Reimer, Leonard H.: *See*—
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- Reimers, Alfred E., W. K. Tavender, and L. J. McCormack, Jr., to Reimers Electric Appliance Co., Inc. Steam pressing iron and steam-supply mechanism therefor. 2,815,593, 12-10-57, Cl. 38-77.
- Reimers Electric Appliance Co., Inc.: *See*—
Reimers, Alfred E., Tavender, and McCormack. 2,815,593.
- Reimers-Getriebe K. G.: *See*—
Gesche, Werner, and Dittrich. 2,803,144.
- Rein, Albert R.: *See*—
Sampson, Socrates J. 2,795,851.
- Rein, Herbert: *See*—
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- Rein, Margarete: *See*—
Riedmair, Josef, Rein, and Kerth. 2,786,731.
- Reinartz, Kurt, W. Graulich, W. Lehmann, and H. Kleiner, to Farbenfabriken Bayer Aktiengesellschaft. Process of decorating textile materials. 2,780,562, 2-5-57, Cl. 117-63.
- Reinartz, Robert, and O. Morgenlaender, to Maschinenfabrik Augsburg-Nurnberg A. G. Register adjustment for printing machines. 2,775,935, 1-1-57, Cl. 101-248.
- Reinartz, Robert W., to Maschinenfabrik Augsburg-Nurnberg A. G. Roll drive for printing presses. 2,778,302, 1-22-57, Cl. 101-216.
- Reinartz, Robert W., to Maschinenfabrik Augsburg-Nurnberg A. G. Sheet delivering mechanism for printing presses. 2,785,894, 3-19-57, Cl. 271-68.
- Reinbrecht, Henry. Means for controlling the use of safety razor blades. 2,796,981, 6-25-57, Cl. 206-46.
- Reindl, Joseph. Exhaust muffler. 2,788,078, 4-9-57, Cl. 181-58.
- Reinecke, Jean O.: *See*—
Emmert, George W., and Reinecke. 2,805,561.
- Reineke, Frank G. Inlay cutting device. 2,787,833, 4-9-57, Cl. 32-46.
- Reineman, Richard G., to The Brunswick-Balke-Collender Co. Furniture desk. 2,795,471, 6-11-57, Cl. 312-194.
- Reiner, Kenneth. Pin curl clip. 2,798,499, 7-9-57, Cl. 132-46.
- Reiner, Kenneth. Light weight metal lock nut having a relatively hard, thin and resilient locking sleeve portion. 2,816,591, 12-17-57, Cl. 151-21.
- Reiner, Laszlo. Aminoacid salts of diethylaminoethyl 4-amino-2-bromobenzoate. 2,780,641, 2-5-57, Cl. 260-472.

- Reiner, Robert, Inc.: *See*—
Lambach, Fritz, and Lombardi. 2,811,028.
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- Reiner, Stuart, and D. C. Hughes, to Teca Corp. Electro-diagnostic apparatus and a circuit therefor. 2,808,826, 10-8-57, Cl. 128-2.1.
- Reiners & Fürst: *See*—
Fürst, Stefan. 2,791,874.
- Reiners, Dr. Ing. W.: *See*—
Fürst, Stefan. 2,797,053.
- Reiners, Neville M., to Cummins Engine Co., Inc. Load proportioning means for multiple engine installations. 2,811,017, 10-29-57, Cl. 60-97.
- Reiners, Neville M., to Cummins Engine Co., Inc. Load proportioning means for internal combustion engines. 2,817,211, 12-24-57, Cl. 60-97.
- Reiners, Walter: *See*—
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- Reiners, Walter, and S. Fürst: said Fürst assor. to said Reiners. Fault-responsive control apparatus for coil winding machines. 2,800,287, 7-23-57, Cl. 242-37.
- Reinert, Armin E., $\frac{1}{2}$ to H. H. Clark. Treatment of sulphite liquor. 2,780,281, 2-5-57, Cl. 159-48.
- Reingruber, Frank. Separable thermostatic control for cooking utensils. 2,817,732, 12-24-57, Cl. 200-137.
- Reinhard, Gustav A. Means in combination with an alternating current generator for energizing its field windings. 2,808,558, 10-1-57, Cl. 322-27.
- Reinhard, Herbert H., to Sperzel Co. Check hinge for toilet seats. 2,814,048, 11-26-57, Cl. 4-240.
- Reinhard, Karl: *See*—
Frick, Chester A. 2,788,097.
Frick, Chester A. 2,808,880.
- Reinhard, Paul. Method and apparatus for undulating textile goods and applying a base layer thereto. 2,793,674, 5-28-57, Cl. 154-1.1.
- Reinhard, Robert N., to Foremost Dairies, Inc. Multiple piston hydraulic pump unit and operating means to selectively operate the pistons thereof. 2,776,624, 1-8-57, Cl. 103-37.
- Reinhard, Wolfgang, to International Standard Electric Corp. Circuit arrangement generating sawtooth current waves. 2,797,316, 6-25-57, Cl. 250-27.
- Reinhardt, Alberta C. Urine specimen receiver and holder. 2,796,865, 6-25-57, Cl. 128-295.
- Reinhold, Donald, to Merck & Co., Inc. Side chain degradation of 11-keto steroids. 2,780,621, 2-5-57, Cl. 260-239.55.
- Reinhold, Donald F.: *See*—
Chemenda, John M., and Reinhold. 2,811,521.
Sletzing, Meyer, and Reinhold. 2,816,110.
- Reinhold, Leonhard F., to Radio Corp. of America. Intermittent motion mechanism. 2,782,654, 2-26-57, Cl. 74-436.
- Reiniger, Waldemar, to Waggon-und Maschinenbau G. m. b. H. Apparatus for temporarily connecting together perforated flat parts, such as metal sheets. 2,790,346, 4-30-57, Cl. 85-6.
- Reinker, Gerald E., to General Electric Co. Ultraviolet lamp. 2,795,721, 6-11-57, Cl. 313-112.
- Reinsch, Arthur J., and H. J. Hishman, to Esso Research and Engineering Co. Apparatus for contacting liquid and vaporous materials. 2,808,897, 10-8-57, Cl. 183-25.
- Reintjes, George P. Pendant curtain wall. 2,776,631, 1-8-57, Cl. 110-1.
- Reintjes, George P. Sealing shoe attachment for pit covers. 2,776,632, 1-8-57, Cl. 110-173.
- Reintjes, George P. Fairing arch. 2,787,227, 4-2-57, Cl. 110-99.
- Reintjes, George P. Checkerwork chamber. 2,787,458, 4-2-57, Cl. 263-51.
- Reintjes, George P. Sand sealing shoe. 2,790,402, 4-30-57, Cl. 110-173.
- Reintjes, George P. Burner support for open hearth furnaces. 2,794,629, 6-4-57, Cl. 263-15.
- Rein, Raymond G., to Askania Regulator Co. Stabilized hydraulic relays and hydraulic relay stabilizers. 2,785,659, 3-19-57, Cl. 121-38.
- Reis, Arthur W., to United Electric Controls Co. Absolute pressure switch. 2,779,838, 1-29-57, Cl. 200-83.
- Reis, Carl A. Mining method providing for continuous progression of mining machinery. 2,778,622, 1-22-57, Cl. 262-1.
- Reis, Eugen. Automatic coin feed device for money counting machines. 2,792,100, 5-14-57, Cl. 198-54.
- Reis, Joseph J., Jr.: *See*—
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- Reis, Joseph J., Jr., to Pittsburgh Plate Glass Co. Forming foamed polyurethane resins. 2,779,689, 1-29-57, Cl. 117-104.
- Reis, William A., to Dominion Electric Corp. Thermostatic control mechanism. 2,805,302, 9-3-57, Cl. 200-122.
- Reise, Raymond E. Utility blade holder. 2,784,489, 3-12-57, Cl. 30-151.
- Reise, Robert J.: *See*—
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- Reiser, Hyman, and A. Aschenas. Child-proof gas cock control. 2,780,333, 2-5-57, Cl. 192-67.
- Reisert, August D.: *See*—
Fox, Alexander P., and Reisert. 2,777,610.
- Reishauer-Werkzeuge A.-G.: *See*—
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Rickenmann, Alfred. 2,792,824.
- Reisiger, William F.: *See*—
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- Reisinger, Robert L. Circle saw set. 2,783,663, 3-5-57, Cl. 76-63.
- Reisman, Stanley J.: *See*—
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- Reisner, John H., to Radio Corp. of America. Electron microscope alignment device. 2,802,111, 8-6-57, Cl. 250-49.5.
- Reisser, Vernon H. Excavating machine. 2,814,889, 12-3-57, Cl. 37-110.
- Reissmann, Heinz: *See*—
Weingand, Richard, and Reissmann. 2,813,034.
- Reistle, Carl E., Jr., to Esso Research and Engineering Co. Method for preventing lost returns. 2,778,604, 1-22-57, Cl. 255-1.8.
- Reistle, Carl E., Jr., to Esso Research and Engineering Co. Method for fracturing formations. 2,783,026, 2-26-57, Cl. 255-1.8.
- Reiter, Alexander L., to Borg-Warner Corp. Laundry apparatus timing mechanism. 2,798,302, 7-9-57, Cl. 34-45.
- Reiter, Alexander L., to Borg-Warner Corp. Mechanical control means for a clothes drier cylinder. 2,798,304, 7-9-57, Cl. 34-91.
- Reiter, Alexander L., to Borg-Warner Corp. Laundry drying apparatus. 2,798,306, 7-9-57, Cl. 34-133.
- Reiter, Alexander L., to Borg-Warner Corp. Revolving drum for a clothes drier. 2,798,307, 7-9-57, Cl. 34-133.
- Reiter, Daniel I. Fastener. 2,809,410, 10-15-57, Cl. 24-163.
- Reiter, David. All-purpose dental retainer. 2,786,273, 3-26-57, Cl. 32-63.
- Reiter, David. Dental retainer and former. 2,794,254, 6-4-57, Cl. 32-63.
- Reiter, George R., to General Electric Co. Latch. 2,813,737, 11-19-57, Cl. 292-74.
- Reiter, Sydney H. Over-temperature protection devices. 2,781,769, 2-19-57, Cl. 137-74.
- Reiter, Thomas A.: *See*—
Spitz, Peter H., Reiter, and Whall. 2,779,719.
- Reitler, Paul. Miniature switch. 2,800,546, 7-23-57, Cl. 200-67.
- Reitsemma, Robert H., to A. M. Todd Co. Preparation of l-carvone. 2,802,874, 8-13-57, Cl. 260-587.
- Reitzel, Clarence K., to The General Fireproofing Co. Drawer locking mechanism. 2,793,927, 5-28-57, Cl. 312-219.
- Reitzel, George A. Traps. 2,779,125, 1-29-57, Cl. 45-100.
- Reitzel, Nicolas M., and B. Karol, to Oxy-Catalyst, Inc. Catalytic device. 2,795,488, 6-11-57, Cl. 23-288.
- Reizman, Bina F., and J. B. Berman. Crocheting frame. 2,778,210, 1-22-57, Cl. 66-1.
- Reketye, Paul, to The Sun Rubber Co. Apparatus for cutting sealing gaskets. 2,796,929, 6-25-57, Cl. 164-50.
- Rekonty, Harry. Pocket calendar cabinet having a mirror, ruler, level, file and pencil sharpener therein. 2,804,198, 8-27-57, Cl. 206-1.
- Reliable Electric Co.: *See*—
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Motsinger, George C. 2,782,455.
- Reliable Toy Co., Ltd.: *See*—
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- Reliance Electric & Engineering (Canada) Ltd.: *See*—
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- Reliance Electric & Engineering Co., The: *See*—
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Jenner, William C., Wick, and Newpher. 2,780,742.
Lutman, Bryon O., Jr. 2,808,922.
Michie, John S. 2,797,587.
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Pfafl, Robert W. 2,805,386.
Reeves, Paul B. 2,797,590.
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Shrider, Kenneth L., and Pfafl. 2,809,342.
- Reliance Gauge Column Co., The: *See*—
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- Reliance Industries, Inc.: *See*—
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- Reliance Steel Products Co.: *See*—
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- Rellermeyer, Heinrich: *See*—
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- Relis, Nicholas C. Braking and steering attachment for sleds. 2,812,039, 11-5-57, Cl. 188-8.
- Rembusch, Trueman T. Racing apparatus. 2,793,402, 5-28-57, Cl. 30-2.
- Rem-Cru Titanium, Inc.: *See*—
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Jaffee, Robert I., and Ogden. 2,810,642.
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- Remika, Joseph P., to Bell Telephone Laboratories, Inc. Method and apparatus for processing ferroelectric crystal elements. 2,777,188, 1-15-57, Cl. 29-25.35.
- Remer, Charles H., Jiz. 2,751,129, 2-12-57, Cl. 209-455.
- Remer, Robert J., to Proctor and Schwartz, Inc. Conveying and treating system for loose, solid materials. 2,795,056, 6-11-57, Cl. 34-85.
- Remington Arms Co., Inc.: See—
- Ashby, William C. 2,790,535.
- Ashby, William C. 2,804,237.
- Brooks, John W., Reed, and Walker. 2,809,391.
- Catlin, Robert T., and Clair. 2,780,810.
- Catlin, Robert T., and Reed. 2,790,972.
- Crittendon, Lexie, and Haskell. 2,780,881.
- Evans, Richard E., and Haskell. 2,801,416.
- Evans, Richard E., and Owen. 2,802,187.
- Hull, John R. 2,803,955.
- Landa, Arthur J., and McDonald. 2,780,812.
- Leek, Wayne E., Morse, and Webb. 2,782,688.
- Reynolds, Warren S. 2,791,149.
- Witt, Jack C. 2,809,541.
- Wood, Forrest D. 2,781,126.
- Young, Homer W. 2,815,602.
- Remington Corp.: See—
- Smith, Lewis R. 2,787,133.
- Smith, Lewis R., and Laube. 2,804,758.
- Remington, Frederic, and R. A. Tartaglia, to Peerless Tube Co. High speed collapsible tube finishing machine. 2,800,872, 7-30-57, Cl. 118-53.
- Remington, Inasco E. Deep sea fishing device. 2,799,109, 7-16-57, Cl. 43-15.
- Remmen, Jorgen, to York Engineering & Construction Co. Positioning device. 2,792,097, 5-14-57, Cl. 193-35.
- Remmen, Jorgen. Power feed mechanism for hot or cold saws. 2,801,458, 8-6-57, Cl. 29-69.
- Remmert, Herman A.: See—
- Tenney, Ralph E., Dressler, and Remmert. 2,789,888.
- Rempel, Cornelius. Bath tub. 2,805,426, 9-10-57, Cl. 4-179.
- Rempel, George. Water tube heating plant. 2,814,280, 11-26-57, Cl. 122-328.
- Remus, Casimer F.: See—
- Palmenbert, Edward C., and Remus. 2,794,129.
- Remy, Donald L.: See—
- Bloom, Wilbur W., and Remy. 2,789,867.
- Renaud, Lawrence J., to L. P. Frieder. Textile fabrics. 2,788,023, 4-9-57, Cl. 139-410.
- Renaud, Samuel, to Etablissements Terrot. Gearbox. 2,812,667, 11-12-57, Cl. 74-334.
- Renaudie, Jacques H., to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Automatic switching valve. 2,775,980, 1-1-57, Cl. 137-113.
- Renaudin, Henri. Devices for making chronological investigation. 2,789,763, 4-23-57, Cl. 235-89.
- Rendall, John L., and W. H. Pearson, to Minnesota Mining & Mfg. Co. Fluorinated 2-alkenoic acids, esters and amides. 2,795,601, 6-11-57, Cl. 260-486.
- Rendel, George H.: See—
- Coleman, William E., and Rendel. 2,814,398.
- Rendel, George H., to United States Steel Corp. Electrostatic coating apparatus. 2,796,845, 6-25-57, Cl. 118-51.
- Renfrew, Malcolm M.: See—
- Witteoff, Harold, and Renfrew. 2,811,495.
- Renfrow, Alvin H. Meat-molding machine. 2,808,614, 10-8-57, Cl. 17-32.
- Renick, Wendell E., and K. C. Goodman, to American Brake Shoe Co. Solenoid operated valves. 2,801,372, 7-30-57, Cl. 317-123.
- Renke, Adolph W., to Yardney International Corp. Electric power supply system. 2,798,111, 7-2-57, Cl. 136-90.
- Renken, Harry J., to Fairbanks, Morse & Co. Engine fuel delivery control. 2,780,209, 2-5-57, Cl. 123-103.
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- Renne, William C. Thermostatic mixing valve. 2,812,139, 11-5-57, Cl. 236-12.
- Renneburg, Edw., & Sons Co.: See—
- Halldorsson, Gisti. 2,783,548.
- Renner, Alfred: See—
- Wettstein, Walter, Renner, and Widmer. 2,788,361.
- Renner, Otto, to Licentia Patent-Verwaltungs-G. m. b. H. Electrostatic high voltage generators. 2,784,351, 3-5-57, Cl. 317-3.
- Renner, Ralph H. Newspaper gun. 2,777,436, 1-15-57, Cl. 124-27.
- Rennick, John L.: See—
- Adler, Robert, and Rennick. 2,779,818.
- Rennick, John L., to Zenith Radio Corp. Color analyzer. 2,793,560, 5-28-57, Cl. 88-14.
- Renniks Co.: See—
- Skinner, Ralph L. 2,784,707.
- Renno, Donald G., to Motor Products Corp. Vehicle body door structure. 2,791,464, 5-7-57, Cl. 296-44.
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- Renno, Donald G., to Motor Products Corp. Automobile ventilator window structure. 2,808,914, 10-8-57, Cl. 189-75.
- Renno, Donald G., to Motor Products Corp. Automobile ventilator window construction. 2,812,556, 11-12-57, Cl. 20-53.
- Reno, Hugh W.: See—
- Miller, William J., and Reno. 2,804,068.
- Renold Chains Ltd.: See—
- Simpkin, Francis W., and Burawoy. 2,783,611.
- Renour, Edward R.: See—
- Meehan, Clarence L., and Patterson. 2,800,743.
- Renoux, Pierre E., to Societe Anonyme dite: Cri-Dan. Screw cutting machine for progressively cutting single or multiple pitch thread. 2,778,037, 1-22-57, Cl. 10-101.
- Renoux, Pierre E., to Societe Anonyme dite: Cri-Dan. Thread-cutting machines. 2,797,601, 7-2-57, Cl. 82-5.
- Renoux, Pierre E., to Societe Anonyme dite: Cri-Dan. Controlling mechanism for the tool holder of a machine tool. 2,803,226, 8-20-57, Cl. 121-147.
- Rentschler, Karl F., to Alfred Gauthier, G. m. b. H. Gear retarding mechanism, especially for photographic shutters. 2,800,802, 7-30-57, Cl. 74-405.
- Rentz, Howard F.: See—
- Beck, George W., and Rentz. 2,782,495.
- Renwick, Frederick W., Sr. Cigarette lighter. 2,807,947, 10-1-57, Cl. 67-7.1.
- Renz, Emil K., and G. Miller, to Knight Leather Products, Inc. Toilet case. 2,783,808, 3-5-57, Cl. 150-34.
- Reparon, Johannes, to "Naamloze Vennootschap Vereenigde Glas-Fabrieken (United Glassworks)." Packing case for a bulb glass. 2,814,910, 12-3-57, Cl. 47-37.
- Repal Brass Mfg. Co.: See—
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- Replogle, Edward H. Dust collector. 2,792,907, 5-21-57, Cl. 183-61.
- Repokis, Henry: See—
- Gagarine, Dmitry M., and Repokis. 2,803,564.
- Reppe, Walter, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Acetic acid anhydride. 2,789,137, 4-16-57, Cl. 260-546.
- Reppe, Walter, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of thioether dicarboxylic acids. 2,795,607, 6-11-57, Cl. 260-537.
- Reppe, Walter, H. Friederich, E. Henkel, and H. Lautenschlager, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid or its derivatives using a nickel halide catalyst in the presence of an activator containing sulfur or selenium. 2,806,040, 9-10-57, Cl. 260-347.4.
- Reppe, Walter, H. Friederich, H. Lautenschlager, and H. Laib, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid or its derivatives using a cationic complex nickel catalyst. 2,809,976, 10-15-57, Cl. 260-347.4.
- Repper, Theodore A. Rotary scrap cutters. 2,814,345, 11-26-57, Cl. 164-66.
- Reppert, Karl, to Firma Johannes Erhard. Butterfly valves. 2,791,396, 5-7-57, Cl. 251-175.
- Reppert, Richard V. Decimal point mechanism. 2,812,906, 11-12-57, Cl. 235-79.
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- Reynolds, Delbert D., and J. Van Den Berghe, to Eastman Kodak Co. Interpolycarbonates from 1,4-bis-(β -hydroxyethyl)-benzene-bis-(alkyl or aryl carbonates). 2,789,967, 4-23-57, Cl. 260-47.
- Reynolds, Delbert D., and J. Van Den Berghe, to Eastman Kodak Co. Polycarbonates from polymethylene glycol-bis-(alkyl or aryl carbonates). 2,789,968, 4-23-57, Cl. 260-77.5.
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- Reynolds, Delbert D., and T. M. Laakso, to Eastman Kodak Co. Linear polyesters from 4,4'-dicarboxybenzanilides. 2,794,795, 6-4-57, Cl. 260-75.
- Reynolds, Delbert D., and C. F. H. Allen, to Eastman Kodak Co. Side chain chlorination of alkyl benzenes and apparatus therefor. 2,811,486, 10-29-57, Cl. 204-163.
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- Reynolds, Julian L. Rapid refrigeration of foodstuffs. 2,784,567, 3-12-57, Cl. 62-114.
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- Rhodes, Harrison B.: *See*—
Mertes, Thomas S., and Rhodes. 2,801,966.
- Rhodes, Herbert C. Door brace. 2,779,980, 2-5-57, Cl. 20-38.
- Rhodes, Herbert C. Automatic control system for combined freezer and cooler. 2,780,441, 2-5-57, Cl. 257-3.
- Rhodes, Herbert C., to Capitol Products Corp. Dough sheeting roll. 2,783,719, 3-5-57, Cl. 107-12.
- Rhodes, Herbert C., to Capitol Products Corp. Parter for dough sheeting rolls. 2,788,752, 4-16-57, Cl. 107-12.
- Rhodes, Herbert C. Combined cooling coil and defrosting assembly for refrigerators. 2,814,934, 12-3-57, Cl. 62-126.
- Rhodes, Herman S.: *See*—
Peterson, William K., and Rhodes. 2,798,699.
- Rhodes, John F.: *See*—
Erke, August F. 2,809,065.
- Rhodes, Joseph C., and J. P. Segers, to Standard Oil Co. Continuous vapor pressure determination. 2,815,660, 12-10-57, Cl. 73-53.
- Rhodes, Kenneth E.: *See*—
Cunningham, James M., and Rhodes. 2,807,418.
- Rhodes, Kenneth E., to International Business Machines Corp. Dual entry controlling means for accumulators. 2,789,762, 4-23-57, Cl. 235-61.6.
- Rhodes, M. H., Inc.: *See*—
Laviana, Lawrence J. 2,778,418.
Laviana, Lawrence J. 2,780,016.
Laviana, Lawrence J. 2,789,168.
- Rhodes, Roland N., to Radio Corp. of America. Stabilized direct current setting apparatus. 2,792,496, 5-14-57, Cl. 250-27.
- Rhodes, Rudolph C.: *See*—
Harris, Vernice L., and Rhodes. 2,816,386.
- Rhodes, Thomas J., to United States Rubber Co. Molding apparatus. 2,798,253, 7-9-57, Cl. 18-12.
- Rhone, James R.: *See*—
Cason, Louis F., and Rhone. 2,789,122.
- Rhoten, Wesley. Self-teaching device. 2,790,251, 4-30-57, Cl. 35-9.
- Rhuland, Lionel E.: *See*—
Hoeksema, Herman, and Rhuland. 2,808,363.
Hoeksema, Herman, and Rhuland. 2,812,287.
- Rhyne, Earl C., Jr., to Cline Electric Mfg. Co. System for controlling induction motors by saturable reactors and co-ordinately controlled resistors. 2,793,338, 5-21-57, Cl. 318-214.
- Rhyne, Earl C., Jr., to Cline Electric Mfg. Co. Multi-speed induction motor control systems. 2,793,339, 5-21-57, Cl. 318-224.
- Rhyne, Earl C., Jr., to Cline Electric Mfg. Co. Constant input-impedance system for speed control of A-C. motors. 2,793,340, 5-21-57, Cl. 318-229.
- Rhyne, Earl C., Jr., to Cline Electric Mfg. Co. Precision frequency regulator. 2,793,342, 5-21-57, Cl. 332-24.
- Rhyne, Earl C., Jr., to Cline Electric Mfg. Co. Induction motor control systems. 2,817,051, 12-17-57, Cl. 318-240.
- Rhyne, William J., to Sylvania Electric Products Inc. Grid alignment in electron tubes. 2,782,338, 2-19-57, Cl. 313-299.
- Rhys, David W.: *See*—
Rhodes, Edwin C., and Rhys. 2,815,282.
- Riall, Charles T., to American Cyanamid Co. Container combination. 2,798,602, 7-9-57, Cl. 206-63.3.
- Riat, Henri, to Ciba Ltd. Metalliferous trisazo dyestuffs. 2,779,756, 1-29-57, Cl. 260-147.
- Riat, Henri, to Ciba Ltd. Disazo-dyestuffs. 2,793,205, 5-21-57, Cl. 260-182.
- Riat, Henri, to Ciba Ltd. Intermediate product and process for making it. 2,803,652, 8-20-57, Cl. 260-509.
- Riat, Henri, and O. Weber, to Ciba Ltd. Metalliferous azo dyestuffs. 2,816,102, 12-10-57, Cl. 260-148.
- Riba Rovira, Arturo. Device for the dispersion of insecticide powders. 2,813,187, 11-12-57, Cl. 219-19.
- Ribak, Charles F. Map and locating device. 2,789,372, 4-23-57, Cl. 35-40.
- Ribble, John M., and J. J. Fox, to Phillips Petroleum Co. Safety system for combustion process. 2,785,960, 3-19-57, Cl. 23-259.5.
- Ribera Casamada, Felix, A. Moral Arnaiz, and F. Ribera Llorens. Electromagnetic game apparatus. 2,780,462, 2-5-57, Cl. 273-119.
- Ribera Llorens, Felix: *See*—
Ribera Casamada, Felix, Moral Arnaiz, and Ribera Llorens. 2,780,462.
- Riblet, Henry J. Temperature compensated cavity resonator. 2,790,151, 4-23-57, Cl. 333-83.
- Riblet, Henry J. Variable wave guide attenuator. 2,812,500, 11-5-57, Cl. 333-81.
- Riblet, Henry J., to Raytheon Mfg. Co. Waveguide duplexers. 2,814,784, 11-26-57, Cl. 333-10.
- Riblet, Henry J., T. S. Saad, and R. L. Williston, to Microwave Development Laboratories. Waveguide rotary joint. 2,812,503, 11-5-57, Cl. 333-98.
- Riblet, Royal N., to Parkmaster Systems Inc. Parking system for automobiles. 2,785,809, 3-19-57, Cl. 214-16.1.
- Riblett, Earl W.: *See*—
Lefrancois, Philip A., Riblett, and Burton. 2,777,805.
Lefrancois, Philip A., Riblett, and Burton. 2,814,599.
Lefrancois, Philip A., Burton, and Riblett. 2,818,393.
- Ricardo & Co., Engineers (1927) Ltd.: *See*—
Alcock, John F. 2,811,826.
Goldsmith, Charles N. 2,785,664.
Holt, George A. 2,788,776.
Holt, George A. 2,795,215.
Holt, George A. 2,815,011.
- Ricci, Louis N.: *See*—
Popovich, Montgomery T., and Ricci. 2,798,898.
- Riccitelli, John F. Saw blade guard with cushioning cap. 2,792,038, 5-14-57, Cl. 145-35.
- Riccitiello, Michael: *See*—
Caldwell, Lewis E., and Riccitiello. 2,795,241.
- Rice, Adams T.: *See*—
Rossetto, Louis, Squassoni, Rice and Robbins. 2,816,609.
- Rice, Alexander F. Log-haul chair. 2,814,258, 11-26-57, Cl. 105-160.5.
- Rice Barton Corp.: *See*—
Clem, Everett W. 2,809,581.
- Rice, Charles W., and R. S. Meade. Venetian blind. 2,798,546, 7-9-57, Cl. 160-115.
- Rice Engineering and Operating, Inc.: *See*—
Routh, Benjamin I. 2,805,872.
- Rice, Frederick H. Phonograph record container. 2,785,797, 3-19-57, Cl. 206-62.
- Rice Growers Assn. of California: *See*—
Mickus, Robert R., and Brewer. 2,808,333.
- Rice, Harold D.: *See*—
Goodman, Robert, Baptist, and Rice. 2,793,989.
- Rice, Henry T. M., and R. T. Stevens, by assignment and by decree of distribution to A. M. Stevens. Multiple torque transmitting apparatus for tightening threaded fastening elements. 2,796,789, 6-25-57, Cl. 81-52.4.
- Rice, Herbert D.: *See*—
Le Febvre, Alfred L., and Rice. 2,781,537.
- Rice, Herbert C. Tractor seat construction. 2,793,678, 5-28-57, Cl. 155-51.
- Rice, Keith Q., to Dempster Mill Mfg. Co. Submersible pumps. 2,816,509, 12-17-57, Cl. 103-108.
- Rice, Leonard M.: *See*—
Geschickter, Charles F., and Rice. 2,803,627.
Grogan, Charles H., and Rice. 2,784,199.
Grogan, Charles H., and Rice. 2,802,003.
Grogan, Charles H., and Rice. 2,802,004.
Grogan, Charles H., and Rice. 2,807,624.
- Rice, Leonard M., and C. H. Grogan, to The Geschickter Fund for Medical Research, Inc. Bicycloazooctane derivatives. 2,786,834, 3-26-57, Cl. 260-239.
- Rice, Leonard M., and C. H. Grogan, to The Geschickter Fund for Medical Research Inc. Bis-bicycloazooctane quaternary salts. 2,803,631, 8-20-57, Cl. 260-293.
- Rice, Lester T., Jr. Expandable house trailer. 2,813,747, 11-19-57, Cl. 296-23.
- Rice, Lyman A., to General Motors Corp. Method of winding a wire coil. 2,807,869, 10-1-57, Cl. 29-155.57.
- Rice, Lyman A., to General Motors Corp. Regulator. 2,811,677, 10-29-57, Cl. 317-99.
- Rice, Melvin F., to Cone Automatic Machine Co. Inc. Undercutting attachment for lathes. 2,799,076, 7-16-57, Cl. 29-57.
- Rice, Neil O., to General Electric Co. High speed pick up energization control system for relays. 2,781,479, 2-12-57, Cl. 317-149.
- Rice, Philip J.: *See*—
Hines, Marion E., and Rice. 2,790,105.
- Rice, Philip K., to Union Carbide and Carbon Corp. Process of and apparatus for low-temperature separation of air. 2,788,646, 4-16-57, Cl. 62-123.
- Rice, R. B. Sausage Co., Inc.: *See*—
Mahan, Frank T. 2,799,044.
- Rice, Ralph W. Method of impregnating exfoliated vermiculite. 2,791,496, 5-7-57, Cl. 71-3.
- Rice, Raymond V., to Westinghouse Electric Corp. Automatic paralleling relay. 2,817,023, 12-17-57, Cl. 307-87.
- Rice, Rip G., and E. J. Kohn, to the United States of America as represented by the Secretary of the Navy. Preparation of secondary aromatic amines. 2,813,124, 11-12-57, Cl. 260-577.
- Rice, Rutledge S. J.: *See*—
Morton, Byron B., and Rice. 2,791,096.
- Rice, Stanley I.: *See*—
Blood, Harold L., and Rice. 2,787,874.
- Rice, Walter A., to Mohasco Industries, Inc. Method and apparatus for producing pile fabrics. 2,781,789, 2-19-57, Cl. 139-38.

- Rice, Walter A., to Mohasco Industries, Inc. Tufted pile fabrics. 2,810,950, 10-29-57, Cl. 28-78.
- Rice, William J.: *See*—
Klasing, Arthur P., and Rice. 2,805,700.
Klasing, Arthur P., and Rice. 2,805,973.
- Rice, Winston C. Method of converting a wire fence. 2,802,645, 8-13-57, Cl. 256-34.
- Rich, Clifford E., to The Day Co. of Canada, Ltd. Particle classifier for refuse screenings and the like. 2,815,858, 12-10-57, Cl. 209-138.
- Rich, Francis L., to Standard Oil Co. Rotary sludge coker wearing ring. 2,792,339, 5-14-57, Cl. 202-131.
- Rich, Gerald C., to Sylvania Electric Products Inc. Magnatron voltage control for arcs. 2,805,358, 9-3-57, Cl. 314-73.
- Rich, John T., to American Enka Corp. Converging warp sheet. 2,814,850, 12-3-57, Cl. 28-22.
- Rich, Robert L. Adding machine. 2,779,541, 1-29-57, Cl. 235-78.
- Rich, Stanley R., to Raytheon Mfg. Co. Underwater sound system. 2,786,193, 3-19-57, Cl. 340-6.
- Rich, Stanley R., to the United States of America as represented by the Secretary of the Navy. Automatic volume control for amplifiers. 2,799,737, 7-16-57, Cl. 179-171.
- Rich, Stanley R., to Raytheon Mfg. Co. Pulse coincidence circuit. 2,806,946, 9-17-57, Cl. 250-27.
- Rich, Theodore A., to General Electric Co. Apparatus for measuring condensation nuclei. 2,791,901, 5-14-57, Cl. 73-17.
- Rich, Theodore A., to General Electric Co. Electrometer apparatus. 2,794,955, 6-4-57, Cl. 324-109.
- Rich, Theodore A., to General Electric Co. Electrostatic microammeter. 2,812,443, 11-5-57, Cl. 250-83.6.
- Rich, Willard M. Confection packaging apparatus. 2,796,711, 6-25-57, Cl. 53-171.
- Richalet, Paul. Ventilating devices. 2,778,293, 1-22-57, Cl. 98-42.
- Richard, Antoine P., to Societe Anonyme des Manufactures des glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Copolymerization of vinyl chloride and vinylidene chloride with mixed azo-inorganic peroxide catalyst. 2,776,273, 1-1-57, Cl. 260-87.7.
- Richard, James A.: *See*—
Bailey, Preston F., Schneider, and Richard. 2,798,221.
- Richard, Joseph D., Jr. Fluid velocity measuring apparatus. 2,809,520, 10-15-57, Cl. 73-189.
- Richard, William R., Jr., to Monsanto Chemical Co. High pressure polymerization process for ethylene-1-chloro-1-fluoro-ethylene copolymers. 2,777,833, 1-15-57, Cl. 260-87.7.
- Richards, Alfred V., and H. W. Schaufelberger, to Western Electric Co., Inc. Lubricating device for universal drill press. 2,810,809, 10-22-57, Cl. 77-55.
- Richards, Archer W.: *See*—
Osterhus, Ervin J., Richards, and Taylor. 2,776,824.
- Richards, Archer W., to Fred Medart Mfg. Co. Bleacher seats. 2,817,389, 12-24-57, Cl. 155-130.
- Richards, Archer W., and R. A. Meyers, to Scovill Mfg. Co. Running inflation system. 2,780,267, 2-5-57, Cl. 152-417.
- Richards, Augustus J., to Bonnar-Vawter, Inc. Feed strip severing device. 2,779,411, 1-29-57, Cl. 164-60.
- Richards, Augustus J., to Bonnar-Vawter, Inc. Feed drum adjusting mechanism. 2,799,498, 7-16-57, Cl. 271-2.6.
- Richards, David C., to Socony Mobil Oil Co., Inc. Self-orienting geophone. 2,781,502, 2-12-57, Cl. 340-17.
- Richards, Dwight, to Dorr-Oliver Inc. Drum filter with removable sections. 2,793,755, 5-28-57, Cl. 210-330.
- Richards, Dwight, to Dorr-Oliver Inc. Shower actuating mechanism. 2,807,501, 9-24-57, Cl. 299-66.
- Richards, Dwight, to Dorr-Oliver Inc. Continuous rotary filter. 2,818,177, 12-31-57, Cl. 210-390.
- Richards, Edward: *See*—
Van Fleet, Vincent, and Richards. 2,814,079.
- Richards, Edward A., and L. J. Ellison, to International Standard Electric Corp. Dry contact rectifiers. 2,817,047, 12-17-57, Cl. 317-234.
- Richards, Frank A., to Ideal Toy Corp. Tufting method and machine. 2,812,734, 11-12-57, Cl. 112-79.5.
- Richards, Fred C. Portable traction unit. 2,811,965, 11-5-57, Cl. 128-75.
- Richards, George F., to Tele-Tect Corp. Electronic inspection apparatus. 2,798,605, 7-9-57, Cl. 209-111.
- Richards, Harrison H. C., Jr.: *See*—
Lowry, Lewis R., Jr., and Richards. 2,795,679.
- Richards, James V. W., and D. F. Benford, to Johnson & Phillips Ltd. Fluid filled electric cables. 2,803,692, 8-20-57, Cl. 174-11.
- Richards, John H., to Hartford National Bank and Trust Co., as trustee. Temperature sensitive element. 2,779,846, 1-29-57, Cl. 201-63.
- Richards, John H., to United States Steel Corp. Process for the rapid removal of sulphur and silicon from pig iron. 2,781,256, 2-12-57, Cl. 75-52.
- Richard, Joseph J., to Link-Belt Co. Bearing take up. 2,791,474, 5-7-57, Cl. 308-59.
- Richards, Leslie D.: *See*—
Cullen, Roy H., and Richards. 2,815,227.
- Richards, Norris C. Transfer of designs on monuments. 2,810,227, 10-22-57, Cl. 41-39.
- Richards, Richard K.: *See*—
Koehler, Robert B., and Richards. 2,782,336.
- Richards, Roland H., to The Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Plural speed phonograph mechanism. 2,788,669, 4-16-57, Cl. 74-199.
- Richard Sizer Ltd.: *See*—
Bradfield, Kenneth R. 2,794,266.
- Richards, Thomas J. Thermally controlled retarded relay. 2,792,533, 5-14-57, Cl. 317-132.
- Richards-Wilcox Mfg. Co.: *See*—
Diehl, William J. 2,816,516.
Heidinger, Del J. 2,784,833.
Phillips, Ellis J. G. 2,786,523.
- Richards, William B., to Superior Separator Co. Centrifugal machine for separating particles from a moving gaseous stream. 2,795,292, 6-11-57, Cl. 183-77.
- Richards, William B., to Superior Separator Co. Bladed airlock structure. 2,806,636, 9-17-57, Cl. 222-197.
- Richards, William B., and W. B. Burnet, to Superior Separator Co. Apparatus for fluidizing and conveying granular material. 2,795,464, 6-11-57, Cl. 302-49.
- Richardson, Alexander H.: *See*—
Porter, Frederick W. B., and Richardson. 2,792,333.
- Richardson, Ambrose M. Convertible furniture unit. 2,815,067, 12-3-57, Cl. 155-196.
- Richardson, Arthur B. F. G., to British Insulated Callender's Cables Ltd. Screw extrusion machines. 2,783,498, 3-5-57, Cl. 18-12.
- Richardson, Arthur B. F. G., to British Insulated Callender's Cables Ltd. Friction clutches. 2,788,875, 4-16-57, Cl. 192-85.
- Richardson, Arthur B. F. G., to British Insulated Callender's Cables Ltd. Friction clutches. 2,788,877, 4-16-57, Cl. 192-113.
- Richardson, Bruce F., to Cobalt Chemicals, Ltd. Method for producing articles having high creep resistance. 2,782,135, 2-19-57, Cl. 148-11.5.
- Richardson, Carl B. Pot type oil burner and low fire pilot unit. 2,777,511, 1-15-57, Cl. 158-91.
- Richardson, Charles, Corp.: *See*—
Richardson, Charles D. 2,793,395.
- Richardson, Charles D., to Charles Richardson Corp. Apparatus for forming mineral wool. 2,793,395, 5-28-57, Cl. 18-2.5.
- Richardson, Cleves. Wall supported table having increased leg room and seating capacity. 2,815,256, 12-3-57, Cl. 311-18.
- Richardson, Colin A., to The Sperry Gyroscope Co. Ltd. Aircraft navigation-aid apparatus. 2,817,083, 12-17-57, Cl. 343-108.
- Richardson Co., The: *See*—
Kehe, Alfred W. 2,781,076.
Neely, Glen W. 2,781,791.
Ritenour, Gerald. 2,780,986.
Ruschman, Gordon A. 2,781,147.
Wentland, Robert J. 2,806,825.
- Richardson, Douglas W., and M. R. Sabiston. Temperature responsive switch device. 2,790,046, 4-23-57, Cl. 200-114.
- Richardson, Douglas W., and M. R. Sabiston, to Hart Mfg. (Canada) Ltd. Self-controlled heating unit. 2,800,564, 7-23-57, Cl. 219-38.
- Richardson, Earl L., to Westinghouse Electric Corp. Electrostatic precipitators. 2,789,656, 4-23-57, Cl. 183-7.
- Richardson, Eugene E., C. S. Scanley, and E. K. Fields, to Standard Oil Co. Corrosion inhibitors and compositions containing the same. 2,799,651, 7-16-57, Cl. 252-32.7.
- Richardson, Frank L., to Sperry Rand Corp. Moving range indicator for automatic tracking radar. 2,776,423, 1-1-57, Cl. 343-7.3.
- Richardson, Frederick G. Cage nut. 2,804,180, 8-27-57, Cl. 189-36.
- Richardson, George W., $\frac{1}{2}$ to T. Brierley and A. Courtley. Root crop harvesting machines. 2,791,076, 5-7-57, Cl. 55-56.
- Richardson, George W., $\frac{1}{2}$ to T. Brierley and A. Courtley. Root crop top harvesting machines. 2,791,083, 5-7-57, Cl. 56-121.45.
- Richardson, Harry L.: *See*—
Streuber, Rudolf G., and Richardson. 2,794,847.
Streuber, Rudolf G., and Richardson. 2,806,896.
- Richardson, Hazel A. Bobby-pin receptacle and opener. 2,785,687, 3-19-57, Cl. 132-1.
- Richardson, Henry A., to Metropolitan-Vickers Electrical Co. Ltd. Control circuits for electric oscillators. 2,796,523.
- Richardson, Henry M., to Atlas Powder Co. Laminating solutions, laminating stock and laminated products. 2,809,911, 10-15-57, Cl. 154-121.
- Richardson, Henry M., and W. S. Larson, to The Grote Mfg. Co., Inc. Method of embossing a metal roll. 2,775,911, 1-1-57, Cl. 76-107.
- Richardson, Jesse T. Air regulator for duplicating machine. 2,811,920, 11-5-57, Cl. 101-416.
- Richardson, John E., to The Magnavox Co. Control apparatus for producing pulses. 2,777,959, 1-15-57, Cl. 307-88.
- Richardson, Joseph G.: *See*—
Graham, John W., McCardell, Osoba, and Richardson. 2,792,894.
- Richardson, Kenneth W., Jr.: *See*—
Theis, Francis W., and Richardson. 2,778,846.
- Richardson, Loyd W. Subterranean ditching apparatus. 2,795,111, 6-11-57, Cl. 61-72.
6-18-57, Cl. 250-36.
- Richardson, Pierce F.: *See*—
Bourgeois, Francis H., and Richardson. 2,801,117.

- Richardson, Richard C., $\frac{1}{2}$ to A. J. Di Carlo. Machine for measuring and cutting floor covering. 2,801,471, 8-6-57, Cl. 33-135.
- Richardson, Richard J., to B. S. F. A. Holdings Ltd. Face mask for use in dust-laden or other contaminated conditions. 2,792,000, 5-14-57, Cl. 128-145.
- Richardson Rod & Reel Co.: *See*—
Gronewold, Arthur E., 2,795,073.
- Richardson, Roger W., to Esso Research and Engineering Co. Process for hydrolyzing aluminum alcoholates in limited quantities of water. 2,805,920, 9-10-57, Cl. 23-143.
- Richardson, Roland A.: *See*—
Pearson, Eugene W., and Richardson. 2,781,844.
- Richardson, Roland A. Electric switches of the shock operated type. 2,783,321, 2-26-57, Cl. 200-61.45.
- Richardson Scale Co.: *See*—
Burke, Arthur J. 2,797,792.
Klein, Enrico, and Burke. 2,793,000.
- Richardson, Sid, Carbon Co.: *See*—
Classen, Edwin J., Jr. 2,780,247.
- Richardson, Sid W.: *See*—
Pattinson, Reginald L. Re. 24,318.
- Richardson, William F., to Flex-O-Lators, Inc. Sofa back construction. 2,800,166, 7-23-57, Cl. 155-179.
- Richardson, William F., to Flex-O-Lators, Inc. Edge roll for cushion spring assemblies. 2,800,170, 7-23-57, Cl. 155-184.
- Richardson, William F., to Flex-O-Lators, Inc. Rolling and wrapping machine for sheet materials. 2,816,409, 12-17-57, Cl. 53-215.
- Richartz, Paul, to Bell & Howell Co. Photographic lens mount. 2,779,238, 1-29-57, Cl. 88-57.
- Richens, Arthur W., to Continental Can Co., Inc. Intermittently operating apparatus for making bags. 2,782,694, 2-26-57, Cl. 93-22.
- Richerod, Louis J. Method of making hollow containers. 2,781,551, 2-19-57, Cl. 18-55.
- Richert, Bernhard E., to Sun Oil Co. Seismic data plotter. 2,817,905, 12-31-57, Cl. 33-76.
- Richert, Eberhard, to International Standard Electric Corp. Pneumatic conveying system transmission tubes. 2,784,922, 3-12-57, Cl. 243-38.
- Richert, Eberhard, to International Standard Electric Corp. Arrangement for the stopping and dispatching carrier capsules in pneumatic tube systems. 2,816,719, 12-17-57, Cl. 243-38.
- Riches, Wesley W., to E. I. du Pont de Nemours and Co. Process of flameproofing and rot-proofing cellulosic materials by applying acidic solutions of antimony, zirconium and titanium and neutralizing with ammonia gas. 2,785,041, 3-12-57, Cl. 8-116.
- Richet, Bernard E. Profiling attachment and/or system for a machine tool. 2,782,668, 2-26-57, Cl. 82-14.
- Richet, Bernard E. Profiling attachment and/or system for a machine tool. 2,817,991, 12-31-57, Cl. 82-14.
- Richey, Clarence B.: *See*—
Miller, Raymond J., and Richey. 2,777,733.
- Richey, Clarence B., to Harry Ferguson, Inc. Tractor mounted reciprocating cutting assembly. 2,775,855, 1-1-57, Cl. 56-25.
- Richey, Clarence B., to Ford Motor Co. Tractor mounted reciprocating cutting assembly. 2,796,713, 6-25-57, Cl. 56-25.
- Richey, Clarence B., and R. E. Vandenberg, to Ford Motor Co. Self-propelled harvester chassis. 2,814,351, 11-26-57, Cl. 180-1.
- Richfield Oil Corp.: *See*—
Berriman, Lester P., and Himel. 2,786,020.
Brown, Charles T., Dinsmore, and Deeter. 2,807,527.
Himel, Chester M. 2,785,199.
Kofahl, David C., and Hitchcock. 2,803,856.
- Richie, Carlton A., to Owens-Illinois Glass Co. Phenol-formaldehyde molding composition for plastic closures. 2,803,608, 8-20-57, Cl. 260-17.2.
- Richman, Donald, to Hazeltine Research, Inc. Keyed automatic gain control. 2,784,249, 3-5-57, Cl. 178-7.3.
- Richman, Donald, to Hazeltine Research, Inc. Multipurpose control system for a color-television receiver. 2,813,147, 11-12-57, Cl. 178-5.4.
- Richman, Eli. Combined dry mounting press and print drier. 2,799,949, 7-23-57, Cl. 34-143.
- Richman, Frederick H. Insulated drum. 2,782,956, 2-26-57, Cl. 220-10.
- Richman, Harold. Baseball card game apparatus. 2,812,181, 11-5-57, Cl. 273-93.
- Richmond-Chase Co.: *See*—
Pinard, Vivian E. 2,793,665.
- Richmond, Martin R., to Raytheon Mfg. Co. Doppler miss simulator. 2,801,049, 7-30-57, Cl. 235-61.
- Richmond, Marvel L. Crew and flat top hair cutting comb. 2,778,366, 1-22-57, Cl. 132-45.
- Richmond, Ralph W. Sealed universal bearing mounting. 2,812,224, 11-5-57, Cl. 308-187.1.
- Richmond, Robert C., L. F. Marsch, R. F. Huhndorff, J. K. McKinley, and H. D. Massin, to The Texas Co. Adsorptive separation process. 2,818,137, 12-31-57, Cl. 183-114.2.
- Richmond, Roy H., to Eagle Mfg. Co. Ear plate for storage and dispensing containers. 2,792,159, 5-14-57, Cl. 222-472.
- Richmond, Roy H., Sr., to Eagle Mfg. Co. Safety dispensing container. 2,815,892, 12-10-57, Cl. 222-470.
- Richmond Screw Anchor Co., Inc.: *See*—
Pilling, Alan H. 2,788,652.
- Richolt, Robert R.: *See*—
Harp, Dallas S., and Richolt. 2,802,453.
- Richter, Adolf, to Brassert Oxygen Technik A. G. Method for refining pig iron. 2,815,275, 12-3-57, Cl. 75-52.
- Richter, Carl, and A. Willi, to Cilag Ltd. Injection solutions containing pyridine carboxylic acid N-hydroxymethylamides. 2,793,158, 5-21-57, Cl. 167-65.
- Richter, Elias M. Disposable automobile floor mat covers. 2,793,149, 5-21-57, Cl. 154-49.
- Richter, Ernst. Draftsman's spacing device. 2,791,838, 5-14-57, Cl. 33-110.
- Richter, Ferdinand J.: *See*—
Weidenheimer, Joseph F., Ritter, and Richter. 2,783,245.
- Richter, Hans. Drainage assembly. 2,783,770, 3-5-57, Cl. 137-177.
- Richter, Hartmut W., to Metal & Thermit Corp. Method of recovering zirconium oxide. 2,783,126, 2-26-57, Cl. 23-18.
- Richter, Helmer, and M. Schenck, to Firma Schering A. G. 2-aminomethyl-indane compounds. 2,794,048, 5-28-57, Cl. 260-570.9.
- Richter, Herman W., and H. R. Gillette. Method for making a wedge heel. 2,780,147, 2-5-57, Cl. 92-54.
- Richter, John A.: *See*—
Van Dusen, Charles A., Wittenmyer, and Richter. 2,799,187.
- Richter, Kenneth W., to Everbrite Electric Signs, Inc. Center post mountings for illuminated signs. 2,791,851, 5-14-57, Cl. 40-125.
- Richter, Max. Stocking having a seamless toe and produced on a flat hosiery knitting machine and method for production thereof. 2,800,006, 7-23-57, Cl. 66-187.
- Richter, Raymond R., to The Dayton Rubber Co. Washup attachment for printing presses and the like. 2,786,413, 3-26-57, Cl. 101-425.
- Richter, Robert: *See*—
Köhler, Horst, Richter, and Kaselitz. 2,789,463.
Köhler, Horst, Richter, and Kaselitz. 2,803,167.
- Richter, Robert L. Automatic drink vending machine. 2,782,810, 2-26-57, Cl. 141-174.
- Richter, Sidney B., to Velsicol Chemical Corp. Halogenated mercurisulfonates. 2,794,038, 5-28-57, Cl. 260-433.
- Richter, Virgil J., to Colgate-Palmolive Co. Dental preparations. 2,806,814, 9-17-57, Cl. 167-93.
- Richter, Walter: *See*—
Scharf, Herbert H. E., Schmucker, and Richter. 2,783,967.
- Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Drying apparatus control. 2,816,370, 12-17-57, Cl. 34-45.
- Richterkessing, Frank H., and W. M. Ingold, to W. M. Cissell Mfg. Co. Fabric drying machine. 2,816,742, 12-17-57, Cl. 259-89.
- Richtzenhain, Hermann M.: *See*—
Hägglund, Erik K. M., Hällström, and Richtzenhain. 2,789,974.
- Rick, Christian E., to E. I. du Pont de Nemours and Co. Heating oxygen-contaminated halogen-containing vapors. 2,788,260, 4-9-57, Cl. 23-202.
- Rick, Christian E., to E. I. du Pont de Nemours and Co. Method of minimizing product buildup in the production of metal including titanium and zirconium. 2,805,151, 9-3-57, Cl. 75-84.5.
- Rick, Christian E., to E. I. du Pont de Nemours and Co. Production of inorganic oxide composition coatings. 2,809,124, 10-8-57, Cl. 117-46.
- Rick, Clarence A.: *See*—
Austin, Leslie W., and Rick. 2,812,241.
- Rick, Richard M., $\frac{1}{2}$ to D. H. Amstey. Rotatable antenna and antenna mast. 2,791,909, 5-14-57, Cl. 74-89.
- Rickard, Clyde E., to McDowell Mfg. Co. Positive release couple and valve. 2,818,082, 12-31-57, Cl. 137-321.
- Rickard, William H. Fish lure. 2,790,264, 4-30-57, Cl. 43-42.5.
- Rickel, Wesley K.: *See*—
Lawrence, Kenneth M., and Rickel. 2,809,014.
- Rickenmann, Alfred, to Reishauer-Werkzeuge A.-G. Gear grinding machine. 2,786,309, 3-26-57, Cl. 51-95.
- Rickenmann, Alfred, to Reishauer-Werkzeuge A.-G. Device for the dressing of grinding worms. 2,792,824, 5-21-57, Cl. 125-11.
- Ricker, Eugene C.: *See*—
Andrus, Paul G., Matthews, and Ricker. 2,815,330.
- Rickett, Barbara B., to Laros, Inc. Lady's slip. 2,805,422, 9-10-57, Cl. 2-73.
- Rickert, Hans-Ferdinand: *See*—
Stein, Eberhard, Rickert, and Pieper. 2,816,817.
- Rickert, Herbert B., to The Dow Chemical Co. Halo-dicyclohexyl-phenols. 2,802,881, 8-13-57, Cl. 260-619.
- Rickert, Herbert B., to The Dow Chemical Co. Dicyclohexyl alkyl phenols. 2,804,481, 8-27-57, Cl. 260-619.
- Rickert, Herbert B., to The Dow Chemical Co. 2-Halo-4,6-di-tert-aryalkyl phenol esters. 2,807,639, 9-24-57, Cl. 260-479.

- Rickert, Royce J., to the United States of America as represented by the Secretary of the Air Force. Zero speed detector. 2,807,014, 9-17-57, Cl. 340-271.
- Rickert, Willy M., to Houdaille-Hershey Corp. Spare tire mount safety catch. 2,797,035, 6-25-57, Cl. 224-42.21.
- Ricketts, Louis F., R. J. Kuhlmeier, and W. J. Watts. Guard for fire inflation. 2,792,056, 5-14-57, Cl. 157-1.
- Ricks, Herbert E.: *See*—
Antel, Damon C., Ricks, and Colaiaco. 2,795,040.
- Rico-Dent Corp.: *See*—
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- Rico Enterprises, Inc.: *See*—
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- Rico S. A.: *See*—
Garcia-Galiano, Gregorio S. 2,803,921.
- Ridbo Laboratories, Inc.: *See*—
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- Riddell, John T., Inc.: *See*—
Morgan, Gerard M., Jr., and Lukasik. 2,806,300.
Rappleyea, Frederick A., and Morgan. 2,785,106.
- Riddell, Wallace C., and G. B. Kirk, to Kaiser Gypsum Co., Inc. Vapor-permeable gypsum board. 2,776,234, 1-1-57, Cl. 154-86.
- Riddell, Wallace C., and G. B. Kirk, to Kaiser Gypsum Co., Inc. Gypsum board. 2,803,575, 8-20-57, Cl. 154-88.
- Riddels, Harry H. and M. H. Concrete surfacing machine. 2,787,096, 4-2-57, Cl. 51-180.
- Riddels, Myron H.: *See*—
Riddels, Harry H. and M. H. 2,787,096.
- Riddle, Allan G., to Robal Mfg. Corp. Automatic can marking machine. 2,811,917, 11-5-57, Cl. 101-35.
- Rideal, Eric K., and E. McNeill, to The British Petroleum Co. Ltd. Electrolytic regeneration of aqueous solutions containing mercaptides. 2,812,301, 11-5-57, Cl. 204-153.
- Ridenour, Charles E.: *See*—
Avery, Howard S., and Ridenour. 2,776,208.
- Rideout, Amos H., and W. T. Surratt. Caster dollies for tobacco baskets and the like. 2,790,196, 4-30-57, Cl. 16-30.
- Rider, Clifford M., 20% to D. Cross, 20% to H. J. Rider, 20% to V. Rider, and 20% to J. A. Rider. Semi-self-storing awning. 2,811,755, 11-5-57, Cl. 20-57.5.
- Rider, Harold J.: *See*—
Rider, Clifford M. 2,811,755.
- Rider, Joshua A.: *See*—
Rider, Clifford M. 2,811,755.
- Rider, Stuart H.: *See*—
Anas, Thomas, and Rider. 2,816,085.
- Rider, Stuart H., T. Anas, and G. L. Fraser, to Monsanto Chemical Co. Baking enamels from alkyl resins and polymethylol derivatives of substituted guanamines. 2,816,865, 12-17-57, Cl. 260-21.
- Rider, Vernon: *See*—
Rider, Clifford M. 2,811,755.
- Rider, Warren M.: *See*—
Wallace, Earl C., and Rider. 2,810,390.
- Ridge, George W. Pivotal-jaw vise having fulcrum and cam independently adjustable. 2,788,687, 4-16-57, Cl. 81-25.
- Ridge Tool Co., The: *See*—
Hollaway, Raymond L., Jr., and Kirk. 2,815,527.
Ingwer, Carl H., and Janik. 2,778,652.
- Ridgers, Charles E. S., to The Decca Record Co., Ltd. Protective circuits. 2,802,151, 8-6-57, Cl. 317-20.
- Ridgers, Frederick G., to N. Slater Co. Ltd. Guy fitting. 2,792,243, 5-14-57, Cl. 287-78.
- Ridgers, Frederick G., to N. Slater Co. Ltd. Transposition bracket. 2,792,445, 5-14-57, Cl. 174-147.
- Ridgeview Hosiery Mills Co., Inc.: *See*—
Grey, Hugh M. 2,817,224.
- Ridgley, Donald E.: *See*—
Faus, Harold T., and Ridgley. 2,788,382.
- Ridgway, Eric O.: *See*—
Farrelly, Peter, and Ridgway. 2,793,232.
- Ridgway, Eric O. Recovery of rosin acids. 2,807,607, 9-24-57, Cl. 260-97.6.
- Ridgway, Frank, to Arundel Coulthard & Co. Ltd. Ring doubling or twisting machines. 2,815,639, 12-10-57, Cl. 57-120.
- Ridgway, Harry: *See*—
Rhodes, Charles J., and Ridgway. 2,798,459.
- Ridgway, Herbert N. Amusement slide. 2,779,596, 1-29-57, Cl. 272-56.5.
- Ridings, Garvice H.: *See*—
Hackenberg, John H., Worthen, and Ridings. 2,785,223.
- Ridings, Garvice H., and J. H. Hackenberg, to The Western Union Telegraph Co. Facsimile scanner. 2,806,081, 9-10-57, Cl. 178-5.
- Ridings, Geoffrey N., to British Insulated Callender's Cables Ltd. Apparatus for marking wires and cables and the like. 2,816,524, 12-17-57, Cl. 118-316.
- Ridler, Desmond S.: *See*—
Terry, Victor J., Ridler, and Weir. 2,787,657.
Terry, Victor J., Ridler, and Weir. 2,788,940.
- Ridler, Desmond S. Gas discharge tubes and circuit arrangements therefor. 2,780,751, 2-5-57, Cl. 315-169.
- Ridley, Ian M., to Blasterete Equipment Co., Inc. Angle nozzle. 2,801,133, 7-30-57, Cl. 299-107.
- Ridley, John F., to Riegel Textile Corp. Wrong twist preventer for winders. 2,808,998, 10-8-57, Cl. 242-128.
- Ridout, Edward D., to Electric & Musical Industries Ltd. Chucks. 2,780,470, 2-5-57, Cl. 279-66.
- Rieber, Martin, and L. Orthner, to Farbwerke Hoechst Aktiengesellschaft A. G., vormals Meister Lucius & Bruning. Process of preparing cycloalkanonoximes. 2,800,508, 7-23-57, Cl. 260-566.
- Riebmman, Leon. Anti-jam receiver for pulse echo detection system. 2,781,510, 2-12-57, Cl. 343-17.1.
- Riede, Peter M.: *See*—
Bliss, Lyman A., Riede, and Beckman. 2,777,295.
- Riedel-De Haen Aktiengesellschaft: *See*—
Boedecker, Friedrich. 2,790,793.
- Riedel, John. Solderless gutter for buildings. 2,801,601, 8-6-57, Cl. 108-28.
- Riedel, John Y., to Bethlehem Steel Co. Air-hardening tool steel. 2,780,570, 2-5-57, Cl. 148-31.
- Riedel, Marie H.: *See*—
Riedel, Walter H. 2,792,029.
Riedel, Walter H. 2,796,894.
- Riedel, Richard H., to Kearfoot Co., Inc. Instrument for measuring the angle of rolling contact in a bearing. 2,783,543, 3-5-57, Cl. 33-174.
- Riedel, Walter H., deceased; M. H. Reidel and First Trust Co. of St. Paul, executors. Deformer for milk filling machines. 2,792,029, 5-14-57, Cl. 141-121.
- Riedel, Walter H., deceased; M. A. Riedel and First Trust Co. of Saint Paul, executors of said W. H. Riedel. Defoamer for milk filling machines. 2,796,894, 6-25-57, Cl. 141-121.
- Riedel-de Haen Aktiengesellschaft: *See*—
Heymons, Albrecht, and Schnabel. 2,799,615.
- Riedeman, William L., to Rohm & Haas Co. N,N-disubstituted carbonato amides. 2,811,532, 10-29-57, Cl. 260-340.2.
- Riedeman, William L., to Rohm & Haas Co. Carbonato nitriles. 2,811,533, 10-29-57, Cl. 260-340.2.
- Rieder, Ernst, to G. Loertscher. Small-size shunting machine. 2,811,112, 10-29-57, Cl. 105-27.
- Riederer, Conrad A.: *See*—
Belek, Emil, and Riederer. 2,807,810.
- Riedesel, Richard G., and R. S. Frigstad, to Minnesota Mining & Mfg. Co. Endless abrasive article. 2,794,726, 6-4-57, Cl. 51-297.
- Riedmair, Josef, H. Rein, deceased (M. Rein, nee Thiebach, executrix), and M. Kerth, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process and preparations for producing prints with azo dyestuffs being insoluble in water. 2,786,731, 3-26-57, Cl. 8-71.
- Riegel Paper Corp.: *See*—
Anderson, William E. 2,776,913.
Harrison, Ward D. 2,793,117.
Kerridge, Robert L., and Hamilton. 2,792,765.
- Riegel, Robert F. Apparatus for mixing feeds with molasses. 2,801,832, 8-6-57, Cl. 259-23.
- Riegel Textile Corp.: *See*—
Ridley, John F. 2,808,998.
Thomas, James C., and Gore. 2,777,312.
Thomas, James C., Gore, and Simmons. 2,777,748.
- Rieger, Ewald: *See*—
Grambow, Joachim, and Rieger. 2,803,704.
- Riegner, Otto E.: *See*—
Frager, Max, Stern, and Riegner. 2,803,928.
- Riehl, Frederick W. Steam drive prime mover system. 2,781,640, 2-19-57, Cl. 60-95.
- Riehl, Frederick W. Surface condenser. 2,791,400, 5-7-57, Cl. 257-2.
- Riehl, Frederick W. Method and apparatus for utilizing exhaust steam. 2,793,502, 5-28-57, Cl. 60-95.
- Riehl, Frederick W. Steam power plant. 2,817,321, 12-24-57, Cl. 122-338.
- Riehle, Fred W.: *See*—
Schwab, Louis, O'Connor, and Riehle. 2,786,957.
- Riehm, Theodor, to Deutsche Bergin-Aktiengesellschaft. Hydrolysis of wood with concentrated hydrochloric acid. 2,778,751, 1-22-57, Cl. 127-37.
- Rieke, Glenn T., to Rieke Metal Products Corp. Diaphragm sealed vent for containers. 2,784,865, 3-12-57, Cl. 220-44.
- Rieke, Glenn T., to Rieke Metal Products Corp. Closure adaptor for containers. 2,814,418, 11-26-57, Cl. 222-91.
- Rieke, John W., to Bell Telephone Laboratories, Inc. Television band width reducing system. 2,811,578, 10-29-57, Cl. 178-5.2.
- Rieke Metal Products Corp.: *See*—
Rieke, Glenn T. 2,784,865.
Rieke, Glenn T. 2,814,418.
- Rielly, Francis J.: *See*—
Paist, Walter D., and Rielly. 2,785,993.
- Rienecker, Fred. Hopper spray gun. 2,801,880, 8-6-57, Cl. 299-86.
- Riener, Edward F.: *See*—
Beavers, Ellington M., and Riener. 2,812,338.
Craig, W. E., Riener, and Wilson. 2,783,284.
- Riener, Edward F., to Rohm & Haas Co. Preparation of organic acids by the caustic fusion of cyanohydrins. 2,811,538, 10-29-57, Cl. 260-406.
- Riener, Harry, to Penny Plate, Inc. Pie plate. 2,802,411, 8-13-57, Cl. 99-428.
- Rienks, Leo, and G. B. Patterson, to Armour and Co. Preparation of antitryptic substance from soybean. 2,794,800, 6-4-57, Cl. 260-236.5.
- Rieppel, Perry J., and M. C. Clapp, and R. M. Evans, to The Metal Specialty Co. Method of making a hollow metal structure. 2,779,086, 1-29-57, Cl. 29-157.3.

- Ries, Edward J., and G. E. Christians, to Ritter Co., Inc. Vertically adjustable pedestal stool. 2,780,277, 2-5-57, Cl. 155-94.
- Ries, George J. Wig-wag bicycle light. 2,788,763, 4-16-57, Cl. 116-56.
- Ries, Herman E., Jr., to Standard Oil Co. Monomethyl esters of aliphatic phosphonic acids. 2,784,208, 3-5-57, Cl. 260-461.
- Ries, Iwan & Co.: See—
Parker, Martin J. 2,818,463.
- Ries, Rudy F., and T. G. Palsulich. Measuring and dispensing device for coffee, sugar, and the like. 2,778,542, 1-22-57, Cl. 222-362.
- Ries, Rudy F., and W. R. Ryan, to Edo Corp. Amphibious aircraft and elements thereof. 2,793,827, 5-28-57, Cl. 244-108.
- Riesebeck, Curt C. J. Device for carrying receptacles. 2,800,940, 7-30-57, Cl. 150-12.
- Rieser, John D. Motorized speed change device. 2,794,930, 6-4-57, Cl. 310-54.
- Rieser, John D. Adjustable ratio transmission mechanism. 2,799,176, 7-16-57, Cl. 74-230.17.
- Rieser, John D. Adapter coupling means. 2,811,861, 11-5-57, Cl. 74-421.
- Riesing, Ellwood F., to General Motors Corp. Fluid seal. 2,797,944, 7-2-57, Cl. 288-2.
- Riesing, Ellwood F., to General Motors Corp. Fluid seal. 2,804,325, 8-27-57, Cl. 288-3.
- Riess, Hanley L. Predetermined torque release hand tool. 2,786,377, 3-26-57, Cl. 81-52.4.
- Riess, Kurt, and A. Haltmeier, to Farbenfabriken Bayer Aktiengesellschaft. Process for preventing frost from forming in coolers for the condensation of volatile substances from moist carrier gases. 2,805,734, 9-10-57, Cl. 183-120.
- Riester, William C.: See—
Lenz, Emory W., and Riester. 2,804,297.
Lenz, Emory W., and Riester. 2,818,251.
- Rietema, Kornelis: See—
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- Rietema, Kornelis, to Shell Development Co. Crystallization and separation of crystals. 2,794,832, 6-4-57, Cl. 260-525.
- Rieter, Joh. Jacob, & Co., Ltd.: See—
Hess, Heinrich O. 2,795,010.
Wurmli, Arthur. 2,800,762.
- Rietmann, Omar. Grain separating structure for combine. 2,811,158, 10-29-57, Cl. 130-27.
- Rietz, Carl A., to Rietz Mfg. Co. Vinegar product and process of manufacture. 2,785,073, 3-12-57, Cl. 99-147.
- Rietz, Carl A., to Rietz Mfg. Co. Wine making process. 2,811,448, 10-29-57, Cl. 99-36.
- Rietz, Edward L.: See—
Nobles, Joe C., and Rietz. 2,813,391.
- Rietz Mfg. Co.: See—
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Rietz, Carl A. 2,811,448.
- Rife, Howard M., and A. H. Walker, to Union Carbide and Carbon Corp. Polymerization of acrylic acid in aqueous solution. 2,789,099, 4-16-57, Cl. 260-29.6.
- Rigby, Edward. Apparatus for collecting a liquid sample. 2,797,150, 6-25-57, Cl. 23-259.
- Rigby, Miles G., and E. A. Herder, to Rockwell Spring and Axle Co. Adjustable seat supports. 2,784,764, 3-12-57, Cl. 155-14.
- Rigert, Max, and W. J. Weinfurt, to McGraw-Edison Co. Electric contact. 2,806,926, 9-17-57, Cl. 200-166.
- Riggle, Harry W. Breathers and ventilators for houses. 2,789,493, 4-23-57, Cl. 98-88.
- Riggs, Florida L. Shoe last with interchangeable heel plate. 2,805,432, 9-10-57, Cl. 12-133.
- Riggs, Florida L. Shankpiece. 2,817,166, 12-24-57, Cl. 36-76.
- Riggs, Frederick S., to The Goodyear Tire & Rubber Co. Rim. 2,808,870, 10-8-57, Cl. 152-410.
- Riggs, George: See—
Breed, Roland N., Groth, Irwin, Kille, and Riggs. 2,780,410.
- Riggs, Mart B., to The Goodyear Tire & Rubber Co. Method of making nylon tires. 2,790,482, 4-30-57, Cl. 154-14.
- Riggs, Robert W.: See—
Wolters, Carl F., and Riggs. 2,815,758.
- Rigolot, Henri. Closure for bottles and like containers. 2,786,594, 3-26-57, Cl. 215-91.
- Rigondaud, Guy F. Writing instrument. 2,811,947, 11-5-57, Cl. 120-50.
- Rigoulot, Jacques, to Etablissements Japy Freres (Societe Anonyme). Electro-magnets for alternating currents, especially applicable to electro-magnetic coupling devices such as brakes, clutches, etc. 2,796,561, 6-18-57, Cl. 317-188.
- Rigsby, Robert J.: See—
Mappes, Alfred J. 2,785,826.
- Rigterink, Raymond H., to The Dow Chemical Co. 3,4-dihydro-2H-1,3-benzoxazines. 2,806,031, 9-10-57, Cl. 260-244.
- Rigterink, Raymond H., to The Dow Chemical Co. Amine salts of chlorophenols. 2,806,063, 9-10-57, Cl. 260-567.5.
- Rigterink, Raymond H., to The Dow Chemical Co. 3,4-Dihydro-2H-1,3-benzoxazines. 2,811,523, 10-29-57, Cl. 260-244.
- Riishede, Knud: See—
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- Rike, James L., to Esso Research and Engineering Co. Sealing porous earth stratum. 2,776,010, 1-1-57, Cl. 166-21.
- Rike, Richard C., to General Motors Corp. Direct acting master cylinder. 2,793,501, 5-28-57, Cl. 60-54.6.
- Rike, Richard C., to General Motors Corp. Power brake booster. 2,811,835, 11-5-57, Cl. 60-54.6.
- Riker, William E.: See—
Loudon, Clifford L., and Riker. 2,779,935.
Loudon, Clifford L., and Riker. 2,779,936.
- Riland, George G. Non-skid circular chain track. 2,797,773, 7-2-57, Cl. 188-4.
- Riley, Earl E. Movable bottom cinder pot. 2,788,207, 4-9-57, Cl. 266-39.
- Riley, Erwin M., and H. E. Idoine. Trencher. 2,790,255, 4-30-57, Cl. 37-90.
- Riley, James A. Self lubricating journal for railroad cars and locomotives. 2,810,613, 10-22-57, Cl. 308-86.
- Riley, Joseph J., to The Taylor-Winfield Corp. Half-cycle timer for electric resistance welding apparatus. 2,800,611, 7-23-57, Cl. 315-204.
- Riley, Joseph J., to The Taylor-Winfield Corp. Control system for the protection of welding transformers. 2,800,612, 7-23-57, Cl. 317-14.
- Riley, Joseph J., and F. A. Hurcomb, to The Taylor-Winfield Corp. Apparatus for hot upsetting. 2,790,067, 4-23-57, Cl. 219-151.
- Riley, Joseph J., and C. E. Stambaugh, to The Taylor-Winfield Corp. Non-synchronous combination welder control. 2,800,624, 7-23-57, Cl. 323-18.
- Riley, Joseph L.: See—
Hibbard, Myrthan R., and Riley. 2,803,364.
- Riley, Melvin A., to The Baltimore Paper Box Co. Fiberboard and structures for shipping boxes. 2,783,930, 3-5-57, Cl. 229-14.
- Riley, Robert M. Animated decoy. 2,799,960, 7-23-57, Cl. 43-3.
- Riley Stoker Corp.: See—
Andrews, L. V. 2,780,186.
Feeley, Frank G., Jr. 2,811,953.
Hawley, Charles F. 2,776,647.
Kuhner, Max H. 2,800,889.
Kuhner, Max H. 2,808,035.
Miller, Earle C. 2,792,131.
Miller, Earle C. 2,817,498.
Miller, Earle C., and Craig. 2,800,888.
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Rivers, Russell C. 2,804,834.
- Rilling, Hugh P.: See—
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- Rimbach, Arthur B. Heat exchange apparatus. 2,780,445, 2-5-57, Cl. 257-137.
- Rimington, Claude, A. Lawson, C. E. Searle, and H. V. Morley, to National Research Development Corp. Certain substituted thioglyoxalones. 2,815,349, 12-3-57, Cl. 260-309.6.
- Rimsha, Victor E., to The Dole Valve Co. Cooling radiator thermostatic valve. 2,815,174, 12-3-57, Cl. 236-34.
- Rimsha, Victor E., and R. R. Dahl, to The Dole Valve Co. Single solenoid hydraulic control valve. 2,815,041, 12-3-57, Cl. 137-620.
- Rinaker, Marjorie M. Pollution control apparatus. 2,793,707, 5-28-57, Cl. 183-2.
- Rinaldi, Anthony J., and F. A. Romano. Laminates and laminated products. 2,782,976, 2-26-57, Cl. 229-3.5.
- Rinckhoff, John B.: See—
Kruppa, William J., and Rinckhoff. 2,815,316.
- Rinderer, Francis J. Evaporator. 2,797,747, 7-2-57, Cl. 159-6.
- Rindtorff, Ermbrecht: See—
Daniels, Joseph, Rindtorff, and Ruschmann. 2,797,979.
- Rinehart, Dale W.: See—
McAlpine, Kenneth B., and Rinehart. 2,782,319.
- Rinehart, Walter A. Resistor terminal cutter. 2,810,192, 10-22-57, Cl. 30-124.
- Rines, Robert H. Power transmission. 2,786,132, 3-19-57, Cl. 250-2.
- Rinesch, Rudolf: See—
Suess, Theodor E., Trenkler, Hauttmann, and Rinesch. 2,800,631.
- Rinesch, Rudolf, to Vereinigte Oesterreichische Eisen-und Stahlwerke Aktiengesellschaft. Process for the stiffening of slags upon liquid metal baths before pouring off the same. 2,800,405, 7-23-57, Cl. 75-24.
- Ring Aluminum Development Co.: See—
Ring, Lucian. 2,817,884.
- Ring, Elliott, to General Electric Co. Ambient pressure responsive control for fuel oxidizer and nozzle exhaust area of reaction motors. 2,780,914, 2-12-57, Cl. 60-35.6.
- Ring, Ernest A., 1/2 to F. M. Blakeney. Adjustable temples for eyeglass or spectacle frame. 2,797,617, 7-2-57, Cl. 88-52.
- Ring, Lucian, to Ring Aluminum Development Co. Nozzle and seat structure. 2,817,884, 12-31-57, Cl. 22-68.
- Ring, Raymond M.: See—
Levis, Robert R., and Ring. 2,788,123.
- Ring, Roland, to Sperry-Sun Well Surveying Co. Well surveying instrument. 2,797,976, 7-2-57, Cl. 346-107.
- Ring, William. Bathtub. 2,804,629, 9-3-57, Cl. 4-173.
- Ringgold, Homer E. Centering tool. 2,809,439, 10-15-57, Cl. 33-191.

- Ringham, Gordon B., and W. N. Staynes, to Communications Patents Ltd. Apparatus for instruction or training in navigation. 2,796,681, 6-25-57, Cl. 35—10.2.
- Ringhandt, Horst: *See—*
Mittag, Fritz H., and Ringhandt. 2,815,182.
- Ringier, Beat H.: *See—*
Kruey, Jean, Hueni, Ringier, and Staehelin. 2,798,869.
- Ringleh, Friedrich O. Multiple cylinder shock absorber for aircraft arresting gear. 2,802,631, 8-13-57, Cl. 244—110.
- Ringler, William A., to The Gardner Board and Carton Co. Carton. 2,776,081, 1-1-57, Cl. 229—9.
- Ringler, William A., to The Gardner Board & Carton Co. Collapsible bottle carriers. 2,795,352, 6-11-57, Cl. 220—113.
- Ringler, William A., to The Gardner Board and Carton Co. Carton. 2,803,394, 8-20-57, Cl. 229—44.
- Ringler, William A., to The Gardner Board and Carton Co. Folding display box. 2,810,475, 10-22-57, Cl. 206—45.27.
- Ringler, William A., and M. I. Williamson, to Federal Paper Board Co., Inc. Containers for small parts for radio and television and the like. 2,792,111, 5-14-57, Cl. 206—65.
- Ringler, William R., to The Gardner Board & Carton Co. Can packaging machine. 2,817,196, 12-24-57, Cl. 53—40.
- Ringman, Henry W., to Sumner Iron Works, Inc. Poppet type valve distributing system for a servo-motor. 2,778,342, 1-22-57, Cl. 121—38.
- Ringmaster, Inc.: *See—*
Federbush, Peter B. and R. N. 2,801,115.
- Ringold, Howard J.: *See—*
Dauben, Hvp J., Jr., Ringold, and Loken. 2,802,825.
Jerassi, Carl, Ringold, and Rosenkranz. 2,776,968.
Stork, Gilbert, Ringold, and Rosenkranz. 2,805,230.
- Ringold, Howard J., F. Sondheimer, and G. Rosenkranz, to Syntex S. A. Preparation of 3-ketopregnenes. 2,802,839, 8-13-57, Cl. 260—397.4.
- Ringold, Howard J., F. Sondheimer, and G. Rosenkranz, to Syntex S. A. Cyclopentanophenanthrene derivatives and process for the preparation thereof. 2,806,030, 9-10-57, Cl. 260—239.55.
- Rings, Franz: *See—*
Lucke, Werner, and Rings. 2,807,959.
Warnecke, Wilhelm, and Rings. 2,799,357.
- Rings, Franz, to G. Krömschroder Aktiengesellschaft. Gas meter in combination with a pipe line connector piece. 2,799,166, 7-16-57, Cl. 73—274.
- Ringsby, Joe W. Truck tail gate attachment. 2,783,080, 2-26-57, Cl. 296—50.
- Ringwood Chemical Corp.: *See—*
Frank, Robert L. 2,784,092.
Galat, Alexander. 2,803,670.
- Rink, Harold L., and R. F. Spence. Electric lighter. 2,799,810, 7-16-57, Cl. 317—89.
- Rink, Harold L., and R. F. Spence. Dispensers for cigarettes and similarly shaped objects. 2,812,106, 11-5-57, Cl. 221—203.
- Rinkenbach, William H., and W. J. Carroll, Jr., to Trojan Powder Co. Ammonium nitrate and urea explosives. 2,814,555, 11-26-57, Cl. 52—14.
- Rinkenbach, William H., and W. J. Carroll, Jr., to Trojan Powder Co. Cast ammonium nitrate and urea explosive. 2,817,581, 12-24-57, Cl. 52—14.
- Rinker, Edwin C., to Sel-Rex Precious Metals, Inc. Electroplating bath purification. 2,787,590, 4-2-57, Cl. 204—52.
- Rinker, Edwin C., to Sel-Rex Precious Metals, Inc. Method and electrolyte for producing bright gold. 2,799,633, 7-16-57, Cl. 204—43.
- Rinkewich, Isaac R. Slidable and hinged window sashes. 2,784,460, 3-12-57, Cl. 20—49.
- Rinkewich, Isaac R. Friction sliding roller device. 2,796,273, 6-18-57, Cl. 29—75.
- Rinkinen, Robert S.: *See—*
Greenlee, Paul H., and Rinkinen. 2,797,407.
- Rinn, William. Cloth stripper. 2,804,144, 8-27-57, Cl. 164—73.
- Rinshed-Mason Co.: *See—*
Oven, Gerald E. 2,793,961.
- Riondel, Pierre. Automatic combination stop mechanism. 2,801,371, 7-30-57, Cl. 317—123.
- Riordan, Hugh E., and E. J. Hayes, to the United States of America as represented by the Secretary of the Navy. Magnetic damper. 2,802,122, 8-6-57, Cl. 310—93.
- Ripley, Edward P. Method for fabricating concrete slabs. 2,783,522, 3-5-57, Cl. 25—155.
- Ripley, Stanley H. Fish killing tool. 2,817,110, 12-24-57, Cl. 17—7.
- Ripon Knitting Works: *See—*
Norman, William N. 2,777,216.
- Ripperdan, Ora B. Longitudinally adjustable fishing leader holder. 2,804,717, 9-3-57, Cl. 43—57.5.
- Rippingille, Edward V., to General Motors Corp. Heat exchangers. 2,782,009, 2-19-57, Cl. 257—245.
- Rippingille, Edward V., to General Motors Corp. Fluid pump. 2,810,347, 10-22-57, Cl. 103—44.
- Ripple, Melvin H., to The Hoover Co. Self propelled suction cleaner. 2,814,063, 11-26-57, Cl. 15—319.
- Ri-Ri Werke A. G.: *See—*
Zbinden, Johann. 2,814,847.
- Risacher, Gerard H., and H. P. Allen, to Westinghouse Electric Corp. Thermal cycling switch. 2,813,173, 11-12-57, Cl. 200—122.
- Risch, Theodore A., and H. B. King, to General Dynamics Corp. Welding method and consumable weld insert therefor. 2,792,490, 5-14-57, Cl. 219—137.
- Risdon Mfg. Co., The: *See—*
Dayton, Arthur B., Jr. 2,817,930.
- Risewick, John F. Tire vulcanizing mold. 2,778,061, 1-22-57, Cl. 18—18.
- Rishell, George L., to Sylvania Electric Products Inc. Diode plate construction. 2,811,662, 10-29-57, Cl. 313—261.
- Risher, John D., and R. S. Martin. Wrist positioner. 2,794,638, 6-4-57, Cl. 273—54.
- Rising, Rachel L. Coin box-billfold. 2,789,612, 4-23-57, Cl. 150—35.
- Risk, Norman E.: *See—*
McCarthy, John H., and Risk. 2,782,656.
- Risk, Norman E., to Caterpillar Tractor Co. Tandem pusher attachment for tractors. 2,784,508, 3-12-57, Cl. 37—144.
- Riske, Gilbert: *See—*
Lansky, Zdenek J., and Riske. 2,783,946.
Lansky, Zdenek J., and Riske. 2,801,642.
- Risley, Douglas S. Smoke hood with filter unit for cooking stove. 2,794,514, 6-4-57, Cl. 183—37.
- Risley, Roger E.: *See—*
Newell, Frederick T., and Risley. 2,784,991.
Newell, Frederick T., and Risley. 2,790,655.
- Risley, Roger E., to Dresser Industries, Inc. Sealed pipe coupling with constrictible wedge bushing. 2,779,610, 1-29-57, Cl. 285—323.
- Risley, Roger E., to Dresser Industries, Inc. Method of installing fittings upon submerged pipe. 2,787,051, 4-2-57, Cl. 29—401.
- Risley, Roger E., and G. D. Kish, to Dresser Industries, Inc. Externally packed sleeve type pipe coupling. 2,785,912, 3-19-57, Cl. 285—337.
- Risley, Roger E., and H. L. Hoke, to Dresser Industries, Inc. Insulated saddle type pipe fitting. 2,790,652, 4-30-57, Cl. 285—47.
- Risley, Roger E., and G. D. Kish, to Dresser Industries, Inc. Flexible concrete pipe joint. 2,792,240, 5-14-57, Cl. 285—230.
- Risse, Ralph F., to Goodman Mfg. Co. Mechanical miner having a collapsible mining head. 2,801,836, 8-6-57, Cl. 262—7.
- Risser, Jacob R. Tapered electromagnetic horn. 2,791,770, 5-7-57, Cl. 343—786.
- Rissler, Lennius R., to Westinghouse Electric Corp. Multiple door structure. 2,791,808, 5-14-57, Cl. 20—19.
- Ritch, George L. Stock watering tank with built-in heating means. 2,788,783, 4-16-57, Cl. 126—374.
- Ritchey, Louis G., and R. J. Rotary electric shaver. 2,795,042, 6-11-57, Cl. 30—43.
- Ritchey, Orral W.: *See—*
Maynard, John E., and Ritchey. 2,808,474.
- Ritchey, Ronald J.: *See—*
Ritchey, Louis G., and R. J. 2,795,042.
- Ritchie, Coy D., to Matlin's Nursery. Tractor powered rotary cultivator. 2,804,813, 9-3-57, Cl. 97—35.
- Ritchie, Frank P.: *See—*
Burner, Mary K., and Ritchie. 2,801,632.
- Ritchie, Gene L., to United States Rubber Co. Cable making machine. 2,802,323, 8-13-57, Cl. 57—13.
- Rite Hardware Co., Inc.: *See—*
Dickey, Stanley W. 2,776,495.
- Ritenour, Gerald, to The Richardson Co. Apparatus for guiding packaging straps. 2,780,986, 2-12-57, Cl. 100—25.
- Ritholz, Dr., & Sons Co.: *See—*
Hornstein, Joseph J. 2,809,556.
- Ritson, Daniel D., to American Cyanamid Co. Starch-clay coating colors. 2,804,436, 8-27-57, Cl. 260—17.4.
- Rittenhouse, Howard E., and S. Hinds, 1/2 to Tokheim Corp., and 1/2 to Bowser, Inc. Tank filling apparatus. 2,816,567, 12-17-57, Cl. 137—393.
- Ritter Co., Inc.: *See—*
Lauterbach, Norman E. 2,785,737.
Lauterbach, Norman E. 2,810,196.
Ries, Edward J., and Christians. 2,780,277.
- Ritter, George D. Electrical contact brush. 2,813,208, 11-12-57, Cl. 310—247.
- Ritter, Harold N. Potato cutting press. 2,813,335, 11-19-57, Cl. 30—303.
- Ritter, Heinrich, to Cassella Farbwerke Mainkur Aktiengesellschaft. Reaction of decacyclene with sulfur chloride and sulfur and products obtained thereby. 2,806,021, 9-10-57, Cl. 260—139.
- Ritter, Jack F., and F. R. Shuman, to Sun Oil Co. Partial oxidation of hydrocarbons. 2,808,422, 10-1-57, Cl. 260—451.
- Ritter, John J., and E. J. Kenney. Production of esters of substituted allyl alcohols. 2,798,088, 7-2-57, Cl. 260—491.
- Ritter, Julius P., Jr. and T. A. Water vehicle. 2,814,811, 12-3-57, Cl. 9—21.
- Ritter, Lawrence: *See—*
Reed, Charles C., Ritter, Valentine, and Chu Yen. 2,776,220.
Weidenheimer, Joseph F., Ritter, and Richter. 2,783,245.
- Ritter, Lawrence, to American Cyanamid Co. Acid stabilized tetracycline salts. 2,803,657, 8-20-57, Cl. 260—559.
- Ritter, Ralph K.: *See—*
Kelemen, Frank K., and Ritter. 2,796,513.

- Ritter, Robert P., to Cutter Laboratories, Inc. Solution applicator tube. 2,782,784, 2-26-57, Cl. 128-232.
- Ritter, Thomas A.: *See*—
- Ritter, Julius P., Jr. and T. A. 2,814,811.
- Rittmuelier, Emil H., to Advance Lithographing Co. Carton for cakes or the like. 2,805,813, 9-10-57, Cl. 229-52.
- Rittner, Edmund S., F. E. Grace, S. Fine, and G. A. Beutel, to North American Philips Co., Inc. Electron switching device. 2,803,779, 8-20-57, Cl. 315-10.
- Ritz, Joseph W.: *See*—
- Gehrke, Forrest E., Hughes, and Ritz. 2,793,277.
- Ritzerfeld, Gerhard: *See*—
- Ritzerfeld, Wilhelm and G. 2,778,300.
- Ritzerfeld, Wilhelm, and G. 2,795,419.
- Ritzerfeld, Wilhelm and G. 2,796,828.
- Ritzerfeld, Wilhelm, and G. 2,815,711.
- Ritzerfeld, Wilhelm and G. Duplicating machine housing structure. 2,778,300, 1-22-57, Cl. 101-132.5.
- Ritzerfeld, Wilhelm, and G. Sheet feeding device. 2,795,419, 6-11-57, Cl. 271-19.
- Ritzerfeld, Wilhelm and G. Rotary duplicators. 2,796,828, 6-25-57, Cl. 101-91.
- Ritzerfeld, Wilhelm, and G. Apparatus for selective intermittent printing. 2,815,711, 12-10-57, Cl. 101-91.
- Rival Mfg. Co.: *See*—
- Grant, Albert E. 2,806,280.
- Rivas, Carlos C. Swimming pool chlorinator. 2,808,934, 10-8-57, Cl. 210-135.
- Rively, Clair M.: *See*—
- Korbelak, Alexander, and Rively. 2,784,154.
- Rively, Clair M., to Westinghouse Electric Corp. Photo-flash lamp. 2,811,846, 11-5-57, Cl. 67-31.
- Rivenburgh, John G.: *See*—
- Berger, Sol J., and Rivenburgh. 2,791,049.
- Berger, Sol J., and Rivenburgh. 2,798,324.
- River Basin Paper Co.: *See*—
- Fischer, John P. 2,811,295.
- Long, Edwin L. 2,811,296.
- Stotz, Elmer W. 2,803,336.
- Rivers, Joseph T., Jr., to E. I. du Pont de Nemours and Co. Yarn processing. 2,791,274, 5-7-57, Cl. 164-48.
- Rivers, Richard D., to American Air Filter Co., Inc. Method and apparatus for filtering air. 2,807,330, 9-24-57, Cl. 183-62.
- Rivers, Russell C., to Riley Stoker Corp. Traveling grate stoker. 2,804,834, 9-3-57, Cl. 110-40.
- Riverside Mfg. and Electrical Supply Co.: *See*—
- Schrotter, Jerome H., and Duncan. 2,800,560.
- Rives, Frank M., M. G. Berigan, C. J. Godwin, E. W. Siegel, and T. W. Zebley, to General Electric Co. Component carrier. 2,815,869, 12-10-57, Cl. 214-1.
- Rivington, Arthur A.: *See*—
- Quick, Alfred S., and Rivington. 2,806,232.
- Rivoche, Eugene J. Process for preparing food. 2,783,154, 2-26-57, Cl. 99-131.
- Rivoche, Eugene J. Food process. 2,786,763, 3-26-57, Cl. 99-131.
- Rivoche, Eugene J. Nutrient food products and process of producing same. 2,786,764, 3-26-57, Cl. 99-131.
- Rivoche, Eugene J. Food products and method of making the same. 2,791,508, 5-7-57, Cl. 99-131.
- Rivoche, Eugene J. Apparatus for forming dough. 2,793,598, 5-28-57, Cl. 107-14.
- Rivoche, Eugene J. Frozen food patties and method of preparing same. 2,798,814, 7-9-57, Cl. 99-192.
- Rivoche, Eugene J. Food processing apparatus and method. 2,813,030, 11-12-57, Cl. 99-131.
- Rixton, Frederick H., to Westinghouse Electric Corp. Ultraviolet lamp. 2,777,091, 1-8-57, Cl. 315-48.
- Rizor, William P. Clogged sewer and drain cleaner. 2,797,423, 7-2-57, Cl. 15-104.3.
- Rizzo, Joseph: *See*—
- Thompson, Earl E. 2,791,005.
- Rizzo, Joseph W., to Chempatents, Inc. Fatty alcohol esters. 2,801,934, 8-6-57, Cl. 106-220.
- Roach, Charles J.: *See*—
- Andren, Karl H., and Roach. 2,786,569.
- Roach, Charles J., to Western Electric Co., Inc. Device for feeding insulator cards. 2,784,966, 3-12-57, Cl. 271-41.
- Roach, Jack F., to Hughes Aircraft Co. Method of and apparatus for measuring peak inverse voltage. 2,802,177, 8-6-57, Cl. 324-57.
- Roach, James E., to E. L. Kline. Method for cleaning paint spray guns and the like. 2,786,000, 3-19-57, Cl. 134-21.
- Roach, James R.: *See*—
- Dilworth, John P. and Roach. 2,791,560.
- Roach, Marshall L.: *See*—
- Klumb, George H., Schulze, Roach, and Sailsbury. 2,781,312.
- Roach, Stanley G. Auxiliary actuating attachment for vehicle brake system. 2,773,455, 1-22-57, Cl. 188-106.
- Road, Richard A., to Duncan Electric Co., Inc. Interchangeable terminal construction for meters. 2,805,403, 9-3-57, Cl. 339-31.
- Road, Richard A., and O. K. Coleman, to Duncan Electric Co., Inc. Meters and connection facilities therefor. 2,788,472, 4-9-57, Cl. 317-107.
- Roan, Henry A. Variable valve timing control. 2,804,864, 9-3-57, Cl. 123-90.
- Roano, Alessandro, to Sira Societa Italiana Roano Alessandro Soc. p. Az. Reversible gears having helicoidal teeth and parallel axes. 2,789,442, 4-23-57, Cl. 74-466.
- Robal Mfg. Corp.: *See*—
- Riddle, Allan G. 2,811,917.
- Robb, Alexander L.: *See*—
- Hodges, William C., and Robb. 2,779,958.
- Robb, DeLoss H., to American Air Filter Co., Inc. Automatic stack type filter. 2,776,023, 1-1-57, Cl. 183-52.
- Robb, Frank B.: *See*—
- Robb, John F. 2,777,680.
- Robb, Howard. Steam heated patching means for automotive tire casings. 2,797,438, 7-2-57, Cl. 18-18.
- Robb, John F., to J. W. and F. B. Robb, as trustees. Machine for removing floor coverings. 2,777,680, 1-15-57, Cl. 262-9.
- Robb, John W.: *See*—
- Robb, John F. 2,777,680.
- Robb, Walter Y., to Crompton & Knowles Loom Works. Selvage shuttle. 2,785,703, 3-19-57, Cl. 139-197.
- Robb, Walter Y., to Crompton & Knowles Loom Works. Support for Axminster tube frame. 2,798,511, 7-9-57, Cl. 139-10.
- Robb, Walter Y., and H. L. Blanchard, to Crompton & Knowles Loom Works. Machine for producing tufted fabrics. 2,809,600, 10-15-57, Cl. 112-79.
- Robbatt, Edward. Stabilization of cellulosic fabrics by applying alkyl silicon halide vapors. 2,782,090, 2-19-57, Cl. 8-116.
- Robbenhaar, Johannes G.: *See*—
- Netelenbos, Willem J., Otger, and Robbenhaar. 2,781,627.
- Robbins, Albert A., 10% to P. Subkow. Method of preserving potatoes. 2,790,717, 4-30-57, Cl. 99-154.
- Robbins, Bruce D. 2,782,569.
- West, George L. 2,781,542.
- Wintgens, Carl. 2,780,035.
- Robbins, Bruce D., to Pittsburgh Glass Co. Corner grinding mechanism and method. 2,782,569, 2-26-57, Cl. 51-101.
- Robbins, Clyde F.: *See*—
- Emley, Philip W., and Robbins. 2,814,009.
- Norden, William F., and Robbins. 2,803,716.
- Robbins, Daniel H.: *See*—
- Rossetto, Louis, Squassoni, Rice, and Robbins. 2,816,609.
- Robbins, Davis. Drilling apparatus. 2,781,185, 2-12-57, Cl. 255-51.
- Robbins, Edgar C.: *See*—
- Schweller, Edmund F., and Robbins. 2,785,538.
- Simmons, Edward C., and Robbins. 2,785,539.
- Robbins, Frank E.: *See*—
- Paddock, Richard K., and Robbins. 2,786,755.
- Robbins, James S., to Goodman Mfg. Co. Continuous mining machine having an angularly adjustable cutter head. 2,808,249, 10-1-57, Cl. 262-7.
- Robbins, James S., to Goodman Mfg. Co. Tunneling machine rotary head having shearing blades on oppositely rotating head portions. 2,811,341, 10-29-57, Cl. 262-7.
- Robbins, James S., and C. A. Wilms, to Goodman Mfg. Co. Mining machine with collapsible cutter head. 2,776,125, 1-1-57, Cl. 262-7.
- Robbins, Joseph, W. A. Smart, and F. R. Smith, to United Shoe Machinery Corp. Counter skiving machines. 2,814,485, 11-26-57, Cl. 271-1.
- Robbins, Joseph J., B. Grable, H. I. Horowitz, and M. Schuh. Food making machine. 2,786,430, 3-26-57, Cl. 107-58.
- Robbins, Lloyd W., and A. P. Smith, to Denco Machine Products. Sine plate. 2,816,489, 12-17-57, Cl. 90-59.
- Robbins & Myers, Inc.: *See*—
- Bourke, John D. 2,796,029.
- Chang, Sheldon S. L. 2,784,362.
- Hagerman, Gilbert H. 2,803,332.
- Robbins, Robert J. Safety light for trailers, trucks, and the like. 2,804,539, 8-27-57, Cl. 240-7.1.
- Robbins, Thomas J. Fish-stringer clamp. 2,815,555, 12-10-57, Cl. 24-248.
- Robbins Tire and Rubber Co., Inc.: *See*—
- White, Eldridge S. 2,791,805.
- Robboy, Nathan. Tension reel for lighting fixture. 2,794,607, 6-4-57, Cl. 242-107.3.
- Robe, Robert S.: *See*—
- Sindl, Otto H. 2,805,176.
- Robeck, Peter H., to Motorola, Inc. Inter-communication system. 2,814,672, 11-26-57, Cl. 179-1.
- Robell, John, to Guggenheim Brothers (1949). Method of producing hydrazine. 2,779,660, 1-29-57, Cl. 23-190.
- Robell, John, to Guggenheim Brothers (1949). Process for producing hydrazine. 2,779,661, 1-29-57, Cl. 23-190.
- Robell, Paulo R., to No-Sag Spring Co. Spring mattresses, cushions, seats and similar articles. 2,798,233, 7-9-57, Cl. 5-351.
- Roben, Edward C. J., 50% to M. B. Jones. Automatic fish feeder for aquariums. 2,808,808, 10-8-57, Cl. 119-51.
- Roberge, Edmond E., to H. L. Burkitt. Body orificalscopes. 2,793,639, 5-28-57, Cl. 128-6.

- Roberge, Joseph L., to Kanmak Textiles, Inc. Shuttle guard attachment. 2,784,744, 3-12-57, Cl. 139-193.
- Roberson, Walter B.: *See*—
Hatch, Raymond S., and Roberson. 2,791,512.
- Roberson, Walter H. Slide-operating screw having a non-rotatable nut lockable in slid position by initial rotation of screw. 2,794,356, 6-4-57, Cl. 81-31.
- Robert, André: *See*—
Ortusi, Jean, and Robert. 2,789,285.
- Robert, Beatrice M.: *See*—
Barrow, Norman, Robert, and Edwards. 2,788,394.
- Robert, Jacques G.: *See*—
Jacob, Robert M., and Robert. 2,785,160.
Jacob, Robert M., Robert, and Liakhoff. 2,816,893.
- Robert, Jean: *See*—
Gailliot, Paul, and Robert. 2,811,520.
- Robert, John: *See*—
Beckman, George, and Robert. 2,781,818.
- Robert, John, and G. Beckman, to Globe Roofing Products Co., Inc. Apparatus for graining flat asphaltic preset materials and the like. 2,803,040, 8-20-57, Cl. 18-10.
- Robert, Roger A. Device for attaching auxiliary rockets to a flying machine. 2,776,622, 1-8-57, Cl. 102-49.
- Robert, Roger A., and P. P. Matge; said Matge assor. to said Robert. Apparatus for releasing rocket-bombs from an aircraft. 2,803,168, 8-20-57, Cl. 89-1.7.
- Robert, Roger A., and P. P. Matge. Magazine for releasable loads. 2,807,193, 9-24-57, Cl. 89-1.5.
- Robert, Roger A. and P. Matge. Rocket-projectile supporting device. 2,811,900, 1-5-57, Cl. 89-1.7.
- Roberts, A. Boake, and Co. Ltd.: *See*—
Scully, Bernard T. D. 2,789,119.
- Roberts, Albert. Potentiometer or the like. 2,785,261, 3-12-57, Cl. 201-48.
- Roberts, Alonza G.: *See*—
Thomas, James G., and Roberts. 2,781,712.
- Roberts, Arlan G.: *See*—
Keil, Harvard L., Harriman, and Roberts. 2,805,186.
- Roberts, Bruce, to The International Electronics Co. Magnetic recording system. 2,783,048, 2-26-57, Cl. 274-4.
- Roberts, Bruce, to The American Specialty Co. Hose coupling with spring detent on rotatable collar. 2,784,011, 3-5-57, Cl. 285-308.
- Roberts, Bruce, to Upson Development Corp. Fish lure. 2,806,318, 9-17-57, Cl. 43-35.
- Roberts, Bruce, to The International Electronics Co. Magnetic recording. 2,812,948, 11-12-57, Cl. 274-4.
- Roberts, Charles B. Stopper for ampoules and the like. 2,783,909, 3-5-57, Cl. 215-74.
- Roberts, Charles B. Stopper for ampoules and the like. 2,797,837, 7-2-57, Cl. 215-74.
- Roberts, Charles E.: *See*—
King, Gilbert, Roberts, and Weil. 2,777,034.
- Roberts, Charles G.: *See*—
Edwards, Thomas C., and Roberts. 2,795,240.
- Roberts, Clarence F., 50% to L. F. Schrieffer. Air cooled hand grip. 2,815,679, 12-10-57, Cl. 74-551.9.
- Roberts, Deering S. Machine for marking defective tiles in a sheet and for removing the tiles from the sheet. 2,815,844, 12-10-57, Cl. 198-31.
- Roberts, Earl J., to the United States of America as represented by the Secretary of Agriculture. Process of esterifying alkaline earth aconitates. 2,813,117, 11-12-57, Cl. 260-485.
- Roberts, Edward. Fur-floor covering. 2,776,233, 1-1-57, Cl. 154-49.
- Roberts, Edward H., to General Electric Co. Liquid cooler for refrigerating apparatus. 2,781,153, 2-12-57, Cl. 222-183.
- Roberts, Edward S., and S. Strelzoff, to Chemical Construction Corp. Method of continuously conducting a liquid-gas exothermic reaction. 2,787,521, 4-2-57, Cl. 23-63.
- Roberts, Elliott J., to Dorr-Oliver Inc. Electrolytic desalting of saline solutions. 2,796,395, 6-18-57, Cl. 204-151.
- Roberts, Elliott J., to Dorr-Oliver Inc. Purification of solutions by ionic transfer. 2,799,638, 7-16-57, Cl. 204-151.
- Roberts, Ervin E. Structural unit. 2,802,551, 8-13-57, Cl. 189-34.
- Roberts, Eugene A.: *See*—
Buddenhagen, Frederick E., and Roberts. 2,808,867.
- Roberts, Franklin B.: *See*—
Cornock, Edward F., Roberts, and Lyon. 2,810,246.
- Roberts, Fred T. Method and apparatus for making a molded flexible hose. 2,789,273, 2-5-57, Cl. 154-5.
- Roberts, Fred T. and R. E. Method of making hose. 2,779,976, 2-5-57, Cl. 18-56.
- Roberts, Fred T. and R. E. Method of making flexible corrugated hose. 2,780,274, 2-5-57, Cl. 154-8.
- Roberts, Fred T. and R. E. Hose clamp. 2,817,129, 12-24-57, Cl. 24-27.
- Roberts, Fred T. and R. E. Hose clamp. 2,817,130, 12-24-57, Cl. 24-27.
- Roberts, Frederick W., and L. R. Jones, to Dictaphone Corp. Control apparatus for remote dictation systems. 2,791,639, 5-7-57, Cl. 179-100.1.
- Roberts, Fredrick C. Fog nozzle. 2,813,753, 11-19-57, Cl. 299-110.
- Roberts, George A., to Vanadian-Alloys Steel Co. Wear-resistant ferrous alloys. 2,781,259, 2-12-57, Cl. 75-126.
- Roberts, George I., to Bendix Aviation Corp. Method and means of making stator coil end turns. 2,810,848, 10-22-57, Cl. 310-260.
- Roberts, George I., and J. E. Bevins, to Bendix Aviation Corp. Bomb fuze. 2,778,311, 1-22-57, Cl. 102-81.2.
- Roberts, George R., and E. J. Lister, to Bowaters Development and Research Ltd. Winding mandrel with suction means. 2,779,547, 1-29-57, Cl. 242-74.
- Roberts, George R., and R. T. Heathcote, to Bowaters Development and Research Ltd. Coating of webs in web feeding machines. 2,785,652, 3-19-57, Cl. 118-247.
- Roberts, George W.: *See*—
Brissey, Ruben M., Jr., and Roberts. 2,803,056.
- Roberts-Gordon Appliance Corp.: *See*—
Huyck, Robert T. 2,815,768.
Huyck, Robert T. 2,815,769.
- Roberts, Hayden, and W. F. Hower, to Halliburton Oil Well Cementing Co. Method and composition for sealing earth formation. 2,800,963, 7-30-57, Cl. 166-22.
- Roberts, Herbert L. Sharpening device. 2,778,249, 1-22-57, Cl. 76-89.
- Roberts, Ingham S., to American Viscose Corp. Liquid treating apparatus. 2,780,933, 2-12-57, Cl. 68-244.
- Roberts, Irving. Method of gasifying solid fuel. 2,782,109, 2-19-57, Cl. 48-206.
- Roberts, J. W., Ltd.: *See*—
Dolbey, Norman L., and Hooper. 2,788,053.
- Roberts, Joel M. Means for loading and unloading highway trucks onto and off of railroad cars. 2,783,900, 3-5-57, Cl. 214-38.
- Roberts, John A.: *See*—
Kiser, Jackson S., and Roberts. 2,806,789.
Merrill, J. Carter, and Roberts. 2,792,208.
- Roberts, John A., to General Electric Co. Method of manufacturing rectifier plates in multiple. 2,784,479, 3-12-57, Cl. 29-25.3.
- Roberts, John A., to General Electric Co. Electrical vapor detector. 2,795,716, 6-11-57, Cl. 313-7.
- Roberts, John E. Combination garden tools. 2,787,491, 4-2-57, Cl. 294-51.
- Roberts, John G., to G. C. Singer. Safety razor and guard means therefor. 2,817,146, 12-24-57, Cl. 30-73.
- Roberts, John S., III. Precipitation hardenable copper, nickel, aluminum, zirconium alloys. 2,810,641, 10-22-57, Cl. 75-159.
- Roberts, Kenneth S., to Container Corp. of America. Portable frozen food display cabinet. 2,786,339, 3-26-57, Cl. 62-89.5.
- Roberts, Lawrence M., to Research-Cottrell, Inc. Combined electrostatic and magnetic separator. 2,786,575, 3-26-57, Cl. 209-127.
- Roberts, Lawrence M., to Research Corp. Electrostatic precipitator. 2,800,192, 7-23-57, Cl. 183-7.
- Roberts, Leonard C., to Paulding Machine & Tool Co. Apparatus for making saws. 2,802,378, 8-13-57, Cl. 76-25.
- Roberts Mfg.: *See*—
Hill, Harvey J. 2,818,179.
- Roberts Numbering Machine Co. The: *See*—
Loushay, David E. 2,801,583.
- Roberts, Paul L. Convertible truck body. 2,784,854, 3-12-57, Cl. 214-83.36.
- Roberts, Richard B., to the United States of America as represented by the Secretary of the Navy. Safety delay circuit. 2,809,586, 10-15-57, Cl. 102-70.2.
- Roberts, Robert E.: *See*—
Roberts, Fred T. and R. E. 2,779,976.
Roberts, Fred T. and R. E. 2,780,274.
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Roberts, Fred T. and R. E. 2,817,130.
- Roberts, Robert E. Method and apparatus for making corrugated flexible hose. 2,813,573, 11-19-57, Cl. 154-7.
- Roberts, Robert W. and V. G. Combination cake plate and cooler for tube cakes. 2,777,308, 1-15-57, Cl. 65-61.
- Roberts, Roland R., to Farrell-Birmingham Co., Inc. Work table for boring mills and the like. 2,783,687, 3-5-57, Cl. 90-58.
- Roberts, Roland W.: *See*—
Collins, Howard W., Roberts, and Dunnet. 2,807,006.
- Roberts, Roland W., to Westinghouse Electric Corp. Amplifiers. 2,795,752, 6-11-57, Cl. 321-2.
- Roberts, Stanley, to Bell Telephone Laboratories, Inc. Total calls registration arrangement for telephone systems. 2,790,850, 4-30-57, Cl. 179-10.
- Roberts, Vivian G.: *See*—
Roberts, Robert W. and V. G. 2,777,308.
- Roberts, Walter van B.: *See*—
George, Ralph W., and Roberts. 2,810,888.
- Roberts, Walter van B., to the United States of America. Tracking system. 2,817,081, 12-17-57, Cl. 343-9.
- Roberts, Walter van B., and R. W. George, to Radio Corp. of America. Termination of mechanical vibratory systems. 2,800,633, 7-23-57, Cl. 333-71.

- Roberts, William D., to Ryman Engineering Co. Apparatus for grinding internal surfaces. 2,798,340, 7-9-57, Cl. 51-142.
- Roberts, William E., and W. P. Rountree; said Rountree assor. to said Roberts. Sailing craft multiple hull arrangement. 2,781,735, Cl. 114-61.
- Robertshaw-Fulton Controls Co.: See—
- Arden, Thomas T., and Jackson. 2,806,652.
- Branson, Charles D. 2,810,523.
- Briggs, Philip H. 2,782,363.
- Caparone, Michael J. 2,800,544.
- Daly, James U. 2,806,654.
- Davidson, Thomas J. 2,778,416.
- Demi, Roy C., and Wantz. 2,810,435.
- Fielden, John E. 2,778,711.
- Garner, Russell F. 2,783,334.
- Garner, Russell F. 2,786,990.
- Hasemann, John L. and R. J. 2,796,101.
- Kunzler, William S. 2,783,332.
- Morgan, David L. 2,778,573.
- Puster, Louis M. 2,810,524.
- Strobel, Charles K., and Conner. 2,806,655.
- Weber, Victor, and Garner. 2,800,283.
- Weber, Victor, and Garner. 2,800,284.
- Weber, Victor, Tyler, and Russell. 2,786,930.
- Witherspoon, Jack, Jr. 2,783,333.
- Robertson, Alexander F.: See—
- Shepard, Ward, Jr., Serrell, Beyer, and Robertson. 2,793,321.
- Robertson, Alice O., and D. N., and K. P. Link, to Wisconsin Alumni Research Foundation. 3-substituted-aminomethyl-4-hydroxy-6-substituted-coumarins. 2,779,762, 1-29-57, Cl. 260-247.7.
- Robertson, Alice O., and D. N., and K. P. Link, to Wisconsin Alumni Research Foundation. 3-(hydroxy lower alkyl)-aminomethyl-4-hydroxycoumarin compounds. 2,779,768, 1-29-57, Cl. 260-343.2.
- Robertson, Andrew, to E. I. du Pont de Nemours and Co. Xanthation process. 2,801,998, 8-6-57, Cl. 260-216.
- Robertson Brothers, Inc.: See—
- Robertson, George L. 2,796,256.
- Robertson, Dale N.: See—
- Robertson, Alice O. and D. N., and Link. 2,779,762.
- Robertson, Alice O. and D. N., and Link. 2,779,768.
- Robertson, Earl M.: See—
- Murray, Alexander, and Robertson. 2,787,543.
- Robertson, Earl M., and C. C. Unruh, to Eastman Kodak Co. Photographic reproduction process using light sensitive polymeric stilbazoles and quaternary salts thereof. 2,811,443, 10-29-57, Cl. 96-35.
- Robertson, George H., to Bell Telephone Laboratories, Inc. Modulated electron discharge device. 2,798,203, 7-2-57, Cl. 332-51.
- Robertson, George H., to Bell Telephone Laboratories, Inc. Electron discharge devices. 2,801,358, 7-30-57, Cl. 315-3.5.
- Robertson, George H., to Bell telephone Laboratories, Inc. Electron discharge devices. 2,808,533, 10-1-57, Cl. 315-3.5.
- Robertson, George H., to Bell Telephone Laboratories, Inc. Helix assembly for traveling wave tube. 2,812,499, 11-5-57, Cl. 333-31.
- Robertson, George H., to Bell Telephone Laboratories, Inc. Electron beam discharge device. 2,813,990, 11-19-57, Cl. 313-85.
- Robertson, George H., and E. J. Walsh, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,801,360, 7-30-57, Cl. 315-3.5.
- Robertson, George H., and E. J. Walsh, to Bell Telephone Laboratories, Inc. Electron discharge devices. 2,808,169, 9-10-57, Cl. 315-3.5.
- Robertson, George L., to Robertson Brothers, Inc. Transfer device with spring jaws for gripping sheet material. 2,796,256, 6-18-57, Cl. 271-11.
- Robertson, Gordon H.: See—
- Beal, Dick H., Pomeroy, Robertson, and Zinn. 2,789,267.
- Robertson, H. H., Co.: See—
- Fleischauer, Fred J. 2,789,530.
- Fleischauer, Fred J. 2,812,739.
- Robertson, Harold E., and B. O. Strom, to Allied Chemical & Dye Corp. Process of recovering ammonia from ammoniacal liquors. 2,781,245, 2-12-57, Cl. 23-193.
- Robertson, Harry J. Method of producing bone-free meat and poultry products. 2,799,584, 7-16-57, Cl. 99-107.
- Robertson, Ian S.: See—
- Steele, Owen S., and Robertson. 2,809,319.
- Robertson, Jackson P. Composite fitting for folding lift-type disc harrow. 2,805,534, 9-10-57, Cl. 55-30.
- Robertson, Jackson P. Turnbuckle screw device. 2,816,783, 12-17-57, Cl. 287-60.
- Robertson, James M.: See—
- Quimby, William S., and Robertson. 2,785,129.
- Robertson, James W. Plier type cap wrench with adjustable jaws. 2,811,062, 10-29-57, Cl. 81-3.44.
- Robertson, John D. Sheet material accumulating apparatus. 2,804,299, 8-27-57, Cl. 271-2.2.
- Robertson, John D., and J. L. Broomfield, said Broomfield assor. to said Robertson. Skew detecting method and apparatus. 2,795,029, 6-11-57, Cl. 26-51.4.
- Robertson, John, Jr., to Norton Co. Cup shaped grinding wheel. 2,800,754, 7-30-57, Cl. 51-209.
- Robertson, Kenneth E. Land measuring wheel. 2,806,291, 9-17-57, Cl. 33-141.
- Robertson, Melbourne L., to Gulf Oil Corp. Fluid production and storage control apparatus. 2,779,348, 1-29-57, Cl. 137-119.
- Robertson, Nat C.: See—
- Di Nardo, Albert, Gardner, and Robertson. 2,816,932.
- Gabbett, James F., Jr., and Robertson. 2,780,640.
- Gardner, James H., and Robertson. 2,780,635.
- Robertson, Nat C., to Escambia Chemical Corp. Liquid phase oxidation of a mixture of alkanes and alkenes with air. 2,780,634, 2-5-57, Cl. 260-348.5.
- Robertson, Nat C., to Escambia Chemical Corp. Purification of acrylonitrile by extractive distillation. 2,807,573, 9-24-57, Cl. 202-39.5.
- Robertson, Nat C., J. H. Gardner, and A. DiNardo, to Escambia Chemical Corp. Oxidation of saturated aliphatic hydrocarbons to ketones. 2,780,650, 2-5-57, Cl. 260-597.
- Robertson, Nat C., and J. H. Gardner, to Escambia Chemical Corp. Air oxidation of isobutylene. 2,780,654, 2-5-57, Cl. 260-635.
- Robertson, Nat C., and T. R. Steadman, to Escambia Chemical Corp. Production of α -hydroxy isobutyric and methacrylic acids and their esters. 2,811,546, 10-29-57, Cl. 260-486.
- Robertson Paper Box Co., Inc.: See—
- Tyrseck, Walter J. 2,782,979.
- Robertson, Paul M., and W. H. Hall, Jr. Adjustable navigational lights for small vessels. 2,800,575, 7-23-57, Cl. 240-7.5.
- Robertson Photo-Mechanix, Inc.: See—
- Blatherwick, Delbert T. 2,799,204.
- Robertson-Shersby-Harvie, Robert B., and L. B. Mullett. Di-electric-loaded wave-guides. 2,790,149, 4-23-57, Cl. 333-31.
- Robertson, Sloan D., to Bell Telephone Laboratories, Inc. Spatial harmonic traveling wave tube. 2,812,468, 11-5-57, Cl. 315-3.5.
- Robertson, Snell, to Swingspout Measure Co. Can-puncturing-spout device. 2,784,877, 3-12-57, Cl. 222-89.
- Robertson, Stewart: See—
- Entwistle, Donald, and Robertson. 2,783,158.
- Robertson, Theodore A. Wheeled tumbling toy. 2,794,295, 6-4-57, Cl. 46-201.
- Robertson, Thomas A., to The Firestone Tire & Rubber Co. Tire tread construction. 2,779,378, 1-29-57, Cl. 152-209.
- Robertson, Thomas H., and P. W. Cummings, Jr., to American Cyanamid Co. Process of removing impurities from fresh spun polyacrylonitrile gel filaments by directing inert gas bubbles against the filaments. 2,790,698, 4-30-57, Cl. 8-137.5.
- Robertson, William S.: See—
- Chamberlain, Eric A. C., Waters, and Robertson. 2,778,499.
- Robeson Cutlery Co., Inc.: See—
- Wingen, Heinz. 2,787,059.
- Robeson, Max O., to Celanese Corp. of America. Continuous production of trimethyloethane. 2,790,837, 4-30-57, Cl. 260-635.
- Robeson, Max O., to Celanese Corp. of America. Polyhydroxy compounds via anion-exchange resin catalyzed aldehyde condensation and subsequent hydrogenation. 2,818,443, 12-31-57, Cl. 260-635.
- Robey, Richard E. Window well cover. 2,793,688, 5-28-57, Cl. 160-104.
- Robichau, Edward E. Spring loaded guide track control assembly for double-hung windows. 2,800,687, 7-30-57, Cl. 20-52.
- Robie, Norman P., to Electro Refractories & Abrasives Corp. Abrasive bodies. 2,806,772, 9-17-57, Cl. 51-296.
- Robin, Charles D.: See—
- Fisher, Earl R., Robin, and Hurd. 2,813,397.
- Robin, Harold K. to National Research Development Corp. Synchronizing system for signal receivers. 2,816,163, 12-10-57, Cl. 178-53.
- Robin Hood Co.: See—
- Heller, Isaac. 2,790,027.
- Heller, Isaac. 2,813,373.
- Robin, Jean: See—
- Clevy, Roland, and Robin. 2,778,820.
- Clevy, Roland, and Robin. 2,801,237.
- Robin, Jean, and R. Clevy, to Societe "Rhodiacta." Continuous process and apparatus for the hydrolysis of esters in homogeneous phase and analogous reactions. 2,790,796, 4-30-57, Cl. 260-230.
- Robine, Paul, Jr.: See—
- Lambert, Walter C., and Robine. 2,796,200.
- Robins, Betty N., and F. C. Mennen. Spirally wound covering for popcorn containers. 2,815,883, 12-10-57, Cl. 220-66.
- Robins, Erford E., L. W. Lerch, and H. F. Parker, to Columbus McKinnon Chain Corp. Electric hoist motor stator mount. 2,782,331, 2-19-57, Cl. 310-258.
- Robins Industries: See—
- Simon, Edward. 2,778,420.
- Robins, Seymour. Device for alerting a motorist to vehicle speed. 2,783,730, 3-5-57, Cl. 116-63.
- Robins, Wilfred P., to The General Electric Co. Ltd. Electric oscillation generator systems. 2,783,383, 2-26-57, Cl. 250-36.
- Robinson, Albert P. Air vent. 2,802,410, 8-13-57, Cl. 98-121.

- Robinson, Alfred D.: *See*—
Thayer, Louis C., Robinson, Crane, and Lewis. 2,807,755.
- Robinson, Andrew S.: *See*—
Anderson, Jo., and Robinson. 2,785,379.
- Robinson, Art I., to Meria Tool Corp. Piston assemblies. 2,781,240, 2-12-57, Cl. 309-23.
- Robinson, Arthur A.: *See*—
Williams, Frederic C., and Robinson. 2,776,794.
- Robinson, Arthur W.: *See*—
Somers, Paul C., and Robinson. 2,790,404.
- Robinson, Bruce E.: *See*—
Bradley, Robert O., and Robinson. 2,782,793.
- Robinson, Bruce E., and R. O. Bradley, to Toledo Scale Co. Safety device for dishwashing machine. 2,786,478, 3-26-57, Cl. 134-58.
- Robinson, Charles A., to Arnold, Hoffman & Co., Inc. Purification of pyrrolidone. 2,806,856, 9-17-57, Cl. 260-326.5.
- Robinson, Charles F.: *See*—
Hall, Lawrence G., and Robinson. 2,806,956.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Mass separation. 2,782,316, 2-19-57, Cl. 250-41.9.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Supporting means for vacuum electrodes. 2,782,337, 2-19-57, Cl. 313-250.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Mass spectrometry. 2,784,317, 3-5-57, Cl. 250-41.9.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Servomotor recording system. 2,792,542, 5-14-57, Cl. 318-28.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Mass spectrometry. 2,794,126, 5-28-57, Cl. 250-41.9.
- Robinson, Charles F., to Electrodynamics Corp. Mass spectrometry. 2,795,701, 6-11-57, Cl. 250-41.9.
- Robinson, Charles F., R. V. Langmuir, W. M. Brubaker, and G. D. Perkins, to Consolidated Electrodynamics Corp. Mass spectrometry. 2,780,729, 2-5-57, Cl. 250-41.9.
- Robinson, Clarence J., to The Irvin Auger Bit Co. Flat or spade type wood boring bit. 2,782,824, 2-26-57, Cl. 145-116.
- Robinson, Claude L., to Gardner-Denver Co. Power operated tool with positively controlled power feed. 2,791,922, 5-14-57, Cl. 77-344.
- Robinson, Claude L. Heat exchanger. 2,793,710, 5-28-57, Cl. 183-26.
- Robinson Clay Product Co., The: *See*—
Anderson, Richard H. 2,816,782.
- Robinson, David, to Ormond Tool and Mfg. Co. Fastener. 2,795,829, 6-18-57, Cl. 24-81.
- Robinson, David M., to The Stanley Works. Spring adjuster for overhead doors. 2,786,231, 3-26-57, Cl. 16-197.
- Robinson, David P., and J. W. Strap wrench. 2,793,550, 5-28-57, Cl. 81-3.3.
- Robinson, Donald K. Educational device for decimal numeration. 2,804,699, 9-3-57, Cl. 35-31.
- Robinson, Donald L., to Aluminum Co. of America. Etching aluminum. 2,796,334, 6-18-57, Cl. 41-42.
- Robinson, Donald L., to Aluminum Co. of America. Aluminum etching. 2,796,335, 6-18-57, Cl. 41-42.
- Robinson, Donald L., and R. H. Herman, to Westinghouse Electric Corp. Dynamolectric machine. 2,817,026, 12-17-57, Cl. 310-88.
- Robinson, Donald R., to Tile Council of America, Inc. Method and apparatus for making tile panels. 2,781,554, 2-19-57, Cl. 18-61.
- Robinson, Edward A., deceased; M. G. Robinson, executrix, to Diamond Alkali Co. Cellulosic sheet coated with a desiccated ridged film of adhesive sodium silicate. 2,785,083, 3-12-57, Cl. 117-44.
- Robinson, Edward A., and C. W. Fuller, Jr., to Diamond Alkali Co. Method of preparing a silicate paint vehicle. 2,807,552, 9-24-57, Cl. 106-74.
- Robinson, Edward M.: *See*—
Carter, Rae S., and Robinson. 2,796,591.
- Robinson, Elbert W. Flow control and treatment of condenser cooling water make-up. 2,780,357, 2-5-57, Cl. 210-31.
- Robinson, Eleanor R. Leader for flexible materials. 2,812,937, 11-12-57, Cl. 271-2.1.
- Robinson, Frank L. Wheeled dolly. 2,805,078, 9-3-57, Cl. 280-79.1.
- Robinson, Franklin M., to Merck & Co., Inc. Cobalamine analogs and process of preparing the same. 2,796,383, 6-18-57, Cl. 195-114.
- Robinson, Frederick A., to H. S. Shaffer, Inc. Decorative member. Re. 24,411, 12-31-57, Cl. 41-13.
- Robinson, Frederick A., to H. S. Shaffer, d. b. a. Shaffer & Associates. Decorative member. 2,783,568, 3-5-57, Cl. 41-13.
- Robinson, Frederick A., and G. L. Huss, to Robinson Mfg. Inc. Method of making a composite sheet. 2,815,308, 12-3-57, Cl. 154-102.
- Robinson, George D., Jr.: *See*—
Mesh, Theodore J., and Robinson. 2,812,928.
- Robinson, George D., Jr., to Gilbert & Barker Mfg. Co. Variable-capacity rotary-vane pump. 2,811,926, 11-5-57, Cl. 103-120.
- Robinson, Gladys: *See*—
Robinson, John C. 2,809,137.
- Robinson, H. H.: *See*—
Robinson, Hugh A. 2,791,992.
- Robinson, Harold A.: *See*—
Whitby, Lawrence, and Robinson. 2,806,078.
- Robinson, Harold A., J. J. Newport and O. Osborn, to The Dow Chemical Co. Cathodic protection system and anode therefor. 2,805,198, 9-3-57, Cl. 204-197.
- Robinson, Harris A., to the United States of America as represented by the Secretary of the Air Force. Frequency control system. 2,777,064, 1-8-57, Cl. 250-36.
- Robinson, Harry F. Fabric holders. 2,776,705, 1-8-57, Cl. 155-182.
- Robinson, Harry K., and M. F. Dispensing device. 2,805,663, 9-10-57, Cl. 128-252.
- Robinson, Henry W. II.: *See*—
Mills, Gordon S., and Robinson. 2,789,108.
- Robinson, Herbert M., to Robinson Products, Inc. Low pressure indicator. 2,779,304, 1-29-57, Cl. 116-70.
- Robinson, Herbert M., to Robinson Products, Inc. Air cylinder. 2,782,765, 2-26-57, Cl. 121-38.
- Robinson, Horace M.: *See*—
Bekey, Andrew, and Robinson. 2,796,542.
- Robinson, Howard S., to Robinson Reminders, Inc. Pocket secretary. 2,815,786, 12-10-57, Cl. 150-39.
- Robinson, Hugh A., 1/2 to H. H. Robinson. Single poppet valve internal combustion engine. 2,791,992, 5-14-57, Cl. 123-79.
- Robinson, James A., to American Cyanamid Co. Adjustable orifice homogenizer. 2,817,500, 12-24-57, Cl. 259-4.
- Robinson, James M. Sliding handle leverage weighing device. 2,805,850, 9-10-57, Cl. 265-53.
- Robinson, John A., to Western Electric Co., Inc. Electrical measuring system. 2,785,378, 3-12-57, Cl. 324-101.
- Robinson, John C., deceased, by G. Robinson, administratrix, to General Electric Co. Insulating coating for magnetic sheet material and method of making the same. 2,809,137, 10-8-57, Cl. 148-6.
- Robinson, John W.: *See*—
Robinson, David P. and J. W. 2,793,550.
- Robinson, Joseph J., Jr., to Marsh Wall Products, Inc. Wall-board construction method. 2,802,498, 8-13-57, Cl. 144-309.
- Robinson, Kenneth H.: *See*—
Sage, Bruce H., and Robinson. 2,793,492.
- Robinson, Kenneth H. Turn buckle with integral levers. 2,790,658, 4-30-57, Cl. 287-60.
- Robinson, Kenneth W.: *See*—
Morton, George A., and Robinson. 2,796,533.
- Robinson, Lawrence R. Reinforced cutting tool. 2,780,858, 2-12-57, Cl. 29-105.
- Robinson, Leon H., Jr.: *See*—
Blagg, Leon, and Robinson. 2,786,977.
- Robinson, Leonard G.: *See*—
Laffan, Kenneth J., and Robinson. 2,777,150.
- Robinson, Luther. Anti-skid apparatus for vehicles. 2,780,315, 2-5-57, Cl. 188-4.
- Robinson, Luther. Anti-skid apparatus for vehicles. 2,790,514, 4-30-57, Cl. 188-4.
- Robinson, Madge G.: *See*—
Robinson, Edward A. 2,785,083.
- Robinson, Manfred J., to Smith, Kline & French Laboratories. Method of preparing acetophenetidin tablets. 2,798,838, 7-9-57, Cl. 167-82.
- Robinson, Manfred J., and E. V. Svedres, to Smith, Kline & French Laboratories. Sustained release pharmaceutical preparation. 2,805,977, 9-10-57, Cl. 167-82.
- Robinson Mfg. Inc.: *See*—
Robinson, Frederick A., and Huss. 2,815,308.
- Robinson, Mary F.: *See*—
Robinson, Harry K., and M. F. 2,805,663.
- Robinson, Norman K.: *See*—
Battle, Norman, and Robinson. 2,801,516.
- Kent, Nelson H., Robinson, and Armer. 2,786,625.
- Knott, George, and Robinson. 2,802,968.
- Robinson, Norman R., to Rolls-Royce Ltd. Turbo-machines. 2,808,228, 10-1-57, Cl. 253-77.
- Robinson, Preston, to Sprague Electric Co. Electrochemical systems. 2,786,088, 3-19-57, Cl. 136-83.
- Robinson, Preston, to Sprague Electric Co. Electrical battery. 2,788,383, 4-9-57, Cl. 136-115.
- Robinson, Preston, to Sprague Electric Co. Aluminum oxide films. 2,798,037, 7-2-57, Cl. 204-42.
- Robinson, Preston, to Sprague Electric Co. Electrolyte. 2,801,221, 7-30-57, Cl. 252-62.2.
- Robinson, Preston, to Sprague Electric Co. Method for producing deposits of metal compounds on metal. 2,805,965, 9-10-57, Cl. 117-221.
- Robinson, Preston, to Sprague Electric Co. Low power factor capacitor. 2,806,190, 9-10-57, Cl. 317-258.
- Robinson, Preston, to Sprague Electric Co. Titanate compositions. 2,812,234, 11-5-57, Cl. 23-51.
- Robinson, Preston, and H. J. St. Denis, to Sprague Electric Co. Electrical condensers. 2,793,334, 5-21-57, Cl. 317-258.
- Robinson Products, Inc.: *See*—
Robinson, Herbert M. 2,779,304.
- Robinson, Herbert M. 2,782,765.
- Robinson, Ralph O., Jr., to United States of America as represented by the Secretary of the Navy. Cylindrical notch antenna. 2,781,512, 2-12-57, Cl. 343-708.

- Robinson, Raymond B. E.: *See*—
Chisholm, Gilbert G. 2,783,887.
- Robinson Reminders, Inc.: *See*—
Robinson, Howard S. 2,815,786.
- Robinson, Richard A.: *See*—
Cusic, John W., and Robinson. 2,776,299.
Cusic, John W., and Robinson. 2,788,364.
Cusic, John W., and Robinson. 2,788,365.
Voegtli, Walter, and Robinson. 2,785,164.
- Robinson, Richard A., to G. D. Searle & Co. 3,4,5-trimethoxybenzoic acid esters of N-hydroxyalkyl hydroxyisoquinolines and derivatives thereof. 2,800,475, 7-23-57, Cl. 260-286.
- Robinson, Richard L. Tuning device for stringed instrument. 2,813,448, 11-19-57, Cl. 84-297.
- Robinson, Robert C.: *See*—
Roman, Walter G., and Robinson. 2,780,740.
- Robinson, Robert E.: *See*—
Nobis, John F., and Robinson. 2,795,624.
Nobis, John F., and Robinson. 2,795,625.
Nobis, John F., and Robinson. 2,795,626.
- Robinson, Robert M. Paving attachment for graders. 2,794,274, 6-4-57, Cl. 37-153.
- Robinson, Rowland N., to The Robinson Thread Co. Cellular synthetic fibre thread and a method of making the same. 2,815,559, 12-10-57, Cl. 28-74.
- Robinson Thread Co., The: *See*—
Robinson, Rowland N. 2,815,559.
- Robinson, Warn D.: *See*—
Cummings, Howard D., Robinson, and Sullivan. 2,790,827.
- Robinson, William H., and M. L. Sensenig, to Sperry Rand Corp. Vehicle wheel drive belts selectively controlled in response to steering. 2,778,437, 1-22-57, Cl. 180-634.
- Robinson, Wood: *See*—
Chauvin, David M., and Robinson. 2,788,397.
- Robison, Howard A. Winter sports vehicle. 2,781,200, 2-12-57, Cl. 280-1139.
- Robison, Raymond J. Paper making apparatus. 2,798,305, 7-9-57, Cl. 34-120.
- Robison, Samuel B.: *See*—
Gessler, Albert M., and Robison. 2,811,502.
- Robitschek, Paul: *See*—
Newcomer, Jack S., Robitschek, and Bean. 2,812,347.
- Robitschek, Paul, and C. T. Bean, Jr., to Hooker Electrochemical Co. Flame retardant polyester resinous compositions containing halogen. 2,779,700, 1-29-57, Cl. 154-43.
- Robitschek, Paul, and C. T. Bean, Jr., to Hooker Electrochemical Co. Flame retardant polyester resinous compositions containing halogen. 2,779,701, 1-29-57, Cl. 154-43.
- Robitschek, Paul, C. T. Bean, Jr., and J. S. Newcomer, to Hooker Electrochemical Co. Poly-halogen-containing dicarboxylic acids and anhydrides. 2,779,769, 1-29-57, Cl. 260-346.6.
- Robitschek, Paul, and C. T. Bean, Jr., to Hooker Electrochemical Co. Flame retardant polyester resinous compositions containing halogen. 2,783,215, 2-26-57, Cl. 260-45.4.
- Robitschek, Paul, and G. C. Schweiker, to Hooker Electrochemical Co. Sulfur-containing crosslinked polyester elastomers. 2,813,086, 11-12-57, Cl. 260-45.4.
- Robotron Corp.: *See*—
Rockafellow, Stuart C. 2,776,383.
Rockafellow, Stuart C. 2,806,181.
Rockafellow, Stuart C. 2,806,197.
Thomsen, Theodore R. 2,779,407.
- Robson, Frederick W., and G. L. Wiederhold, to Toledo Scale Co. Dishwashing apparatus. 2,782,792, 2-26-57, Cl. 134-58.
- Robson, Homer L., and A. C. Stoneman; said Robson assor. to Olin Mathieson Chemical Corp., said Stoneman assor. to Purex Corp., Ltd. Process for production of bleaching powder. 2,806,765, 9-17-57, Cl. 23-86.
- Robson, Ian K. M.: *See*—
Elce, Alec, Robson, and Young. 2,800,504.
Habeshaw, John, Elce, Robson, Armstrong, and Young. 2,800,505.
Millidge, Alfred F., Robson, and Elce. 2,800,506.
- Robson, James T., and H. C. Tucker, to United Cement Products Co. Method of vitreous coating non-metallic articles. 2,813,305, 11-19-57, Cl. 18-47.5.
- Robuck, Benjamin E. Device for holding a container. 2,808,285, 10-1-57, Cl. 294-29.
- Roca, Juan N. M. Advertising sign. 2,798,319, 7-9-57, Cl. 40-33.
- Rocchetti, Vittorio. Tool case with recessed bottom. 2,792,934, 5-21-57, Cl. 206-17.
- Rocchetti, Vittorio. Tool case with pivoted end members. 2,792,935, 5-21-57, Cl. 206-17.
- Rocchini, Albert G.: *See*—
Neely, Richard J., and Rocchini. 2,809,936.
- Rocchini, Albert G., to Gulf Research & Development Co. Lubricants. 2,804,430, 8-27-57, Cl. 252-33.6.
- Roch, Juan S. Textile spindle. 2,806,342, 9-17-57, Cl. 57-135.
- Rochar Electronique: *See*—
Charbonnier, Roger, and Decalion. 2,812,171.
- Roche, Arthur F.: *See*—
Barber, Earnway A., Tubbs, Nagle, and Roche. 2,797,203.
Perkins, Cyrus C., Jones, and Roche. 2,804,920.
- Roche, Clifton R. Control system for automatic transmission. 2,785,581, 3-19-57, Cl. 74-472.
- Roche, Clifton R. Automatic transmission. 2,815,684, 12-10-57, Cl. 74-645.
- Roche, Curtis H. High-speed printer apparatus. 2,787,952, 4-9-57, Cl. 101-93.
- Roche, Irvan D., to E. I. du Pont de Nemours and Co. Process for preparing resinous expanded solid. 2,805,208, 9-3-57, Cl. 260-25.
- Roche, John W. Pouring spout. 2,815,155, 12-3-57, Cl. 222-478.
- Roche, Norlin J., to Minneapolis-Honeywell Regulator Co. Differential pressure switch. 2,814,689, 11-26-57, Cl. 200-83.
- Rochelle, William P.: *See*—
Jenkins, Joe H., and Rochelle. 2,815,147.
- Rochester Mfg. Co., Inc.: *See*—
Hall, Leonard I. 2,795,955.
- Rochester, Roy M., and J. S. Beattie, to Deering Milliken Research Corp. Dyeing of textile fibers. 2,779,726, 1-29-57, Cl. 204-134.
- Rochfort, Jean D., and L. J. Fickler, to Gilfillan Bros., Inc. Overtravel mechanism for sensitive switches. 2,817,725, 12-24-57, Cl. 200-47.
- Rochon, Robert W., to Monarch Logging Co., Inc. Method and apparatus for determining hydrocarbon content of solid earth formation samples. 2,799,561, 7-16-57, Cl. 23-230.
- Rock, Albin S., to F. L. & J. C. Codman Co. Bias buff and method of making the same. 2,783,594, 3-5-57, Cl. 51-193.
- Rock, Charles M.: *See*—
Probala, Robert V., and Rock. 2,814,197.
- Rockafellow, Stuart C., to Robotron Corp. Multi function electronic timing circuit. 2,776,383, 1-1-57, Cl. 307-112.
- Rockafellow, Stuart C., to Robotron Corp. Metal detecting apparatus. 2,806,181, 9-10-57, Cl. 315-166.
- Rockafellow, Stuart C., to Robotron Corp. Power voltage regulator. 2,806,197, 9-10-57, Cl. 323-22.
- Rocker, William P., and R. W. Schwab, Jr., to Southern Spring Bed Co. Furniture. 2,815,800, 12-10-57, Cl. 155-194.
- Rocket Jet Engineering Corp.: *See*—
Gaylord, John A. 2,778,698.
Gaylord, John A. 2,802,252.
- Rockett, John F., Jr., to Columbia Broadcasting System, Inc., doing business under name of Hytron Radio & Electronics Co. Rotation retarding device for a reel carrying shaft. 2,777,545, 1-15-57, Cl. 188-164.
- Rockey, Albert E. Liquid mixing and dispensing mechanism. 2,810,555, 10-22-57, Cl. 259-44.
- Rockford Factories, Inc.: *See*—
Xanten, Elmer F. 2,800,956.
- Rockford Inventors, Inc.: *See*—
Carlson, Charles H. 2,776,140.
- Rockhill, Clement B., to Gifford-Wood Co. Automatic elevating or lowering conveyor. 2,790,567, 4-20-57, Cl. 214-95.
- Rockhill, William E., and J. Laughlin. Card selecting machine. 2,807,109, 9-24-57, Cl. 40-65.
- Rockland, Louis B., to the United States of America as represented by the Secretary of Agriculture. Preservation of walnuts. 2,816,839, 12-17-57, Cl. 99-199.
- Rockland, Louis B., E. A. Beavens, and J. C. Underwood, to the United States of America as represented by the Secretary of Agriculture. De-bittering of citrus fruits. 2,816,835, 12-17-57, Cl. 99-103.
- Rock of Ages Corp.: *See*—
White, Ezra L. Re. 24,360.
Wright, Nelson P. 2,810,990.
- Rockoff, Joseph, to The Dayton Rubber Co. Roll. 2,804,678, 9-3-57, Cl. 29-121.
- Rockola, David C., to Rock-Ola Mfg. Corp. Phonographs. 2,804,307, 8-27-57, Cl. 274-10.
- Rock-Ola Mfg. Corp.: *See*—
Rockola, David C. 2,804,307.
- Rockport Industries: *See*—
Ward, Frank T. 2,789,015.
- Rockstrom, Leonard: *See*—
Saco, Felix, and Rockstrom. 2,804,275.
- Rockwell, Chauncey L. Vacuum cleaning head utilizing multiple suction cavities. 2,785,432, 3-19-57, Cl. 15-375.
- Rockwell, Edward A. Carburetor for internal combustion engines. 2,785,966, 3-19-57, Cl. 48-184.
- Rockwell, Edward A. Fluid control valve construction. 2,787,287, 4-2-57, Cl. 137-620.
- Rockwell, Edward A. Power augmentation apparatus for hydraulic motor systems. 2,794,320, 6-4-57, Cl. 60-54.5.
- Rockwell, Glenn D. Bale-lifting assembly for vehicles. 2,790,564, 4-30-57, Cl. 214-78.
- Rockwell, Harley T. Lubricators for journal bearings. 2,807,803, 9-24-57, Cl. 308-243.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Tool adjustment for earth working machines. 2,775,831, 1-1-57, Cl. 37-144.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Differential. 2,786,367, 3-28-57, Cl. 74-713.

- Rockwell Mfg. Co. : See—
 Batchelder, George E., Thoresen, and Niesemann. 2,818,198.
 Buttke, Richard A. 2,792,036.
 Dean, George W. 2,811,928.
 Evans, Howard J. 2,818,046.
 Farrell, Thomas C. Re. 24,302.
 Hedene, Edwin E. 2,799,467.
 Johnson, Charles B., and Sarraf. 2,775,983.
 Last, Bernard, and Reiff. 2,783,063.
 Perkins, Blyde A. 2,818,384.
 Reiff, Charles C. 2,776,026.
 Scherer, George F. 2,788,015.
 Scherer, George F. 2,788,016.
 Scherer, George F. 2,788,017.
 Taylor, William S. 2,804,107.
 Thoresen, Elmar. 2,810,298.
 Rockwell Register Corp. : See—
 McGay, John B., and Clift. 2,780,911.
 Rockwell, Ronald J., to Crosley Broadcasting Corp. Cathode output bridge amplifier. 2,817,718, 12-24-57, Cl. 179—171.
 Rockwell Spring and Axle Co. : See—
 Bartell, Clarence C. 2,808,738.
 Bixby, Leo A. 2,791,912.
 Bixby, Leo A. 2,807,486.
 Bixby, Leo A. 2,814,373.
 Boughner, Lawrence G. 2,791,130.
 Boughner, Lawrence G. 2,791,131.
 Boughner, Lawrence G. 2,810,587.
 Clarke, William B., Baldassare, and Yut. 2,786,564.
 Clarke, William B., Baldassare, and Yut. 2,809,769.
 Clarke, William B., Hunter, and Santucci. 2,779,490.
 Crites, Nelson A. 2,817,390.
 Fante, Harry H., and Gonja. 2,777,476.
 Hammond, Milton B. 2,786,670.
 Hammond, Milton B., and Bowman. 2,776,255.
 Hammond, Milton B. 2,812,014.
 Herider, Elmer A., and Cumming. 2,792,873.
 Herider, Elmer A., and Cumming. 2,818,105.
 Herider, Elmer A., and Pitts. 2,777,504.
 House, Bryan B. 2,781,868.
 Keese, Beverly W. 2,776,019.
 Keese, Beverly W. 2,805,743.
 Pringle, William L. 2,802,554.
 Pringle, William L. 2,803,149.
 Rigby, Miles G., and Herider. 2,784,764.
 Saitranek, William H. 2,809,156.
 Scheel, Walter F. 2,799,248.
 Schou, Carl E. 2,791,771.
 Williams, John E. 2,776,583.
 Rocwall Co. : See—
 Arrighini, Artile, and Van Sickle. 2,789,337.
 Rodal, Ralph, to National Automatic Tool Co., Inc. Rotatable fluid conveying connection with pressure balanced seals. 2,777,702, 1-15-57, Cl. 279—20.
 Rodale Mfg. Co., Inc. : See—
 Schmier, Jacob. 2,795,767.
 Rodaway, Keith S., to Hehr Mfg. Co. Window operator. 2,795,413, 6-11-57, Cl. 268—105.
 Rodaway, Keith S., to Hehr Mfg. Co. Window operator device. 2,801,845, 8-6-57, Cl. 268—105.
 Rodbard, Simon, to Michael Reese Research Foundation. Diagnostic instrument. 2,799,270, 7-16-57, Cl. 128—205.
 Rodden, Clement J., and A. R. Eberle, to the United States Atomic Energy Commission. Method of preparing pure boric oxide. 2,789,884, 4-23-57, Cl. 23—149.
 Rodder, William, to The Aetna-Standard Engineering Co. Flying hot saw. 2,775,808, 1-1-57, Cl. 29—69.
 Roddis Plywood Corp. : See—
 Kopeila, Leonard A. 2,797,450.
 Roddy, Thomas C., Jr. : See—
 Kluge, Herman D., and Roddy. 2,796,402.
 Roddy, Thomas C., Jr. Flame spectrochemical analysis of body fluids and compositions for use therewith. 2,811,891, 11-5-57, Cl. 88—14.
 Rode, Fred J., to Niagara Machine & Tool Works. Pressure control for power presses. 2,781,883, 2-19-57, Cl. 192—150.
 Rode, Neva, $\frac{1}{4}$ to J. Armiger, $\frac{1}{4}$ to Merrill Field, and $\frac{1}{4}$ to Milford Field. Bedpan cushion. 2,817,093, 12-24-57, Cl. 4—113.
 Rodel, Albert. Food slicing apparatus having blades in horizontal plane. 2,792,041, 5-14-57, Cl. 146—151.
 Rodemann, Emmett P., to Kollsman Instrument Corp. Synchronous motor. 2,784,331, 3-5-57, Cl. 310—162.
 Roden, Philip, and L. P. Marks, to Romar Filter Corp. Filter and septum. 2,804,978, 9-3-57, Cl. 210—493.
 Roden, William S. : See—
 Hagood, Thomas D., and Roden. 2,781,989.
 Rodenacker, Wolf, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for continuous removal of volatile materials from liquids. 2,782,843, 2-26-57, Cl. 159—11.
 Rodenbaugh, Edwin M., and F. W. Boyles, to Produx, Inc. Interlocking siding. 2,782,888, 2-26-57, Cl. 189—86.
 Rodenberg, Ernest, Sr. : See—
 Hartmeister, Joel T., and Rodenberg. 2,787,324.
 Roder, Albert, to Nsu Werke Aktiengesellschaft. Camshaft drive for high speed internal combustion engines. 2,779,321, 1-29-57, Cl. 123—90.
 Roder, Albert, to Nsu Werke Aktiengesellschaft. Gearing for a two-wheeled vehicle. 2,784,709, 3-12-57, Cl. 123—185.
 Rodgers, Claude M. : See—
 Macy, John M., Rodgers, and Gilmore. 2,778,404.
 Rodgers, George V., to Bendix Aviation Corp. Indicator arrangement for radio echo system. 2,815,505, 12-3-57, Cl. 343—11.
 Rodgers, Marcus D. : See—
 Baumann, Frank J., and Rodgers. 2,776,098.
 Rodgers, Marcus D., to Industrial Rayon Corp. Method and apparatus for treating alkali cellulose prior to aging. 2,783,136, 2-26-57, Cl. 23—260.
 Rodgers, Otis N., to American Iron & Machine Works Co., Inc. Piston. 2,815,992, 12-10-57, Cl. 309—4.
 Rodin, Emil A. Tool for holding and driving fasteners. 2,780,811, 2-12-57, Cl. 1—47.
 Rodis, Franz : See—
 Hartlapp, Gerhard, and Rodis. 2,811,419.
 Rodman, Ernest A., to E. I. du Pont de Nemours and Co. Process of preparing a compacted non-woven fibrous web embedded in a copolymer of butadiene and acrylonitrile and product. 2,795,524, 6-11-57, Cl. 154—137.
 Rodman, James B., to Kieckhefer Container Co. Apparatus for cutting flattened containers. 2,807,197, 9-24-57, Cl. 93—58.4.
 Rodnert, Gustav O. : See—
 Nilsson, Nils E., Rodnert, and Jonsson. 2,779,824.
 Rodriguez, Antoine R. : See—
 Skrmetta, Paul C. 2,781,544.
 Rodriguez, Conrado A. Bottle cap. 2,792,957, 5-21-57, Cl. 215—39.
 Rodriguez, Emil, to Jacoby-Bender, Inc. Bracelet end attachment. 2,807,855, 10-1-57, Cl. 24—265.
 Rodriguez, Osvaldo. Electric fan. 2,794,591, 6-4-57, Cl. 230—253.
 Rodriguez-Torrent, Ralph, and R. N. Fitzwater, dedicated to the free use of the People in the Territory of the United States. Stabilized non-corrosive pesticidal composition. 2,788,307, 4-9-57, Cl. 167—42.
 Rodth, Joseph J., to Sealpak Corp. Package for beverage infusion material. 2,778,739, 1-22-57, Cl. 99—171.
 Rodtz, Mary, Jr. Stroller covering. 2,797,743, 7-2-57, Cl. 155—182.
 Rodwick, Frank P., to The Silex Co. Blender. 2,794,627, 6-4-57, Cl. 259—108.
 Roe, A. V., Canada Ltd. : See—
 Champion, Alexander O. 2,800,142.
 Jay, Kenneth W. 2,793,752.
 Meschino, Ronald G. 2,812,899.
 Purvis, Joseph T., and Kennard. 2,801,070.
 Purvis, Joseph T., and Secord. 2,795,930.
 Purvis, Joseph T., and Secord. 2,807,934.
 Roe, A. V., & Co. Ltd. : See—
 Meadowcroft, Stanley, and Camac. 2,802,397.
 Roe, Charles C. : See—
 LeTourneau, Robert G., and Roe. 2,787,331.
 Roe, De Forest, to United States Steel Corp. Blast furnace hopper with leveling adjustment. 2,811,345, 10-29-57, Cl. 266—27.
 Roe, Ernest : See—
 Schulze, Kurt E. 2,779,356.
 Roe, Frank L. Kite. 2,811,327, 10-29-57, Cl. 244—153.
 Roe, George A. Nut sorting machine. 2,792,938, 5-21-57, Cl. 209—88.
 Roe, Justus G., to Justus Roe & Sons Inc. Tape measure. 2,797,489, 7-2-57, Cl. 33—137.
 Roe, Justus, & Sons Inc. : See—
 Roe, Justus G. 2,797,489.
 Roeben, Walter : See—
 Meyst, William. 2,817,996.
 Roeberson, Hermannus G., and C. van Bochove, to Nederlandse Centrale Organisatie voor Toegepast-Natuur-wetenschappelijk Onderzoek. Permelective electro dialysis. 2,805,196, 9-3-57, Cl. 204—151.
 Roebuck, Carl O. Reinforced siding material or the like. 2,777,549, 1-15-57, Cl. 189—86.
 Roecker, Jack H., to General Aniline & Film Corp. Decolorizing solutions of polymeric N-vinyl lactams. 2,785,118, 3-12-57, Cl. 204—158.
 Roeder, Harold C. : See—
 Peiffer, Alfred, Roeder, and Funk. 2,784,795.
 Roediger, Joseph C. : See—
 Musslewhite, Ernest, Jr., and Roediger. 2,780,585.
 Roehl, Ray T., and R. H. Petersen, to Treco Products Co., Inc. Sill window adjusting device. 2,791,456, 5-7-57, Cl. 292—263.
 Roehm, Erwin G. : See—
 Martellotti, Mario, and Roehm. 2,793,568.
 Roehm, Erwin G., to The Cincinnati Milling Machine Co. Spindle control for contouring machines. 2,794,371, 6-4-57, Cl. 90—13.
 Roehm, Erwin G., to Cincinnati Milling Machine Co. Automatic compensating mechanism for milling machine. 2,807,240, 9-24-57, Cl. 121—41.
 Roehrig, Jonathan R. : See—
 Lawrence, Richard B., and Roehrig. 2,784,373.
 Roehrl, Bruno C., to Nosco Plastics, Inc. Music box cylinder and comb. 2,787,927, 4-9-57, Cl. 84—95.
 Roelen, Otto, K. Buchner, H. Feichtinger, J. Meis, and H. Tummes, to Ruhrchemie Aktiengesellschaft. Tricyclodecane esters. 2,817,673, 12-24-57, Cl. 260—410.

- Roemer, Carl E., to Bendix Aviation Corp. Circuit component. 2,786,976, 3-26-57, Cl. 323-74.
- Roen, Ralph M.: *See*—
Dobrogowski, Daniel T., Roen, and Jones. 2,803,465.
- Roenfeld, Elmer H. Fence wire spacer. 2,791,841, 5-14-57, Cl. 33-180.
- Roesberg, Joseph E.: *See*—
Beck, Carl P., and Roesberg. 2,778,184.
- Roesch, Adolf. Gyroscopes. 2,778,227, 1-22-57, Cl. 74-5.7.
- Roesch, Adolf, and J. Söhlemann. Lubricating arrangement for high speed spindles. 2,810,615, 10-22-57, Cl. 308-187.
- Roesch, Ernst: *See*—
Duerksen, Arnold, and Roesch. 2,812,547.
- Roesch, Ernst, to Super Mold Corp. of California. Tire mold hinge pin stabilizing unit. 2,809,396, 10-15-57, Cl. 18-18.
- Roesch, George B., to The Rush Stamping Co. Brake control mechanism. 2,787,168, 4-2-57, Cl. 74-503.
- Roesch, George B., to The Rush Stamping Co. Brake lever mechanism. 2,792,720, 5-21-57, Cl. 74-503.
- Roeschke, Conrad W., to the United States of America as represented by the United States Atomic Energy Commission. Pulse generator. 2,807,722, 9-24-57, Cl. 250-86.
- Roesen, William F., to Barber-Colman Co. Magnetic relay. 2,790,045, 4-23-57, Cl. 200-104.
- Roeser, John O., to Electro-Snap Switch & Mfg. Co. Pressure actuated switches. 2,787,681, 4-2-57, Cl. 200-83.
- Roeser, John O., to Electro-Snap Switch & Mfg. Co. Hermetic seal for a switch. 2,795,959, 6-18-57, Cl. 74-18.1.
- Roeser, John O., to Illinois Tool Works. Toggle switch mechanism. 2,798,127, 7-2-57, Cl. 200-67.
- Roeser, John O., to Electro-Snap Switch & Mfg. Co. Make before break switch. 2,801,310, 7-30-57, Cl. 200-67.
- Roesler, Walter. Process for the manufacture of electrically welded wire nets. 2,813,552, 11-19-57, Cl. 140-112.
- Roesner, Gerhard: *See*—
Thumm, Wilhelm, Roesner, and Volk. 2,785,056.
- Roessler, Heinrich G. F., to Daimler-Benz Aktiengesellschaft. Detachable joint means for rigidly connecting an implement to a tractor. 2,782,884, 2-26-57, Cl. 189-36.
- Roethel Engineering Corp.: *See*—
Roethel, John H. 2,777,720.
Roethel, John H. 2,787,488.
Roethel, John H. 2,793,898.
Roethel, John H. 2,802,683.
Roethel, John H. 2,814,519.
- Roethel, John H., to Roethel Engineering Corp. Door lock. 2,777,720, 1-15-57, Cl. 292-280.
- Roethel, John H., to Roethel Engineering Corp. Vertical slide bolt door lock. 2,787,488, 4-2-57, Cl. 292-165.
- Roethel, John H. Door lock. 2,791,457, 5-7-57, Cl. 292-279.
- Roethel, John H. Door lock. 2,791,459, 5-7-57, Cl. 292-280.
- Roethel, John H., to Roethel Engineering Corp. Door lock. 2,793,898, 5-28-57, Cl. 292-280.
- Roethel, John H. Door lock. 2,796,275, 6-18-57, Cl. 292-280.
- Roethel, John H. Door lock. 2,797,120, 6-25-57, Cl. 292-280.
- Roethel, John H., to Roethel Engineering Corp. Door lock. 2,802,683, 8-13-57, Cl. 292-280.
- Roethel, John H. Door lock. 2,814,193, 11-26-57, Cl. 70-142.
- Roethel, John H., to Roethel Engineering Corp. Door lock. 2,814,519, 11-26-57, Cl. 292-280.
- Roetheli, Bruno E., to Esso Research and Engineering Co. Apparatus for contacting solids with gaseous fluids. 2,812,244, 11-5-57, Cl. 23-288.
- Roetz, Robert W.: *See*—
Noble, Aubrey E., Anness, Hyman, and Roetz. 2,780,096.
- Roff, Norman O.: *See*—
Thomas, Gerald R., and Roff. 2,785,914.
- Rogalla, Frank S. Retractable bulkhead. 2,808,009, 10-1-57, Cl. 105-369.
- Rogatz, Alvin L., to Zenith Radio Corp. Ceramic condenser dielectric. 2,815,291, 12-3-57, Cl. 106-39.
- Roger, Albert J., to Crown Machine & Tool Co. High pressure plastic injection molding machine clamps. 2,807,050, 9-24-57, Cl. 18-30.
- Rogers, Alfred. Can ribbon severing device. 2,795,351, 6-11-57, Cl. 220-52.
- Rogers, Alfred A., to Industrial Controls, Inc. Proportioning on and off controlling system for variables. 2,810,526, 10-22-57, Cl. 236-69.
- Rogers, Benjamin T., Jr., and W. C. Davis, to the United States of America as represented by the United States Atomic Energy Commission. High-speed camera. 2,816,476, 12-17-57, Cl. 88-16.
- Rogers, Charles E., and H. P. Markant, to The Babcock & Wilcox Co. Liquid fuel burner. 2,812,212, 11-5-57, Cl. 299-114.
- Rogers, Charles H.: *See*—
Googe, Claude L. 2,793,052.
- Rogers, Charles J.: *See*—
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- Rogers, Dilworth T.: *See*—
Rudel, Harry W., and Rogers. 2,808,320.
- Rogers, Dilworth T., and J. P. McDermott, to Esso Research and Engineering Co. Prevention of foaming in lubricants. 2,813,077, 11-12-57, Cl. 252-33.4.
- Rogers, Douglas C., and C. C. Eaglesfield, to International Standard Electric Corp. Travelling wave amplifiers. 2,797,360, 6-25-57, Cl. 315-39.3.
- Rogers, Dow A., Jr., and N. C. Foster, to Westinghouse Electric Corp. Insulating barrier tubes and method of making same. 2,801,840, 8-6-57, Cl. 154-83.
- Rogers, Edgar A. Ditcher attachment for bulldozer moldboards. 2,797,505, 7-2-57, Cl. 37-145.
- Rogers, Edgar K., and F. R. Lawn mower grinding machines. 2,782,566, 2-26-57, Cl. 51-48.
- Rogers, Edmund: *See*—
Stetz, Robert J., Hill, and Rogers. 2,815,889.
- Rogers, Floyd R.: *See*—
Rogers, Edgar K., and F. R. 2,782,566.
- Rogers, George W., Construction Corp.: *See*—
Carey, Edward G. 2,780,919.
- Rogers, Gerald L., to Stile-Craft Manufacturers, Inc. Cam release pipe coupler. 2,812,958, 11-12-57, Cl. 285-18.
- Rogers, Harriette F. Lightweight expansible overshoe. 2,799,951, 7-23-57, Cl. 36-7.1.
- Rogers, Howard G. Gyroscopically-controlled cycles. 2,802,300, 8-13-57, Cl. 46-100.
- Rogers, Hugh G. Chain saw sharpening machine. 2,793,544, 5-28-57, Cl. 76-41.
- Rogers, Hugh R. Process of manufacturing board-like articles. 2,817,617, 12-24-57, Cl. 154-100.
- Rogers Imports, Inc.: *See*—
Wittenberg, Benjamin. 2,779,370.
- Rogers, Jack. Fountain pen. 2,804,846, 9-3-57, Cl. 120-46.
- Rogers, Job R., to the United States of America as represented by the Secretary of the Navy. Automatic range tracking circuit. 2,804,612, 8-27-57, Cl. 343-7.3.
- Rogers, John H.: *See*—
Di Giulio, Manuel P., and Rogers. 2,800,281.
- Rogers, John H. Adjustable counterbalanced extensible conveyor. 2,808,923, 10-8-57, Cl. 198-98.
- Rogers, John H. Combination tractor and loader. 2,815,876, 12-10-57, Cl. 214-131.
- Rogers, John P., to The Murray Corp. of America. Settable dial. 2,811,870, 11-5-57, Cl. 74-553.
- Rogers, Levant C. Mop with wringing attachment. 2,794,198, 6-4-57, Cl. 15-119.
- Rogers, Paul M.: *See*—
Wenzel, Robert H. 2,793,325.
- Rogers, Raymond E. Insecticide applicator for animals. 2,804,047, 8-27-57, Cl. 119-157.
- Rogers, Robert S., to Celanese Corp. of America. Process for the production of insulating laminates and product. 2,781,820, 2-19-57, Cl. 154-28.
- Rogers, Tony. Dispenser for liquids. 2,811,284, 10-29-57, Cl. 222-173.
- Rogers, William L., and R. L. Noland, to Aerojet-General Corp. Apparatus for mounting solid propellant grains in a rocket motor. 2,781,633, 2-19-57, Cl. 60-35.6.
- Roggan, Francis J.: *See*—
Columbus, John C., and Roggan. 2,804,540.
- Roggenburk, Earl G. Rotary impact tool. 2,786,376, 3-26-57, Cl. 81-52.3.
- Roggendorff, Martin P.: *See*—
Flatz, Emil R., Hovel, and Roggendorff. 2,816,529.
- Roggenkamp, George H., to The Yale & Towne Mfg. Co. Reversible motor with dynamic braking. 2,817,802, 12-24-57, Cl. 318-284.
- Roggenstein, Edwin O., and C. Avgerinos. Automatic throttle control apparatus for internal combustion engines. 2,802,553, 8-13-57, Cl. 192-3.
- Rogier, Clarence F.: *See*—
Bralove, Allan L., and Rogier. 2,795,226.
- Rogier, Clarence F., T. E. Kulo, J. Singer and G. V. Nero, to Johnson Fare Box Co. Coin roll filling and crimping machine. 2,804,737, 9-3-57, Cl. 53-60.
- Rogier, Edgar R.: *See*—
Johnson, William S., Bannister, and Rogier. 2,810,758.
- Rogoff, Mortimer: *See*—
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- Rogovin, Arthur: *See*—
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Gardel, Robert, and Rogovin. 2,791,063.
- Rogovin, Sidney H., to M. E. Schwartz, Inc. Cleaning rod and patch holder. 2,798,238, 7-9-57, Cl. 15-104.1b.
- Roha, Max E.: *See*—
Jansen, Jacob E., and Roha. 2,794,043.
- Rohacs, Etienne. Handle for pilot's lever. 2,791,664, 5-7-57, Cl. 200-157.
- Rohan, Norman E. Goose decoy. 2,783,572, 3-5-57, Cl. 43-3.
- Rohats, Nicholas, to General Electric Co. Automatic rejection circuit for electrical testing apparatus. 2,815,481, 12-3-57, Cl. 324-54.
- Rohde, Thyge P., to F. L. Smidth & Co. Feed scoop for rotary drums or kilns. 2,812,865, 11-12-57, Cl. 214-18.
- Rohdin, Howard A. Vacuum filling head. 2,790,467, 4-30-57, Cl. 141-49.
- Rohdin, Howard A. Continuous band heat sealing machine. 2,800,162, 7-23-57, Cl. 154-42.
- Rohe, Frederick W. Weld nut with welding flange and spacer. 2,784,758, 3-12-57, Cl. 151-41.7.
- Rohling, Hermann, and R. Siegemund. Device for winding magnetic sound recording tape or wire. 2,782,999, 2-26-57, Cl. 242-54.
- Rohm, Frederic G., to Avco Mfg. Corp. Exhaust ejector installation for engine. 2,797,671, 7-2-57, Cl. 123-41.64.

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Aycock, Benjamin F., and Melamed. 2,806,840.
 Beavers, Ellington M., and Bockstahler. 2,806,014.
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 Bodamer, George W., and Prizer. 2,784,158.
 Boettner, Fred E. 2,808,402.
 Boettner, Fred E. 2,817,652.
 Bortnick, Newman M. 2,787,641.
 Bortnick, Newman M. 2,817,684.
 Bortnick, Newman M., and Gantert. 2,810,742.
 Browder, Edward. 2,784,140.
 Brown, George L., and Nolan. 2,778,768.
 Clarke, Duane G., McKeever, and Wolfe. 2,810,767.
 Conlon, Lawrence E., and Watanabe. 2,817,663.
 Conn, William R., Kine, and Prentiss. 2,795,564.
 Craig, W. E., Kiener, and Wilson. 2,783,284.
 Craig, W. E., Shropshire, and Wilson. 2,776,988.
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 Craig, W. E., Shropshire, and Wilson. 2,794,054.
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 De Benneville, Peter L., and Sims. 2,786,869.
 Freimiller, Louis R., and McKeever. 2,786,035.
 Freimiller, Louis R., and McKeever. 2,786,036.
 Harding, Frederick H., and Bruder. 2,785,998.
 Huang, Hsing T., and Snythe. 2,798,839.
 Hurwitz, Melvin D., Kine, and Matlin. 2,780,608.
 Hwa, Jesse C. H. 2,818,395.
 Kine, Benjamin B., and Matlin. 2,780,567.
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 Lane, Earl W. 2,807,614.
 Lane, Earl W. 2,810,720.
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 Lane, Earl W., and Niederhauser. 2,789,133.
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 Riedeman, William L. 2,811,532.
 Riedeman, William L. 2,811,533.
 Riener, Edward F. 2,811,538.
 Schmidle, Claude J. 2,778,826.
 Schmidle, Claude J., and Mansfield. 2,784,192.
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 Shippee, Fred B., and Hurwitz. 2,807,865.
 Sims, Homer J. 2,810,703.
 Steiger, Fred H., and Shelley. 2,803,563.
 Strong, James S. 2,787,640.
 Wardell, Winnifred A. 2,810,624.
 Wilson, Harold F., Shropshire, and Craig. 2,812,280.
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 Herman, Hartley R. 2,816,355.
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 Nenzell, Joseph F. 2,795,444.
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 Parker, Truman A., Jr., and Plummer. 2,808,114.
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Rohr, Henry C., to General Motors Corp. Windshield wiper mechanism and motor control. 2,786,175, 3-19-57, Cl. 318-466.

Rohrback, Gilson H., to Crest Research Laboratories, Inc.
 Methods and means for introducing corrosion inhibitors into oil wells. 2,801,697, 8-6-57, Cl. 166-1.

Rohrback, Gilson H., to Crest Research Laboratories, Inc.
 Arsenic-boron compounds and method of inhibiting corrosion therewith. 2,805,915, 9-10-57, Cl. 23-14.

Rohrer, Frederick F., Jr.: See—

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Rohtert, Robert E., to Boeing Airplane Co. Airplane inflight refueling apparatus. 2,793,828, 5-28-57, Cl. 244-135.

Roinestad, Joseph, 1/4 to F. A. Shaeffer. Door catch. 2,789,830, 4-25-57, Cl. 292-76.

Roland, Percy W.: See—

Doyle, James F., and Roland. 2,792,326.

Roland, Pierre: See—

Pacond, André, and Roland. 2,811,552.

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Rolaston, Norman, and C. C. Middleton, to British Industrial Plastics Ltd. Press for forming a reinforced edge on fabric by fusion and pressure. 2,791,265, 5-7-57, Cl. 154-42.

Rolen, Carl R. Panel and frame construction for buildings. 2,809,730, 10-15-57, Cl. 189-88.

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Rolf, Erich, and M. Benjamin, to Siemens-Schuckertwerke Aktiengesellschaft. Electric contact converters with electromagnetically controlled contacts. 2,777,982, 1-15-57, Cl. 321-48.

Rolfe, Andrew T. Putting guide device. 2,790,642, 4-30-57, Cl. 273-187.

Rolfe, George R. Furniture with removable covering. 2,799,327, 7-16-57, Cl. 155-184.

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Rolker, Edwin, deceased (G. H. Rolker, executrix). 2,786,222, 3-26-57, Cl. 15-193.

Rolker, Gertrude H.: See—

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Roll, William G., and A. V. Rand, to General Mills, Inc. Thermostatically controlled cooking appliance. 2,786,928, 3-26-57, Cl. 219-19.

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Roller, Albert E.: See—

Roller, Franz T. and A. E. 2,801,842.

Roller, Albert E., to Daimler-Benz Aktiengesellschaft. Vehicle brake. 2,782,881, 2-26-57, Cl. 188-216.

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Rollins, Lester G., to Joy Mfg. Co. Hinge pin lock. 2,802,368, 8-13-57, Cl. 74-254.

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Rollman, Ernest E., and M. J. Pizzuto; said Pizzuto assor. to Ro-Search, Inc. Methods of manufacture of footwear. 2,789,295, 4-23-57, Cl. 12-142.

Rollman, Walter F., to Esso Research and Engineering Co. Preparation and desulfurization of petroleum coke. 2,789,085, 4-16-57, Cl. 202-14.

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- Rolls-Royce Ltd.: *See*—Continued
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- Rolo Mfg. Co.: *See*—
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- Rolock, Inc.: *See*—
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- Rolston, Kenneth P., to Franklin Metal & Rubber Co. Sprinkler, 2,787,499, 4-2-57, Cl. 299-69.
- Rolt, Anthony P. R., and C. Hill, to Harry Ferguson Research Ltd. Drive for independently suspended vehicle wheels, 2,796,943, 6-25-57, Cl. 180-44.
- Romagnan, Lucien M., Method of extracting the content of vegetal cells through mechanical means, 2,817,591, 12-24-57, Cl. 99-140.
- Romaine, Lee W., Combined signal and connector bolt, 2,795,771, 6-11-57, Cl. 340-57.
- Roman, John, and C. A. Levey, Device for preparing ravioli, 2,789,181, 2-5-57, Cl. 107-1.
- Roman, Walter G., and R. C. Robinson, to Westinghouse Electric Corp. Linear motion device, 2,780,740, 2-5-57, Cl. 310-67.
- Roman, Walter G., F. Slamar, and J. F. Kovalsky, to Westinghouse Electric Corp. Dynamometer control, 2,785,367, 3-12-57, Cl. 318-808.
- Romander, Hugo, to Sierra Electronic Corp. Electronic amplifier network, 2,808,473, 10-1-57, Cl. 179-171.
- Romang, Thelma S., Golf bag, 2,817,538, 12-24-57, Cl. 280-47.26.
- Romano, Francis A.: *See*—
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- Romano, Mose, Collapsible container, 2,780,378, 2-5-57, Cl. 215-11.
- Romanoff, Harold, Aquarium drain attachment, 2,783,893, 3-5-57, Cl. 210-94.
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- Romanowski, Albert F., to Bowser, Inc. Multiple pump control system, 2,812,110, 11-5-57, Cl. 222-63.
- Romanovsky, Cyril, and T. E. Jordan, to Publicker Industries Inc. Process for manufacturing butadiene, 2,800,517, 7-23-57, Cl. 260-681.
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- Romberg, Joseph W., to The Texas Co. Wire rope lubricant comprising a blown petroleum extract and a paraffinic residuum, 2,778,780, 1-22-57, Cl. 196-149.
- Rome Cable Corp.: *See*—
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- Romer, Donald F.: *See*—
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- Romer, John B., J. H. Phillips, L. F. Kooistra, and F. G. Ely, to The Babcock & Wilcox Co. Additives to fuel, 2,800,172, 7-23-57, Cl. 158-1.
- Römer, Otto, to Siemens & Halske Aktiengesellschaft, Electrical contact devices, particularly for high switching frequency and high current loading, 2,789,187, 4-16-57, Cl. 200-166.
- Römer, Otto, to Siemens & Halske Aktiengesellschaft, Electrical contact devices, 2,806,113, 9-10-57, Cl. 200-166.
- Romero, Forrest S., Can opener for tear strip type of cans, 2,814,413, 11-26-57, Cl. 220-52.
- Romero, Frederick B., Steam turbines, 2,786,647, 3-26-57, Cl. 253-51.
- Romero, Robert F., to Leonard Electric Products Corp. High voltage and deflection transformers, 2,801,393, 7-30-57, Cl. 336-96.
- Romi, Giordano, to Maquinas Agricolas "Romi" Limitada, Gear case, suitable for lathes or machine tools or machines in general, 2,778,237, 1-22-57, Cl. 74-333.
- Romi, Giordano, to Maquinas Agricolas, "Romi" Limitada, Indexable multiple tool turret, 2,810,306, 10-22-57, Cl. 74-826.
- Romig, Orlando E.: *See*—
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- Romine, Glenn N.: *See*—
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- Rommel, Frederick E., to Telephone Mfg. Co. Ltd. Telephone system and apparatus, 2,802,903, 8-13-57, Cl. 179-22.
- Rommel, Frederick E., and N. F. Pettet, to Telephone Mfg. Co. Ltd., Electric switches, 2,810,040, 10-15-57, Cl. 200-104.
- Rommel, Frederick, and R. E. H. Carpenter, said Rommel assor. to Telephone Mfg. Co. Ltd. Electromagnetic relays, 2,811,602, 10-29-57, Cl. 200-93.
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- Ronay, Bela, Method of building weld layers by fusing a plurality of weld rods, 2,784,487, 3-12-57, Cl. 29-497.
- Ronay, Bela M., Alloy cast iron arc-oxygen cutting electrode, 2,802,930, 8-13-57, Cl. 219-70.
- Ronceray, Robert A. M., Chain hoist drive mechanism, 2,800,985, 7-30-57, Cl. 192-4.
- Roncin, Didier, Extraction of fibres from textile plants, 2,799,898, 7-23-57, Cl. 19-12.
- Rondeau, Herbert F., Scratch tester, 2,801,540, 8-6-57, Cl. 73-150.
- Rondinelli, Alfred J., Shower bath curtains, 2,776,439, 1-8-57, Cl. 4-149.
- Rondone, Sam J., to Fibreboard Paper Products Corp. Carton, 2,797,041, 6-25-57, Cl. 229-39.
- Rondthaler, Edward, and H. Horman, Photographic text composition and apparatus therefor, 2,800,062, 7-23-57, Cl. 95-4.5.
- Ronfeldt, Ray C., Vehicle pusher unloader, 2,803,357, 8-20-57, Cl. 214-82.
- Rongaus, Eugene E.: *See*—
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- Rongaus, Leon F., and E. E., Aiming stake holder, 2,806,289, 9-17-57, Cl. 33-74.
- Rongen, Jacobus J.: *See*—
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- Rongen, Jacobus J., and H. H. van Abbe, to North American Philips Co., Inc. Electrical dipole having a comparatively low direct current and a comparatively high alternating current impedance, 2,801,346, 7-30-57, Cl. 307-88.5.
- Ronish, George A., Bathtub brush, 2,780,823, 2-12-57, Cl. 15-160.
- Ronning, Adolph, Compound thermal switch, 2,796,553, 6-18-57, Cl. 315-83.
- Ronning, Adolph, Brake torque reactors, 2,812,953, 11-12-57, Cl. 280-124.
- Roof, Earl O., Mowing machine, Re. 24,356, 9-17-57, Cl. 56-25.4.
- Roof, Harold H., Basket, 2,777,595, 1-15-57, Cl. 217-125.
- Rook, Joseph V., Combination fuel and brake control for motor vehicles, 2,778,463, 1-22-57, Cl. 192-3.
- Rooks, Howard B.: *See*—
 Mayer, Abbott F., and Rooks, 2,810,875.
- Rooney, George F., Jr., Sheet catching and stacking device for a printing press, 2,795,420, 6-11-57, Cl. 271-88.
- Rooney, Jerome A.: *See*—
 Ferguson, James J., 2,788,530.
- Rooney, Sidney C., and L. Feenstra, to Pneumatic Conveyors Ltd. Suction spouts, 2,783,098, 2-26-57, Cl. 302-58.
- Roos, Charles J., Jamb liner, 2,804,182, 8-27-57, Cl. 189-75.
- Roos, Charles J., Window frame construction, 2,815,544, 12-10-57, Cl. 20-52.2.
- Roos, William J.: *See*—
 McDonald, John E., and Roos, 2,817,413.
- Roosdorf, Hermanus J., to North American Philips Co., Inc. Self-balancing servomotor circuit, 2,812,481, 11-5-57, Cl. 318-19.
- Roose, Clarence C., Roof ridge louver ventilator, 2,799,214, 7-16-57, Cl. 98-42.
- Roosendaal, Lambertus W.: *See*—
 Hess, Karl W., De Jong, and Roosendaal, 2,798,187.
- Root, Albert B., 3rd, to E. I. du Pont de Nemours and Co. Conditioning of gases, 2,796,448, 6-18-57, Cl. 260-678.
- Root, Andrew A., to United Shoe Machinery Corp. Slip-resistant surfaces and processes for making the same, 2,793,136, 5-21-57, Cl. 117-33.
- Root, Andrew A., to Bradley Container Corp. Squeeze container with drop forming spout, 2,798,644, 7-9-57, Cl. 222-215.
- Root, Augustin A., and H. L. Clark, to General Electric Co. Phase sensitive strain gage amplifier rectifier circuit, 2,780,778, 2-5-57, Cl. 324-87.
- Root, Charles F., to The Chandler & Price Co. Rolling contact platen press, 2,795,187, 6-11-57, Cl. 101-298.
- Root, Le Roy, to Scovill Mfg. Co. Vanity box, 2,797,839, 7-2-57, Cl. 220-17.
- Root Mfg. Co., Inc.: *See*—
 Bennett, Harold R., 2,807,126.
 Meyer, Raymond P., 2,815,633.
- Root, Melvin C., $\frac{1}{2}$ to H. L. Maloney, Rotary snow remover, 2,776,505, 1-8-57, Cl. 37-43.
- Root, Robert S.: *See*—
 Spase, Charles B., and Root, 2,788,876.
- Root, Robert S., to Lipe-Rollway Corp. Oil tight friction clutch, 2,796,964, 6-25-57, Cl. 192-112.
- Root, Wilbur L., Boat anchor, 2,816,522, 12-17-57, Cl. 114-210.
- Roovers, Wilhelmus A., and O. L. Van Steenis, deceased (by J. D. Heijligers, executor), to Hartford National Bank and Trust Co., as trustee, Method of manufacturing optical windows and optical window manufactured by this method, 2,780,892, 2-12-57, Cl. 49-81.
- Ropar, Steve A., to Westinghouse Air Brake Co. Deceleration responsive apparatus, 2,818,244, 12-31-57, Cl. 264-1.
- Rope, Barton W.: *See*—
 Coonrad, Harry L., Leaman, and Rope, 2,795,633.
 Coonrad, Harry L., Plank, and Rope, 2,805,287.
- Ropella, Leonard A., to Roddis Plywood Corp. Fireproof door construction, 2,797,450, 7-2-57, Cl. 20-35.
- Roper, Alec N., to The M. W. Kellogg Co. Manufacture of polymers by pyrolysis of 1,4-dimethyl aryl compounds, 2,798,052, 7-2-57, Cl. 260-2.

- Roper, Amund S., to Bemis Bros. Bag Co. Insert bag stiffeners. 2,802,617, 8-13-57, Cl. 229-55.
- Roper, Frank A. Measuring dispensing device. 2,791,352, 5-7-57, Cl. 222-50.
- Roper, Geo. D., Corp.: See—
 Albright, John R. 2,779,291.
 Hollman, Peter I. 2,779,400.
 Hollman, Peter I., and McLaughlin. 2,791,212.
 Miller, Robert L. 2,796,031.
 Mosbacher, Bruce H. 2,801,593.
 Mosbacher, Bruce H. 2,817,297.
- Roper, Lowell W. Method for heading arrows. 2,790,473, 4-30-57, Cl. 144-309.
- Roper, Winston R., to Houston Oil Field Material Co., Inc. Joint. 2,779,570, 1-29-57, Cl. 255-1.6.
- Ropiequet Richard L., to Tektronix, Inc. Cascode multivibrator. 2,778,935, 1-22-57, Cl. 250-27.
- Ropp, Walter S.: See—
 Feild, George B., and Ropp. 2,802,891.
- Ropp, Walter S., to Hercules Powder Co. Monoperoxyacetals. 2,776,319, 1-1-57, Cl. 260-610.
- Rorig, Kurt J., to G. D. Searle & Co. 5-dialkylaminomethyl and 5-heterocyclicmethyl substituted 2-amino-6-aryl-4-pyrimidol derivatives. 2,776,283, 1-1-57, Cl. 260-247.5.
- Rorig, Kurt J., to G. D. Searle & Co. N-alkyl-N-(dialkylaminoalkoxyalkyl) benzhydriylamines and salts thereof. 2,782,234, 2-19-57, Cl. 260-570.
- Rorig, Kurt J., to G. D. Searle & Co. N-alkyl-N-benzhydriylaminoalkyl esters of N,N-dialkylaminoalkanoic acids, their salts and the production thereof. 2,812,348, 11-5-57, Cl. 260-482.
- Rorig, Kurt J., to G. D. Searle & Co. Alcoholic α -hydroxyphenylacrylonitriles. 2,815,363, 12-3-57, Cl. 260-465.
- Rorig, Kurt J., and R. T. Nicholson, to G. D. Searle & Co. Basically substituted N-alkyl-2-amino-4-hydroxy-5-pyrimidinedicarboxamides and salts thereof. 2,789,979, 4-23-57, Cl. 260-247.2.
- Rosa, James M., and P. Todisco. Method of laying pipe. 2,777,294, 1-15-57, Cl. 61-41.
- Rosa, Anthony G. Combined lipstick and face paper holder. 2,804,031, 8-27-57, Cl. 132-83.
- Rosaen, Nils O. and O. E., to The New York Air Brake Co. Vane pump with improved discharge port. 2,786,422, 3-26-57, Cl. 103-136.
- Rosaen, Oscar E.: See—
 Rosaen, Nils O. and O. E. 2,786,422.
- Rosamilia, Peter L.: See—
 Harvey, Mortimer T., and Rosamilia. 2,816,086.
 Harvey, Mortimer T., and Rosamilia. 2,816,286.
 Harvey, Mortimer T., and Rosamilia. 2,816,878.
- Rosan, Joseph. Snap ring connection between threaded fastener and locking collar. 2,782,827, 2-26-57, Cl. 151-41.73.
- Rosan, Joseph. Replaceable insert. 2,782,883, 2-26-57, Cl. 189-34.
- Rosan, Joseph. Method of converting standard threads into locking threads. 2,787,796, 4-9-57, Cl. 10-86.
- Rosan, Joseph. Swaging tool for reconditioning deformed lock threads. 2,787,798, 4-9-57, Cl. 10-152.
- Rosan, Joseph. Conventional truncated screw threads with small locking thread bonded therebetween. 2,788,045, 4-9-57, Cl. 151-22.
- Rosan, Joseph. Screw thread construction comprising conventional truncated threads with integral locking thread interposed therebetween. 2,788,046, 4-9-57, Cl. 151-22.
- Rosan, Joseph. Threaded mounting device having split ring installation stop means retained thereon. 2,788,830, 4-16-57, Cl. 151-22.
- Rosan, Joseph. Drive tool for inserts. 2,790,342, 4-30-57, Cl. 81-53.
- Roscetti, Percy: See—
 Roscetti, Vincent J. and P. 2,812,930.
- Roscetti, Vincent J. and P. Air washing apparatus. 2,812,930, 11-12-57, Cl. 261-29.
- Rösch, Georg: See—
 Baumann, Fritz, Bienert, and Rösch. 2,778,819.
 Frank, John, and Rosch. 2,793,799.
- Rösch, Georg. Journal box mounting for roller axle bearings. 2,781,004, 2-12-57, Cl. 105-221.
- Rösch, Gustav. Method and apparatus for waving hair. 2,781,045, 2-12-57, Cl. 132-7.
- Roschke, Erwin M., to Zenith Radio Corp. Subscription television system. 2,797,260, 6-25-57, Cl. 178-22.
- Roschke, Erwin M., to Zenith Radio Corp. Subscriber television system. 2,809,231, 10-8-57, Cl. 178-5.1.
- Rosco Mfg. Co.: See—
 Thornburg, Robert W. 2,781,229.
- Roscoe, Howard E., to E. I. du Pont de Nemours and Co. Liquid removal apparatus. 2,807,891, 10-1-57, Cl. 34-95.
- Roscoe, John P. Traffic counters. 2,801,053, 7-30-57, Cl. 235-99.
- Roscoe, Merrill W., and J. E. Foster, to Deere & Co. Cotton boll separating apparatus. 2,791,001, 5-7-57, Cl. 19-72.
- Roscoe, Samuel, to Hayeshaw Ltd. Irregularly operating control mechanisms. 2,788,666, 4-16-57, Cl. 74-1.
- Rose, Alfred G., to Rose Brothers (Gainsborough) Ltd. Feeding of articles in wrapping or packaging machines. 2,777,561, 1-15-57, Cl. 198-33.
- Rose, Alfred G., to Rose Brothers (Gainsborough) Ltd. Machines for labelling bottles and the like. 2,788,150, 4-9-57, Cl. 216-55.
- Rose, Alfred G., to Rose Brothers (Gainsborough). Packages for coffees and like articles. 2,816,838, 12-17-57, Cl. 99-180.
- Rose, Arthur, and W. W. Sanders, to the United States of America as represented by the Secretary of Agriculture. Agitator for vacuum still. 2,784,150, 3-5-57, Cl. 202-175.
- Rose, Bennie A., to Heyl & Patterson, Inc. Unloader. 2,796,180, 6-18-57, Cl. 214-14.
- Rose, Boyd W., and H. W. Hart; said Rose assor. to Food Machinery and Chemical Corp. Conveyor type automatic feed trough. 2,794,421, 6-4-57, Cl. 119-52.
- Rose Brothers (Gainsborough): See—
 Rose, Alfred G. 2,816,838.
- Rose Brothers (Gainsborough) Ltd.: See—
 Rose, Alfred G. 2,777,561.
 Rose, Alfred G. 2,788,150.
- Rose, Carl: See—
 Benson, Charles J., Potter, Rose, and Schollenberger. 2,796,284.
- Rose, Clarence W. Apparatus for pre-drawing portions of drawable rope. 2,799,130, 7-16-57, Cl. 57-1.
- Rose, Clarence W. Drawable rope having pre-drawn segment and method for producing the same. 2,799,133, 7-16-57, Cl. 57-140.
- Rose-Derry Co.: See—
 Merells, Morris C. 2,806,511.
- Rose, Harry E., to Radio Corp. of America. Electronic circuit. 2,783,453, 2-26-57, Cl. 340-149.
- Rose, Harry E., to Radio Corp. of America. Color-correction systems. 2,807,660, 9-24-57, Cl. 178-5.4.
- Rose, Harry J. Arrow target butts. 2,808,266, 10-1-57, Cl. 273-105.
- Rose, John E., and M. S. Barker. Multiple bin hopper and aggregate weighing equipment. 2,793,024, 5-21-57, Cl. 265-27.
- Rose, Joseph K. Television receiver cabinet. 2,805,411, 9-3-57, Cl. 340-367.
- Rose, Ray C. Swinging ladder seat. 2,802,702, 8-13-57, Cl. 304-31.5.
- Rose, Stanley E.: See—
 Kooker, Paul I., and Rose. 2,797,560.
- Rose, Stanley E., to General Electric Co. Fan motor mounting structure for room air conditioners. 2,796,745, 6-25-57, Cl. 62-129.
- Rose, Werner P. Plural color doctor knife. 2,800,075, 7-23-57, Cl. 101-115.
- Rose, Werner P., and R. E. Kuhn, to Somatex, Inc. Automatic vacuum slot sealer. 2,792,587, 5-21-57, Cl. 15-307.
- Rose, Wilbert M. Air pressure indicator. 2,795,204, 6-11-57, Cl. 116-34.
- Rose, William G.: See—
 Lundgren, Harold P., Walden, and Rose. 2,786,049.
- Rose, William R., to The General Electric Co. Ltd. Contact wiper assemblies for electromagnet step-by-step switches. 2,799,755, 7-16-57, Cl. 200-171.
- Ro-Search, Inc.: See—
 Rollman, Ernest E., and Pizzuto. 2,789,295.
- Rosebrough, Richard L.: See—
 Wunderwald, Leon E., and Rosebrough. 2,804,897.
- Rosecrans, Ernest E., Sr. Stocking clamping garter. 2,779,026, 1-29-57, Cl. 2-312.
- Rosecrans, Ernest E., Sr. Combined stocking clamping garter and stocking. 2,800,662, 7-30-57, Cl. 2-240.
- Roselius, Louis W., to S & S Corrugated Paper Machinery Co., Inc. Cutting and creasing press. 2,776,610, 1-8-57, Cl. 93-58.2.
- Roseman, Joseph C.: See—
 Kleineberg, Paul E., and Roseman. 2,812,847.
- Roseman, Leo. Machine for stitching fastener tape for forming fastener sections. 2,787,228, 4-2-57, Cl. 112-2.
- Roseman, Michael. Chime signal device. 2,792,805, 5-21-57, Cl. 116-141.
- Roseman, Richard E., to Borg-Warner Corp. Air cooled unit air conditioner. 2,780,929, 2-12-57, Cl. 62-129.
- Rosemark, John F. Barbed wire fence connector. 2,814,516, 11-26-57, Cl. 287-113.
- Rosen, Charles A., to General Electric Co. Method of and means for detecting stress patterns. 2,816,236, 12-10-57, Cl. 250-213.
- Rosen, Herbert. Locking mechanism. 2,775,797, 1-1-57, Cl. 20-52.
- Rosen, Irving: See—
 Hirsch, Alfred, and Rosen. 2,812,367.
- Rosen, Irving, to Diamond Alkali Co. Improvements in the preparation of polychlorophenols. 2,812,366, 11-5-57, Cl. 260-623.
- Rosen, Leo, H. C. Barlow, and R. L. Bowman. Control means for high speed printing apparatus. 2,805,620, 9-10-57, Cl. 101-93.
- Rosen, Leon. Transparent slide cover for frozen food cabinets. 2,793,925, 5-28-57, Cl. 312-138.
- Rosen, Louis. Peeling implement. 2,814,874, 12-3-57, Cl. 30-278.
- Rosen, Louis W. Fastening devices for campaign-type buttons. 2,797,508, 7-2-57, Cl. 40-1.5.
- Rosen, Ruben P., to Progress Mfg. Co., Inc. Illuminated house number lighting fixture. 2,817,914, 12-31-57, Cl. 40-132.
- Rosen, Sny, to Milprint, Inc. Commodity bag for automatic filling machines. 2,790,591, 4-30-57, Cl. 229-63.

- Rosen, Sidney. Filling machine. 2,807,213, 9-24-57, Cl. 103-4.
- Rosen, Sigmund P.: See—
Kursman, Daniel R., and Rosen. 2,798,902.
- Rosen, Walter G., and F. Skoog, to Wisconsin Alumni Research Foundation. Streptomycin composition and combating plant pathogens therewith. 2,793,974, 5-28-57, Cl. 167-30.
- Rosen, William E.: See—
Kriesman, Sanford S., and Rosen. 2,777,451.
- Rosenbaum, Harry S., to The Eastern Venetian Blind Co. Traverse rod. 2,790,558, 4-30-57, Cl. 211-105.2.
- Rosenbaum, Harry S., to The Eastern Venetian Blind Co. Cord equalizer. 2,809,409, 10-15-57, Cl. 24-129.
- Rosenbaum, Harry S., to The Eastern Venetian Blind Co. Drapery apparatus. 2,814,342, 11-26-57, Cl. 160-345.
- Rosenbaum, Meyer, to Facial Graph Corp. Means for measuring facial proportions. 2,780,004, 2-5-57, Cl. 33-174.
- Rosenbaum, Samuel, and R. Harvey. Interlock knit garment. 2,792,572, 5-21-57, Cl. 2-90.
- Rosenbaum, Werner: See—
Dorn, Maxwell, and Rosenbaum. 2,782,752.
- Rosenbaum, Werner, to Champlain Co., Inc. Apparatus for web drying. 2,791,039, 5-7-57, Cl. 34-160.
- Rosenberg, Alex.: See—
Stone, Alfred, Rosenberg, and Hillman. 2,783,471.
- Rosenberg, David, and L. Mirando, to The Holiday Line, Inc. Life preserver cushion. 2,803,023, 8-20-57, Cl. 9-17.
- Rosenberg, David M., and W. B. Blair, to Westinghouse Electric Corp. Thermostatic switch. 2,801,315, 7-30-57, Cl. 200-138.
- Rosenberg, Edna M.: See—
Mazer, Jacob. 2,779,429.
- Rosenberg, George E.: See—
Schoenherr, Karl E., and Rosenberg. 2,812,923.
- Rosenberg, Harold J. Aeration-valve attachment for water faucet. 2,783,035, 2-26-57, Cl. 261-71.
- Rosenberg, Henry C., to Dearborn Chemical Co. Glutamic acid production. 2,788,369, 4-9-57, Cl. 260-529.
- Rosenberg, Jack, A. F. Brewer, and T. J. Scuitto, to General Dynamics Corp. Control circuit. 2,817,775, 12-24-57, Cl. 307-106.
- Rosenberg, Joseph A.: See—
Tash, Irving. 2,794,437.
- Rosenberg, Milton: See—
Rajchman, Jan A., Mesner, and Rosenberg. 2,797,321.
Rajchman, Jan A., and Rosenberg. 2,775,419.
- Rosenberg, Norman H.: See—
Stuart-Williams, Raymond, and Rosenberg. Re. 2,4387.
- Rosenberg, Norman H.: See—
Evans, Richard C., and Rosenberg. 2,790,877.
- Rosenberg, Norman H., to Olin Mathieson Chemical Corp. Switch. 2,786,918, 3-26-57, Cl. 200-142.
- Rosenberg, Norman W.: See—
McRae, Wayne A., and Rosenberg. 2,777,811.
- Rosenberg, Paul H., to Motor Wheel Corp. Rotary lawn mower safety blade. 2,799,985, 7-23-57, Cl. 56-295.
- Rosenberg, Philip, to Universal Steel Equipment Corp. Extensible joint structures. 2,777,247, 1-15-57, Cl. 45-139.
- Rosenberg, Ralph H., to Ainsworth Mfg. Corp. Seat slide. 2,780,501, 2-5-57, Cl. 308-6.
- Rosenberg, Robert E., to Hoffman Electronics Corp. High voltage apparatus for television receivers. 2,801,379, 7-30-57, Cl. 321-18.
- Rosenberg, Seymour M.: See—
Meier, Edwin H. 2,791,288.
- Rosenberg, Stig R. Method of making a girdle of deposited latex with reinforced areas. 2,806,257, 9-17-57, Cl. 18-58.6.
- Rosenberger, Albert J., to Republic Flow Meters Co. Pilot controlled fluid pressure regulator. 2,804,877, 9-3-57, Cl. 137-84.
- Rosenberger, Jakob: See—
Borbé, Erich, and Rosenberger. 2,813,441.
- Rosenblad Corp.: See—
Lockman, Carl J., and Jenssen. 2,796,120.
- Rosenblad, Curt F., to Aktiebolaget Rosenblads Patent. Apparatus for condensing steam. 2,808,234, 10-1-57, Cl. 257-2.
- Rosenblatt, Isidor: See—
Oster, Joseph, and Rosenblatt. 2,787,702.
- Rosenblatt, Joel H. Contrastressed aircraft structures. 2,806,663, 9-17-57, Cl. 244-117.
- Rosenblatt, Jordan. Projectile. 2,776,621, 1-8-57, Cl. 102-38.
- Rosenblom, Karl E. R. Twist drill grinding machines. 2,795,085, 6-11-57, Cl. 51-33.
- Rosenblum, Philip: See—
Orlando, Carl, and Rosenblum. 2,786,270.
- Rosenblum, Robert A.: See—
Fullerton, Thomas J., and Rosenblum. 2,777,647.
- Rosenblum, William H., and M. Mirkin. Gas-responsive signal actuator. 2,737,782, 4-2-57, Cl. 340-237.
- Rosenburg, William F., to The Cornwall & Patterson Co. Screw driver. 2,804,894, 9-3-57, Cl. 145-50.
- Rosene, Victor E.: See—
Kuchas, Francis C., and Rosene. 2,816,965.
- Rosenfeld, Joseph: See—
Stankewich, Edward M., and Rosenfeld. 2,806,525.
- Rosenfeld, Ludwig: See—
Mansfield, Wilfred P., and Rosenfeld. 2,803,234.
- Rosenfeld, Moses W.: See—
Katzner, Jacob B. 2,778,413.
- Rosenfeld, Peter. Combination toilet device. 2,814,032, 12-3-57, Cl. 132-121.
- Rosenhagen, Carl. Metal working tool. 2,787,098, 4-2-57, Cl. 51-184.3.
- Rosenheimer, Max., to Co. "ARO." Transformers, in particular for electrical welding machines. 2,803,806, 8-20-57, Cl. 336-61.
- Rosenkaimer G. m. b. H.: See—
Uthemann, Wolfgang. 2,817,548.
- Völker, Alois. 2,784,726.
- Rosenkranz, George: See—
Djerassi, Carl, Ringold, and Rosenkranz. 2,776,968.
- Djerassi, Carl, and Rosenkranz. 2,788,353.
- Dierassi, Carl, and Rosenkranz. 2,813,095.
- Djerassi, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 2,791,592.
- Djerassi, Carl, Rosenkranz, and Pataki. 2,782,193.
- Djerassi, Carl, Rosenkranz, and Sondheimer. 2,788,352.
- Djerassi, Carl, Sondheimer, and Rosenkranz. 2,781,365.
- Djerassi, Carl, Sondheimer, and Rosenkranz. 2,790,799.
- Djerassi, Carl, Sondheimer, Mancera, and Rosenkranz. 2,802,840.
- Ringold, Howard J., Sondheimer, and Rosenkranz. 2,802,839.
- Ringold, Howard J., Sondheimer, and Rosenkranz. 2,806,030.
- Sondheimer, Franz, and Rosenkranz. 2,783,253.
- Sondheimer, Franz, and Rosenkranz. 2,786,855.
- Stork, Gilbert, Ringold, and Rosenkranz. 2,805,230.
- Rosenkranz, George, and C. Djerassi, to Syntex S. A. Method of preparation of cyclopentanophenanthrene derivatives. 2,776,969, 1-8-57, Cl. 260-239.55.
- Rosenstein, Ludwig: See—
Gorin, Manuel H., and Rosenstein. 2,785,151.
- Rosenstein, Ludwig, and M. H. Gorin. Process for treating a mixture of saturated and unsaturated fatty acids with expanded urea. 2,800,466, 7-23-57, Cl. 260-96.5.
- Rosenstein, Ludwig, and M. H. Gorin. Expanded thiourea. 2,801,993, 8-6-57, Cl. 260-96.5.
- Rosenqvist, Gunnar. Method of manufacturing hollowed articles. 2,812,294, 11-5-57, Cl. 204-3.
- Rosenthal, Adolph H., to Fairchild Camera and Instrument Corp. Autocollimating ultrasonic light modulating display means. 2,797,619, 7-2-57, Cl. 88-61.
- Rosenthal, Adolph H., to Fairchild Camera and Instrument Corp. Light-modulator recording means. 2,807,799, 9-24-57, Cl. 343-12.
- Rosenthal, Arnold J., to Celanese Corp. of America. Solvent recovery. 2,818,133, 12-31-57, Cl. 183-4.5.
- Rosenthal, Harry, and G. E. Slaboch: said Slaboch assor. to said Rosenthal. Motorized wheel chair steered by driving. 2,798,565, 7-9-57, Cl. 180-6.5.
- Rosenthal, Henry, to the United States of America as represented by the Secretary of the Army. Smoke projectile with delay fuse. 2,789,467, 4-23-57, Cl. 89-1.
- Rosenthal, Herbert M.: See—
Wiest, Waldo H., Jr. 2,795,808.
- Rosenthal, Jack. Adjustable pivoted jaw wrench for removing threaded closures. 2,796,782, 6-25-57, Cl. 81-3.44.
- Rosenthal, Jacob B. Firing mixture booster. 2,810,561, 10-22-57, Cl. 261-65.
- Rosenthal, Joseph F., to The Haloid Co. Xerographic development. 2,817,767, 12-24-57, Cl. 250-71.
- Rosenthal, Louis A., and G. M. Badoyannis, said L. A. Rosenthal as trustee for L. A. Rosenthal, G. M. Badoyannis and L. H. King. Computing voltmeter. 2,791,747, 5-7-57, Cl. 324-123.
- Rosenthal, Morris: See—
Hager, Karl F., Michel, and Rosenthal. 2,801,979.
- Rosenthal, Rudolph: See—
Parkas, Adalbert, D'Alessandro, and Rosenthal. 2,784,212.
- Parkas, Adalbert, D'Alessandro, and Rosenthal. 2,784,213.
- Miller, Robert E., and Rosenthal. 2,809,208.
- Rosenthal, Samuel: See—
Pearce, Lewis C. 2,783,993.
- Rosenthal, Samuel. Pocket structure for washable work clothes. 2,778,026, 1-22-57, Cl. 2-247.
- Rosenthal, Sidney N. Inking devices. 2,805,641, 9-10-57, Cl. 118-265.
- Rosenthal, William, to Maiden Form Brassiere Co., Inc. Brassiere. 2,802,213, 8-13-57, Cl. 2-42.
- Rosenthal, William C., H. A. Ferguson, and R. C. Boyle, to International Harvester Co. Power take-off mechanism for tractors. 2,806,389, 9-17-57, Cl. 74-789.
- Rosenthal, William C., H. A. Ferguson, and R. C. Boyle, to International Harvester Co. Power-take-off mechanism for tractors. 2,806,565, 9-17-57, Cl. 192-4.
- Rosenwald, Robert H.: See—
Hoatson, James R., and Rosenwald. 2,792,427.
- Rosenwald, Robert H., to Universal Oil Products Co. Synthesis of ortho-alkyl-p-alkoxyphenols. 2,781,404, 2-12-57, Cl. 260-613.
- Rosenwald, Robert H., and J. R. Hoatson, to Universal Oil Products Co. Reductive alkylation process. 2,779,789, 1-29-57, Cl. 260-577.
- Rosenzweig, Philip. Drapery supporting means. 2,796,625, 6-25-57, Cl. 16-87.4.
- Rosenzweig, Philip. Traverse track front removable slider. 2,815,526, 12-10-57, Cl. 16-87.4.
- Rosher, Ronald, to Hercules Powder Co. Reaction product of stabilized rosin amine with phosphorus pentoxide. 2,776,955, 1-8-57, Cl. 260-100.

- Roshkind, Allan I., to A. B. Dick Co. Method for manufacturing duplicating masters. 2,808,777, 10-8-57, Cl. 101-128.2.
- Roshko, Anatol: *See*—
Liepmann, Hans W., and Roshko. 2,813,424.
- Rosholt, Gordon T. Combination hose nozzle, valve and swivel coupler. 2,790,680, 4-30-57, Cl. 299-105.
- Roshon, David D., to International Business Machines Corp. Xerographic image fixing apparatus. 2,807,703, 9-24-57, Cl. 219-45.
- Rossier, Gerardus, to North American Philips Co., Inc. Circuit arrangement for reducing the effect of undesired components in a television signal. 2,794,911, 6-4-57, Cl. 250-20.
- Rosin, Paul O.: *See*—
MacMillan, Robert D., McKeown, and Rosin. 2,817,907.
- Rosin, Seymour: *See*—
Ehrenhaft, Franz F., and Rosin. 2,817,994.
- Rosin, Seymour, to Farrand Optical Co., Inc. Illuminator. 2,787,701, 4-2-57, Cl. 240-41.1.
- Rosing, Theodore F.: *See*—
Kolb, Arthur F., and Rosing. 2,813,951.
- Rosner, Karl G.: *See*—
Kurland, Jerome and J. J., and Rosner. 2,803,693.
- Rosner, Kurt: *See*—
Cuscolella, Otwin, Grohs, Kuhnelt, and Rosner. 2,803,534.
- Ross, Alexander. Glove drier. 2,783,925, 3-5-57, Cl. 223-78.
- Ross, Alexander, A. C. Wintemberg, and T. R. Gilchrist, to Alco Products, Inc. Railway vehicle trucks. 2,797,649, 7-2-57, Cl. 105-196.
- Ross, Alexander, A. C. Wintemberg, and T. R. Gilchrist, to Alco Products, Inc. Railway vehicle. 2,797,650, 7-2-57, Cl. 105-196.
- Ross, David N. Quick release safety belt buckle. 2,798,276, 7-9-57, Cl. 24-211.
- Ross, Donald J. Tool for adjusting fuel-injector plungers and valve tappets. 2,796,674, 6-25-57, Cl. 33-181.
- Ross, Edgar D., and O. E. Griffin, to Metco Iron Oxide Corp. Process for use of pyrites cinder in soil treatment. 2,816,396, 12-17-57, Cl. 47-58.
- Ross, Frank A., to L. Hershaft. Machine for cutting, folding and pressing labels. 2,778,633, 1-22-57, Cl. 270-61.
- Ross, Frederick W. Aerodynamic aircraft control system. 2,781,182, 2-12-57, Cl. 244-83.
- Ross Gear & Tool Co.: *See*—
Creson, William K., and Berghoff. 2,785,699.
- Grace, William J. 2,786,107.
- Ross, Harry J.: *See*—
Heppenstall, Charles W., Ross, and Rohrer. 2,791,921.
- Ross, Howard S. Shock absorber for vehicles. 2,802,670, 8-13-57, Cl. 280-124.
- Ross, Ian M.: *See*—
Dacey, George C., and Ross. 2,778,956.
- Ross, Ian M., to Bell Telephone Laboratories, Inc. Semiconductor translating device. 2,791,760, 5-7-57, Cl. 340-173.
- Ross, Ian M., to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. 2,805,397, 9-3-57, Cl. 332-52.
- Ross, James C. Mixing faucets. 2,781,783, 2-19-57, Cl. 137-636.4.
- Ross, James C. Faucet. 2,800,140, 7-23-57, Cl. 137-454.5.
- Ross, James F.: *See*—
Roisture, Worth W., and Ross. 2,781,234.
- Ross, John G.: *See*—
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,817,530.
- Ross, John H. Pillow with vibratory and heating means. 2,800,897, 7-30-57, Cl. 128-24.1.
- Ross, John I. F. to The Ajax Mfg. Co. Disk type brake. 2,778,456, 1-22-57, Cl. 188-170.
- Ross, John R., to Ionia Mfg. Co. Method of manufacturing composite panels. 2,784,134, 3-5-57, Cl. 154-106.
- Ross, Joseph. Flush tank utility tray. 2,797,816, 7-2-57, Cl. 211-90.
- Ross, Joseph F. Boiler construction. 2,818,048, 12-31-57, Cl. 122-42.
- Ross, Karl F. Cathode ray filter. 2,810,859, 10-22-57, Cl. 315-21.
- Ross, Lawrence J.: *See*—
Wurzburg, Otto B., Rutenberg, and Ross. 2,786,833.
- Ross, Louis A.: *See*—
Jaffe, David L., and Ross. 2,818,529.
- Ross-Martin Co.: *See*—
Cockrell, James L., Jr. 2,788,935.
- Ross, Melvin E.: *See*—
Gerrard, John M., and Ross. 2,803,299.
- Gerrard, John M., and Ross. 2,816,337.
- Ross, Norman R., to Chance Vought Aircraft, Inc. Conduit remote control quick-detachable sealing connector with deflatable gasket. 2,816,780, 12-17-57, Cl. 285-97.
- Ross Operating Valve Co.: *See*—
Di Tirro, Domenic A. 2,793,619.
- Ross Radio Corp.: *See*—
Aiken, William R. 2,814,893.
- Ross, Ralph R. Automatic fuel control. 2,818,111, 12-31-57, Cl. 158-36.4.
- Ross, Ray R. Awning structure. 2,784,463, 3-12-57, Cl. 20-57.5.
- Ross, Robert M.: *See*—
Brinker, Keith C., and Ross. 2,816,082.
- Ross, Rupert C., N. P. Smith, and W. R. Spence, to Medway Paper Sacks Ltd. Multi-ply paper sacks. 2,786,622, 3-26-57, Cl. 229-55.
- Ross, Sidney D., to Sprague Electric Co. Electrolytic device. 2,786,165, 3-19-57, Cl. 317-230.
- Ross, Sidney D., and W. M. Allison, to Sprague Electric Co. Dielectric compositions. 2,788,327, 4-9-57, Cl. 252-63.7.
- Ross, Sidney D., and M. Markarian, to Sprague Electric Co. Polyfunctional halogenated aromatic compounds. 2,799,694, 7-16-57, Cl. 260-453.
- Ross, Sol. Curtain stretchers. 2,803,086, 8-20-57, Cl. 45-24.
- Ross, Thomas N.: *See*—
Brock, Robert L., Maynar, McCarthy, and Ross. 2,787,744.
- Ross, Willard A. Ladder hook. 2,803,388, 8-20-57, Cl. 228-60.
- Ross, William S., to The British Thomson-Houston Co. Ltd. Electric generating equipment. 2,777,071, 1-8-57, Cl. 290-40.
- Ross, William S., to The British Thomson-Houston Co. Ltd. Electric generating equipment. 2,777,072, 1-8-57, Cl. 290-40.
- Rossell, William T., to Transit Research Corp. Axle controlled truck. 2,777,401, 1-15-57, Cl. 105-197.
- Rossell, William T., to Transit Research Corp. Pedestal assembly for rail trucks. 2,777,402, 1-15-57, Cl. 105-225.
- Rossell, William T., to Transit Research Corp. Anti-hunting means for rail trucks. 2,782,732, 2-26-57, Cl. 105-225.
- Rosset, Jean: *See*—
Stuchlik, René E. F., and Rosset. 2,788,563.
- Rosset, Peter J. Garbage disposal assembly. 2,792,171, 5-14-57, Cl. 232-43.3.
- Rossetti, Fabio: *See*—
Pellarini, Luigi, and Rossetti. 2,797,916.
- Rossetti, Rene. Closing device for tubular duct. 2,779,519, 1-29-57, Cl. 222-507.
- Rossetto, Louis: *See*—
Abbott, William B., Rossetto, and Thompson. 2,806,585.
- Rossetto, Louis, to Mergenthaler Linotype Co. Typographical composing, casting and distributing machine. 2,791,320, 5-7-57, Cl. 199-33.
- Rossetto, Louis, to Mergenthaler Linotype Co. Typographical composing machine. 2,806,584, 9-17-57, Cl. 199-27.
- Rossetto, Louis, W. B. Abbott, and W. J. Thompson, to Mergenthaler Linotype Co. Typographical casting machine. 2,806,586, 9-17-57, Cl. 199-50.
- Rossetto, Louis, G. F. Squassoni, A. T. Rice, and D. H. Robbins, to Mergenthaler Linotype Co. Tape perforating machine. 2,816,609, 12-17-57, Cl. 164-113.
- Rossi, Carrato. Trailer hitch lock. 2,785,564, 3-19-57, Cl. 70-232.
- Rossi, Giovanni. Process and device for the treatment of substances in small pieces, by means of a fluid. 2,806,298, 9-17-57, Cl. 34-181.
- Rossi, Guido B., to the United States of America as represented by the United States Atomic Energy Commission. Cyclotron square wave RF system. 2,778,937, 1-22-57, Cl. 250-27.
- Rossi, Irving, to Continuous Metalcast Co., Inc. Apparatus for controlling the supply of molten metal to a casting mold. 2,792,602, 5-21-57, Cl. 22-79.
- Rossi, Paul, and A. E. Friedrich, said Friedrich to said Rossi. Slidable side jaw wrench. 2,791,143, 5-7-57, Cl. 81-165.
- Rossi, Robert R., to Arrow Safety Device Co. Automotive signal light control switch. 2,781,428, 2-12-57, Cl. 200-61.37.
- Rossier, John D., to Pearne & Lacy Machine Co. Machine for making clay pipe or the like. 2,795,027, 6-11-57, Cl. 25-30.
- Rossier, John D., to Pearne & Lacy Machine Co. Method for making clay pipe or the like. 2,795,028, 6-11-57, Cl. 25-156.
- Rossin, Elmer H., to Monsanto Chemical Co. Process for finishing textile material and product. 2,795,513, 6-11-57, Cl. 117-11.
- Rossin, Elmer H., and M. J. Scott, to Monsanto Chemical Co. Cellulosic solutions containing fire-retardant and method of extruding. 2,816,004, 12-10-57, Cl. 18-54.
- Rossin, Peter C., Jr., to General Electric Co. Continuous rod or tube forming press. 2,799,046, 7-16-57, Cl. 18-12.
- Rossiter, Effie A. Scarfs. 2,804,626, 9-3-57, Cl. 2-91.
- Roskopf, Hans, to H. Oestrich. Hollow blade for fluid flow operated machine. 2,801,072, 7-30-57, Cl. 253-39.15.
- Rossmann, Gus H. Pea vlner and sheller. 2,790,444, 4-30-57, Cl. 130-30.
- Rossmann, Ralph K. Clipping dial for circular knitting machine. 2,810,280, 10-22-57, Cl. 66-147.
- Rossmann, Peter F., to Hupp Corp. Resilient coupling for servomechanism control. 2,783,627, 3-5-57, Cl. 64-27.
- Rossoff, Arthur L.: *See*—
Rothstein, Milton, Rossoff, Levy, Dirnbach, and De Witt. 2,786,926.
- Rothstein, Milton, Rossoff, and Yusem. 2,790,379.
- Rosow, August W. Portable pet house. 2,790,414, 4-30-57, Cl. 119-19.
- Rosswall, Axel E. Machine for separating sheets arranged in a pile for the purpose of counting them. 2,796,257, 6-18-57, Cl. 271-18.
- Rostan, Robert A., to Russell & Stoll Co., Inc. Swivel conduit joint. 2,791,451, 5-7-57, Cl. 285-181.

- Rostoker, William, to Armour Research Foundation of Illinois Institute of Technology. High tensile vanadium alloys. 2,805,153, 9-3-57, Cl. 75-134.
- Rostonski, George B., 50% to J. P. Miller. Foldable ventilated metal awning. 2,793,689, 5-28-57, Cl. 160-183.
- Rostron, Douglas W., and H. A. Timm, to Dominion Magnesium Ltd. Method of producing titanium alloys in powder form. 2,800,404, 7-23-57, Cl. 75-0.5.
- Rotaprint Ltd.: See—
King, Carl G. 2,794,528.
- Rotary Hoes Ltd.: See—
Howard, Arthur C. 2,792,900.
Howard, Arthur C. 2,811,912.
- Rotary Oil Tool Co.: See—
Kammerer, Archer W., Jr. 2,799,477.
Kammerer, Archer W., Jr. 2,814,463.
- Rotax Ltd.: See—
Lucas, Sydney. 2,813,205.
- Rote, Wilbur J. Reclining chair having deep upholstered seat and disappearing footrest. 2,781,826, 2-19-57, Cl. 155-106.
- Roters, Herbert C., to General Time Corp. Alternating-current motor. 2,804,557, 8-27-57, Cl. 310-164.
- Rotfeld, Dolph: See—
Ram, Gerson L., and Rotfeld. 2,781,310.
- Roth, Adrian W., to General Electric Co. Electric protective equipment. 2,804,577, 8-27-57, Cl. 317-28.
- Roth, Grant V. W.: See—
Saari, Frank, and Roth. 2,783,070.
- Roth, Harold. Halter strapless long line brassiere. 2,816,292, 12-17-57, Cl. 2-42.
- Roth, Harold H.: See—
Musell, Dorsey R., and Roth. 2,778,809.
- Roth, Harold H., to The Dow Chemical Co. Grinding compositions and making of same. 2,783,137, 2-26-57, Cl. 51-302.
- Roth, Harold H., to The Dow Chemical Co. Purification of water-soluble sulfonated resins. 2,789,944, 4-23-57, Cl. 210-37.
- Roth, Harold H., to The Dow Chemical Co. Production of water-soluble vinyltolueneacrylic ester copolymer sulfonates and products obtainable thereby. 2,804,446, 8-27-57, Cl. 260-79.3.
- Roth, Harold H., to The Dow Chemical Co. Preparation of high-viscosity sulfonation products having viscosity stability. 2,809,959, 10-15-57, Cl. 260-79.3.
- Roth, Harold H., to The Dow Chemical Co. Preparation of water-soluble sulfonation products of polymeric ar-vinyltoluenes. 2,809,960, 10-15-57, Cl. 260-79.3.
- Roth, Harold H., to The Dow Chemical Co. Preparation of water-soluble sulfonation products from polymers of ar-vinyltoluene and acrylonitrile. 2,813,087, 11-12-57, Cl. 260-79.3.
- Roth, James P.: See—
Fey, Ephraim P., and Roth. 2,795,306.
Hehr, Elmer T., Fey, and Roth. 2,795,017.
- Roth, Julius F. Vertically adjustable bathtub seat. 2,817,096, 12-24-57, Cl. 4-185.
- Roth, Kenneth P., 25% to A. Macri, and 25% to E. Mutzenback. Automobile window guard. 2,803,471, 8-20-57, Cl. 280-150.
- Roth, Mathias: See—
Snyder, Wesley J., Roth, Dillingham, and Jensen. 2,808,823.
- Roth, Muray H., to Monsanto Chemical Co. Process for the treatment of particulate foamable styrene polymer compositions. 2,816,827, 12-17-57, Cl. 260-2.5.
- Roth, Patrick. Chimney cowl. 2,805,616, 9-10-57, Cl. 98-67.
- Roth, Philip B.: See—
Cooke, Theodore F., Fluck, and Roth. 2,785,145.
- Roth, Robert I.: See—
Dickinson, Arthur H., and Roth. 2,813,986.
- Roth, Robert I., to International Business Machines Corp. Record perforation analyzing means. 2,807,415, 9-24-57, Cl. 235-61.11.
- Roth, Robert I., to International Business Machines Corp. Type group and type selecting means for wheel printers. 2,813,479, 11-19-57, Cl. 101-93.
- Roth, Robert R.: See—
Knapp, William E., and Roth. 2,778,548.
- Roth, Roy W., to American Cyanamid Co. Soil stabilization. 2,801,985, 8-6-57, Cl. 260-41.
- Roth, Walter, to General Electric Co. Photoflash lamp. 2,791,897, 5-14-57, Cl. 67-87.
- Roth, Walter. Disposable safety razor. 2,800,713, 7-30-57, Cl. 30-32.
- Roth, Walter J., and J. R. Foster, to Gamble-Skogmo, Inc. Water level control for automatic washing machines. 2,782,620, 2-26-57, Cl. 68-12.
- Rothacker, Francis N., to Modern Plastic Machinery Corp. Apparatus for the treatment of plastic materials. 2,802,085, 8-6-57, Cl. 219-10.53.
- Rothacker, Francis N. Dielectric gage. 2,806,204, 9-10-57, Cl. 324-61.
- Rothang, Donald W. H., to Ford Motor Co. Window regulator mechanism. 2,807,462, 9-24-57, Cl. 268-126.
- Rothbard, Herbert. Pacifiers. 2,811,949, 11-5-57, Cl. 128-360.
- Rothberg, Mitchell A.: See—
Phillipsen, Harold. 2,804,416.
- Rothberg, Sidney: See—
Phillipsen, Harold. 2,804,416.
- Röthe, Ernst: See—
Johanson, Helmut, and Röthe. 2,818,508.
- Rothe, Walter, F. Schroder, and C. Wildhagen, to Braunschweigische Maschinenbaustalt A. G. Continuously operating cookers. 2,793,582, 5-28-57, Cl. 99-443.
- Rothelius, Carl G. B.: See—
Dahlström, Ernst R., and Rothelius. 2,783,888.
- Rother, George H.: See—
Schuller, Heri. 2,779,149.
- Rotherm Engineering Co., Inc.: See—
Shumaker, Ephraim H. 2,805,086.
- Rothermel, Edward M., and R. B. Waddell, Jr., to The Dayton Rubber Co. Reinforced flexible conduit. 2,782,803, 2-26-57, Cl. 138-56.
- Rothfelder, Raymond E.: See—
Schmitz, George W., and Rothfelder. 2,816,825.
- Rothfuchs, Oscar E., to Pullman-Standard Car Mfg. Co. Box-car door weatherseal. 2,780,180, 2-5-57, Cl. 105-409.
- Rothgart, Albert, and H. I. Sobel. Automobile rearview mirror. 2,782,686, 2-26-57, Cl. 88-86.
- Rothlin, Ernst, and J. Bourquin, to Saul & Co., as nominee of Fidelity Union Trust Co. executive trustee under Sandoz Trust. Preparation for the treatment of allergic diseases. 2,807,567, 9-24-57, Cl. 167-65.
- Rothman, Edward S.: See—
Wall, Monroe E., and Rothman. 2,791,581.
- Rothman, Stanley. Knife blade holder and guide. 2,777,197, 1-15-57, Cl. 30-284.
- Rothrock, George L.: See—
Tell, William J., and Rothrock. 2,792,261.
- Rothrock, Henry S., and W. K. Wilkinson, to E. I. du Pont de Nemours and Co. Film forming solid polyeoxy copolymers of allyl glycidyl ether and vinyl acetate. 2,788,339, 4-9-57, Cl. 260-85.7.
- Rothschild, Gilbert R., and C. R. Sibley, to Air Reduction Co., Inc. Welding of low alloy steel. 2,810,818, 10-22-57, Cl. 219-137.
- Rothstein, Milton, to Radio Receptor Co., Inc. Oscillation cut off. 2,815,426, 12-3-57, Cl. 219-10.77.
- Rothstein, Milton, A. L. Rossoff, L. Levy, P. H. Dirnbach, and D. De Witt, to Radio Receptor Co., Inc. Protective arrangements for heating apparatus. 2,786,926, 3-26-57, Cl. 219-10.77.
- Rothstein, Milton, A. L. Rossoff, and S. Yusem, to Radio Receptor Co., Inc. Coin operated food heating and dispensing apparatus. 2,790,379, 4-30-57, Cl. 99-357.
- Rothweiler, Alfred F.: See—
Uhlenhaut, Rudolf E., Rothweiler, and Wengert. 2,790,864.
- Rothweiler, Alfred F., to Daimler-Benz Aktiengesellschaft. Resilient mounting for wheel suspension. 2,815,944, 12-10-57, Cl. 267-20.
- Rotival, André G. Fire extinguishing composition. 2,818,382, 12-31-57, Cl. 252-8.
- Rotkin, Israel, to The United States of America as represented by the Secretary of Commerce. Piezoelectric crystal traveling-wave transducers. 2,806,155, 9-10-57, Cl. 310-8.1.
- Roto Bag Corp.: See—
Calasibetta, John, and Desena. 2,805,814.
- Roto Ink Corp., The: See—
Biser, Jesse L. 2,776,895.
- Rotol Ltd.: See—
Chilman, John A. 2,802,087.
Chilman, John A., Mapp, and Cripps. 2,791,700.
Chilman, John A., Mapp, and Cripps. 2,791,701.
Chilman, John A., Mapp, and Cripps. 2,793,302.
Ellis, Daaverts, and Twitchen. 2,781,856.
- Rotomark Mfg. Corp.: See—
Schlegel, William M., and Waraksa. 2,792,778.
- Rotor Tool Co., The: See—
Van Sittert, Paul R. 2,815,613.
- Roto-Table Co.: See—
Shoffner, Willie M. 2,781,622.
- Rotow, Alexander A., and R. B. Janes, to Radio Corp. of America. Orthicon electrode structure. 2,792,514, 5-14-57, Cl. 313-65.
- Rotsko, John: See—
Somers, Richard I., and Rotsko. 2,813,812.
- Rotter, Lutwin C.: See—
Mueller, Carl H., Rotter, and Schneller. 2,818,476.
- Rotter, Lutwin C., to The McNeil Machine & Engineering Co. Pump. 2,787,225, 4-2-57, Cl. 103-195.
- Rottig, Walter, to Ruhrchemie Aktiengesellschaft and Lurgi Gesellschaft fuer Waermetechnik m. b. H. Iron catalyst for catalytic carbon monoxide hydrogenation. 2,777,823, 1-15-57, Cl. 252-459.
- Rottig, Walter, to Ruhrchemie Aktiengesellschaft, and Lurgi Gesellschaft fuer Waermetechnik m. b. H. Precipitated iron catalysts for carbon monoxide hydrogenation. 2,781,325, 2-12-57, Cl. 252-472.
- Rottig, Walter, to Ruhrchemie Aktiengesellschaft, and Lurgi Gesellschaft fuer Waermetechnik m. b. H. Process for the hydrogenation of carbon monoxide. 2,786,070, 3-19-57, Cl. 260-449.6.
- Rottig, Walter, to Ruhrchemie Aktiengesellschaft and Lurgi Gesellschaft fuer Waermetechnik m. b. H. Iron catalysts for carbon monoxide hydrogenation precipitated from ferrous sulfate solutions. 2,786,817, 3-26-57, Cl. 252-440.

- Rottig, Walter, to Ruhrchemie Aktiengesellschaft, and Lurgi Gesellschaft fuer Waermetechnik m. b. H. Catalytic carbon monoxide hydrogenation. 2,805,239, 9-3-57, Cl. 2.
- Rottig, Walter, and P. Schaller, to Ruhrchemie Aktiengesellschaft and Lurgi Gesellschaft fur Waermetechnik m. b. H. Catalytic hydrogenation of carbon monoxide. 2,818,418, 12-31-57, Cl. 260-49.6.
- Rottmann, Fred, to B. J. E. and J. Meyer. Traction increasing device for vehicle wheels. 2,785,927, 3-19-57, Cl. 301-47.
- Roualet, Andre J. E., and F. W. Hamilton, to Chrysler Corp. Carburetor throttle valve control mechanism. 2,801,834, 8-6-57, Cl. 261-23.
- Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Screen cloth supporting frame for a vibrating screen. 2,777,579, 1-15-57, Cl. 209-42.
- Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Securing means for crusher head to gyratory shaft, including an internally threaded nut shrink fitted to main shaft of crusher. 2,787,426, 4-2-57, Cl. 241-293.
- Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Ball mill liner. 2,809,789, 10-15-57, Cl. 241-183.
- Rouch, Anthony J.: *See*—
Greenley, Henry R., Graham, Person, and Rouch. 2,816,604.
- Roug, George A. Supporting apparatus for a portable rotary power saw. 2,810,412, 10-22-57, Cl. 143-132. 260-449.6.
- Roughsedge, Robert H.: *See*—
Sprague, Basil S., Carroll, and Roughsedge. 2,777,750.
- Roughsedge, Robert H., to Celanese Corp. of America. Process and apparatus for treating filamentary material. 2,786,736, 3-26-57, Cl. 8-151.2.
- Roughsedge, Robert H., and D. Taylor, to Celanese Corp. of America. Treatment of filaments. 2,780,346, 2-5-57, Cl. 203-67.
- Round Tubes & Cores Co.: *See*—
Nathan, Walter. 2,803,322.
- Rountree, Walter P.: *See*—
Roberts, William E., and Rountree. 2,781,735.
- Roup, Roland R., to Globe-Union, Inc. Multiple K dielectric. 2,794,940, 6-4-57, Cl. 317-101.
- Rous, Arthur, to Federal Carton Corp. Can carrier sleeve with bottom holding flaps. 2,807,357, 9-24-57, Cl. 206-46.
- Rous, Ben., to Federal Carton Corp. Carton display holder for cans or the like. 2,805,033, 9-3-57, Cl. 248-174.
- Rouse, Bryant A. Hair clipper plate grinder. 2,797,534, 7-2-57, Cl. 51-122.
- Rouse, David. Method and means for application of sidewalls to tires. 2,802,512, 8-13-57, Cl. 154-9.
- Rouse, John H., to General Controls Co. Manual valve-operating means. 2,799,454, 7-16-57, Cl. 236-1.
- Roush, Milton S., to Thompson Products, Inc. Method for making intricate hollow powder metal parts. 2,807,437, 9-24-57, Cl. 253-77.
- Roush, Paul E.: *See*—
Paulius, John A., Jr., and Roush. 2,776,810.
- Roush, Roy W., Jr., to General Motors Corp. Pressure-operated valve means for free piston engines. 2,811,958, 11-5-57, Cl. 123-46.
- Rousse, Robert, to Matériel Industriel S. A. and Constructions Mécaniques S. A. Devices for the measuring and recording of the warpage and buckling of railway tracks. 2,784,496, 3-12-57, Cl. 33-174.
- Rousseau, Pierre: *See*—
Nomarski, Georges, and Rousseau. 2,801,570.
- Roussin, Rene, to Schlumberger Well Surveying Corp. Bore-hole caliper apparatus. 2,812,557, 11-12-57, Cl. 33-178.
- Routh, Benjamin I., to Rice Engineering and Operating, Inc. Lined pipe coupling with internally flush gasket. 2,805,872, 9-10-57, Cl. 285-55.
- Routin, John B.: *See*—
Sobin, Ben A., English, Lees, and Routin. 2,787,580.
Tanner, Fred W., Jr., Lees, and Routin. 2,785,104.
Tanner, Fred W., Jr., Lees, and Routin. 2,796,379.
- Rouyer, Louis: *See*—
Vandamme, Louis, and Rouyer. 2,780,047.
- Rove, Gene, G. S. Van Dyke, Jr., and B. D. Nabreski, to the United States of America as represented by the Secretary of the Army. Safety and arming mechanism. 2,789,508, 4-23-57, Cl. 102-83.
- Rovira, Alberto G. Surface projectile ball game. 2,782,037, 2-19-57, Cl. 273-122.
- Rovira Mari, Jose. Construction of honeycombs. 2,779,037, 1-29-57, Cl. 6-11.
- Rowand, Will H.: *See*—
Raynor, Arthur E., and Rowand. 2,800,116.
- Rowbotham, William R., to International Harvester Co. Harvester reel support. 2,808,695, 10-8-57, Cl. 56-221.
- Rowbotham, William R., and D. A. McCallum, to International Harvester Co. Mower structure with linkage for lifting and gagging mower bar. 2,806,338, 9-17-57, Cl. 56-25.
- Rowe, Frank E.: *See*—
Meepos, Daniel, and Rowe. 2,779,228.
- Rowe, Frank E., Jr., to Abington Textile Machinery Works. Means for insuring quiet operation of waste collecting vacuum system. 2,781,164, 2-12-57, Cl. 230-115.
- Rowe, Fred, Jr., and W. H. Rushford, to Phillips Petroleum Co. Incorporation of extender oil in carbon black. 2,813,040, 11-12-57, Cl. 106-307.
- Rowe, Horace N., and G. H. Eash; said Eash assor. to The Toledo Trust Co., as trustee. Electropneumatic loud speaker. 2,798,121, 7-2-57, Cl. 179-108.
- Rowe, Louis F., to American Optical Co. Eye protective means. 2,799,862, 7-23-57, Cl. 2-9.
- Rowe Mfg. Co., Inc.: *See*—
Gabrielsen, Christian. 2,784,871.
Gabrielsen, Christian. 2,796,876.
Gabrielsen, Christian, and Vorperian. 2,808,961.
Shepard, Francis H., Jr., and Gabrielsen. 2,808,918.
Tamm, Emil S. 2,796,893.
- Rowe, Richard G., and G. Flower, Jr., to Dictaphone Corp. Destatization of plastic articles. 2,778,748, 1-22-57, Cl. 117-138.8.
- Rowe, Robert F., to General Electrical Co. Junction box for ballast transformer. 2,779,812, 1-29-57, Cl. 174-50.
- Rowe, Sylvester J. Trousers hangers. 2,806,641, 9-17-57, Cl. 223-96.
- Rowe, Walker E. Automobile parking and storage apparatus. 2,794,559, 6-4-57, Cl. 214-16.1.
- Rowe, William, to Bonafide Mills, Inc. Method and apparatus for producing a decorative surface covering sheet. 2,775,994, 1-1-57, Cl. 134-20.
- Rowekamp, Edward F.: *See*—
Fechheimer, Paul R., and Rowekamp. 2,779,358.
- Rowekamp, Edward F., to Climax Products Corp. Filling machines and heads and stems therefor. 2,805,688, 9-10-57, Cl. 141-59.
- Rowell, Henry E.: *See*—
Hutchinson, Harrel E. 2,787,365.
- Rowell, Ross F. Cord supporting coil. 2,795,641, 6-11-57, Cl. 174-135.
- Rowell, William G., to Scully Signal Co. Ignition control-and-monitoring system. 2,797,745, 7-2-57, Cl. 158-28.
- Rowell, William G., to Scully Signal Co. Checking technique and system. 2,798,213, 7-2-57, Cl. 340-213.
- Rowell, William G., to Scully Signal Co. Checking technique and system. 2,798,214, 7-2-57, Cl. 340-213.
- Rowell, William G., to Scully Signal Co. Fail-safe system and technique. 2,807,008, 9-17-57, Cl. 340-213.
- Rowell, William G., to Scully Signal Co. Fail-safe system and technique. 2,807,009, 9-17-57, Cl. 340-213.
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- Rowell, William G., to Scully Signal Co. Fail-safe technique and system. 2,807,011, 9-17-57, Cl. 340-213.
- Rowen, John H., and W. H. von Aulock, to Bell Telephone Laboratories, Inc. Measurement of the complex tensor permeability and the complex dielectric constant of ferrites. 2,817,813, 12-24-57, Cl. 324-58.5.
- Rowland, David L. Weather proof cushion. 2,784,773, 3-12-57, Cl. 155-181.
- Rowland, David L. Spring assembly. 2,803,293, 8-20-57, Cl. 155-179.
- Rowland, Douglas H. Hearing aid. 2,787,670, 4-2-57, Cl. 179-107.
- Rowland, Everett, J. B. Tempest, and M. E. Brannies. Fluid transfer coupling. 2,815,226, 12-3-57, Cl. 284-19.
- Rowland, Harry E.: *See*—
Biermann, William A., and Rowland. 2,813,579.
- Rowland, Howard J., to The Gabriel Co. Antenna system. 2,778,014, 1-15-57, Cl. 343-770.
- Rowland, John E. Apparatus for chilling and aging animal carcasses. 2,817,957, 12-31-57, Cl. 62-102.
- Rowland, Maurice. Furnace combustion chamber. 2,789,520, 4-23-57, Cl. 110-97.
- Rowlands, Daniel C., to Air Reduction Co., Inc. Piperonylnitide tetrahydrofuranone. 2,776,239, 1-1-57, Cl. 1-7-33.
- Rowlands, Daniel C., to Air Reduction Co., Inc. Polymeric adipate of dimethylhexynediol. 2,806,873, 9-17-57, Cl. 260-485.
- Rowlands, Tom: *See*—
Osborn, Howard, and Rowlands. 2,809,832.
- Rowlands, Tom, to Molins Machine Co. Ltd. Variable speed gearing of the expanding vee pulley type. 2,791,125, 5-7-57, Cl. 74-230.17.
- Rowlands, Tom, and H. Osborn, to Molins Machine Co., Ltd. Machines for performing cutting, creasing, and like operations, on paper, cardboard, and like materials. 2,808,261, 10-1-57, Cl. 271-54.
- Rowse, Robert A., to Norton Co. Grinding wheels. 2,814,554, 11-26-57, Cl. 51-298.
- Roxburgh, Albert, and A. Leigh, to The British Thomson-Houston Co. Ltd. Electric circuit breakers of the air or gas-blast type. 2,794,886, 6-4-57, Cl. 200-148.
- Roxburgh, James M.: *See*—
Spencer, John F., Roxburgh, and Sallans. 2,793,981.
- Roxbury Carpet Co.: *See*—
Parsons, Edgar S. 2,800,146.
- Roxström, Eric B., to Svenska Diamantborrborrnings Aktiebolaget. Device for determining the inclination and direction of drill holes in the ground. 2,791,035, 5-7-57, Cl. 33-205.
- Roy, Emil. Feeder for screw slotting machine. 2,804,235, 8-27-57, Cl. 221-21.
- Roy, Joseph D. Rotatable brush for cleaning nursing nipples. 2,792,579, 5-21-57, Cl. 15-25.
- Roy, Martin: *See*—
Plante, Louis P., and Roy. 2,796,890.
- Roy, Roger D. C.: *See*—
Honore, Etienne A. H., Torcheux, and Roy. 2,785,853.

- Roy, Tuhin K., and H. G. Bocchino, to Chemical Construction Corp. Hydrometallurgical separation of nickel and cobalt. 2,778,728, 1-22-57, Cl. 75-119.
- Roy, Tuhin K., and F. A. Schaufelberger. Method of separating cobalt-nickel-manganese. 2,786,751, 3-26-57, Cl. 75-108.
- Roy, Tuhin K., and L. N. Allen, Jr., to Chemical Construction Corporation. Method for the treatment of waste ferrous sulfate liquors. 2,798,802, 7-9-57, Cl. 75-1.
- Roy, Walter L. Guide head for use in mixing color components in the projection of colored light. 2,817,271, 12-24-57, Cl. 88-112.
- Royal Appliance Mfg. Co.: *See*—
Kasper, Elmer J. 2,786,920.
- Royal Bond, Inc.: *See*—
Marler, Don P. 2,793,417.
- Royal Electric Co., Inc.: *See*—
Levinson, Benjamin L. 2,816,378.
- Royal Electric Corp.: *See*—
Baenziger, Leonard N. 2,789,181.
- Royal Electric, Inc.: *See*—
Boyer, Raymond W. 2,798,670.
- Royal Jet, Inc.: *See*—
Wilson, Burchard W. 2,811,274.
- Royal McBee Corp.: *See*—
Feiertag, Arthur W. 2,815,811.
Frechette, Leo P., Jr. 2,808,142.
Hooe, Hunter E. 2,791,133.
Hooe, Hunter E. 2,791,275.
Kupper, William H. 2,784,829.
Laubert, Harry L. 2,781,884.
Lambert, Harry L. 2,809,738.
Laubert, Harry L., and Mosher. 2,802,163.
Lambert, Harry L., and Mosher. 2,810,466.
Lambert, Harry L., and Spong. 2,808,144.
McBee, Harry B. 2,791,220.
Page, Paul E. 2,788,110.
- Royal Mounters, Inc.: *See*—
Viglietta, Michael J. 2,803,076.
- Royall, William R. Jr., to General Electric Co. Refrigerator sealing gasket. 2,795,019, 6-11-57, Cl. 20-69.
- Royer, George H.: *See*—
Bright, Richard L., and Royer. 2,783,384.
- Royer, John A., to Buckner Mfg. Co., Inc. Sand eliminator bearing for a sprinkler head. 2,797,108, 6-25-57, Cl. 285-14.
- Royer, John A., to Buckner Mfg. Co., Inc. Reversible sprinkler. 2,816,798, 12-17-57, Cl. 299-71.
- Royer, Marcel. Window pane unit. 2,778,070, 1-22-57, Cl. 20-56.5.
- Royer, Stanley H.: *See*—
Hudson, James A., and Royer. 2,808,498.
Miller, Alfred J., and Royer. 2,797,880.
Pilla, Frank J., Young, and Royer. 2,817,745.
- Royet, Paul F. Kinematographic multi-objective camera. 2,778,268, 1-22-57, Cl. 88-16.
- Royle, Edwin B. Pocket ash tray. 2,781,761, 2-19-57, Cl. 131-241.
- Royle, Edwin B. Pocket ash tray. 2,784,720, 3-12-57, Cl. 131-241.
- Royster, F. S., Guano Co.: *See*—
Owen, John W. 2,794,613.
- Rozett, Benjamin. Retractable caster wheel for trailer tongue. 2,810,588, 10-22-57, Cl. 280-150.5.
- Rozmus, Walter J.: *See*—
Barnes, William A., and Rozmus. 2,817,254.
- Rozzell, Lois S.: *See*—
Steirly, Albert R. 2,786,485.
- Ruane, George W. Shoe construction. 2,815,588, 12-10-57, Cl. 36-2.5.
- Ruano, William J., to the United States of America as represented by the United States Atomic Energy Commission. Reactor control. 2,816,068, 12-10-57, Cl. 204-193.2.
- Ruan, Félix F.: *See*—
Molins, Desmond W., Smith, Mason, and Ruan. 2,798,346.
- Rubber Glazing (Patents) Ltd.: *See*—
Dutfield, Albert E. 2,815,105.
- Rubber Stichting: *See*—
Janssen, Hendrik J. J. 2,814,656.
Schaar, Gerrit. 2,785,043.
- Rubberset Co.: *See*—
Hervey, Laurence R. B. 2,814,851.
Thackara, John W., and Franklin. 2,806,803.
- Rubbra, Arthur A.: *See*—
Morley, Frederick W. W., and Rubbra. 2,796,731.
- Ruben, Charlotte: *See*—
Ruben, Louis A. 2,778,263.
- Ruben, Louis A., deceased: C. Ruben, executrix. Slide type musical instrument. 2,778,263, 1-22-57, Cl. 84-330.
- Ruben, Samuel. Primary cell. 2,783,292, 2-26-57, Cl. 136-100.
- Ruben, Samuel. Reserve type dry cell. 2,798,112, 7-2-57, Cl. 136-113.
- Ruben, Samuel. Electric current producing cell. 2,810,006, 10-15-57, Cl. 136-6.
- Ruben, Samuel. Primary cell. 2,814,663, 11-26-57, Cl. 136-119.
- Ruben, Samuel. Electric current producing cell. 2,814,664, 11-26-57, Cl. 136-119.
- Ruben, Samuel. Potential producing cell. 2,816,151, 12-10-57, Cl. 136-83.
- Ruben, Zorro D. Wall tile and means for mounting the same. 2,791,900, 5-14-57, Cl. 72-23.
- Ruben, Zorro D. Portable power table saw. 2,803,275, 8-20-57, Cl. 144-285.
- Rubens, Louis C., to The Dow Chemical Co. Thermoplastic copolymers of monovinylbenzene compounds and high molecular weight polyesters of ethylene-alpha, beta-dicarboxylic acids. 2,780,613, 2-5-57, Cl. 260-45.4.
- Rubenstein, David. Method of making composite structural members. 2,805,448, 9-10-57, Cl. 18-60.
- Rubenstein, Harry J. Pocket for display of merchandise. 2,808,943, 10-8-57, Cl. 211-106.
- Rubenstein, Julia. Detachable fastening member for buttons. 2,804,668, 9-3-57, Cl. 24-103.
- Rubidge, David W.: *See*—
Rabenda, Edward J., and Rubidge. 2,803,402.
- Rubin, Benjamin A.: *See*—
Zaffaroni, Alejandro, and Rubin. 2,812,285.
Zaffaroni, Alejandro, and Rubin. 2,812,286.
- Rubin, Bernard, to Olin Mathieson Chemical Corp. Production of reserpin hypotensive preparation. 2,780,578, 2-5-57, Cl. 167-84.5.
- Rubin, Joseph S. Rocking bed. 2,808,828, 10-8-57, Cl. 128-33.
- Rubin, Louis C.: *See*—
McGrath, Henry G., and Rubin. 2,778,845.
- Rubin, Martin. Sweetening agent and method of preparing the same. 2,782,123, 2-19-57, Cl. 99-141.
- Rubin, Martin, and F. C. Bersworth, to The Dow Chemical Co. Magnesium chelate of ethylenediaminetetraacetic acid for treatment of hypertension. 2,781,291, 2-12-57, Cl. 167-68.
- Rubin, Martin I.: *See*—
Geschickter, Charles F., and Rubin. 2,812,283.
- Rubin, Maxwell: *See*—
Craddock, Charles L. 2,798,171.
- Rubin, Samuel, to Hazeltine Research, Inc. High-frequency wave-signal tuning device. 2,787,705, 4-2-57, Cl. 250-20.
- Rubioff, Morris: *See*—
Gray, Harry J., Jr., Levonian, and Rubioff. 2,791,764.
- Rubinstein, Harry W., to Sprague of Wisconsin, Inc. Volume control unit. 2,808,544, 10-1-57, Cl. 317-242.
- Rubinstein, Helena, Inc.: *See*—
Morgan, William E. 2,776,668.
- Rubissov, George A.: *See*—
Mamon, Michel. 2,802,165.
- Ruble, George B., to Bell Telephone Laboratories, Inc. Communication circuit employing gas tubes. 2,801,284, 7-30-57, Cl. 179-18.
- Ruble, Theodore A.: *See*—
McLain, Joseph H., and Ruble. 2,792,294.
- Rubli, Max, to Holding Interco S. A. Apparatus for conveying welding electrodes through a drying stove. 2,796,166, 6-18-57, Cl. 198-159.
- Rubovitz, Ernest H., and C. G. Keller, to Newark Pattern Works, Inc. Apparatus for making shell molds. 2,798,265, 7-9-57, Cl. 22-9.
- Rubright, Kennard E.: *See*—
Blucher, John W., Rubright, and Peeling. 2,799,318.
- Rubrum, Moses. Handle fastening for garden tool. 2,794,689, 6-4-57, Cl. 306-24.
- Ruby, George H. A.: *See*—
Granade, Fred C., and Ruby. 2,787,815.
- Ruby, Harold W. Portable concrete batching plant. 2,800,312, 7-23-57, Cl. 259-154.
- Ruby, John A., and A. R. Reary, said Ruby assor. to E. I. du Pont de Nemours and Co. Sealing apparatus. 2,781,079, 2-12-57, Cl. 154-42.
- Ruby, Lawrence, R. B. Crawford, and W. G. Pon, to the United States of America as represented by the United States Atomic Energy Commission. Source unit for producing ionized gas. 2,786,143, 3-19-57, Cl. 250-41.9.
- Ruch, Egon. Paper dispenser. 2,797,054, 6-25-57, Cl. 242-55.3.
- Rucker, Henry Q., Sr. Hinged closure prop. 2,795,451, 6-11-57, Cl. 292-306.
- Ruckstahl, Robert E., and R. S. Lackey, to Westinghouse Electric Corp. Control apparatus. 2,787,909, 4-9-57, Cl. 74-5.4.
- Ruckstuhl, Hans, to Saul & Co., as nominee of Fidelity Union Trust Co. Azo dyestuffs of the pyrazolone series. 2,789,975, 4-23-57, Cl. 260-147.
- Ruckstuhl, Hans, and W. Wehrli, to Saul & Co. Cupriferous trisazo dyestuffs. 2,779,755, 1-29-57, Cl. 260-145.
- Ruckstuhl, Hans, and W. Wehrli, to Saul & Co., as nominee of Fidelity Union Trust Co. Metal-containing azo dyestuffs. 2,779,757, 1-29-57, Cl. 160-151.
- Ruckstuhl, Konrad. Extrusion press. 2,810,181, 10-22-57, Cl. 25-15.
- Rudd-Edward Co.: *See*—
Rudd, Walter W., and Benson. 2,811,215.
- Rudd, Hilton A., Sr. Foldable wrench set. 2,807,179, 9-24-57, Cl. 81-71.
- Rudd, Wallace C.: *See*—
Kalning, William C., Stanton, and Rudd. 2,818,489.
- Rudd, Wallace C., to Magnetic Heating Corp. Arc-type oscillators. 2,804,562, 8-27-57, Cl. 313-147.
- Rudd, Wallace C., and R. J. Stanton, to Magnetic Heating Corp. Tube welding. 2,818,488, 12-31-57, Cl. 219-59.

- Rudd, Walter W., and J. E. Benson, to Rudd-Edward Co. Sound reproducing apparatus. 2,811,215, 10-29-57, Cl. 181-31.
- Ruddell, John W. E.: *See*—
Dufault, Emmanuel J., Ruddell, and Campbell. 2,785,719.
- Ruddock, Charles K. Self-charting compass and automatic navigational instrument. 2,792,274, 5-14-57, Cl. 346-8.
- Rude, Raymond C. Metal springboard. 2,805,859, 9-10-57, Cl. 272-66.
- Rudel, Harry W., and M. Gargisa, to Esso Research and Engineering Co. Fuel oil additives. 2,776,878, 1-8-57, Cl. 44-70.
- Rudel, Harry W., and M. Gargisa, to Esso Research and Engineering Co. Rust inhibited distillate products. 2,791,495, 5-7-57, Cl. 44-72.
- Rudel, Harry W., and D. T. Rogers, to Esso Research and Engineering Co. Hydrocarbon oil stabilization. 2,808,320, 10-1-57, Cl. 44-66.
- Rudenaer, Arthur B. Irrigating ring. 2,784,528, 3-12-57, Cl. 47-48.5.
- Ruderman, Irving W., to Isomet Corp. Neutron scintillation counter. 2,799,780, 7-16-57, Cl. 250-71.5.
- Rudge, Alfred J., and A. J. Lowe, to Imperial Chemical Industries Ltd. Process for treating volatile metal fluorides. 2,808,312, 10-1-57, Cl. 23-14.5.
- Rudge, Thomas R., to The General Electric Co. Ltd. A. C. electrical measuring instruments. 2,779,927, 1-29-57, Cl. 336-175.
- Rudi, Baer L. Plastic utensil handle. 2,782,454, 2-26-57, Cl. 16-116.
- Rudiger-Lang Co.: *See*—
Lang, Albert. 2,813,570.
- Rudikoff, Benjamin: *See*—
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- Rudman, Louis, to Vulcan Jet and Turbine Corp. Turbojet engine with ramjet effect. 2,806,646, 9-17-57, Cl. 230-122.
- Rudman, Morris: *See*—
Budnick, Joseph, and Rudman. 2,798,744.
- Rudner, Bernard, to W. R. Grace & Co. Heterocyclic hydraxinium chlorides. 2,783,243, 2-26-57, Cl. 260-309.6.
- Rudner, Bernard, to General Aniline & Film Corp. Heterocyclic fused ring phenols. 2,790,172, 4-23-57, Cl. 260-305.
- Rudner, Merritt A., to United States Gasket Co. Stand-off terminals. 2,785,219, 3-12-57, Cl. 174-166.
- Rudnick, Jacob J. Pad. 2,786,466, 3-26-57, Cl. 128-153.
- Rudnik, Raymond G., R. E. Miller, and H. Borgardt, to Kraft Foods Co. Method of forming a stack of interleaved cheese slices and apparatus therefor. 2,781,272, 2-12-57, Cl. 99-178.
- Rudolph, Erwin: *See*—
Gates, John R., and Rudolph. 2,799,770.
- Rudolph, George, to General Electric Co. Interlock arrangement for a circuit breaker having a stored-energy closing device. 2,781,427, 2-12-57, Cl. 200-50.
- Rudolph, Hans, to Siemens & Halske Aktiengesellschaft. Frequency keying of telegraph apparatus. 2,788,391, 4-9-57, Cl. 178-66.
- Rudolph, Nathan H., to All-Steel Equipment Inc. Adjustable bar hanger for electrical fixtures. 2,809,002, 10-8-57, Cl. 248-205.
- Rudorff, Dagobert W.: *See*—
Fefer, Gregory, and Rudorff. 2,802,929.
- Rudy, Emil, to Loren Cook Co. Ventilators. 2,805,615, 9-10-57, Cl. 98-43.
- Rudy, Erland W., to Bendix Aviation Corp. Phase comparator for direction determination. 2,787,776, 4-2-57, Cl. 340-3.
- Rudy, Marion F.: *See*—
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- Rudy, Marion F., to Borg-Warner Corp. Reciprocating shaft bearing. 2,776,173, 1-1-57, Cl. 308-5.
- Rudy, Stephen J.: *See*—
O'Farrell, Matthew, and Rudy. 2,804,848.
- Rudy, William G.: *See*—
Hoffman, Richard E., and Rudy. 2,776,227.
- Rue, Albert A. Choker links. 2,793,066, 5-21-57, Cl. 294-74.
- Rueckert, Dean E., to Swift & Co. Carton for ice cream. 2,782,980, 2-26-57, Cl. 229-51.
- Rueckert, Dean E., to Swift & Co. Packaging. 2,797,634, 7-2-57, Cl. 100-13.
- Rued, Fred H., to Baldwin-Lima-Hamilton Corp. Governor for a water wheel. 2,782,768, 2-26-57, Cl. 121-42.
- Ruedrich, Paul M., to Nopco Chemical Co. Emulsifiable oil composition. 2,794,000, 5-28-57, Cl. 252-51.5.
- Rueger, Herman, to Radio Corp. of America. Getter assemblies and method of making the same. 2,782,907, 2-26-57, Cl. 206-0.4.
- Ruegg, Max, and V. D. Polhemus, to General Motors Corp. Torsion spring devices. 2,789,812, 4-23-57, Cl. 267-57.
- Ruegg, Rudolf: *See*—
Inhoffen, Hans H., Isler, Montavon, Ruegg, and Zeller. 2,815,388.
- Isler, Otto, Lindlar, Montavon, Ruegg, and Zeller. 2,806,885.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,779,792.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,779,793.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,780,651.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,789,127.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,799,709.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,812,354.
- Isler, Otto, and Ruegg. 2,798,095.
- Liechti, Hans W., and Ruegg. 2,796,422.
- Ruegg, Rudolf, to Ciba Ltd. Basic azo dyestuffs. 2,815,338, 12-3-57, Cl. 260-152.
- Rueggeberg, Walter H. C.: *See*—
Norwood, Samuel L., Rueggeberg, and Sauls. 2,798,089.
- Rueggeberg, Walter H. C., and W. A. Cook, to the United States of America as represented by the Secretary of War, as trustee. Reaction of thiols with olefines. 2,810,687, 10-22-57, Cl. 204-158.
- Rueggeberg, Walter H. C., and T. W. Sauls, to Tennessee Corp. Sulfonation of propylene trimer and tetramer. 2,810,746, 10-22-57, Cl. 260-513.
- Rueggeberg, Werner, to Armstrong Cork Co. Dielectric heating system. 2,813,184, 11-12-57, Cl. 219-10.53.
- Ruehle, Archie E.: *See*—
Mallinckrodt, Edward, Jr., and Ruehle. 2,818,438.
- Ruehle, Archie E., and J. W. Stevenson, to the United States of America as represented by the United States Atomic Energy Commission. Production of uranium. 2,813,018, 11-12-57, Cl. 75-84.1.
- Ruehleman, Herbert E.: *See*—
Menzel, Wolfgang A., and Ruehleman. 2,791,750.
- Ruehlen, Forrest N.: *See*—
Cines, Martin R., and Ruehlen. 2,794,773.
- Davidson, Morgan W., and Ruehlen. 2,792,338.
- Ruehrwein, Robert A., to Monsanto Chemical Co. Chemical product. 2,795,567, 6-11-57, Cl. 260-41.
- Ruehrwein, Robert A., to Monsanto Chemical Co. Modified clays. 2,795,568, 6-11-57, Cl. 260-41.
- Ruekberg, Herbert S., and J. L. Szajna, to Continental Can Co., Inc. Vertical machine with radially moving molds for forming hollow articles. 2,784,452, 3-12-57, Cl. 18-2.
- Ruellus, Hans W., to American Home Products Corp. Process for preparing N-monoacylated glucosamine. 2,792,388, 5-14-57, Cl. 260-211.
- Ruelland, Henry: *See*—
Michaux, Raymond, and Ruelland. 2,815,945.
- Ruelland, Henry, to Institut de Recherches de la Siderurgie. Recording device for a plurality of instantaneous flows as a function of a plurality of flown volumes. 2,800,017, 7-23-57, Cl. 73-195.
- Ruf, Walter: *See*—
Klaue, Hermann. 2,792,919.
- Ruf, Walter. Vehicle with separate steering means for the front and rear sets of wheels. 2,791,438, 5-7-57, Cl. 280-91.
- Rufer, Walter: *See*—
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- Brandstetter, Alois, and Rufer. 2,807,670.
- Rufert Chemical Co.: *See*—
Golwynee, Henry A. 2,787,534.
- Ruff, George H. Stackable tote box construction. 2,777,597, 1-15-57, Cl. 220-4.
- Ruffini, Edith: *See*—
Celapino, Abe D. 2,808,822.
- Rug, John P., to Sylvania Electric Products Inc. Capacity operated control system. 2,782,308, 2-19-57, Cl. 250-36.
- Ruge, Arthur C., to Baldwin-Lima-Hamilton Corp. Load cell support for weighing apparatus. 2,793,851, 5-28-57, Cl. 265-71.
- Ruge, Arthur C., to Baldwin-Lima-Hamilton Corp. Extensometer with adjustable temperature compensation. 2,801,388, 7-30-57, Cl. 324-62.
- Ruge, Arthur C., to Baldwin-Lima-Hamilton Corp. Parallel operation of multiple potentiometer networks. 2,815,480, 12-3-57, Cl. 323-75.
- Ruger, William B., to Strum, Ruger and Co. Spring-pressed pawl for rotating revolver cylinder. 2,806,316, 9-17-57, Cl. 42-59.
- Rugg, Gordon S., to Eastman Kodak Co. Film chopping mechanism. 2,783,839, 3-5-57, Cl. 164-34.
- Rugg, Gordon S., to Eastman Kodak Co. Sorter stacker for cut sheet film. 2,794,637, 6-4-57, Cl. 271-51.
- Rugg, Harold H.: *See*—
Pierson, Paul R., Rugg, and Jank. 2,813,178.
- Rugg, Harold H., to Westinghouse Electric Corp. Disconnecting switch. 2,813,179, 11-12-57, Cl. 200-163.
- Rüggeberg, Hans: *See*—
Ziegler, Carl, Köhler, and Rüggeberg. 2,818,357.
- Ruggeri, Giovanni A., and A. Angioletti, to Pirelli, Società per Azioni. Processes for producing vulcanized rubber compositions, and products thereof. 2,813,566, 11-19-57, Cl. 152-330.
- Ruggiero, Arthur, and C. De Ninne. Combination recoilable dog leash and collar. 2,799,245, 7-16-57, Cl. 119-106.
- Ruggiero, Arthur D., and C. De Ninne. Retractable dog leash attachment for dog collars. 2,817,482, 12-24-57, Cl. 242-107.2.
- Ruggles, Clarence A., to the United States of America as represented by the United States Atomic Energy Commission. Gauging apparatus. 2,803,885, 8-27-57, Cl. 33-174.
- Ruh, Robert P., R. A. Davis, and K. A. Allswede, to The Dow Chemical Co. Preparation of hexadecylbutadiene from symmetrical dichlorodifluoroethylene. 2,777,004, 1-8-57, Cl. 260-653.
- Ruh, Robert P., and R. A. Davis, to The Dow Chemical Co. Production of an antimony-containing fluorinating agent. 2,786,738, 3-26-57, Cl. 23-88.
- Ruhl, Frederick L.: *See*—
Geyer, Howard M., and Ruhl. 2,810,256.
- Ruhland, Louis M. Golf ball retriever. 2,814,520, 11-26-57, Cl. 294-19.

- Ruhlig, Arthur J.: *See*—
 Ruhlig, Earl O. 2,788,443.
 Ruhlig, Earl O. 2,790,109.
- Ruhlig, Earl O., deceased, by A. J. Ruhlig, administrator, to Bell Telephone Laboratories, Inc. Shift register circuit. 2,788,443, 4-9-57, Cl. 250-27.
- Ruhlig, Earl O., deceased, by A. J. Ruhlig, administrator, to Bell Telephone Laboratories Inc. Shift register circuits. 2,790,109, 4-23-57, Cl. 315-84.5.
- Ruhoff, John R., and C. E. Winters, to the United States of America as represented by the United States Atomic Energy Commission. Uranium purification process. 2,813,001, 11-12-57, Cl. 23-14.5.
- Ruhoff, John R., G. L. Martin, and J. W. Pollock, to Mallinckrodt Chemical Works. Process for separating values of titanium from columbium and tantalum values. 2,816,815, 12-17-57, Cl. 23-17.
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 Büchner, Karl. 2,780,643.
 Büchner, Karl, and Kühnel. 2,810,680.
 Feichtinger, Hans. 2,806,056.
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- Ruhrgas Aktiengesellschaft: *See*—
 Jüst, Hans. 2,799,565.
- Ruist, John T.: *See*—
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- Rule, Edwin L.: *See*—
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- Rulison, Raymond L.: *See*—
 Johnston, Ralph L., and Rulison. 2,792,420.
- Rulison, Richard N., E. T. Jones, Jr., and R. O. Denyes, to Celanese Corp. of America. Control system, wet spinning process and apparatus. 2,777,160, 1-15-57, Cl. 18-8.
- Rulon-Miller, Robert, and W. H. Tabor, to Dixon Lubricating Saddle Co. Spinning frame. 2,810,938, 10-29-57, Cl. 19-136.
- Rulseh, Elroy M., to Cleaver-Brooks Co. Oil burner purge method and system. 2,818,110, 12-31-57, Cl. 158-36.
- Rulseh, Roger D., to Hamilton Mfg. Co. Pilot control for gas heated laundry dryer. 2,797,909, 7-2-57, Cl. 263-33.
- Rumanowski, Edmund J.: *See*—
 Gilbert, Everett E., and Rumanowski. 2,786,798.
- Rumbaugh, Hugh M. Wall-hung cabinet dishwasher. 2,790,451, 4-30-57, Cl. 134-186.
- Rumbaugh, Lynn H. Method and means for measuring speed and deflection of a running torpedo. 2,807,164, 9-24-57, Cl. 73-167.
- Rumbaugh, Lynn H., and H. Jensen. Magnetic exploration apparatus. 2,779,914, 1-29-57, Cl. 324-4.
- Rumberg, Alfred: *See*—
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- Rumberger, Chester P., to E. W. Thompson. Pottery press. 2,779,989, 2-5-57, Cl. 25-27.
- Rumble, Robert C., to Esso Research and Engineering Co. Well packer. 2,781,852, 2-19-57, Cl. 166-120.
- Rumble, Robert C., to Esso Research and Engineering Co. Flowmeter for wells. 2,783,646, 3-5-57, Cl. 73-155.
- Rumble, Robert C., to Esso Research and Engineering Co. Density compensating flowmeter. 2,800,019, 7-23-57, Cl. 73-209.
- Rumble, Robert C., and B. A. Peters, to Esso Research and Engineering Co. Subsurface flowmeter. 2,779,192, 1-29-57, Cl. 73-155.
- Rumble, Robert C., and B. A. Peters, to Esso Research and Engineering Co. Packer for wells. 2,781,853, 2-19-57, Cl. 166-137.
- Rumble, Roy W. Method of making a floor slab. 2,780,935, 2-12-57, Cl. 72-77.
- Rummery, Frank O.: *See*—
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- Rumscheldt, Gottfried E.: *See*—
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- Rumsey, Herbert, Jr., to W. R. Grace & Co. Apparatus for heat sealing and severing thermoplastic material. Re. 24,396, 11-26-57, Cl. 53-219.
- Rumsey, Herbert, Jr., to Glaz-Wrap Packaging Co. Heat shrinking apparatus. 2,785,519, 3-19-57, Cl. 53-184.
- Rumsey, Herbert, Jr., to Glaz-Wrap Packaging Co. Method of making a food package. 2,801,180, 7-30-57, Cl. 99-171.
- Rumsey, Jon D., to Union Steel Products Co. Collapsible portable grill. 2,787,996, 4-9-57, Cl. 126-25.
- Runciman, William A., to General Electric Co. Luminescent alkaline earth oxides. 2,791,565, 5-7-57, Cl. 252-301.4.
- Rundblad, George J.: *See*—
 Cairelli, Eremildo, and Rundblad. 2,813,440.
- Runde, Byron A., to Burroughs Corp. Multiple register for calculating machines. 2,807,412, 9-24-57, Cl. 235-60.48.
- Runde, Byron A., I. W. Borutzke, and F. A. Mathamel, to Burroughs Corp. Accounting apparatus. 2,812,902, 11-12-57, Cl. 235-60.13.
- Rundt, John W., to The Timken Roller Bearing Co. Orientation testing device for work feeders. 2,777,261, 1-15-57, Cl. 51-215.
- Rune, Adolph, and R. M. Faust, to Swift & Co. Sausage destripping apparatus. 2,795,811, 6-18-57, Cl. 17-1.
- Runge, Wallace F., to Commercial Solvents Corp. Production of cycloserine. 2,794,022, 5-28-57, Cl. 260-307.
- Runge, Wallace F., to Commercial Solvents Corp. Process of producing acetyl cycloserine. 2,815,348, 12-3-57, Cl. 260-307.
- Runge, Walter F., to the United States of America as represented by the Secretary of the Army. Link extractor for revolver type automatic gun. 2,777,236, 1-15-57, Cl. 42-68.
- Runk, Robert H.: *See*—
 Baldwin, David B., and Runk. 2,801,672.
- Runkel, La Vern E., and R. J. Zielinski, to Air Reduction Co., Inc. Sutures. 2,796,984, 6-25-57, Cl. 206-63.3.
- Runken, Gerd, to ACF Industries, Inc. Brake slack adjuster. 2,812,042, 11-5-57, Cl. 188-198.
- Runkle, George L., to Superior Coach Corp. Breakable connection in link arm of a door operator. 2,789,813, 4-23-57, Cl. 268-62.
- Runnalls, Oliver J. C., to the United States of America as represented by the United States Atomic Energy Commission. Method of alloying reactive metals with aluminum or beryllium. 2,809,887, 10-15-57, Cl. 75-122.7.
- Runniger, Frederick L., E. C. Webb, and R. C. Wright, to Iron Fireman Mfg. Co. Oil burner secondary air control system. 2,804,916, 9-3-57, Cl. 158-1.5.
- Runsdorf, H. Norman: *See*—
 Bell, Keith L. 2,817,785.
- Runsdorf, Herbert J. A.: *See*—
 Bell, Keith L. 2,817,785.
- Runtun, Leslie A., to The Russell Mfg. Co. Method of making a conveyor belt. 2,797,729, 7-2-57, Cl. 154-4.
- Runtun, Leslie A., to Mohasco Industries, Inc. Apparatus for dyeing yarns and fabrics. 2,804,764, 9-3-57, Cl. 68-13.
- Runtun, Leslie A., to The Russell Mfg. Co. Method and apparatus for making friction material. 2,815,793, 12-10-57, Cl. 154-1.
- Runyon, George E. Snap-on back guide for printing press. 2,811,354, 10-29-57, Cl. 271-60.
- Rünzl, Kurt. Feeder in paper-sheet folding machine. 2,808,260, 10-1-57, Cl. 271-36.
- Ruocco, Albert A.: *See*—
 Chedister, Conking, and Ruocco. 2,804,306.
- Ruoff, Gerhard: *See*—
 Lee, Doran M., and Ruoff. 2,814,051.
- Ruoff, Robert. Punching apparatus. 2,799,336, 7-16-57, Cl. 164-50.
- Rupe, Don O., Jr. Cart construction. 2,813,646, 11-19-57, Cl. 214-373.
- Rupp, Fritz: *See*—
 Dietrich, Paul, Kolland, and Rupp. 2,791,176.
- Rupp, Richard L.: *See*—
 Morrison, George H., and Rupp. 2,814,592.
- Rupp, Theodore A. Sanding disc. 2,807,918, 10-1-57, Cl. 51-195.
- Rupp, Walter: *See*—
 Ebel, Friedrich, Randebrock, and Rupp. 2,792,397.
- Rupp, Warren E., to The Gorman-Rupp Co. Self-priming centrifugal pump. 2,791,968, 5-14-57, Cl. 103-113.
- Rupp, Warren E., to The Gorman-Rupp Co. Diaphragm pump. 2,811,929, 11-5-57, Cl. 103-150.
- Rupp, William C., to The Chandler & Price Co. Gauge for paper cutting and like machines. 2,781,093, 2-12-57, Cl. 164-59.
- Ruppe, Peter P. Propelling linkage for tube type conveyor. 2,776,042, 1-1-57, Cl. 198-176.
- Ruppel, Harold E., to The Magnavox Co. Detonating device. 2,796,025, 6-18-57, Cl. 102-70.2.
- Rusca, Ralph A.: *See*—
 Young, Ray C., and Rusca. 2,780,839.
- Rusca, Ralph A., and J. J. Brown, to the United States of America as represented by the Secretary of Agriculture. Fabric abrader. 2,797,574, 7-2-57, Cl. 73-7.
- Rusch, Adolphe, to the United States of America as represented by the Secretary of the Army. Apparatus for making non-woven tubular fabric. 2,782,833, 2-26-57, Cl. 154-1.7.
- Rusch, Kenneth A., to Milprint, Inc. Method and apparatus for producing flexible containers. 2,800,163, 7-23-57, Cl. 154-42.
- Rusch, Kenneth A., and E. Hillman, to Milprint, Inc. Device for seaming thermoplastic bags. 2,780,275, 2-5-57, Cl. 154-42.

- Rusch, William H., to Worldsbest Industries, Inc. Collapsible cart. 2,812,188, 11-5-57, Cl. 280-41.
- Rusche, Hans. Apparatus for heat treating bulk material. 2,799,489, 7-16-57, Cl. 263-32.
- Ruschig, Heinrich, J. Schmidt-Thome, W. Fritsch, and W. Haede, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing 17-hydroxy compounds of the steroid series. 2,794,034, 5-28-57, Cl. 260-397.
- Ruschman, Gordon A., to The Richardson Co. Shatter-resistant hard rubber compositions and method of making them. 2,781,147, 2-12-57, Cl. 220-21.
- Ruschmann, Wilhelm: See—
- Daniels, Joseph, Rindtorff, and Ruschmann. 2,797,979.
- Rusciano, Frank A., to Metallurgical Processes Co. Two stage combustion furnace. 2,799,490, 7-16-57, Cl. 263-40.
- Rusciano, Frank A., to Metallurgical Processes Co. Furnace for production of controlled furnace atmosphere with recuperative preheating. 2,799,491, 7-16-57, Cl. 266-5.
- Rusclitti, Claude F. Keyhole illuminator. 2,790,068, 4-23-57, Cl. 240-213.
- Rush, Albert J. Bed block resurfacing machine for attachment to a garment die cutting machine. 2,777,262, 1-15-57, Cl. 51-241.
- Rush, Cecil A., S. S. Cruikshank, S. Sass, and T. N. Zenk, to the United States of America as represented by the Secretary of the Army. Hydrazine combustion mixtures. 2,807,565, 9-24-57, Cl. 167-40.
- Rush, Dale B., to The Reliance Electric and Engineering Co. Belt. 2,775,902, 1-1-57, Cl. 74-234.
- Rush, Jane E. Combination bathing cap and earrings. 2,814,806, 12-3-57, Cl. 2-68.
- Rush, John W.: See—
- McClure, Glenn T., and Rush. 2,812,984.
- McClure, Glenn T., Rush, and Cook. 2,785,933.
- Rush, John W., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,789,019, 4-16-57, Cl. 303-60.
- Rush, Leslie V. Medullary pin driver and extractor. 2,789,558, 4-23-57, Cl. 128-83.
- Rush Stamping Co., The: See—
- Roesch, George B. 2,787,168.
- Roesch, George R. 2,792,720.
- Rush, Stanley L. Adjustable eye shield for welder helmets. 2,817,087, 12-24-57, Cl. 2-8.
- Rushford, Wilson H.: See—
- King, William R., and Rushford. 2,779,468.
- Larson, Harold A., and Rushford. 2,785,053.
- Rowe, Fred, Jr., and Rushford. 2,813,040.
- Rushford, Wilson H., to Phillips Petroleum Co. Process and apparatus for injecting a fluid into a dispersion zone. 2,812,929, 11-12-57, Cl. 261-17.
- Rushon, Eugene R. Material for cleaning silver. 2,807,584, 9-24-57, Cl. 252-91.
- Ruska, Ernst, to Siemens & Halske Aktiengesellschaft. Device for adjusting the refractive power of electron lenses operating with permanent magnet excitation. 2,804,548, 8-27-57, Cl. 250-49.5.
- Ruskin, Robert E., and G. W. S. Johnson. Apparatus for determining the rate of indicated air speed acceleration. 2,799,164, 7-16-57, Cl. 73-182.
- Ruskin, Simon L. Process for the preparation of synthetic chocolate and the resulting product. 2,816,834, 12-17-57, Cl. 99-14.
- Rusoff, Samuel: See—
- Pearson, Edward P., and Rusoff. 2,814,567.
- Pearson, Edward P., and Rusoff. 2,814,568.
- Russ, John, Jr., 40% to P. Kossman and 20% to R. Bronk. Torch type highway flare. 2,811,031, 10-29-57, Cl. 67-55.
- Russell, Albert: See—
- Waite, Griffin G., and Russell. 2,807,782.
- Russell, Alfred W., to Allen B. Du Mont Laboratories, Inc. Direct-coupled amplifier. 2,777,018, 1-8-57, Cl. 179-171.
- Russell, Alexander G., to Western Electric Co., Inc. Methods of plating articles. 2,816,066, 12-10-57, Cl. 204-37.
- Russell, Alexander H., to The Burns & Russell Co. of Baltimore City. Method of producing coated masonry building units. 2,814,836, 12-3-57, Cl. 18-60.
- Russell, Allen S., to Aluminum Co. of America. Method of degassing molten metals. 2,809,107, 10-8-57, Cl. 75-67.
- Russell, Alva G., to Pitney-Bowes, Inc. Numeral wheel registering mechanism. 2,778,568, 1-22-57, Cl. 235-136.
- Russell, Andrew C. Enclosed breaker point apparatus. 2,810,796, 10-22-57, Cl. 200-30.
- Russell, Andrew C. Breaker point. 2,814,682, 11-26-57, Cl. 200-30.
- Russell, Arthur G., F. A. Clary, Jr., F. B. Casey, and R. E. Dallan, to W. R. Grace & Co. Package sealing machine. 2,806,632, 9-17-57, Cl. 221-71.
- Russell, Arthur G., F. A. Clary, Jr., F. B. Casey, and R. E. Dallan, to W. R. Grace & Co. Package sealing machine. 2,812,628, 11-12-57, Cl. 53-138.
- Russell, Arthur L.: See—
- Du Chene, Roy J. 2,802,687.
- Russell, Bennett D., to Elkhart Brass Mfg. Co., Inc. Adjustment indicator for fire hose nozzle. 2,816,800, 12-17-57, Cl. 299-136.
- Russell, Billy N.: See—
- Anderson, Roy E., Lamberson, Russell, and Smart. 2,806,429.
- Russell, Cecil H., to Monsanto Chemical Co. Stabilized sodium acid pyrophosphate of improved doughnut baking properties and method of producing same. 2,796,324, 6-18-57, Cl. 23-106.
- Russell, Charles, to Bendix Aviation Corp. Indicating and control system for fluid sustaining craft. 2,778,984, 1-22-57, Cl. 318-189.
- Russell, Cyril H.: See—
- Corrick, Denis W., and Russell. 2,792,784.
- Russell, Edgar L.: See—
- Zubal, Anthony, and Russell. 2,803,274.
- Russell, Edwin R., A. W. Adamson, J. Schubert, and G. E. Boyd, to the United States of America as represented by the United States Atomic Energy Commission. Process of removing plutonium values from solution with group IV B metal phospho-silicate compositions. 2,811,416, 10-29-57, Cl. 23-14.5.
- Russell, Emory S. Continuous calendar. 2,815,596, 12-10-57, Cl. 40-115.
- Russell, Frank J., to Cutler-Hammer, Inc. Electric switch operating structure. 2,794,882, 6-4-57, Cl. 200-104.
- Russell, Fred J. Adjustable strike plate. 2,798,754, 7-9-57, Cl. 292-341.18.
- Russell, George E., Jr., to United Shoe Machinery Corp. Conveyor systems. 2,777,564, 1-15-57, Cl. 198-109.
- Russell, George F.: See—
- Mann, Julius W., and Russell. 2,777,022.
- Russell, Glen A., and F. R. Mayo, to General Electric Co. Catalytic hydrogenation of styrene peroxide. 2,794,055, 5-28-57, Cl. 260-618.
- Russell, James B., to Kaiser Aluminum & Chemical Corp. Aluminum coated ferrous article. 2,782,493, 2-26-57, Cl. 29-196.2.
- Russell, James B., M. C. Fetzner, and L. H. Belz, to Kaiser Aluminum & Chemical Corp. Method and apparatus for treating material. 2,804,976, 9-3-57, Cl. 210-78.
- Russell, James L., to The English Electric Co. Ltd. Gimbal mechanisms. 2,786,361, 3-26-57, Cl. 74-95.
- Russell, Jennings W. Gaff. 2,789,856, 4-23-57, Cl. 294-61.
- Russell, John D., to Joy Mfg. Co. Material disintegrating and removing apparatus. 2,781,187, 2-12-57, Cl. 262-9.
- Russell, John D., to Joy Mfg. Co. Conveying machine. 2,788,114, 4-9-57, Cl. 198-100.
- Russell, John D., to Joy Mfg. Co. Mobile loading machine. 2,793,732, 5-28-57, Cl. 198-10.
- Russell, John D., to Joy Mfg. Co. Loading apparatus for tunnel work. 2,796,969, 6-25-57, Cl. 198-92.
- Russell, John D., to Joy Mfg. Co. Tunneling apparatus. 2,796,999, 6-25-57, Cl. 214-41.
- Russell, John D., to Joy Mfg. Co. Continuous mining apparatus of the pivoted boom type. 2,798,714, 7-9-57, Cl. 262-29.
- Russell, John D., to Joy Mfg. Co. Dislodging and disintegrating mechanism for a continuous miner. 2,806,683, 9-17-57, Cl. 262-29.
- Russell, John G. Manually operated mechanism for closing float controlled pilot valve. 2,780,234, 2-5-57, Cl. 137-390.
- Russell, John G., to The Parker Appliance Co. Weight operated pre-check mechanism. 2,780,235, 2-5-57, Cl. 137-390.
- Russell, John G. Locking and releasing mechanism for float controlled pilot valve. 2,780,236, 2-5-57, Cl. 137-390.
- Russell, John G., to The Parker Appliance Co. Pre-check mechanism for a liquid level control valve. 2,780,237, 2-5-57, Cl. 137-390.
- Russell, John G., to The Parker Appliance Co. Accumulator piston. 2,780,504, 2-5-57, Cl. 309-4.
- Russell, John G. Level control valves for tanks. 2,781,772, 2-19-57, Cl. 137-411.
- Russell, John H.: See—
- Cheney, Gordon H., Russell, and Whitener. 2,813,421.
- Russell, John J.: See—
- Ball, Jack, and Russell. 2,796,528.
- Ball, Jack, and Russell. 2,810,078.
- Russell, John J. Mixing valve. 2,800,923, 7-30-57, Cl. 137-636.2.
- Russell, John J., and W. A. Beck, to National Glaco Chemical Corp. Processed drawn implement. 2,801,604, 8-6-57, Cl. 113-120.
- Russell, John K., and W. W. Boggs, to Luber-Finer Inc. Sealing structure. 2,801,764, 8-6-57, Cl. 220-46.
- Russell, Jolly T., to Panhandle Eastern Pipe Line Co. Apparatus for burning sulfur and treating liquids with the combustion gases therefrom. 2,807,522, 9-24-57, Cl. 23-278.
- Russell, Kenneth L., and M. F. Nelson, Jr., to Colgate-Palmolive Co. Dextran dentifrice preparations. 2,779,708, 1-29-57, Cl. 167-93.
- Russell, Lee E. Adjustable continuous spiral guide for containers. 2,777,567, 1-15-57, Cl. 198-211.
- Russell, Leslie W., to Solar Aircraft Co. Convolution forming methods and apparatus. 2,781,075, 2-12-57, Cl. 153-77.
- Russell, Linus E., to Peters & Russell, Inc. Transom drive. 2,809,605, 10-15-57, Cl. 115-41.
- Russell Mfg. Co., The: See—
- Gatzke, Ernest F. 2,794,450.
- Runton, Leslie A. 2,797,729.
- Runton, Leslie A. 2,815,799.
- Sullivan, Leo S. 2,794,653.
- Sullivan, Leo S. 2,794,654.
- Walters, Gustav. 2,804,098.
- Walters, Gustav, and Mann. 2,803,288.
- Walters, Gustav, Rasero, and Brownlow. 2,801,456.

- Russell, Mark N., to Pass & Seymour, Inc. Snap switch for tools. 2,779,835, 1-29-57, Cl. 200-76.
- Russell, Martin I. Walking aid. 2,811,978, 11-5-57, Cl. 135-45.
- Russell, Obed M., and C. T. Breitenstein, to R. T. Moloney. Metering valve for pocket lighters. 2,804,763, 9-3-57, Cl. 67-71.
- Russell, Richard A. Device for halving English muffins. 2,810,416, 10-22-57, Cl. 146-72.
- Russell, Richard D. Wood slicing machines. 2,809,682, 10-15-57, Cl. 144-178.
- Russell, Richard E. Bridge for piggyback flat cars. 2,788,751, 4-16-57, Cl. 105-458.
- Russell, Robert C., to Eaton Mfg. Co. Friction brake. 2,777,542, 1-15-57, Cl. 188-78.
- Russell, Robert C., to Eaton Mfg. Co. Screw-nut actuator. 2,791,129, 5-7-57, Cl. 74-441.
- Russell, Robert C., to Eaton Mfg. Co. Torque converter with reversely rotatable turbine member. 2,795,152, 6-11-57, Cl. 74-677.
- Russell, Robert C., to Eaton Mfg. Co. Dual turbine torque converter. 2,795,153, 6-11-57, Cl. 74-677.
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- Russell, Theodore. Wire newspaper and book holder. 2,778,152, 1-22-57, Cl. 45-57.
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- Russell, William W., and H. C. Allen, to Sayles Finishing Plants, Inc. Method of making multiple coated calendered pattern fabric. 2,776,868, 1-8-57, Cl. 8-114.5.
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- Russo, Donald J. Microphone arrangement for accordians. 2,787,183, 4-2-57, Cl. 84-104.
- Russo, Frank X., to Vitogen Products, Inc. Method of stabilizing lauryl pyridinium hydrochloride. 2,776,291, 1-1-57, Cl. 260-290.
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- Rust, Carl F.: See—
- Mueller, William F., and Rust. 2,802,172.
- Rust Craft Publishers, a division of United Printers and Publishers Inc.: See—
- Callor, Solomon. 2,791,048.
- Rust, Frederick F.: See—
- Porter, Lee M., and Rust. 2,792,430.
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- Vaughan, William E., Rust, and Bell. 2,818,441.
- Rust, Frederick F., and G. Fuller, to Shell Development Co. Addition of methylol groups to saturated hydrocarbons by reaction with formaldehyde and organic peroxides. 2,818,440, 12-31-57, Cl. 260-617.
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- Rust, James H. Fixture clamp. 2,811,879, 11-5-57, Cl. 77-62.
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- Ruszkowski, Stanley J., and F. E. Pietruszynski. Counter-flow condenser. 2,804,283, 8-27-57, Cl. 257-43.
- Rutenberg, Morton W.: See—
- Wurzberg, Otto B., Rutenberg, and Ross. 2,786,833.
- Rutenberg, Morton W., and W. Herbst, to National Starch Products Inc. Process for extraction of hemicellulose. 2,801,955, 8-6-57, Cl. 195-9.
- Rutgers Research and Educational Foundation: See—
- Waksman, Selman A., and Lechevalier. 2,799,620.
- Rutgerswerke-Aktiengesellschaft: See—
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- Lang, Karl F., Damm, and Turowski. 2,790,017.
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- Ruth, Finley R. Target assembly for marble game. 2,811,358, 10-29-57, Cl. 273-102.
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- Ruth, Joseph P. Exhaust gas conditioner. 2,785,962, 3-19-57, Cl. 23-284.
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- Rutherford, Robert E.: See—
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- Rutherford, William E.: See—
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- Rutkosky, Francis A.: See—
- Christie, Peter S., Hall, and Rutkosky. 2,808,355.
- Rutkowski, Rudi: See—
- Priewe, Hans, and Rutkowski. 2,776,241.
- Rutledge, Edward T.: See—
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- Rutledge, Joseph D., to Sperry Rand Corp. Half-adder for computing circuit. 2,806,648, 9-17-57, Cl. 235-61.
- Rutledge, Thomas F.: See—
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- Rutter, Alvah E., to J. I. Case Co. Angling device for multiple gang disk harrows. 2,812,629, 11-12-57, Cl. 55-8.3.
- Rutter, Charles R.: See—
- Kennicott, Wilbur L., and Rutter. 2,787,823.
- Rutter, Donald E., to International Business Machines Corp. Binary code converter. 2,792,174, 5-14-57, Cl. 235-61.
- Rutz, Richard F.: See—
- Hunter, Lloyd P., Rutz, and Tucker. 2,810,870.
- Ruwhof, Jan W.: See—
- Mondria, Hendrik, Ruwhof, and Sweep. 2,791,539.
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- Ruyle, William V.: See—
- Hirschmann, Ralph F., Wendler, and Ruyle. 2,779,774.
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- Protopapa, Sejj, Ela, and Mandyc. 2,796,668.
- Ryan, Ella C. Callus eradicator. 2,792,001, 5-14-57, Cl. 128-153.
- Ryan, Francis J. Automatic player-diversified scoring game. 2,780,461, 2-5-57, Cl. 273-94.
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- Ryan, James F., Jr., and J. J. Kapp, to James Dole Engineering Co. Filling apparatus and method. 2,785,706, 3-19-57, Cl. 141-1.
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- Ryan, Martin A., to Phillips Petroleum Co. Explosive apparatus. 2,797,892, 7-2-57, Cl. 255-1.
- Ryan Recording Thermometer Co.: See—
- Bristol, Donald R. 2,786,548.
- Ryan, Thomas D. Electric weapons. 2,805,067, 9-3-57, Cl. 273-106.5.
- Ryan Transfer & Storage: See—
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- Ryan, William, to H. L. McCarthy, as Commissioner of Welfare of the City of New York. Vacuum sealed remote control variable resistor. 2,793,274, 5-21-57, Cl. 201-48.
- Ryan, William H., to Polaroid Corp. Method for producing stereoscopic prints containing improved light-polarizing images and the product of said method. 2,811,893, 11-5-57, Cl. 88-29.
- Ryan, William R.: See—
- Ries, Rudy F., and Ryan. 2,793,827.
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- Rydberg, George E. Variable capacity rotary pump. 2,804,827, 9-3-57, Cl. 103-120.
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- Landqvist, Nils D. 2,780,459.
- Ryde, John L., to McCulloch Motors Corp. Variable speed electric motor drive system. 2,790,125, 4-23-57, Cl. 318-251.
- Ryden, Eric H., to Scaife Co. Gaseous fuel burner. 2,814,338, 11-26-57, Cl. 158-116.
- Ryden, Isabelle: See—
- Julian, Percy L., Meyer, Ryden, and Karpel. 2,816,108.
- Ryder, Frank A.: See—
- Collins, Arthur R., Ryder, and Randall. 2,811,166.
- Ryder, Frank A., to Stewart-Warner Corp. Spinner type liquid fuel burner. 2,787,319, 4-2-57, Cl. 158-4.
- Ryder, Frank A., and S. I. Wendell, to Stewart-Warner Corp. Fuel supply system for vehicle heater. 2,775,944, 1-1-57, Cl. 103-44.
- Ryder, Frank A., and S. I. Wendell, to Stewart-Warner Corp. High and low pressure fuel system. 2,804,018, 8-27-57, Cl. 103-4.
- Ryder Mfg. Co.: See—
- Kurzbirn, Karl R. 2,775,785.
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- Ryerson, Clifford M., and J. T. Bull. Transient peak voltmeter. 2,778,996, 1-22-57, Cl. 324-102.
- Rykert, Willard C., to Whirlpool Corp. Suction indicator for vacuum cleaner. 2,815,733, 10-10-57, Cl. 116-114.
- Rylander, John V. Sashless window. 2,782,466, 2-26-57, Cl. 20-52.2.
- Rylander, Paul N., and W. J. Zimmerschied, to Standard Oil Co. Method of desulfurizing hydrocarbon oil using hydrogen and a cobalt ferrite or nickel ferrite catalyst. 2,805,187, 9-3-57, Cl. 196-28.
- Ryman Engineering Co.: See—
- Roberts, William D. 2,798,340.
- Rymland, Murray J. Spring cushion assembly. 2,791,783, 5-14-57, Cl. 5-275.
- Rynn, Nathan: See—
- Law, Harold B., Evans, and Rynn. 2,797,331.
- Rynn, Nathan, to Radio Corp. of America. Color kinescope switching-grid capacitance compensation. 2,794,064, 5-28-57, Cl. 178-5.4.
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- Ryon, Chester R. Handbag and replaceable wraparound cover flap therefor. 2,798,524, 7-9-57, Cl. 150-28.
- Rys, Ladislav J., to M. H. Treadwell Co., Inc. Process for the disinfection of fibrous vegetable materials. 2,799,580, 7-16-57, Cl. 92-9.
- Rywak, John: See—
- Tanner, Robert H., and Rywak. 2,779,005.
- Rzasa, Michael J.: See—
- Behning, Paul D., Glass, and Rzasa. 2,803,305.
- Rzepecki, Josef, to Societe Anonyme Adolphe Saurer. Exhaust control for two-cycle internal combustion engines. 2,798,466, 7-9-57, Cl. 123-65.
- S. A. F. F. A.-S. p. A. Fabbrie Fiammiferi ed Affini: See—
- Molla, Pietro. 2,782,852.
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- S. A. S. Lavorazione Materie Plastiche (L. M. P.) di M. I. Colombo & C.: See—
- Colombo, Roberto. 2,786,264.
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- "S. A. T. A. M. Societe Anonyme pour Tous Appareillages Mecaniques": See—
- Carriol, Louis A. 2,787,294.
- Carriol, Louis A. 2,796,090.
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- S & C Electric Co.: See—
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- Barta, Henry J. 2,816,982.
- Conrad, John R. 2,806,919.
- Gussow, William A. 2,818,474.
- Lindell, Sigurd I. 2,816,978.
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- Mikos, John J. 2,793,267.
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- Horton Earl L. 2,791,870.
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- Reavis, William J., and Schutte. 2,818,106.
- Schutte, Ethel, and Reavis. Re. 24,279.
- S-J Chemical Co.: See—
- Smith-Johannsen, Robert. 2,803,566.
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- SKB Schuechtermann & Kremer-Baum Aktiengesellschaft fuer Aufbereitung: See—
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- S K F Industries, Inc.: See—
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- SKF Kugellagerfabriken, Gesellschaft mit beschränkter Haftung: See—
- Dausch, Erwin. 2,814,838.
- Kempe, Erhard B. 2,793,400.
- S & L Sales, Inc.: See—
- Emmons, Robert A. 2,781,948.
- S. O. S. Co., The: See—
- Cameron, John A. 2,812,853.
- S. p. A. Cambi Idraulici Badalini: See—
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- Marforio, Nerino, Biffi, and Burlone. 2,799,236.
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- Sabel, Edward R.: See—
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- Sachs, Hans W. Valve mechanism. 2,797,888, 7-2-57, Cl. 251-252.
- Sachtleber, Rudolph H. Reciprocating pump. 2,798,437, 7-9-57, Cl. 103-38.
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- Sackner Products, Inc.: See—
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- Sackrider, Agnes L. Method of and means for making cloth-covered buckles. 2,798,389, 7-9-57, Cl. 79-5.
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- Saddoris, Rex W. Adjustable steady rest for turret lathes and automatic screw machines. 2,791,928, 5-14-57, Cl. 82-38.
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- Sadler, Bernice L. Applicator for nail polish remover and the like having wringing means thereon. 2,804,636, 9-3-57, Cl. 15-119.
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Hilsinger, Arthur R. 2,791,446.
Johnson, Charles W. 2,808,651.
- Sadler, Carl L., Jr., R. H. Eisengrein, and G. H. Hermanson, to Sundstrand Machine Tool Co. Control means for constant speed hydraulic pump and motor transmission. 2,803,112, 8-20-57, Cl. 60-53.
- Sadler, Fred S., to The Sharples Corp. Production of fatty acids from soaps. 2,802,845, 8-13-57, Cl. 260-413.
- Sadler, Harry J.: See—
Cook, Ernest E., and Sadler. 2,776,625.
- Sadler, Harry J., and E. E. Cook. Fluid-pressure-operated fluid injector. 2,781,163, 2-12-57, Cl. 230-52.
- Sadler, Helen K. Orthopaedic exercising device. 2,817,524, 12-24-57, Cl. 272-79.
- Sadler, John W. Dairymen's sun drier and sweetener. 2,810,208, 10-22-57, Cl. 34-93.
- Sadloski, Clara J.: See—
Sadloski, Stanley P. and C. J. 2,782,849.
- Sadloski, Stanley P., and C. J. Curtain hold back. 2,782,849, 2-26-57, Cl. 160-330.
- Sadowsky, Charles. Tape holder. 2,792,186, 5-14-57, Cl. 242-84.9.
- Sadtler, Chester B., to the United States of America as represented by the Secretary of the Navy. Retarder device. 2,788,090, 4-9-57, Cl. 188-1.
- Saeli, Anthony. Carrier for garbage cans and the like. 2,818,271, 12-31-57, Cl. 280-79.2.
- Saeman, Walter C., to Olin Mathieson Chemical Corp. Web guide control device. 2,777,069, 1-8-57, Cl. 250-219.
- Saenz, Eustolio G. Trailer tongue and hitch therefor. 2,803,362, 8-20-57, Cl. 214-506.
- Saetter-Lassen, Erik. Return and buffer mechanism for automatic shooting weapons. 2,779,249, 1-29-57, Cl. 89-198.
- Saetter-Lassen, Erik. Regulating mechanism to control the feeding of cartridges in belt-fed machine guns. 2,797,622, 7-2-57, Cl. 89-33.
- Saetter-Lassen Erik. Safety device for automatic firearms. 2,807,196, 9-24-57, Cl. 89-142.
- Safarik, Edgar R., to Leich Electric Co. Telephone set. 2,812,387, 11-5-57, Cl. 179-100.
- Safe, Inc.: See—
Mayer, Carl H., Jr. 2,785,838.
- Safe Padlock and Hardware Co., The: See—
Adams, Arthur R. 2,807,489.
- Safety First Supply Co.: See—
Phillips, Robert A. 2,807,035.
- Safety Industries, Inc.: See—
Seidel, Robert B., and Vercella. 2,813,165.
- Safety Skate Co.: See—
Beck, Samuel J. 2,782,728.
- Saffer, Alfred: See—
Brown, David, and Saffer. 2,789,988.
Landau, Ralph, and Saffer. 2,814,628.
- Saffert, George J. Apparatus for facing hardened concrete blocks. 2,804,671, 9-3-57, Cl. 25-45.
- Saffir, Jacob A. Filter type cigarettes. 2,804,078, 8-27-57, Cl. 131-10.
- Safford, Edward S., and W. R. Swanson, to Control Cells Corp., Inc. Electrical weighing or measuring apparatus. 2,786,669, 3-26-57, Cl. 265-70.
- Safford, Lewis A., to The New York Air Brake Co. Self-lapping relay for use in combined pressure and vacuum brake systems. 2,781,235, 2-12-57, Cl. 303-4.
- Safianoff, Albert: See—
Olson, Raymond J., and Safianoff. 2,789,735.
- Safianoff, Albert, to The Gillette Co. Cosmetic container cup. 2,815,123, 12-3-57, Cl. 206-56.
- Safir, Sidney R., and R. J. Lopresti, to American Cyanamid Co. Dihydro oxazine diones. 2,797,217, 6-25-57, Cl. 260-244.
- Safo-Matic Brake Co., Inc.: See—
Crimi, Vincent J. 2,814,370.
- Safranek, William H., to Rockwell Spring & Axle Co. Electrodeposition of iron and iron alloys. 2,809,156, 10-8-57, Cl. 204-43.
- Sagar, Harold, to Imperial Chemical Industries Ltd. Processing of fibres. 2,803,565, 8-20-57, Cl. 117-139.5.
- Sage, Bruce H.: See—
Miller, Glen W., Longwell, and Sage. 2,813,487.
- Sage, Bruce H., and K. H. Robinson, to the United States of America as represented by the Secretary of the Navy. Rocket assembly. 2,793,492, 5-28-57, Cl. 60-35.6.
- Sage, Walter P., $\frac{1}{2}$ to J. W. Thies. Label. 2,799,953, 7-23-57, Cl. 40-11.
- Saget, Julien E. M., to General Electric Co. Self-regulating X-ray tube. 2,798,963, 7-9-57, Cl. 250-93.
- Saginaw-Industries Co.: See—
Stephenson, Alpha W., and Dyciewicz. 2,790,559.
- Sagner, Walter T., to Underwood Corp. Decelerating device. 2,818,153, 12-31-57, Cl. 197-64.
- Sagona, Charles. Indicating means useable per se and as part of length-measuring instruments and gages. 2,792,802, 5-21-57, Cl. 116-129.
- Sahli, Vincent L., to The Sherwin-Williams Co. Brushing polychrome finishes. 2,780,559, 2-5-57, Cl. 117-10.
- Sahlin Engineering Co.: See—
Sahlin, Henry. 2,814,395.

- Sahlin, Henry, deceased; R. T. Sahlin and National Bank of Detroit, executors, to Sahlin Engineering Co., Inc. Apparatus for handling materials. 2,814,395, 11-26-57, Cl. 214-1.
- Sahlin, Richard T.: *See*—
Sahlin, Henry. 2,814,395.
- Sahyun, Melville. Glycine ester salts of cyclohexylsulfamic acid. 2,789,997, 4-23-57, Cl. 260-468.
- Sahyun, Melville. Achlorhydria composition. 2,798,837, 7-9-57, Cl. 167-82.
- Sahyun, Melville. Iron-vitamin composition. 2,804,423, 8-27-57, Cl. 167-81.
- Saibene, Alice M. Adjustable circular shaper, stretcher and hanger. 2,786,615, 3-26-57, Cl. 223-25.
- Saigh, N. A.: *See*—
Schumann, Herbert O. 2,816,633.
- Sailer, J. K. G.: *See*—
Buder, Karl, and Ehrl. 2,807,860.
- Sailsbury, Muri B.: *See*—
Klumb, George H., Sailsbury, and Schulze. 2,778,798.
Klumb, George H., Schulze, Roach, and Sailsbury. 2,781,312.
- Sainati, Bruno: *See*—
Sainati, Jerry, and B. and L. Sainati. 2,812,672.
- Sainati, Jerry, B., and L. Adjustment head for boring bars. 2,812,672, 11-12-57, Cl. 77-58.
- Sainati, Leo: *See*—
Sainati, Jerry, and B. and L. Sainati. 2,812,672.
- Saint, David, and C. R. Thomas, to Graco Metal Products, Inc. Motor operated swing. 2,807,309, 9-24-57, Cl. 155-59.
- St. Amand, Pierre, to United States of America as represented by the Secretary of the Navy. Auroral airglow photometer system. 2,806,405, 9-17-57, Cl. 88-23.
- Saint-Amour, John D.: *See*—
Thompson, Bradley R., and Saint-Amour. 2,780,709.
- Saint-André, Alcide. Apparatus for trimming molded articles. 2,795,849, 6-18-57, Cl. 30-263.
- St. André, Arthur F.: *See*—
MacPhillamy, Harold B., St. André, and Huebner. 2,788,347.
- St. Clair, John C. Process for distilling cuprammonium rayon used spinning liquors. 2,805,984, 9-10-57, Cl. 202-46.
- St. Clair, Theodore A., to The Weatherhead Co. Thermostat belows. 2,798,507, 7-9-57, Cl. 137-796.
- St. Clair, Theodore A., to The Weatherhead Co. Flow regulator for liquefied gases. 2,807,144, 9-24-57, Cl. 62-1.
- St. Clair, Theodore A., and O. L. Garretson, to The Weatherhead Co. Gas carburetor system. 2,778,720, 1-22-57, Cl. 48-184.
- St. Denis, Harold J.: *See*—
Robinson, Preston, and St. Denis. 2,793,334.
- St. Denis, Oliver J. Fifth wheel wrecker cradle. 2,793,770, 5-28-57, Cl. 214-86.
- St. Jean, Robert R.: *See*—
Burns, Francis A., and St. Jean. 2,805,004.
- St. John, Alexander N. T.: *See*—
Walker, Benjamin M., and St. John. 2,783,173.
- St. John, Ernell E.: *See*—
Jacobs, Jerome E., and St. John. 2,814,725.
- St. Joseph Lead Co.: *See*—
Lund, Robert E., and Warnes. 2,777,752.
- St. Laurence, Ernest J., to Practical Products Co. Beverage vending machine. 2,776,074, 1-1-57, Cl. 222-2.
- St. Laurent, Joseph E. Machine for unwinding and measuring rolled material. 2,790,243, 4-30-57, Cl. 33-129.
- St. Marie, Hilaire F.: *See*—
Anderson, Leroy E., and St. Marie. 2,799,518.
- St. Palley. Hole saw. 2,778,091, 1-22-57, Cl. 29-103.
- St. Palley, Zoltan O. Apparatus for cleaning pipe lines. 2,784,723, 3-12-57, Cl. 134-57.
- St. Pierre, George L., and V. D. Patterson. Articulated toy. 2,809,467, 10-15-57, Cl. 46-1.
- St. Pierre, Henry. Wrench having spring-pressed shoe for slidable and rockable jaw. 2,813,443, 11-19-57, Cl. 81-101.
- St. Regis Paper Co.: *See*—
Browning, Randolph M. 2,788,720.
Browning, Randolph M., and Lee. 2,818,003.
Clements, Raiford. 2,811,787.
Gelbecke, Alexander. 2,810,509.
Landell, Ernest. 2,811,300.
Landell, Ernest. 2,811,301.
Peterson, William R. 2,817,936.
Peterson, William R., and Rhodes. 2,798,699.
Wolven, Harold L. 2,783,598.
- Saito, Tomizo. Apparatus for preparing cellulose xanthate. 2,781,252, 2-12-57, Cl. 23-285.
- Saive, Dieudonné J., to Fabrique Nationale d'Armes de Guerre. Breech block return means. 2,780,145, 2-5-57, Cl. 89-199.
- Saives, Leon, to Regie Nationale des Usines Renault. Automatic control device for machine tools. 2,779,140, 1-29-57, Cl. 51-165.
- Saives, Leon, to Regie Nationale des Usines Renault, and Societe des Hauts-Fourneaux et Forges d'Allevard. Casting ejector for pressure casting molds. 2,791,014, 5-7-57, Cl. 22-94.
- Saives, Leon, to Regie Nationale des Usines Renault. Separable ball-and-socket joint. 2,791,454, 5-7-57, Cl. 287-85.
- Saives, Leon, to Regie Nationale des Usines Renault, and Societe des Hauts-Fourneaux et Forges d'Allevard. Pressure casting machines. 2,795,827, 6-18-57, Cl. 22-68.
- Saives, Leon, to Regie Nationale des Usines Renault, and Societe des Hauts-Fourneaux et Forges d'Allevard. Pressure casting piston machines. 2,804,666, 9-3-57, Cl. 22-68.
- Saives, Leon, to Regie Nationale des Usines Renault. Presses actuated by a fluid under pressure. 2,807,206, 9-24-57, Cl. 100-258.
- Saives, Leon, to Regie Nationale Des Usines Renault. Ratchet devices for incorporation in transmission systems for vehicles. 2,808,729, 10-8-57, Cl. 74-128.
- Saives, Leon, to Regie Nationale des Usines Renault & Societe des Hauts-Fourneaux et Forges d'Allevard. Pressure die casting machines. 2,810,942, 10-29-57, Cl. 22-93.
- Saives, Leon, to Regie Nationale des Usines Renault. Lubricants. 2,812,307, 11-5-57, Cl. 252-48.4.
- Sajack, George. Air demand equipment. 2,817,334, 12-24-57, Cl. 128-142.
- Sakamoto, Kyugoro. Warp let-off device for a power loom. 2,812,780, 11-12-57, Cl. 139-108.
- Sakano, Toshiko. Handloom. 2,817,366, 12-24-57, Cl. 139-29.
- Sakowski, Walter J. Electrolytic preparation of manganese. 2,810,685, 10-22-57, Cl. 204-105.
- Saks, Walter R.: *See*—
Koprow, Longine, and Saks. 2,784,630.
- Salathiel, Richard A., to Esso Research and Engineering Co. Drilling muds. 2,776,259, 1-1-57, Cl. 252-8.5.
- Salathiel, Richard A., to Esso Research and Engineering Co. Drilling mud compositions. 2,781,313, 2-12-57, Cl. 252-8.5.
- Salathier, Richard A., to Esso Research and Engineering Co. Drilling muds. 2,785,125, 3-12-57, Cl. 252-8.5.
- Salathiel, Richard A., to Esso Research and Engineering Co. Modified starch containing drilling muds having a reduced filtration rate. 2,786,027, 3-19-57, Cl. 252-8.5.
- Salauze, Jean, to Societe des Accumulateurs Fixes et de Traction. Electric lighting apparatus. 2,794,904, 6-4-57, Cl. 240-10.61.
- Salazar, Felix R. Air cooling and circulating system. 2,787,139, 4-2-57, Cl. 62-129.
- Saldin, Harvey B., to Westinghouse Electric Corp. Combustion apparatus. 2,795,108, 6-11-57, Cl. 60-39.31.
- Sale, William H., to Standard Car Truck Co. Car couplers. 2,803,354, 8-20-57, Cl. 213-168.
- Salecker, Anton, to International Business Machines Corp. Memory tube. 2,795,840, 6-18-57, Cl. 29-25.14.
- Salem-Brosius, Inc.: *See*—
Miller, Robert G. 2,816,773.
Miller, Robert G. 2,816,774.
Renn, Charles E. 2,813,768.
- Salentine, Herbert M. Long stroke well pump reciprocator. 2,803,193, 8-20-57, Cl. 103-46.
- Saleny, Jerry E. Home air freshener. 2,786,714, 3-26-57, Cl. 299-20.
- Salerno, Paul G., to Minneapolis-Honeywell Regulator Co. Air mixing apparatus having temperature and pressure control. 2,815,915, 12-10-57, Cl. 236-13.
- Salisberg, Charles M.: *See*—
Swartz, George A., and Salisberg. 2,788,882.
- Salisbury, Arthur C.: *See*—
Lawrence, Walter P., and Salisbury. 2,805,118.
- Salisbury, Frederick L.: *See*—
Gardner, Bernard C., Salisbury, and Ward. 2,798,184.
- Salisbury, Winfield W., to Zenith Radio Corp. Inductor. 2,785,265, 3-12-57, Cl. 219-10.79.
- Sajje, Günther. Camera film feed mechanism. 2,795,174, 6-11-57, Cl. 95-31.
- Salkeld, Alan B., to United States Steel Corp. Pipe treating apparatus. 2,804,841, 9-3-57, Cl. 118-423.
- Salko, Nicholas I., and A. Nielsen, to ACF Industries, Inc. Pneumatic flow-measuring device for fuel jets. 2,790,320, 4-30-57, Cl. 73-3.
- Salkowski, Stanley. Emergency distress signal intermittent flasher lantern. 2,816,277, 12-10-57, Cl. 340-81.
- Sall Grocery & Paper Co.: *See*—
Sall, Samuel. 2,805,607.
- Sall, Samuel, to Sall Grocery & Paper Co. Means and method of applying handles to bags. 2,805,607, 9-10-57, Cl. 93-8.
- Sallans, Henry R.: *See*—
Spencer, John F., Roxburgh, and Sallans. 2,793,981.
- Saller, Henry A., J. R. Keeler, and E. R. Szumachowski, to the United States of America as represented by the United States Atomic Energy Commission. Neutron reactor fuel element utilizing zirconium-base alloys. 2,813,073, 11-12-57, Cl. 204-193.2.
- Sallmann, Richard, to Ciba Ltd. Process for the manufacture of organic compounds containing sulfur and phosphorus. 2,805,241, 9-3-57, Cl. 260-461.
- Sallou, Jean, to Societe Anonyme des Etablissements Neu, and J. L. Fourtier. Variable-flow air distributors for air-conditioning and ventilation systems. 2,814,978, 12-3-57, Cl. 98-40.
- Salm, Arthur, Inc.: *See*—
Bohdal, Viktor. 2,800,785.
- Salmet, Gaston, to North American Philips Co., Inc. Oscillator tuning arrangement. 2,794,920, 6-4-57, Cl. 250-36.

- Salmon, Jacques: *See*—
Guigon, Jean, Carabasse, Salmon, Matis, and Nobecourt. 2,805,848.
- Salmon, Reginald D., and F. J. L. Turner, to Creed & Co. Ltd. Telegraph code perforating apparatus. 2,818,116, 12-31-57, Cl. 164-112.
- Salmon-Legagneur, Pierre, to Etablissements Henry-Le Faute. Control device for gas-lighted flashing beacons. 2,793,517, 5-28-57, Cl. 67-111.
- Salo, Martin: *See*—
Griggs, William H., and Salo. 2,805,160.
- Salomé, Clotaire: *See*—
Salomé, Victor and C. 2,799,374.
- Salomé, Victor and C. Timed delayed-action clutching device for lathe mechanism or similar machine. 2,799,374, 7-16-57, Cl. 192-30.
- Salomon, Irving. Chance controlled game apparatus. 2,780,463, 2-5-57, Cl. 273-134.
- Salopek, Anton C., Jr. Mason's leveling device. 2,816,368, 12-17-57, Cl. 33-207.
- Salosky, Robert. Toy vehicle. 2,803,920, 8-27-57, Cl. 46-17. Salsbury Corp.: *See*—
Salsbury, Esley F. 2,801,684.
- Salsbury, Esley F., to Salsbury Corp. Power operated tire bead breaker. 2,801,684, 8-6-57, Cl. 157-1.17.
- Salsig, William W.: *See*—
Heard, Harry G., and Salsig. 2,798,178.
Martin, Marvin D., MacKenzie, and Salsig. 2,789,222.
- Salt, Frederick W., to the British Iron & Steel Research Association. Electrodeposition of iron zinc alloys. 2,778,787, 1-22-57, Cl. 204-43.
- Salter, Shirley C., to Kalamazoo Furnace & Appliance Mfg. Co. Air heating furnace and radiator therefor. 2,805,659, 9-10-57, Cl. 126-102.
- Saltness, Sadie T. Garment rack attachment for ironing boards. 2,796,994, 6-25-57, Cl. 211-86.
- Saltzman, Shepard S., to Piedmont Shirt Co. Garment. 2,780,816, 2-12-57, Cl. 2-128.
- Saltzmann, Hans A.: *See*—
Schmidt, Adolph, and Saltzmann. 2,810,329.
- Salvadoro Co., The: *See*—
De Baun, William H. 2,786,001.
- Salvin, Victor S.: *See*—
Studer, Paul A., and Salvin. 2,798,788.
- Salvy, Léger. Brushes. 2,795,807, 6-18-57, Cl. 15-176.
- Salway-Waller, Malcomb: *See*—
Forman, Arthur W., Lovett, and Salway-Waller. 2,815,920.
- Salzberg, Emmett R. Telephone answering and message recording devices. 2,798,117, 7-2-57, Cl. 179-6.
- Salzberg, Harold K., to The Borden Co. Foundry sand binder and process of preparation. 2,813,840, 11-19-57, Cl. 260-17.2.
- Salzer, Alexander. Ocean wave power device. 2,783,022, 2-26-57, Cl. 253-10.
- Salzer, Alexander. Cigarette lighter. 2,786,743, 3-26-57, Cl. 48-4.
- Salzer, Walter: *See*—
Schlichthaerle, Anton, Jennrich, and Salzer. 2,812,003.
- Salzman, Frank B., and N. Shoe measuring device. 2,807,088, 9-24-57, Cl. 33-3.
- Salzman, Nathan: *See*—
Salzman, Frank B. and N. 2,807,088.
- Salzmann, Leo, M. Blumer, and G. A. Kessler, to L. Sonneborn Sons Inc. Method for the production of oil-soluble sulfates from polyalkylated aromatic residues. 2,802,866, 8-13-57, Cl. 260-505.
- Salzmann, Willi E. Device for securing, driving and lifting a mower assembly on a tractor. 2,801,509, 8-6-57, Cl. 56-25.
- Sam, Joseph, to McNeil Laboratories, Inc. Method of making benzoxazole compounds. 2,780,633, 2-5-57, Cl. 260-307.
- Samborski, Thaddeus J. Spring chuck with setting means. 2,813,724, 11-19-57, Cl. 279-41.
- Samcoe Holding Corp.: *See*—
Cohn, Joseph, Walter and Cohn. 2,792,615.
Cohn, Joseph, Walter, and Cohn. 2,797,086.
- Samer, Rudolf W.: *See*—
Anderson, William T., Jr., and Samer. 2,797,863.
- Sametz, Louis. Tinkle sounding toy. 2,788,612, 4-16-57, Cl. 46-191.
- Samler, Lee F., to The National Plastic Products Co. Screen changing apparatus for conduits and tubes for conveying fluids and for extrusion machines. 2,786,504, 3-26-57, Cl. 146-174.
- Sammarco, Peter: *See*—
Hilblom, Samuel E., and Sammarco. 2,818,163.
- Sammis, Edward A., and W. R. Burkhalter, to Sperry Rand Corp. Test apparatus for electrical systems. 2,780,777, 2-5-57, Cl. 324-73.
- Sammis, Edward A., H. D. Smith, and E. P. Vehslage, to Sperry Rand Corp. Automotive engine analyzer. 2,787,760, 4-2-57, Cl. 324-16.
- Samo, Harvey W., and A. Bashover, to Margon Corp. Dolls' eyes. 2,777,250, 1-15-57, Cl. 46-166.
- Sampatacos, Peter M., and E. E. Franks, Jr., to The Torrington Mfg. Co. Spring winding machine. 2,788,807, 4-16-57, Cl. 140-82.
- Sampietro, Achilles C. Differential gearing. 2,785,588, 3-19-57, Cl. 74-711.
- Sampietro, Achilles C., to Thompson Products, Inc. Self-contained automatic lash adjuster. 2,808,818, 10-8-57, Cl. 123-90.
- Sampietro, Achilles C., to Thompson Products, Inc. Fulcrum adjuster. 2,813,521, 11-19-57, Cl. 123-90.
- Sampietro, Achilles C., to Thompson Products, Inc. Automatic lash adjuster. 2,815,012, 12-3-57, Cl. 123-90.
- Sampsell, Frederick H., to Ten Point Trim Corp. Dry wall opening finish trim. 2,806,261, 9-17-57, Cl. 20-74.
- Sampson, Frederick W.: *See*—
Baker, Max P., and Sampson. 2,800,777.
Harris, Edward P., and Sampson. 2,817,875.
- Sampson, Frederick W., to General Motors Corp. Ice tray grid. 2,779,166, 1-29-57, Cl. 62-108.5.
- Sampson, Frederick W., to General Motors Corp. Horn blowing mechanism. 2,786,108, 3-19-57, Cl. 200-61.55.
- Sampson, Frederick W., to General Motors Corp. Metering device. 2,793,793, 5-28-57, Cl. 222-335.
- Sampson, Mack: *See*—
Jamison, Thomas E., Jr. 2,783,028.
- Sampson, Merritt B., to The S-P Mfg. Corp. Compensating chuck. 2,794,648, 6-4-57, Cl. 279-119.
- Sampson, Merritt B., to Continental Say-When Corp. Adjustable delivery dispenser. 2,805,798, 9-10-57, Cl. 222-309.
- Sampson, Milo B.: *See*—
Levinger, Joseph S., Sampson, Snell, and Wilkinson. 2,781,309.
- Sampson, Socrates J., $\frac{1}{4}$ to A. R. Rein. Television layout template. 2,795,851, 6-18-57, Cl. 33-1.
- Sams, Herbert W.: *See*—
Cofield, Eugene P., Jr., Sams, and Woodward. 2,777,422.
- Sams, Herbert W., to Scripto, Inc. Retractable ball pen latch means. 2,800,883, 7-30-57, Cl. 120-42.03.
- Sams, Herbert W., to Scripto, Inc. Retractable ball pen latching mechanism. 2,804,048, 8-27-57, Cl. 120-42.03.
- Sams, Herbert W., to Scripto, Inc. Plug for ball point pen ink reservoir tube and method of making same. 2,804,049, 8-27-57, Cl. 120-42.4.
- Samsel, Richard W.: *See*—
Johnson, Theodore T., McFall, and Samsel. 2,817,831.
- Samsel, Richard W., to General Electric Co. Pulse generator. 2,792,508, 5-14-57, Cl. 307-106.
- Samson, Walter O., to Pilkington Brothers (Canada) Ltd. Auto glass grinding and edging machines. 2,790,271, 4-30-57, Cl. 51-72.
- Samuel, Arthur J., to Gulf Research & Development Co. Education valve for pressure discharge dispensers. 2,793,794, 5-28-57, Cl. 222-294.
- Samuel, Don W., R. F. Jehle, and R. J. Burch, to A. B. Chance Co. Quick-break switch. 2,783,322, 2-26-57, Cl. 200-62.
- Samuel, Frank E., 40% to L. J. Hennessy, and 25% to Eljay Corp. Skirt hanger. 2,793,798, 5-28-57, Cl. 223-95.
- Samuel, George A., to Metal Diffusions, Inc. Process of chromizing. 2,811,466, 10-29-57, Cl. 117-22.
- Samuel, Henry: *See*—
Allan, John, Browne, and Samuel. 2,798,258.
Allan, John, and Samuel. 2,814,071.
- Samuel, Howard H., Inc.: *See*—
Dunn, Thomas J. 2,794,311.
- Samuels, Albert S. Implement for piercing ear lobes. 2,798,491, 7-9-57, Cl. 128-330.
- Samuels, Harold, L. Vines, and R. J. Doyle. Luggage racks. 2,804,248, 8-27-57, Cl. 224-42.1.
- Samuels, Morton E. Combined shipping container and display case. 2,812,852, 11-12-57, Cl. 206-44.
- Samuels, Richard M.: *See*—
Commisso, Nicholas D., Hayes, and Samuels. 2,811,280.
- Samuelson, Gilbert J., V. L. Stromberg, and C. M. Blair, to Petrolite Corp. Ventilated fume hoods. 2,810,337, 10-22-57, Cl. 98-115.
- Samuelsson, Bror K. Venetian blind for motor cars. 2,794,501, 6-4-57, Cl. 160-169.
- Sanborn, Daniel S., to McCulloch Motors Corp. Fluid spray nozzle. 2,805,891, 9-10-57, Cl. 299-107.6.
- Sanborn, Frank W., and A. V. Alexeff, to Industrial Ovens, Inc. Web treating apparatus. 2,780,878, 2-12-57, Cl. 34-159.
- Sanborn, Henry W.: *See*—
Stafford, Jesse J. 2,792,658.
- Sanchez, Manuel. Precision locator gage for boring mill. 2,807,093, 9-24-57, Cl. 33-185.
- Sand, John F., to The Gemex Corp. Expansion bracelet with two rows of bottom links. 2,780,052, 2-5-57, Cl. 59-79.
- Sand, John F., to The Gemex Corp. Watch bracelet. 2,811,294, 10-29-57, Cl. 224-4.
- Sand, John G.: *See*—
Herpich, William A., and Sand. 2,800,234.
- Sand, Leonard B., to Standard Oil Co. Differential temperature autoclave. 2,797,575, 7-2-57, Cl. 73-15.
- Sand, Robert T.: *See*—
Wertheimer, Jack R., and Sand. 2,793,432.
Wertheimer, Jack R., and Sand. 2,795,846.
- Sanda, Laddie A., to Carter Parts Co. Jack. 2,803,717, 8-20-57, Cl. 200-51.1.
- Sandahl, Everett M.: *See*—
Collins, William F., Schmied, and Sandahl. 2,806,485.
- Sandberg, Carl R.: *See*—
Reichert, Paul P., Sandberg, Connally, and Pollard. 2,784,677.
- Sandberg, Herbert J.: *See*—
Coulbourn, William C., and Sandberg. 2,788,664.
Coulbourn, William C., and Sandberg. 2,816,570.

- Sandberg, Ray A., to Houdaille Industries, Inc. Tube bending method. 2,783,532, 3-5-57, Cl. 29-550.
- Sandberg, Reuben G. Glare shield for automobiles. 2,815,978, 12-10-57, Cl. 296-97.
- Sandborn, Edmond. Vein stripper. 2,779,334, 1-29-57, Cl. 128-303.
- Sande, Elizabeth M.: *See*—
- Davis, Myrtle M. 2,784,721.
- Sandefur, Leon H.: *See*—
- McDonald Frank A., and Sandefur. 2,806,486.
- Sandelin, Olle E., to The Warner & Swasey Co. Revised spin drafter. 2,794,214, 6-4-57, Cl. 19-131.
- Sandelin, Olle E., to The Warner & Swasey Co. Drafting head. 2,813,307, 11-19-57, Cl. 19-131.
- Sandelin, Philip, to Aktiebolaget Husqvarna Borstfabrik. Method and a device for making brush-strips. 2,812,214, 11-5-57, Cl. 300-21.
- Sandell, Carlos L. R. Tool for freeing frozen hydraulic valve lifters from their cylinders. 2,808,641, 10-8-57, Cl. 29-255.
- Sandeman, Cargill S., and R. H. Reed, to Mavor & Coulson Ltd. Scraper conveyors. 2,793,737, 5-28-57, Cl. 198-170.
- Sander, Ernst, to G. Mastracchi-Manes. Water and gas-tight sliding clasp fastener. 2,810,944, 10-29-57, Cl. 24-201.
- Sander, Hans-Rolf. Planer type mining machine. 2,801,837, 8-6-57, Cl. 262-8.
- Sander, Howard H., to the United States of America as represented by the United States Atomic Energy Commission. Means for investigating gases. 2,788,656, 4-16-57, Cl. 73-24.
- Sanderlin, James C., and L. F. Deise, to Westinghouse Electric Corp. Regulators. 2,802,166, 8-6-57, Cl. 321-19.
- Sanders, Arthur F. Combustion spaces of fuel-injection engines. 2,789,546, 4-23-57, Cl. 123-32.
- Sanders Associates, Inc.: *See*—
- Blitz, Daniel. 2,786,969.
- Blitz, Daniel. 2,810,892.
- Blitz, Daniel. 2,816,253.
- Butler, Jesse L. 2,818,563.
- Butler, Jesse L. 2,818,564.
- Dwyer, Walter J. 2,781,277.
- Hayner, Paul F. 2,817,359.
- Misek, Victor A. 2,812,495.
- Misek, Victor A. 2,812,496.
- Putnam, Peter. 2,795,273.
- Read, Bruce. 2,802,183.
- Sanders, Royden C., Jr. 2,803,788.
- Sanders, Royden C., Jr. 2,816,252.
- Sanders, Royden C., Jr. 2,817,240.
- Shomphe, George J. 2,805,577.
- Sommers, Donald J. 2,812,501.
- Wilson, William J. 2,803,805.
- Sanders, Birdie C. Buckles for garters. 2,808,633, 10-8-57, Cl. 24-199.
- Sanders, Caroline M. Can opener and strip guide. 2,776,779, 1-8-57, Cl. 220-52.
- Sanders, Charles W.: *See*—
- Janes, Richard B., and Sanders. 2,806,936.
- Sanders, Clayton W. Crop guiding grate assembly. 2,776,534, 1-8-57, Cl. 56-28.
- Sanders, Elmore J. Actuating mechanism for variable flow fluid displacement rotor. 2,781,167, 2-12-57, Cl. 230-270.
- Sanders, Emmitt F. Ferrule crimping pliers with replaceable jaws. 2,814,222, 11-26-57, Cl. 81-15.
- Sanders, John E. Picture frame. 2,800,735, 7-30-57, Cl. 40-154.
- Sanders, Judson H.: *See*—
- Holman, George W., and Sanders. 2,815,285.
- Sanders, Judson H., to The Procter & Gamble Co. Oral detergent composition and dentifrice comprising same. 2,812,284, 11-5-57, Cl. 167-93.
- Sanders, Leo K. and V. A., to Pigeon Hole Parking, Inc. Vehicle dolly. 2,788,193, 4-9-57, Cl. 254-10.
- Sanders, Leo K. and V. A., to Pigeon Hole Parking, Inc. Elevator platform safety lock. 2,788,864, 4-16-57, Cl. 187-80.
- Sanders, Marion D., and F. W. Sollo, Jr., to Swift & Co. Odor prevention in anaerobic waste treatment. 2,796,399, 6-18-57, Cl. 210-13.
- Sanders, Philip F., to E. I. du Pont de Nemours and Co. Cross-linkable acrylonitrile interpolymers and coating compositions derived therefrom. 2,787,561, 4-2-57, Cl. 117-232.
- Sanders, Philip F., to E. I. du Pont de Nemours and Co. Aqueous coating compositions and substrates coated therewith. 2,787,603, 4-2-57, Cl. 260-29.3.
- Sanders, Ralph G.: *See*—
- Hoedinghaus, George E., Sanders, and Ulmer. 2,813,725.
- Sanders, Ralph M. Machine for continuously laying and joining pipe sections. 2,780,376, 2-5-57, Cl. 214-519.
- Sanders, Royden C., Jr., to Sanders Associates, Inc. Electronic module. 2,803,788, 8-20-57, Cl. 317-101.
- Sanders, Royden C., Jr., to Sanders Associates, Inc. Electronic module device. 2,816,252, 12-10-57, Cl. 317-101.
- Sanders, Royden C., Jr., to Sanders Associates, Inc. Gyroscope. 2,817,240, 12-24-57, Cl. 74-5.6.
- Sanders, Theodor P. W., and J. H. A. Wilders, to Chemische Fabriek L. van der Grinten N. V. Process for the production of diazotype copies. 2,792,303, 5-14-57, Cl. 96-49.
- Sanders, Theodor P. W. and K. M. Hutgens, to Chemische Fabriek L. van der Grinten N. V. One component diazotype material containing at least two light sensitive diazo-compounds. 2,793,118, 5-21-57, Cl. 96-81.
- Sanders, Vaughn A.: *See*—
- Sanders, Leo K. and V. A. 2,788,193.
- Sanders, Leo K. and V. A. 2,788,864.
- Sanders, William W.: *See*—
- Rose, Arthur, and Sanders. 2,784,150.
- Sanderson, George P. Charts or indicators. 2,780,202, 2-5-57, Cl. 116-135.
- Sanderson, Jerry G., 1/2 to F. C. Frey. Trench digger. 2,776,766, 1-8-57, Cl. 214-138.
- Sanderson, Kenneth E., and A. J. Tosches, to Draper Corp. Shuttleless loom. 2,810,403, 10-22-57, Cl. 139-122.
- Sanderson, M. C.: *See*—
- Calderon, Manuel M. 2,803,514.
- Sanderson, Thomas F., to Hercules Powder Co. Oxidation of unsymmetrical stilbenes. 2,776,986, 1-8-57, Cl. 260-479.
- Sanderson, Thomas F., and R. J. C. Coates, to Adrema Ltd. Printing machines. 2,814,984, 12-3-57, Cl. 101-60.
- Sanderson, Thomas F., to Hercules Powder Co. 1,4b-dimethyl-3-oxo-4a-hydroxy-7-isopropyltetradecahydronaphthene-1-carboxylic acid lactone and preparation thereof. 2,785,184, 3-12-57, Cl. 260-343.3.
- Sandford, William H., 1/2 to R. E. L. Warburton. Portable winch. 2,802,636, 8-13-57, Cl. 254-150.
- Sandgren, Marvin A., to the United States of America. Squib operated gas release device. 2,780,389, 2-5-57, Cl. 222-5.
- Sandhage, Ellsworth R.: *See*—
- Taylor, Arthur S., and Sandhage. 2,789,679.
- Sandin, Jerome: *See*—
- Lingal, Harry J., Sandin, and Hauser. 2,809,252.
- Sandkubie, Raymond C. Knock-down wooden container for plants and the like. 2,792,142, 5-14-57, Cl. 217-12.
- Sandler, Harold: *See*—
- De Witt, David, Sandler, and Wittenberg. 2,786,964.
- Sandner, Walter J.: *See*—
- Crosby, Gifford W., Holm, Morrison, and Sandner. 2,795,535.
- Fierce, William L., and Sandner. 2,802,020.
- Fierce, William L., and Sandner. 2,803,641.
- Fierce, William L., and Sandner. 2,809,987.
- Sandner, Walter J., and W. L. Fierce, to The Pure Oil Co. Preparation of acrylonitrile. 2,803,641, 8-20-57, Cl. 260-465.3.
- Sandness, Arnold E. Bait bucket. 2,785,502, 3-19-57, Cl. 43-57.
- Sandor, Ralph. Adjustable back rest for seat. 2,812,804, 11-12-57, Cl. 155-182.
- Sandoz A. G.: *See*—
- Fleck, Fritz. 2,776,909.
- Frey, Wolfgang. 2,779,772.
- Frisch, Franz. 2,776,959.
- Frisch, Franz. 2,776,960.
- Frisch, Franz, and Kappeler. 2,776,962.
- Grandjean, Philippe. 2,778,817.
- Lutz, Karl, and Jucker. 2,777,792.
- Ruckstuhl, Hans, and Wehrli. 2,779,755.
- Ruckstuhl, Hans, and Wehrli. 2,779,757.
- Stoll, Arthur, and Kreis. 2,776,963.
- Sandoz Trust: *See*—
- Byland, Hans-Rudolf. 2,803,624.
- Grandjean, Philippe, Kappeler, Schneider, Steinemann, and Wehrli. 2,817,654.
- Grandjean, Philippe, Kehr, Schneider, Steinemann, and Kappeler. 2,813,852.
- Hagenbuch, Werner, and Rheiner. 2,814,617.
- Hofer, Kurt, and Hemmi. 2,817,675.
- Iselin, Ernst, and Wehrli. 2,813,854.
- Kehr, Fritz, and Wehrli. 2,815,337.
- Rothlin, Ernst, and Bourquin. 2,807,567.
- Schuler, Max. 2,815,312.
- Steinemann, Willy. 2,813,853.
- Steinemann, Willy, and Wehrli. 2,813,856.
- Stoll, Arthur, Brack, Hofmann, and Kobel. 2,809,920.
- Stoll, Arthur, Hofmann, and Troxler. 2,810,723.
- Sandri, Carlo, to R. Vir Den. Synoptic board. 2,804,706, 9-3-57, Cl. 40-68.
- Sandri, Robert M. Carbonated beverages and a method for their preparation. 2,776,892, 1-8-57, Cl. 99-79.
- Sands, Charles R.: *See*—
- Justice, William W., and Sands. 2,799,571.
- Sands, Hillard J., to The Harvard Mfg. Co. Clamp for telescoped angles. 2,775,805, 1-1-57, Cl. 24-243.
- Sands, Hillard J., to The Harvard Mfg. Co. Bedframes with support legs for engaging bed headboards. 2,799,868, 7-23-57, Cl. 5-132.
- Sands, Miles D. Hydraulically adjustable supporting device. 2,778,627, 1-22-57, Cl. 267-1.
- Sandusky, Lorie A. Metallic awning. 2,804,660, 9-3-57, Cl. 20-57.5.
- Sandvikens Jernverks Aktiebolag: *See*—
- Angel, Tryggve, and Bernstein. 2,795,519.
- Bylund, Nils A. 2,784,943.
- Haglund, Didrik W., and Höglund. 2,777,672.
- Löfqvist, Bengt E. R., and Berggren. 2,790,624.
- Thoren, Bengt I. 2,816,467.
- Sandy Hill Iron & Brass Works, The: *See*—
- Joslyn, James W. 2,781,699.
- Joslyn, James W. 2,781,700.

- Sandy, Turner K. Poultry beak trimming machine. 2,792,004, 5-14-57, Cl. 128—303.1.
- Sanford, David P., to The Brunswick-Balke-Collender Co. Bowling pin handling mechanism. 2,817,528, 12-24-57, Cl. 273—42.
- Sanford, Guy E.: *See*—
Mair, James, and Sanford. 2,781,089.
- Sanford, Mable. Telephone handset support. 2,804,510, 8-27-57, Cl. 179—157.
- Sanford, Marcus E., to Fibreboard Paper Products Corp. Method and apparatus for treating waste paper stock. 2,796,807, 6-25-57, Cl. 92—23.
- Sanford, Raymond B. Salmon egg dispensing container device. 2,794,289, 6-4-57, Cl. 43—55.
- Sanford, Robert A., and B. S. Friedman, to Sinclair Refining Co. Production of long chain alkyl substituted aromatic hydrocarbons. 2,810,769, 10-22-57, Cl. 260—671.
- Sanford, Robert A., and B. S. Friedman, to Sinclair Refining Co. Production of long chain alkyl substituted aromatic hydrocarbons. 2,810,770, 10-22-57, Cl. 260—671.
- Sanford, Robert W. Jack actuated tire remover with circumferentially distributed thrust and pull members. 2,792,878, 5-21-57, Cl. 157—12.
- Sanford, Roy S., to the United States of America as represented by the Secretary of the Army. Cartridge aligning means for a firearm. 2,790,355, 4-30-57, Cl. 89—33.
- San Francisco Brewing Corp.: *See*—
Tonna, Arthur J., and Fahrenbach. 2,815,630.
- San Fratello, Michael, $\frac{1}{2}$ to Z. A. Joseph. Foot measuring device. 2,784,492, 3-12-57, Cl. 33—3.
- Sangamo Electric Co.: *See*—
Holtz, Frederick C. 2,790,951.
Holtz, Frederick C. 2,791,118.
Lanphier, Charles H. 2,790,955.
Waite, Griffin G., and Russell. 2,807,782.
- Sangster, Arlon G. Servo positioning mechanism. 2,777,109, 1-8-57, Cl. 323—66.
- Sangster, Arlon G., to Arter Grinding Machine Co. Automatic reciprocating feed device. 2,782,904, 2-26-57, Cl. 198—221.
- Sangster, Arlon G., to Arter Grinding Machine Co. Magnetic positioning and supporting device. 2,784,357, 3-5-57, Cl. 317—159.
- Sangster, Arlon G., to Arter Grinding Machine Co. Control mechanism for push button and the like. 2,800,806, 7-30-57, Cl. 74—503.
- Sanitary Processing Equipment Corp.: *See*—
Feldmeier, Robert H. 2,786,696.
- Sanitary Products Corp.: *See*—
Carrier, John A. 2,799,055.
- Myers, Lew L., Parish, and Straughn. 2,808,832.
- Sankey, Karl G. A. Measuring instrument for making garments. 2,784,491, 3-12-57, Cl. 33—2.
- San Lorenzo Nursery Co., Inc.: *See*—
Sueda, Robert H., and Shinoda. 2,812,141.
- Sanner, Veryl H., to The Etna Machine Co. Device for preventing tube collapse in tube mills. 2,782,293, 2-19-57, Cl. 219—59.
- Sanni, Dominic A.: *See*—
Herrmann, John F., Wilton, and Sanni. 2,803,993.
- Sannie, Charles, and J. J. Panouse, to Societe des Usines Chimiques Rhone-Poulenc. Preparation of 2-methyl 1:3-cyclopentanediene. 2,811,558, 10-29-57, Cl. 260—586.
- Sanscrainte, Jack R.: *See*—
Hatcher, Harry R., and Sanscrainte. 2,805,931.
- Reed, William A., Hatcher, and Sanscrainte. 2,776,874.
- Sansig, Joseph E., to Simonds Abrasive Co. Grinding wheel and means for mounting and driving the same. 2,785,515, 3-19-57, Cl. 51—168.
- Sansom, Albert E.: *See*—
Wood, Archibald C. 2,812,598.
- Santa Fe Tank & Tower Co., Inc.: *See*—
Slough, Jack M., and Lichtenstein. 2,808,243.
- Santarelli, Vincent. Garden duster. 2,795,078, 6-11-57, Cl. 43—145.
- Santarelli, Vincent. Portable garden duster. 2,795,079, 6-11-57, Cl. 43—145.
- Santina, Peter V. Paint applicator. 2,788,539, 4-16-57, Cl. 15—230.
- Santini, Danilo, to Westinghouse Electric Corp. Elevator system. 2,785,772, 3-19-57, Cl. 187—29.
- Santini, Danilo, and A. M. Nelson, to Westinghouse Electric Corp. Elevator systems. 2,785,771, 3-19-57, Cl. 187—29.
- Santmyer, Philip H.: *See*—
Deebel, George F., and Santmyer. 2,818,365.
- Santmyer, Philip H., to Monsanto Chemical Co. Control of nematodes using chlorinated quebracho. 2,799,612, 7-16-57, Cl. 167—24.
- Santmyers, Donald, to E. I. du Pont de Nemours and Co. Process for preparing a potassium silicate solution. 2,784,060, 3-5-57, Cl. 23—110.
- Santorelli, Salvatore L. Map folio. 2,791,040, 5-7-57, Cl. 35—62.
- Santucci, Frank: *See*—
Clarke, William B., Hunter, and Santucci. 2,779,490.
- Sanz, Manuel C., C. R. Malmstrom, J. M. Nuding, and H. P. Yockey, to North American Aviation, Inc. Electric furnace. 2,778,866, 1-22-57, Cl. 13—20.
- Sanz, Manuel C., C. R. Malmstrom, J. M. Nuding, and H. P. Yockey, to the United States Atomic Energy Commission. Method for sealing the pores in a carbon body. 2,817,605, 12-24-57, Cl. 117—228.
- Sapia, Angelo, to Sapient Sales Co., Inc. Expandable stopper with spout. 2,778,545, 1-22-57, Cl. 222—482.
- Sapient Sales Co., Inc.: *See*—
Sapia, Angelo. 2,778,545.
- Sapko, Michael E.: *See*—
Beaumont, John C., and Sapko. 2,807,335.
- Šapošnikov, Vsevolod, and M. Patrmán, to VSCHP, Vyzkumny ustav stroju chladicich a potravinarskych. Method for operating an absorption refrigerating system. 2,781,644, 2-19-57, Cl. 62—119.
- Sara, Ginsburg: *See*—
Wilson, Irwin B., Ginsburg, and Nachmansohn. 2,816,113.
- Saranac Machine Co.: *See*—
Sester, Harry F. 2,815,857.
- Sarapu, Erich, to Electrotherm Research Corp. Method of underground electrolinking and electrocarbonization of mineral fuels. 2,795,279, 6-11-57, Cl. 166—11.
- Sarbach, Donald V., to The B. F. Goodrich Co. Article of manufacture containing plastic and method for making the same. 2,809,900, 10-15-57, Cl. 117—10.
- Sarco Co., Inc.: *See*—
Midgett, Ernst L. 2,817,353.
- Saucerman, Clarence W. Insect deflector for vehicle windshields. 2,816,796, 12-17-57, Cl. 296—91.
- Sardella, John. Automobile wheel rim for tires. 2,805,892, 9-10-57, Cl. 301—31.
- Sardeson, Robert: *See*—
Miller, Claire K., and Sardeson. 2,779,408.
- Sardeson, Robert, and C. K. Miller, to Pako Corp. Film clip. 2,803,049, 8-20-57, Cl. 24—252.
- Sarett, Lewis H.: *See*—
Arth, Glen E., Poos, and Sarett. 2,791,591.
Poos, George L., and Sarett. 2,809,967.
- Sarett, Lewis H., to Merck & Co., Inc. Δ^5 -3-ethylenedioxy-11-keto-etienolpyruvic acid. 2,777,842, 1-15-57, Cl. 260—239.55.
- Sarett, Lewis H., to Merck & Co., Inc. Phosphate derivatives of 9a-fluoro-steroids. 2,779,775, 1-29-57, Cl. 260—397.45.
- Sarett, Lewis H., to Merck & Co., Inc. 5-methyl-6-alkoxyoctahydronaphthalene compounds and process of preparing them. 2,780,648, 2-5-57, Cl. 260—586.
- Sarett, Lewis H., to Merck & Co., Inc. 5-methyl-6-keto-perhydronaphthalene-1,4-diol and processes of preparing the same. 2,785,203, 3-12-57, Cl. 260—586.
- Sarett, Lewis H., to Merck & Co., Inc. $\Delta^{1,4}$ -3,20-11-oxygenated-17,21-dihydroxypregnadiene 21-phosphates and 9-fluoro derivatives thereof. 2,789,117, 4-16-57, Cl. 260—397.45.
- Sarett, Lewis H., to Merck & Co., Inc. Δ 4,8(9)-3,20-diketo-11,17-dihydroxy-21-oxygenated pregnadienes and processes of preparing the same. 2,808,415, 10-1-57, Cl. 260—397.45.
- Sarett, Lewis H., to Merck & Co., Inc. Derivatives of 2,4b-dimethyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydrophenanthrene-4-one, and process of preparing the same. 2,810,729, 10-22-57, Cl. 260—340.9.
- Sarett, Lewis H., to Merck & Co. Δ 4,8(14)-3,20-diketo-17-hydroxy-11,21-bisoxxygenated-pregnadiene compounds and processes of preparing the same. 2,813,882, 11-19-57, Cl. 260—397.45.
- Saretto, Placido: *See*—
Willrich, Carl, Saretto, and Fasano. 2,797,488.
- Sarff, Warren M. Self-steering toy auto. 2,784,527, 3-12-57, Cl. 46—202.
- Sargeant, Walter E., to General Motors Corp. Constant frequency power supply. 2,776,379, 1-1-57, Cl. 307—72.
- Sargeant and Wilbur, Inc.: *See*—
Wilbur, Sinclair F. 2,797,075.
- Sargent & Co.: *See*—
Brozek, John S., and Ellis. 2,805,880.
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Ellis, Charles A. 2,797,372.
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Wardwell, George W., Jr. 2,800,347.
- Sargent, Edward J., to Sargent Rodless Pump Co. Hydraulic pump. 2,787,223, 4-2-57, Cl. 103—46.
- Sargent, George A., to Bell Telephone Laboratories, Inc. Method for testing helix pitch. 2,811,690, 10-29-57, Cl. 324—84.
- Sargent, Grafton F. Apparatus for applying fluids to surfaces from the storage container for the fluids. 2,794,999, 6-11-57, Cl. 15—131.
- Sargent, Herbert, to California Research Corp. Long-chain alkane, 1,2-disulfonic acids and salts thereof. 2,787,639, 4-2-57, Cl. 260—513.
- Sargent, Herbert, to California Research Corp. Purification of glycols prepared by hydroxylation of cracked wax olefins. 2,803,672, 8-20-57, Cl. 260—637.
- Sargent Rodless Pump Co.: *See*—
Sargent, Edward J. 2,787,223.
- Sargent, Costantino. Planetarium projecting apparatus. 2,803,165, 8-20-57, Cl. 88—24.
- Sargis, Albert. Snap-in electric plug and socket. 2,786,189, 3-19-57, Cl. 339—75.
- Sargisson, Robert L., and F. E. Wood, to Automatic Electric Laboratories, Inc. Mounting for telephone handsets. 2,783,313, 2-26-57, Cl. 179—146.
- Sargisson, Robert L., and F. E. Wood, to General Telephone Laboratories, Inc. Telephone switch hook assembly. 2,810,792, 10-22-57, Cl. 179—159.

- Šarhan, Jaroslav: *See*—
Fučík, Karel, and Šarhan. 2,804,465.
- Sarkes Tarzian, Inc.: *See*—
Eannarino, George. 2,783,417.
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Lichtgarn, Fred. 2,804,581.
- Sarkisian, Arakel H. Barbecue machine. 2,811,915, 11-5-57, Cl. 99—421.
- Sarles, Canneth D., J. A. Keener, and T. H. Koeber, to Whirlpool-Seeger Corp. Adjustable air exhaust grille assembly. 2,786,407, 3-26-57, Cl. 98—40.
- Sarlund, Pentti V., to Zenith Radio Corp. Punch card for distributing coding information. 2,812,957, 11-12-57, Cl. 283—6.
- Sarong, Inc.: *See*—
Hine, Charles W. 2,810,128.
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- Sarossy, Steven O. Garlic press. 2,776,616, 1-8-57, Cl. 100—234.
- Sarraff, Robert J.: *See*—
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- Sarratt, Everett R.: *See*—
Begun, Semi J., Dank, and Sarratt. 2,789,776.
Begun, Semi J., Sarratt, Blaha, and Christian. 2,803,515.
- Sarrett, Lewis H., and W. F. Johns, to Merck & Co., Inc. DL-11-keto progesterone and method of preparing the same. 2,786,064, 3-19-57, Cl. 260—340.9.
- Sarrut, Jean P.: *See*—
Larive, Henri, and Sarrut. 2,811,555.
- Sartain, Ernest L., to Lane-Wells Co. Bridging plug. 2,795,280, 6-11-57, Cl. 166—63.
- Sartell, Boyd O., to Faribault Woolen Mill Co. Combined robe and bag. 2,791,775, 5-14-57, Cl. 2—69.5.
- Sarto, James O., to Chrysler Corp. Transmission control switch. 2,783,658, 3-5-57, Cl. 74—472.
- Sarto, Jorma O., to Chrysler Corp. Carburetor. 2,796,242, 6-18-57, Cl. 261—34.
- Sartori, Mario F., to E. I. du Pont de Nemours and Co. Azo dyes for polyester fiber. 2,782,187, 2-19-57, Cl. 260—205.
- Sarver, Carter L. Closure fastener. 2,790,663, 4-30-57, Cl. 292—264.
- Sarvis, Howard C., 1/2 to B. G. Gellenbeck. Gun sights. 2,806,288, 9-17-57, Cl. 33—58.
- Sasena, John J.: *See*—
Van Niel, Clarence R., and Sasena. 2,804,116.
- Sauers, Myri M. File. 2,816,351, 12-17-57, Cl. 29—78.
- Sasnett, Russell M.: *See*—
Guth, Lauren W., and Sasnett. 2,804,582.
- Sass, Hans G., to Joh. Kleinewefers' Sohn. Strand treating machine. 2,770,049, 1-1-57, Cl. 203—200.
- Sass, Samuel: *See*—
Rush, Cecil A., Cruikshank, Sass, and Zenk. 2,807,565.
- Sassano, John H. Outside sliding window shutter. 2,808,626, 10-8-57, Cl. 20—61.
- Sasse, Reuben. Night latch. 2,794,665, 6-4-57, Cl. 292—194.
- Sassen, Bernard, to The Monarch Machine Tool Co. Hydraulic control system. 2,782,802, 2-26-57, Cl. 137—621.
- Sassen, Bernard, to The Monarch Machine Tool Co. Safety controls. 2,782,891, 2-26-57, Cl. 192—4.
- Sassen, Bernard, to The Monarch Machine Tool Co. Hydraulic tracer control. 2,791,885, 5-14-57, Cl. 60—97.
- Sassen, Bernard, and N. V. Guschling, to The Monarch Machine Tool Co. Hydraulic jogger. 2,782,651, 2-26-57, Cl. 74—364.
- Sasser, Otis E. Can opener. 2,780,861, 2-12-57, Cl. 30—19.
- Sasso, Martin S. Portable mitringing device for power rotary saw. 2,804,104, 8-27-57, Cl. 143—6.
- Satchell, Fred E.: *See*—
Scheidemantel, Herman B., Satchell, and Martyniuk. 2,809,038.
- Sateren, Martin G.: *See*—
Johnson, Thomas D., and Sateren. 2,785,306.
- Sato, Natsuo: *See*—
Ujike, Osamu, and Sato. 2,778,723.
- Satre, Leland H., and C. C. Baker, to Sta-Hi Corp. Comparator for stereotype mats and the like. 2,786,365, 3-26-57, Cl. 88—24.
- Satrom Co., Inc.: *See*—
Satrom, Marilyn and J. M. 2,778,553.
- Satrom, Jean M.: *See*—
Satrom, Marilyn and J. M. 2,778,553.
- Satrom, Marilyn and J. M., to Satrom Co., Inc. Refuse bag for automobiles. 2,778,553, 1-22-57, Cl. 224—42.42.
- Satterlee, Charles H.: *See*—
Klem, Theodore F., and Satterlee. 2,778,649.
- Sattler, Robert E., and J. W. Davison, to Phillips Petroleum Co. Process and apparatus for storage or transportation of volatile liquids. 2,795,937, 6-18-57, Cl. 62—1.
- Sattler, Robert E., and J. W. Davison, to Phillips Petroleum Co. Dehydration of gases. 2,812,830, 11-12-57, Cl. 183—120.
- Satz, William. Reusable seal. 2,801,016, 7-30-57, Cl. 215—40.
- Satzinger, Gebhard. Chopping and pressing mechanism attachable to a meat chopping machine. 2,810,339, 10-22-57, Cl. 100—97.
- Sauber, James W., to Ballantine Laboratories, Inc. Electrical measuring instrument. 2,810,107, 10-15-57, Cl. 323—66.
- Saucerman, Clarence W. Combined automobile hood ornament and bug deflector. 2,778,675, 1-22-57, Cl. 296—91.
- Sauer, Charles W., to Arthur D. Little, Inc. Stabilization of methylenedinitramine. 2,786,078, 3-19-57, Cl. 260—553.
- Sauer, Edgar, and W. Zink, to Zeiss Ikon A. G. Rollfilm cameras. 2,810,330, 10-22-57, Cl. 95—31.
- Sauer, Hans, to C. Zeiss. Optical device for oblique projection apparatus. 2,795,996, 6-18-57, Cl. 88—24.
- Sauer, John C.: *See*—
Cairns, Theodore L., and Sauer. 2,776,995.
- Sauer, Wilhelm: *See*—
Von Rosenberg, Guido, and Sauer. 2,782,124.
- Sauermilch, Walter: *See*—
Mathes, Wilhelm, and Sauermilch. 2,798,071.
- Saukaitis, Albert J.: *See*—
Gardner, George S., and Saukaitis. 2,807,585.
- Saul & Co.: *See*—
Byland, Hans-Rudolf. 2,803,624.
Fleck, Fritz. 2,791,564.
Frey, Wolfgang. 2,779,772.
Frey, Wolfgang, and Peter. 2,794,031.
Frey, Wolfgang, and Peter. 2,794,032.
Grandjean, Philippe. 2,778,817.
Grandjean, Philippe, Kehrler, Schneider, Steinemann and Kappeler. 2,813,852.
Grandjean, Philippe, Kappeler, Schneider, Steinmann, and Wehrli. 2,817,654.
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Jucker, Ernst, and Ebnöther. 2,800,433.
Kehrler, Fritz, and Wehrli. 2,815,337.
Merian, Ernst. 2,782,185.
Merian, Ernst. 2,782,186.
Merian, Ernst. 2,782,188.
Merian, Ernst. 2,782,189.
Merian, Ernst. 2,794,833.
Neler, Reinhard, Pettjean, and Wehrli. 2,779,758.
Peter, Albin, and Frey. 2,778,839.
Rothlin, Ernst, and Bourquin. 2,807,567.
Ruckstuhl, Hans. 2,789,975.
Ruckstuhl, Hans, and Wehrli. 2,779,755.
Ruckstuhl, Hans, and Wehrli. 2,779,757.
Schuler, Max. 2,815,312.
Schweizer, August. 2,783,223.
Steinemann, Willy. 2,813,853.
Steinemann, Willy, and Wehrli. 2,813,856.
Stoll, Arthur, Brack, Hofmann, and Kobel. 2,809,920.
Stoll, Arthur, Hofmann, and Troxler. 2,810,723.
Stoll, Arthur, Jucker, and Becker. 2,800,484.
Stoll, Arthur, Jucker, and Lindenmann. 2,800,476.
Stoll, Arthur, Jucker, and Lindenmann. 2,800,477.
Wiedemann, Erwin. 2,780,955.
Wiedemann, Erwin. 2,792,743.
- Saul, Warren E.: *See*—
Simmons, George W. F., and Saul. 2,791,949.
- Sauls, Thomas W.: *See*—
Norwood, Samuel L., Rueggeberg, and Sauls. 2,798,089.
Rueggeberg, Walter H. C., and Sauls. 2,810,746.
- Saulsbury, Laforest S.: *See*—
Burrows, Edith S. 2,778,025.
Gerhard, Charles F. 2,810,201.
- Sault, Charles L. Meter and tank calibrating equipment. 2,778,218, 1-22-57, Cl. 73—3.
- Saum, Arthur M., C. E. Miller, and R. E. McDonald, to E. I. du Pont de Nemours & Co. Textile package formation. 2,805,765, 9-10-57, Cl. 203—310.
- Saum, John A. Wire splicer clamp. 2,796,662, 6-25-57, Cl. 29—286.
- Saunders, Arthur W. Silk screen printing machine. 2,810,340, 10-22-57, Cl. 101—126.
- Saunders, Earle R., and W. L. Harbrecht, to Union Carbide and Carbon Corp. Nitrogen-bearing ferrochromium. 2,797,156, 6-25-57, Cl. 75—28.
- Saunders, Elerington, and F. L. Matthews, to Monsanto Chemical Co. Gas releasing device and method. 2,815,269, 12-3-57, Cl. 23—290.
- Saunders, Gordon S. Doweling jigs. 2,783,665, 3-5-57, Cl. 77—62.
- Saunders, Gordon S. Doweling jigs. 2,810,310, 10-22-57, Cl. 77—62.
- Saunders, Henry B., to The Schluter Co. Pasteurizer. 2,776,777, 1-8-57, Cl. 220—13.
- Saunders, Henry B., to Electronic Specialties Co., Inc. Fence charger. 2,801,350, 7-30-57, Cl. 307—132.
- Saunders, Norman, 40% to O. T. Whiting, Jr. Air raid alarm. 2,781,507, 2-12-57, Cl. 340—253.
- Saunders, Norman. Air raid alarm. 2,811,712, 10-29-57, Cl. 340—253.
- Saunders, Norman B., to American Machine & Foundry Co. Magnetic memory circuits employing biased magnetic binary cores. 2,781,503, 2-12-57, Cl. 340—174.
- Saunders, Orson V., and C. F. Petkewitz, to General Motors Corp. Refrigerating apparatus. 2,790,696, 4-30-57, Cl. 312—351.
- Saunders, Orson V., J. M. Murphy, and V. G. Sharpe, to General Motors Corp. Refrigerating apparatus. 2,810,271, 10-22-57, Cl. 62—117.45.
- Saunders, Philip G., to Owens-Illinois Glass Co. Carton. 2,810,507, 10-22-57, Cl. 229—37.

- Saunders, Robert H., to Hercules Powder Co. Terpene-polyhalomethane adduct. 2,776,325, 1-1-57, Cl. 260-648.
- Saunders-Roe Ltd.: *See*—
Ireland, Lionel H. 2,802,638.
- Saunders-Singer, Arthur E. Microscope manipulators or dissection manipulators. 2,815,697, 12-10-57, Cl. 88-40.
- Saunders Valve Co. Ltd.: *See*—
Price, Richard H., and Kaye. Re. 24,350.
- Saunders, William P.: *See*—
Chisholm, Douglas S., and Saunders. 2,779,672.
- Flynn, James P., and Saunders. 2,813,023.
- Sause, Henry W.: *See*—
Cusic, John W., Lowrie, and Sause. 2,787,617.
- Sausen, George N., to E. I. du Pont de Nemours and Co. Preparation of compounds having a tricyanovinyl substituent on a carbon atom, and new tricyanovinyl-substituted hydrocarbon products. 2,813,116, 11-12-57, Cl. 260-465.
- Sauter, August K. G.: *See*—
Wagner, Kurt. 2,807,189.
- Sauter, Norman A., and M. H. Horton, to Deere & Co. Waterless green molding sand. 2,813,035, 11-12-57, Cl. 106-38.35.
- Sauthoff, Harold A. Combination driller's and pump seal. 2,800,242, 7-23-57, Cl. 220-3.8.
- Sauvago, Willard L. Sheathed gaff. 2,805,883, 9-10-57, Cl. 294-26.
- Savage, Francis C., to United Aircraft Corp. Hollow, sheet metal blade or vane construction. 2,801,073, 7-30-57, Cl. 253-77.
- Savage, John: *See*—
Hessenberg, Wilfrid C. F., and Savage. 2,815,551.
- Savage, John, M. W. Thring, and W. H. Pritchard, to The British Iron and Steel Research Assn. Method of and apparatus for the casting of metal. 2,814,843, 12-3-57, Cl. 22-57.2.
- Savage, Merle M. Self-orienting immersion instruments. 2,809,525, 10-15-57, Cl. 73-449.
- Savage and Parsons Ltd.: *See*—
Atton, Alfred M., and Fletcher. 2,797,374.
- Savage, Robert H., to Contemporary Metals, Inc. Wire bending machine for the bending of a wire or the like. 2,776,678, 1-8-57, Cl. 140-71.
- Savage, Robert H., to General Electric Co. Switch. 2,816,197, 12-10-57, Cl. 200-150.
- Savage, William E., and W. H. Peterson, to Shell Development Co. Water-resistant gels and their manufacture. 2,790,776, 4-30-57, Cl. 252-28.
- Savary, Andre. Dispensing closure. 2,778,533, 1-22-57, Cl. 222-92.
- Savet, Paul H.: *See*—
Davis, Sidney, Hammerstein, and Savet. 2,810,885.
- Savich, Alfred L., and C. E. Jansen, to Swift & Co. Process for improving color of animal material. 2,798,812, 7-9-57, Cl. 99-107.
- Savino, Henry C.: *See*—
Suozzo, John, and Savino. 2,795,298.
- Savino, Henry C. Motor vehicle signal device. 2,799,843, 7-16-57, Cl. 340-52.
- Savino, Henry C., and P. C. Keiper, to Westinghouse Electric Corp. Elevator systems. 2,776,731, 1-8-57, Cl. 187-29.
- Savio, Mario W.: *See*—
Herrick, Guy S., Conger, and Savio. 2,816,900.
- Savitt, George: *See*—
Gisser, Isidore, and Cohen. 2,787,492.
- Savoca, Joseph L., and H. W. Shea, to Socony Mobil Oil Co., Inc. Method and apparatus for the removal of granular solids from a columnar mass thereof. 2,794,772, 6-4-57, Cl. 196-147.
- Savoie, Adelard. Prefabricated frames. 2,781,559, 2-19-57, Cl. 20-11.
- Savona, Charles. Automatic car sudser. 2,801,435, 8-6-57, Cl. 15-130.
- Sawdey, George W., to Eastman Kodak Co. 2-imino-4-thiazolidones and preparation. 2,798,067, 7-2-57, Cl. 260-240.
- Sawdey, George W., to Eastman Kodak Co. Photographic elements containing thiazolidine derivatives. 2,808,330, 10-1-57, Cl. 96-11.
- Sawdey, George W., and J. A. Van Allan, to Eastman Kodak Co. Photographic light sensitive elements containing ultraviolet filters. 2,784,087, 3-5-57, Cl. 96-84.
- Sawdey, Neil T.: *See*—
Benninghoff, William L., and Sawdey. 2,798,234.
- Sawicki, Joseph S. Flare buoy. 2,789,501, 4-23-57, Cl. 102-7.
- Sawyer, Boyd F. Automatic electrically operated water heater. 2,779,855, 1-29-57, Cl. 219-39.
- Sawyer, Carl W., to Electro-Way Corp. Safety construction for the waste receiving mouth of garbage disposer. 2,795,330, 6-11-57, Cl. 209-155.
- Sawyer, Charles B.: *See*—
Dodds, Harry W., and Sawyer. 2,794,241.
- Dodds, Harry W., and Sawyer. 2,806,596.
- Sawyer, Charles B., and B. R. F. Kjellgren, to the United States of America as represented by the United States Atomic Energy Commission. Magnesium reduction process for production of uranium. 2,789,897, 4-23-57, Cl. 75-84.1.
- Sawyer, Frederick D., to Ford Motor Co. Tractor top link. 2,786,364, 3-26-57, Cl. 74-586.
- Sawyer, Frederick D., and E. E. Kuhary, to Ford Motor Co. Tractor-implement linkage. 2,807,991, 10-1-57, Cl. 97-47.14.
- Sawyer, John C.: *See*—
Bartlett, Kenneth M., and Sawyer. 2,792,604.
- Sawyer, John C., to Thompson Products, Inc. Shell mold and method of making same. 2,807,845, 10-1-57, Cl. 22-130.
- Sawyer, Luke E., to The Babcock & Wilcox Co. Rotary piercing processes. 2,791,924, 5-14-57, Cl. 80-62.
- Sawyer, Thomas H., to The Ohio Brass Co. Crossover polarity switch. 2,794,867, 6-4-57, Cl. 191-37.
- Sawyer's Inc.: *See*—
Burt, Harold R. 2,776,597.
- Paulsohn, Lester H. 2,783,563.
- Sax, Norbert W.: *See*—
Kimmel, Walter, and Sax. 2,795,617.
- Kimmel, Walter, and Sax. 2,799,706.
- Saxe, Ira N. Seed hopper for corn planters. 2,794,578, 6-4-57, Cl. 222-240.
- Saxe, Walter E., to The Conveyor Co., Inc. Apparatus for measuring fineness modulus. 2,782,926, 2-26-57, Cl. 209-237.
- Saxer, August: *See*—
Kralowetz, Bruno. 2,793,548.
- Saxlund, Oddmund. Silos. 2,795,358, 6-11-57, Cl. 222-227.
- Saxton, Arthur L.: *See*—
Felix, James R., Long, Holder, and Saxton. 2,791,537.
- Saxton, Arthur L., to Esso Research and Engineering Co. Cyclone separator dipleg seal. 2,784,803, 3-12-57, Cl. 183-85.
- Saxton, Arthur L., to Esso Research and Engineering Co. Apparatus for contacting liquids. 2,791,536, 5-7-57, Cl. 196-14.49.
- Saxton, Millard F., to The Engineered Products Co. Magnetic catch assembly. 2,792,249, 5-14-57, Cl. 292-251.5.
- Sayco Doll Corp.: *See*—
Lenoble, Daniel. 2,780,190.
- Sayko, Andrew F.: *See*—
Young, David W., Morway, and Sayko. 2,810,695.
- Sayles Finishing Plants, Inc.: *See*—
Russell, William W., and Allen. 2,776,866.
- Saylor, Clyde C., to The Auto-Solar Co. Apparatus for trimming heel top lifts. 2,799,030, 7-16-57, Cl. 12-85.
- Sayre, Allyn T., Jr.: *See*—
Bond, Donald C., and Sayre. 2,785,752.
- Sayre, Allyn T., Jr., to The Pure Oil Co. Method of increasing crude oil recovery by secondary recovery method employing a water drive. 2,812,817, 11-12-57, Cl. 166-9.
- Sayre, Allyn T., Jr., and O. C. Holbrook, to The Pure Oil Co. Acidizing wells. 2,796,936, 6-25-57, Cl. 166-42.
- Sayre, Allyn T., Jr., L. E. Hutchings, and O. C. Holbrook, to The Pure Oil Co. Process for temporarily and selectively sealing a well. 2,801,699, 8-6-57, Cl. 166-22.
- Sayre, David: *See*—
Gray, John W., Green, and Sayre. 2,784,908.
- Sayre, Howard S., to Fuller Co. Pneumatic conveying. 2,813,758, 11-19-57, Cl. 302-53.
- Sayre, Jack L.: *See*—
Gearheart, John D., Sayre, and Rehnberg. 2,813,183.
- Sayre, Kenneth L., to Bjorksten Research Laboratories, Inc. Treatment of polyethylene terephthalate. 2,785,085, 3-12-57, Cl. 117-62.
- Sayward, John M., to American Cyanamid Co. Recovery of naphthoquinone from crude product containing phthalic anhydride and naphthalene. 2,783,251, 2-26-57, Cl. 260-396.
- Sbarra, Dominic G. Orthopedic exercising machines. 2,783,044, 2-26-57, Cl. 272-79.
- Scaff, Jack H., and H. C. Theuerer, to Bell Telephone Laboratories, Inc. Rectifier and method of making it. 2,784,358, 3-5-57, Cl. 317-236.
- Seagnelli, Henry J., to Ward Leonard Electric Co. Potentiometer. 2,807,693, 9-24-57, Cl. 201-48.
- Scaife, Alan M.: *See*—
Williams, Everard M. 2,813,933.
- Scaife Co.: *See*—
Haugen, Edmund H. 2,805,648.
- Haugen, Edmond H. 2,812,016.
- Miller, James H. 2,789,575.
- Ryden, Eric H. 2,814,338.
- Scal, Robert K-F, to United States of America as represented by the Secretary of the Navy. Support and housing for electronic circuits. 2,787,733, 4-2-57, Cl. 317-101.
- Scal, Robert K-F, 1/2 to E. J. Hebert, Jr. Power supply system. 2,808,521, 10-1-57, Cl. 307-150.
- Scala, Joseph D. Sanding head for trimming machine. 2,812,625, 11-12-57, Cl. 51-190.
- Scalera, Mario: *See*—
Greenwood, Ruth A., Scalera, and Lecher. 2,814,645.
- Scalera, Mario, and F. H. Adams, to American Cyanamid Co. Amides of hydroxybenzotriazole carboxylic acids. 2,777,855, 1-15-57, Cl. 260-308.
- Scalera, Mario, and J. F. Hosler, to American Cyanamid Co. N,N-dicarboxymethyl thiuram disulfides. 2,784,223, 3-5-57, Cl. 260-534.
- Scalera, Mario, and J. J. Leavitt, to American Cyanamid Co. Azo dyesuffs. 2,793,206, 5-21-57, Cl. 260-203.

- Scalera, Mario, and T. H. Chao, to American Cyanamid Co. Fungicidal compositions and method of using same. 2,796,377, 6-18-57, Cl. 167-32.
- Scalera, Mario, and T. H. Chao, to American Cyanamid Co. Dithiocyano-1,4-naphthoquinones and method for preparing same. 2,796,425, 6-18-57, Cl. 260-454.
- Scalera, Mario, and A. W. Joyce, to American Cyanamid Co. Azo vat dyes of the triazine anthraquinone series. 2,800,468, 7-23-57, Cl. 260-153.
- Scalf, John H. Basketball practice apparatus. 2,808,264, 10-1-57, Cl. 273-15.
- Scamman, Charles W.: *See*—
Campise, Nash O., and Scamman. 2,810,690.
- Scamman, John F.: *See*—
Hardy, Francis H., and Scamman. 2,788,507.
- Scandurra, Aldo M., to Standard Coil Products Co., Inc. Receiver tunable over the very high and ultrahigh frequency television bands. 2,785,297, 12-57, Cl. 250-20.
- Scandurra, Aldo M., and R. J. Hannon, to Standard Coil Products Co., Inc. Regenerative compensation of radio frequency amplifiers. 2,795,655, 6-11-57, Cl. 179-171.
- Scanland, Joseph E., to New Monarch Machine & Stamping Co. Christmas tree holder. 2,815,908, 12-10-57, Cl. 248-48.
- Scanley, Clyde S.: *See*—
Richardson, Eugene E., Scanley, and Fields. 2,799,651.
- Scanley, Clyde S., to Standard Oil Co. Method of stabilizing lubricant additive compositions. 2,799,653, 7-16-57, Cl. 252-32.7.
- Scanlon, Charles D. Safety marker. 2,817,308, 12-24-57, Cl. 116-63.
- Scanoptic Inc.: *See*—
Ehrenhaft, Franz F., and Rosin. 2,817,994.
- Scarborough Associates, Inc.: *See*—
Myers, Elman B. 2,818,521.
- Scarborough, O. D., to the United States of America as represented by the Secretary of the Navy. Hand-operated crimping tool. 2,783,669, 3-5-57, Cl. 81-15.
- Scarborough, Abb L.: *See*—
Barnard, William S., and Scarborough. 2,805,993.
- Scarborough, Alfred D., to Hughes Aircraft Co. High speed counter. 2,813,677, 11-19-57, Cl. 235-92.
- Scarff, Harold M. Tool-centering machine. 2,779,040, 1-29-57, Cl. 10-147.
- Scarlett, John A. Muller with wheel assembly indirectly connected to drive shaft through independently mounted scraper blade assembly. 2,783,949, 3-5-57, Cl. 241-128.
- Scarlett, John A. Quick opening door. 2,818,195, 12-31-57, Cl. 220-57.
- Scarnato, Thomas J.: *See*—
Hanford, William D., and Scarnato. 2,796,722.
- Scaroulis, Costas. Game device projectors. 2,791,431, 5-7-57, Cl. 273-134.
- Scaroulis, Costas. Automatic battery-operated fans. 2,811,305, 10-29-57, Cl. 230-259.
- Scarpa, Giuseppe. Electric transformer. 2,817,066, 12-17-57, Cl. 336-84.
- Scaturro, Peter S., to Arvey Corp. Combined shipping and display box. 2,793,802, 5-28-57, Cl. 229-36.
- Schaa, Marvin J. Trailer hitch with crossed reaches. 2,792,238, 5-14-57, Cl. 280-458.
- Schaab, Rudolph S. Pile processing machine. 2,784,477, 3-12-57, Cl. 26-2.
- Schaaf, Henry W., to Ford Motor Co. Baler needle safety connection. 2,780,164, 2-5-57, Cl. 100-19.
- Schaaf, Fritz, and F. Gross, to Ciba Ltd. Cosmetic preparations. 2,791,534, 5-7-57, Cl. 167-90.
- Schaan, José L., M. L. De Gail, and A. J. Barea; said De Gail assor. to Etablissements E. & M. Lamort Fils. Beater apparatus. 2,807,989, 10-1-57, Cl. 92-27.
- Schächer, Paul F.: *See*—
Scherer, Otto, and Schächer. 2,783,275.
- Schachinger, Edward A. Key magazine for changeable locks. 2,805,792, 9-10-57, Cl. 221-66.
- Schacht, Clifford A., Jr., to Overhead Door Corp. Gauge for coiled springs. 2,805,488, 9-10-57, Cl. 33-199.
- Schachte, John H. Automatic weighing loader. 2,790,619, 4-30-57, Cl. 249-58.
- Schachter, Max: *See*—
Inglehart, Ferdinand C., George, Atkins, and Schachter. 2,788,402.
- Schachtsiek, Erwin. Arrangement for cooling transportable goods. 2,805,554, 9-10-57, Cl. 62-1.
- Schackmann, Heinrich, U. Gregor, C. Kayser, and W. Teworte, to Duisburger Kupferhütte. Method for the recovery of cobalt from impure cobalt oxide. 2,793,111, 5-21-57, Cl. 75-82.
- Schade, Frank S., to National Blank Book Co. Booster construction for loose leaf binder toggle mechanisms. 2,817,341, 12-24-57, Cl. 129-24.
- Schade, Henry E. Dispenser. 2,816,692, 12-17-57, Cl. 222-226.
- Schadeck, Mathew J. Adjustable hand positioner for shotguns and rifles. 2,782,545, 2-26-57, Cl. 42-71.
- Schaedler, John J., and D. A. Shippis. Method for vacuum tube rejuvenation. 2,783,116, 2-26-57, Cl. 316-2.
- Schaedler, Norbert N., to O & B Development Co. Motor vehicle hoisting apparatus for invalids. 2,793,768, 5-28-57, Cl. 214-75.
- Schaefer, Edgar L. Lawn trimmer. 2,805,535, 9-10-57, Cl. 56-25.4.
- Schaefer, Edward E. Infant exerciser and toy. 2,785,503, 3-19-57, Cl. 46-32.
- Schaefer, Edward J. Thrust bearing. 2,779,637, 1-29-57, Cl. 308-160.
- Schaefer, Edward J. Watt sensitive device. 2,786,953, 3-26-57, Cl. 310-166.
- Schaefer, Edward J. Overload protector. 2,791,736, 5-7-57, Cl. 318-221.
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- Schaefer, Edward J. Submersible sump pump control. 2,804,019, 8-27-57, Cl. 103-26.
- Schaefer, Edwin J., to Westinghouse Air Brake Co. Highway crossing protection control apparatus. 2,790,895, 4-30-57, Cl. 246-130.
- Schaefer, Ernest R., and H. L. Kessler, to Engineering Development Corp. Tents. 2,812,769, 11-12-57, Cl. 135-1.
- Schafer, Erwin: *See*—
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- Schaefer, Eustace. Safety handle for utensils. 2,784,996, 3-12-57, Cl. 294-27.
- Schaefer, F. & M., Brewing Co., The: *See*—
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- Bockelmann, John B., and Strandkov. 2,798,811.
- Tysinger, Joseph L. 2,808,806.
- Schaefer, Frederic C.: *See*—
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- Schaefer, Frederic C., to American Cyanamid Co. Method of preparing guanamines. 2,777,848, 1-15-57, Cl. 260-249.9.
- Schaefer, Hans F., Jr., and F. Pulsifer, to United Shoe Machinery Corp. Lockstitch sewing machines. 2,780,188, 2-5-57, Cl. 112-38.
- Schaefer, Harold J. Lintel for packaged masonry units. 2,794,548, 6-4-57, Cl. 206-65.
- Schaefer, Harold J. Apparatus for handling block-type material. 2,814,402, 11-26-57, Cl. 214-384.
- Schaefer, Harold W., to Philco Corp. Smoke and odor eliminator. 2,815,427, 12-3-57, Cl. 219-19.
- Schaefer, James H., and H. P. Kemmer, to Amphenol Electronics Corp. Screw with movable handle which is held in position by spring means. 2,798,404, 7-9-57, Cl. 85-9.
- Schaefer, John F., and A. Sabatino, to Globe-Union Inc. Wood fiber separators for storage batteries and process for making. 2,799,719, 7-16-57, Cl. 136-146.
- Schaefer, John H. Automatic traction device for automobiles. 2,815,828, 12-10-57, Cl. 188-4.
- Schaefer, Ralph A., and G. R. Kingsbury, to Clevite Corp. Separating and recovering nonferrous alloys from ferrous materials coated therewith. 2,796,394, 6-18-57, Cl. 204-146.
- Schaefer, Robert M., and O. K. Kelley, to General Motors Corp. Composite fluid and gear drive. 2,782,658, 2-26-57, Cl. 74-645.
- Schaeffer, George W.: *See*—
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- Schaeffer, Glen T., and D. B. Eklund. Wheeled carrier for crates. 2,815,220, 12-3-57, Cl. 280-47.3.
- Schaeffer, Joseph M., to The Waterbury Farrel Foundry & Machine Co. Clearing wheel mechanisms. 2,776,073, 1-1-57, Cl. 221-159.
- Schaffer, Robert: *See*—
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- Schaeffer, Robert L., to General Electric Co. Electric cooking vessel support. 2,816,683, 12-17-57, Cl. 220-69.
- Schaeffer, William D.: *See*—
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- Scott, Carleton B., Schaeffer, and Wordie. 2,810,002.
- Schaeffer, William D., to Union Oil Co. of California. Werner complexes of hydroxyalkyl pyridines. 2,798,069, 7-2-57, Cl. 260-270.
- Schaeffer, William D., to Union Oil Co. of California. Separation of organic compounds by forming clathrates with Werner complexes. 2,798,891, 7-9-57, Cl. 260-674.
- Schaeffer, William D., and C. B. Scott, to Union Oil Co. of California. Separation of aromatic hydrocarbons. 2,793,240, 5-21-57, Cl. 260-674.
- Schaeffer, William D., and W. S. Dorsey, to Union Oil Co. of California. Method of decomposing Werner complex clathrates. 2,798,102, 7-2-57, Cl. 260-674.
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- Schaelchlin, Walter: *See*—
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- Schaelchlin, Walter, and G. E. Mathias, to Westinghouse Electric Corp. Steppless control for Ward Leonard system. 2,785,361, 3-12-57, Cl. 318-143.
- Schaelchlin, Walter, and C. H. Storey, Jr., to Westinghouse Electric Corp. Saturable reactor control. 2,798,571, 7-9-57, Cl. 183-7.
- Schaeer, August A., to Shell Development Co. Microcrystalline wax compositions. 2,780,556, 2-5-57, Cl. 106-270.
- Schaetzly, William F. Fluid loader. 2,781,052, 2-12-57, Cl. 137-276.
- Schaeve, Donald K.: *See*—
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- Schafer, Clifford O., and D. R. Tanguy, to Schlumberger Well Surveying Corp. Electrical systems. 2,802,200, 8-6-57, Cl. 340-172.
- Schäfer, Erwin: *See*—
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- Schafer-Flottmann & Co. G. m. b. H.: *See*—
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- Schäfer, Gustav: *See*—
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- Schafer, Leonhard O. Method and apparatus for forming ornamental objects. 2,803,202, 8-20-57, Cl. 107-15.
- Schafer, Robert A., to National Automatic Tool Co., Inc. Adjustable control assembly for machine tools. 2,780,116, 2-5-57, Cl. 77-32.5.
- Schäfer, Werner: *See*—
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- Schaffer, Herman W., to General Electric Co. Gear case seal. 2,814,368, 11-26-57, Cl. 189-86.
- Schaffer, Robert: *See*—
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- Schaffer, William C.: *See*—
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- Schaffer-Glössel, Hans. Contacting device for a dynamo-electrical igniting machine driven by a mainspring. 2,784,328, 3-5-57, Cl. 310-69.
- Schaffner, Johannes S.: *See*—
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- Schaffner Mfg. Co., Inc.: *See*—
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- Schaffner, Paul E., to Schaffner Mfg. Co., Inc. Finishing apparatus. 2,805,530, 9-10-57, Cl. 51-193.
- Schafroth, Werner, to International Staple and Machine Co. Staple magazine and feed means for stapling machines. 2,778,022, 1-22-57, Cl. 1-49.
- Schagen, Pieter, to Hartford National Bank and Trust Co., as trustee. Film recording from cathode ray tube during flyback by infra-red release of image energy. 2,784,250, 3-5-57, Cl. 178-7.4.
- Schailer, Edward G., to Armstrong Cork Co. Method of manufacturing hard surface covering with partial removal of the selvage bands. 2,779,387, 1-29-57, Cl. 154-25.
- Schaitberger, Daniel A., to Northern Engineering Works. Double hook type crane structure. 2,811,262, 10-29-57, Cl. 212-126.
- Schalk, Robert F.: *See*—
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- Birchler, Robert O., and Schalk. 2,809,272.
- Quinlan, Amos L., and Schalk. 2,809,273.
- Schalkwijk, Willem F., L. de Lange, and A. Koopmans, to Hartford National Bank and Trust Co., as trustee. Regenerator construction of a cold-gas refrigerator. 2,775,876, 1-1-57, Cl. 62-136.
- Schall, Josef W.: *See*—
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- Schall-Technik Dr. Ing. Karl Schoeps: *See*—
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- Schaller, Harold E. Knife assembly for meat cutting machines. 2,804,112, 8-27-57, Cl. 146-106.
- Schaller, Leo, to The Engelberg Huller Co., Inc. Abrading machine. 2,791,070, 5-7-57, Cl. 51-138.
- Schaller, Paul: *See*—
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- Schallert, Friedrich: *See*—
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- Schaltegger, Hermann, to Dr. A. Wander A. G. Method of preparing 7-dehydrocholesterol. 2,778,840, 1-22-57, Cl. 260-397.2.
- Schaltegger, Hermann. Process for allylic bromination of esters of olefinic carboxylic acids. 2,790,757, 4-30-57, Cl. 204-158.
- Schaltegger, Hermann. Process for the production of esters of allyl-brominated olefinic alcohols. 2,790,758, 4-30-57, Cl. 204-158.
- Schalyo, John, Jr., to The Garrett Corp. Method of forming passage structure. 2,786,261, 3-26-57, Cl. 29-156.4.
- Schamel, Clyde H.: *See*—
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- Schamel, Clyde H., to General Motors Corp. Lock striker assembly. 2,795,452, 6-11-57, Cl. 292-340.
- Schamel, Clyde H., and C. S. Semar, to General Motors Corp. Seat mechanism. 2,803,290, 8-20-57, Cl. 155-14.
- Schamel, Clyde H., and C. S. Semar, to General Motors Corp. Hinge check and hold-open. 2,812,538, 11-12-57, Cl. 16-142.
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- Schang, John J. Improved charge and discharge mechanism for an industrial washing machine. 2,800,786, 7-30-57, Cl. 68-58.
- Schankler, Martin M. Multipurpose woodworking machine or the like. 2,786,498, 3-26-57, Cl. 144-35.
- Schanno, Joseph A. Stem cutters. 2,788,573, 4-16-57, Cl. 30-232.
- Schantz, Leonard G.: *See*—
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- Schanz, August, to Amag-Hilpert Pegnitzhutte A. G. Sealed stator in submersible motors. 2,804,556, 8-27-57, Cl. 310-86.
- Schanz, George H., to The B. F. Goodrich Co. Apparatus for multiple extrusion. 2,807,833, 10-1-57, Cl. 18-13.
- Schanz, George H., to The B. F. Goodrich Co. Tire tread stock buffing apparatus. 2,815,520, 12-10-57, Cl. 15-40.
- Schappel, Joseph W., and W. P. Dooley, to American Viscose Corp. Modified regenerated cellulose articles and method for making the same. 2,796,656, 6-25-57, Cl. 28-82.
- Schardinger, Aloysius. Chimney tile grapple. 2,794,669, 6-4-57, Cl. 294-97.
- Scharf, Herbert, to Maschinenfabrik Augsburg-Nürnberg A. G. Heat treatment of ceramic materials. 2,779,082, 1-29-57, Cl. 25-157.
- Scharf, Herbert D. Wire twisting and tinning machine. 2,783,525, 3-5-57, Cl. 29-33.
- Scharf, Herbert H. E., R. W. F. Schmucker, and W. Richter, to Maschinenfabrik Augsburg-Nürnberg A. G. Ceramic machine parts. 2,783,967, 3-5-57, Cl. 253-77.
- Scharf, John H. Drilling jig. 2,788,684, 4-16-57, Cl. 77-62.
- Scharf, Murray M.: *See*—
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- Scharf, Philip T.: *See*—
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- Scharf, Philip T., W. J. Keenan and R. J. Fay, to Eastman Kodak Co. Neutral beam splitter. 2,815,695, 12-10-57, Cl. 88-1.
- Scharmann, Walter G. (deceased), to Esso Research and Engineering Co. Manufacture of gas mixtures containing carbon monoxide and hydrogen. 2,794,725, 6-4-57, Cl. 48-206.
- Schaschl, Edward, to The Pure Oil Co. Automatic change-over apparatus. 2,791,230, 5-7-57, Cl. 137-112.
- Schattel, Juanita B. Finger painting apron. 2,804,624, 9-3-57, Cl. 2-49.
- Scharten, Frank, and T. Alderdice. Electric broiler. 2,787,947, 4-9-57, Cl. 99-332.
- Schatz, Karl E., to C. K. Etzel. Mouthpiece for musical wind instruments. 2,778,264, 1-22-57, Cl. 84-398.
- Schatzman, George W.: *See*—
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- Schnur, Friedrich, Krauel, and Schaub. 2,797,151.
- Schaub, Franz, to Ruhrchemie Aktiengesellschaft. Purification of gases with shaped purifying materials. 2,780,310, 2-5-57, Cl. 183-114.2.
- Schaub, Franz, to Ruhrchemie Aktiengesellschaft. Process and apparatus for the contacting of granular materials with liquids and gases. 2,783,834, 3-5-57, Cl. 209-165.
- Schaub, Franz, to Ruhrchemie Aktiengesellschaft. Process and apparatus for the separation of granular materials. 2,783,889, 3-5-57, Cl. 209-474.
- Schaub, Franz, to Ruhrchemie Aktiengesellschaft. Separation of granular materials. 2,793,329, 6-11-57, Cl. 209-139.
- Schaub, Franz, to Ruhrchemie Aktiengesellschaft. Catalytic splitting of hydrocarbons in the vapor phase. 2,817,625, 12-24-57, Cl. 196-52.
- Schaub, Fred H., Engineering Co., Inc.: *See*—
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- Schaub, Robert F., to Fred H. Schaub Engineering Co., Inc. Apparatus for deaerating water. 2,783,853, 3-5-57, Cl. 183-2.5.
- Schaunburg, Hans G. Air ducts for mines and the like. 2,804,095, 8-27-57, Cl. 138-54.
- Schauenstein, Erwin: *See*—
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- Schauer, George W., Jr., to General Motors Corp. Domestic appliance. 2,790,057, 4-23-57, Cl. 219-20.
- Schauer, George W., Jr., to General Motors Corp. Domestic appliance. 2,809,267, 10-8-57, Cl. 219-38.
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- Schäufelberger, Felix A., to Chemical Construction Corp. Method of concentrating metal values from sulfur solutions. 2,778,727, 1-22-57, Cl. 75-108.
- Schäufelberger, Felix A., to Chemical Construction Corp. Recovery of nickel and cobalt values from garnierite ores. 2,778,729, 1-22-57, Cl. 75-119.
- Schäufelberger, Felix A., to Chemical Construction Co. Method of concentrating solutions without evaporation. 2,780,530, 2-5-57, Cl. 23-293.
- Schäufelberger, Felix A., to American Cyanamid Co. Reduction of oxides to metal. 2,805,149, 9-3-57, Cl. 75-119.
- Schäufelberger, Felix A. Leaching of arsenic ores. 2,805,936, 9-10-57, Cl. 75-101.
- Schäufelberger, Felix A., to Chemical Construction Corp. Method of treating iron bearing ores. 2,805,939, 9-10-57, Cl. 75-108.

- Schäufelberger, Felix A., and A. M. Czikk, to American Cyanamid Co. Separation of cobalt from nickel. 2,777,753, 1-15-57, Cl. 23—117.
- Schäufelberger, Felix A., and P. J. McGauley, to Chemical Construction Corp. Process for recovering copper by chemical precipitation. 2,796,342, 6-18-57, Cl. 75—108.
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- Richards, Alfred V., and Schäufelberger. 2,810,309.
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- Schaumann, Holger H., to E. I. du Pont de Nemours and Co. Process for the manufacture of titanium dioxide pigment. 2,798,819, 7-9-57, Cl. 106—300.
- Schaumann, Holger H., to E. I. du Pont de Nemours and Co. Production of TiO_2 . 2,805,921, 9-10-57, Cl. 23—202.
- Schaumer, Theo B., to Hollywood-Maxwell Co. Brassiere with cups having rim reinforcement. 2,776,433, 1-8-57, Cl. 2—42.
- Schechter, William H., to Callery Chemical Co. Method of extinguishing metal fires. 2,787,329, 4-2-57, Cl. 169—1.
- Schecter, Irving J., and S. H. Isaacs, to Sylvania Electric Products, Inc. Television picture tube package. 2,791,325, 5-7-57, Cl. 206—65.
- Scheel, Harvey A., and C. L. Martin, Jr., to Green Giant Co. Rotary convex huller for easily damaged crops. 2,808,056, 10-1-57, Cl. 130—30.
- Scheel, Kurt, and H. W. Schmidt, to Kali-Chemie Aktiengesellschaft. Process of producing silicic acid esters. 2,814,635, 11-26-57, Cl. 260—448.8.
- Scheel, Walther F., to Rockwell Spring and Axle Co. Motor seal. 2,799,248, 7-16-57, Cl. 121—38.
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- Scheff, Lenard. Folding closure. 2,799,332, 7-16-57, Cl. 160—84.
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- Scheftelowitz, Henry, to Telefonaktiebolaget L M Ericsson. Filter for electric line system. 2,787,766, 4-2-57, Cl. 333—73.
- Scheg, Marcian A., to General Railway Signal Co. Oscillating code transmitter. 2,814,765, 11-26-57, Cl. 317—198.
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- Schegler, Roy F., to J. I. Case Co. Tractor mounted releasable implement. 2,777,376, 1-15-57, Cl. 97—47.14.
- Scheib, Ludwig G., to Clybourn Machine Corp. Carton taping machine. 2,799,419, 7-16-57, Cl. 216—25.
- Scheibel, Kurt, to VEB Spezialmaschinenwerk Limbach. Glare free lighting apparatus for table type embroidery machines. 2,808,014, 10-1-57, Cl. 112—218.
- Scheid, Erich M., to Vorwerk & Co. Electric hair dryer for use as a hand or table appliance. 2,817,000, 12-17-57, Cl. 219—39.
- Scheideler, Carl E., to Bell Telephone Laboratories, Inc. Antennas employing laminated conductors. 2,802,209, 8-6-57, Cl. 343—791.
- Scheidemantel, Herman B., F. E. Satchell, and E. T. Martyniuk, to The Brunswick-Balke-Collider Co. Bowling pins. 2,809,038, 10-8-57, Cl. 273—82.
- Scheidenhelm, Earl L., to H. D. Hume. Harvester platform support linkage. 2,807,127, 9-24-57, Cl. 56—208.
- Scheidt, Julius. Water aerating pump. 2,791,182, 5-7-57, Cl. 103—96.
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- Hauk, Leon P., and Scheidt. 2,779,545.
- Scheidt, Gerald A., to Western Electric Co., Inc. Cable guiding apparatus. 2,783,025, 2-26-57, Cl. 254—190.
- Scheiner, Abraham. Potato grater. 2,793,666, 5-28-57, Cl. 146—92.
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- Scheiwer, Albert T. Faucets with removable plungers. 2,796,881, 6-25-57, Cl. 137—315.
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- Schell, John W., to Erie Resistor Corp. Method of making capacitors. 2,807,020, 9-17-57, Cl. 51—281.
- Schell, Roger E., to Radio Corp. of America. Calibration method and device therefor. 2,791,696, 5-7-57, Cl. 250—214.
- Schelleng, Robert D., and J. T. Eash, to The International Nickel Co., Inc. Cast iron with high creep resistance and method for making same. 2,809,888, 10-15-57, Cl. 75—125.
- Schellens, Christopher A. Nozzle structure for fluid-driven turbines. 2,782,002, 2-19-57, Cl. 253—78.
- Schellens, Christopher A., to Schellens-True Corp. Turbine wheel. 2,800,298, 7-23-57, Cl. 253—77.
- Schellens-True Corp.: See—
- Schellens, Christopher A. 2,800,298.
- Scheller, Paul: See—
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- Schelling, Hermann, to Albert Kuhn. Adjustable series resistance, especially for electro-magnetic vehicle brakes. 2,813,955, 11-19-57, Cl. 201—48.
- Schelp, Helmut R., to The Garrett Corp. Evaporative air cycle cooler. 2,784,571, 8-12-57, Cl. 62—138.
- Scheltens, John G., to Nord's Tractor & Equipment Service, Inc. Hydraulically powered fork lift. 2,807,383, 9-24-57, Cl. 214—731.
- Schemmel, Otto J. Hydraulically operated compressor. 2,791,370, 5-7-57, Cl. 230—53.
- Schemmel, Otto J. Hydraulically operated compressors, and the like. 2,799,444, 7-16-57, Cl. 230—53.
- Schempf, Edward G., to Precision Exploration Co. Methods and apparatus for seismic exploration. 2,806,545, 9-17-57, Cl. 181—6.
- Schempp, Reinhold, P. Payson, and J. G.-Y. Chow, to Crucible Steel Co. of America. Age hardening austenitic steel. 2,799,577, 7-16-57, Cl. 75—128.
- Schenck, Alfred K., to Bell Telephone Laboratories, Inc. Voice frequency alarm and remote control system. 2,790,965, 4-30-57, Cl. 340—163.
- Schenck, Carl, Maschinenfabrik G. m. b. H.: See—
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- Schenck, Hilbert V., Jr., to United Aircraft Corp. Even distribution header system. 2,813,700, 11-19-57, Cl. 257—241.
- Schenck, Leslie M., to General Aniline & Film Corp. Method for the mononitration of p-chlorotoluene. 2,810,000, 10-15-57, Cl. 260—646.
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- Schenck, Remsen T. E.: See—
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- Schenk, Adelbert J., to Jervis B. Webb Co. Slack sensing means for endless conveyors. 2,794,538, 6-4-57, Cl. 198—208.
- Schenk, Robert E. Magnetostriction device for casting. 2,799,071, 7-16-57, Cl. 25—41.
- Schenk, Robert J., to Allen B. Du Mont Laboratories, Inc. Device for treating freshly coated cathode ray tube blanks. 2,796,677, 6-25-57, Cl. 34—21.
- Schenk, Rudolf, to Firma Kugelfischer Georg Schafer & Co. Fuel injection valves for internal combustion valves. 2,808,293, 10-1-57, Cl. 299—107.6.
- Schenk, Tamis C., to Le Roy Food Products, Inc. Apparatus for assembling and packaging an edible. 2,777,264, 1-15-57, Cl. 53—154.
- Schenkel, Gerrit, and J. I. de Haan, to Hartford National Bank and Trust Co., as trustee. Acoustic resistor. 2,778,440, 1-22-57, Cl. 181—32.
- Schenkel, Hans, and M. Aeberli, to Durand & Huguenin A. G. Acetoacetylamine compounds and a process of making same. 2,776,983, 1-8-57, Cl. 260—377.
- Schenkelberger, Frank J., to The Baker-Raulang Co. Industrial truck. 2,791,293, 5-7-57, Cl. 187—9.
- Schenkelberger, Frank J., to The Baker-Raulang Co. Load handling attachment for industrial trucks. 2,795,347, 6-11-57, Cl. 214—701.
- Schenkelberger, Frank J., to The Baker-Raulang Co. Self unloading industrial truck. 2,800,236, 7-23-57, Cl. 214—514.
- Schenkelberger, Frank J., to 1250 West 80th Street Corp. Industrial lift truck with load clamp. 2,807,382, 9-24-57, Cl. 214—652.
- Schenkengell, Emerich, to G. M. Pfaff A.-G. Guiding mechanism for fabric frame. 2,806,440, 9-17-57, Cl. 112—103.
- Schenker, Emil, A. G.: See—
- Stegmann, Ernst. 2,796,631.
- Stegmann, Ernst. 2,810,993.
- Schenker, Henry H., to E. I. du Pont de Nemours and Co. Multi-step stretching of nylon cords. 2,807,863, 10-1-57, Cl. 28—72.

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 Carvajal, Fernando. 2,808,364.
 Conason, Emil G. 2,778,770.
 Davidson, Alex B. 2,788,127.
 Donnelly, Joseph B. 2,790,526.
 DuPree, Ernest L. 2,785,839.
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 Hörlein, Ulrich. 2,786,059.
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 Mauss, Hans, Kolling, and Gönner. 2,786,845.
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 Wagner, Kuno, Müller, Bayer, and Grab. 2,790,808.
- Schenley Laboratories, Inc.: *See*—
 Nield, Cyril H., and Bosch. 2,782,200.
 Schepens, Joseph. Ventilator. 2,813,473, 11-19-57, Cl. 98-20.
- Schepman, Felix R.: *See*—
 Van Dijk, Johannes H. J., Hoefkens, and Schepman. 2,789,318.
- Schepman, Willis G., J. N. Williams, and G. A. Dunn, to Union Carbide and Carbon Corp. Acetylene generating apparatus. 2,787,532, 4-2-57, Cl. 48-54.
- Scherbatsky, Serge A. Automatic proportional counter. 2,778,947, 1-22-57, Cl. 250-71.
- Scherbatsky, Serge A., to PGAC Development Co. Radio-activity well logging calibrating system. 2,816,235, 12-10-56, Cl. 250-836.
- Scherenberg, Hans O.: *See*—
 Uhlenhaut, Rudolf E., Müller, and Scherenberg. 2,818,128.
- Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Four-cycle internal combustion engine having fuel injection means. 2,800,118, 7-23-57, Cl. 123-32.
- Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Control system for an internal combustion piston engine, particularly for motor vehicles. 2,808,038, 10-1-57, Cl. 123-41.1.
- Scherenberg, Hans O., and J. Müller, to Daimler-Benz Aktiengesellschaft. Suspension of swinging half axles in automobiles. 2,806,542, 9-17-57, Cl. 180-73.
- Scherenberg, Hans O., and J. Müller, to Daimler-Benz Aktiengesellschaft. Wheel suspension for automobiles with swinging half-axes. 2,806,714, 9-17-57, Cl. 280-124.
- Scherer, Bernard F., to Sterer Engineering & Mfg. Co. Device for absorbing transient pressure fluctuations. 2,804,093, 8-27-57, Cl. 138-26.
- Scherer, Elmer L. Ironing process and apparatus. 2,776,506, 1-8-57, Cl. 38-144.
- Scherer, George F., to Rockwell Mfg. Co. Ball valve. 2,738,015, 4-9-57, Cl. 137-246.16.
- Scherer, George F., to Rockwell Mfg. Co. Ball valves. 2,788,016, 4-9-57, Cl. 137-246.19.
- Scherer, George F., to Rockwell Mfg. Co. Lubricated ball valves. 2,788,017, 4-9-57, Cl. 137-246.19.
- Scherer, James F. Thermo-actuator. 2,803,494, 8-20-57, Cl. 297-6.
- Scherer, James F. Thermo-actuator. 2,810,290, 10-22-57, Cl. 73-368.3.
- Scherer, John O.: *See*—
 Venditty, Anthony, and Scherer. 2,816,543.
- Scherer, Les: *See*—
 Craddock, Charles L. 2,798,171.
- Scherer, Lucille E. Candle holder for birthday cakes. 2,786,345, 3-26-57, Cl. 67-25.
- Scherer, Otto, and P. F. Schäfer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process of preparing vinylsulfofluoride. 2,783,275, 2-26-57, Cl. 260-543.
- Scherer, Otto, G. Stähler, and H. Frensch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Pesticides and process for their manufacture. 2,795,598, 6-11-57, Cl. 260-461.
- Scherer, R. P. Corp.: *See*—
 Palermo, Blasey T., and Stanley. 2,780,355.
 Scherer, Robert P. 2,790,548.
 Scherer, Robert P., and Venditty. 2,816,544.
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- Scherer, Robert P., to R. P. Scherer Corp. Article feeding hoppers. 2,790,548, 4-30-57, Cl. 209-71.
- Scherer, Robert P., and A. Venditty, to R. P. Scherer Corp. Hypodermic injector. 2,816,544, 12-17-57, Cl. 128-173.
- Schering A. G.: *See*—
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- Schering Corp.: *See*—
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 Gould, David H., and Herzog. 2,784,226.
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 Oliveto, Eugene P., and Hershberg. 2,781,369.
 Papa, Domenick, and Ginsberg. 2,790,748.
- Scherr, George H. Means for assessing the effect of various agents on the growth of microorganisms. 2,787,581, 4-2-57, Cl. 195-103.5.
- Scherr, Josef: *See*—
 Moritzack, Fred, and Scherr. 2,788,529.
- Schertel, Günther, and F. Schmidt, to Siemens-Schuckertwerke Aktiengesellschaft. Electrical connectors. 2,809,363, 10-8-57, Cl. 339-272.
- Schetty, Guido: *See*—
 Ackermann, Hans, and Schetty. 2,778,815.
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- Schetty, Guido, and F. Beffa, to J. R. Geigy A. G. Azo dye-stuffs containing heavy metal. 2,817,655, 12-24-57, Cl. 260-147.
- Scheuermeyer, Emil: *See*—
 Sciscione, Philip, Scheuermeyer, and Shavney. 2,807,681.
- Scheuermeyer, Emil, to General Electric Co. Electric circuit breaker. 2,800,558, 7-23-57, Cl. 200-146.
- Scheuerpflug, Hans, to the Firm Maschinenfabrik Augsburg-Nürnberg A. G. Vehicle-mounted revolving crane. 2,778,507, 1-22-57, Cl. 212-38.
- Scheumann, Walter W., to Cities Service Research and Development Co. Gasoline compositions. 2,776,194, 1-1-57, Cl. 44-56.
- Schexnailder, Robert E., Jr.: *See*—
 Whiteley, Robert S., Kimberlin, and Schexnailder. 2,809,169.
- Scheyer, Stuart R., to Reliance Industries, Inc. Flush mounted picture frame or the like. 2,791,051, 5-7-57, Cl. 40-152.1.
- Schick Inc.: *See*—
 Argiro, Nicholas. 2,787,830.
 Otto, Carl L., and Worn. 2,811,774.
- Schick, John W.: *See*—
 Koft, Emil, Jr., and Schick. 2,779,737.
- Schiebel, William. Lawn spreader. 2,801,772, 8-6-57, Cl. 222-177.
- Schieber, Leonard, Jr., to International Business Machines Corp. Tachometer generator damped servo system. 2,812,485, 11-5-57, Cl. 318-448.
- Schieber Mfg. Co.: *See*—
 Schieber, Robert E. 2,777,742.
- Schieber, Robert E., to Schieber Mfg. Co. Folding table and supporting structure therefor. 2,777,742, 1-15-57, Cl. 311-92.
- Schieferstein, Philip. Die mold. 2,786,235, 3-26-57, Cl. 18-36.
- Schick, Vivian L. Dress or the like. 2,803,825, 8-27-57, Cl. 2-75.
- Schild Bantam Co.: *See*—
 Bannister, Harold V. 2,809,756.
- Schieren, Wilhelm, to Schloemann Aktiengesellschaft. Extrusion presses. 2,811,253, 10-29-57, Cl. 207-5.
- Schiess Aktiengesellschaft: *See*—
 Ude, Hans L. P. 2,780,840.
- Schiesswohl, Gottlob, A. Allgaier, and W. Voit, to Robert Bosch G. m. b. H. Fluid distributing apparatus. 2,778,449, 1-22-57, Cl. 184-7.
- Schif, Robert H. Diaper wringers. 2,803,832, 8-27-57, Cl. 4-1.
- Schifando, Fred. Means and method of grinding thread cutting tools. 2,787,868, 4-9-57, Cl. 51-96.
- Schiff, Robert D. Puzzle. 2,812,183, 11-5-57, Cl. 273-155.
- Schiffer, Günther H., to Joh. Kleinewefers Söhne. Automatic pressure relief device for calendars and the like. 2,803,896, 8-27-57, Cl. 38-52.
- Schiffman, Martin L. Toilet comb with revoluble teeth. 2,808,062, 10-1-57, Cl. 132-151.
- Schilb, Theodore W., and B. B. Crocker, to Monsanto Chemical Co. Bag-filter dust collector for hot gases. 2,792,074, 5-14-57, Cl. 183-32.
- Schilberg, Arnold G., to A. O. Smith Corp. Ball caster. 2,779,965, 2-5-57, Cl. 16-26.
- Schilberg, Arnold G., to A. O. Smith Corp. Vehicle wheel suspension. 2,794,632, 6-4-57, Cl. 267-57.
- Schilberg, Arnold G., to A. O. Smith Corp. Side rail construction for a vehicle frame. 2,794,650, 6-4-57, Cl. 280-106.
- Schild, Edward M. Packaging device. 2,795,094, 6-11-57, Cl. 53-258.
- Schild, Edward M., to W. R. Grace & Co. Pedal operated vacuum forming and heat sealing packaging machine. 2,800,756, 7-30-57, Cl. 53-79.
- Schild, Edwin F. Shelf with replaceable surface. 2,794,555, 6-4-57, Cl. 211-135.
- Schild, Edwin F. Adjustable shelving. 2,816,669, 12-17-57, Cl. 211-136.
- Schild, Heinz O., A. L. A. Boura, and J. L. Mongar, to National Research Development Corp. Program controller. 2,811,202, 10-29-57, Cl. 161-7.
- Schildbach, August J., to Olin Mathieson Chemical Corp. Flashlight switch. 2,806,100, 9-10-57, Cl. 200-60.
- Schildknecht, Calvin E., to Celanese Corp. of America. Polymer dispersions. 2,776,947, 1-8-57, Cl. 260-32.6.
- Schiler, Frederick S., to The Portage Machine Co. Keeper key - universal type. 2,796,264, 6-18-57, Cl. 279-97.
- Schilha, Vincenc, to Western Electric Co., Inc. Work locating fixture. 2,790,495, 4-30-57, Cl. 164-59.
- Schiller, Arthur M., to American Cyanamid Co. Polymeric surface active agents. 2,816,882, 12-17-57, Cl. 260-86.1.
- Schiller, Georg: *See*—
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- Schiller, Paul. Rotary snowplow. 2,787,064, 4-2-57, Cl. 37-43.

- Schiller, Robert J. Magnetic field sensitive apparatus. 2,792,782, 5-21-57, Cl. 102-18.
- Schilling, August H.: *See*—
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- Schilling, Rudolf and A. H. 2,783,612.
- Schilling, August H., to Schilling Estate Co. Apparatus for generating combustion gases under pressure. 2,782,594, 2-26-57, Cl. 60-39.16.
- Schilling, Clarence J., to Air Products Inc. Liquid pumping and vaporizing systems. 2,772,296, 1-15-57, Cl. 62-2.
- Schilling, Clarence J., to Air Products Inc. Gas-liquid contact apparatus. 2,804,292, 8-27-57, Cl. 261-114.
- Schilling Electric Co.: *See*—
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- Schilling Estate Co.: *See*—
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- Holzwarth, Hans, and Schilling. 2,791,884.
- Schilling, August H. 2,782,594.
- Schilling, Rudolf and A. H. 2,783,612.
- Schilling, Hugh K., to Horton Mfg. Co., Inc. Sectional pulley. 2,784,606, 3-12-57, Cl. 74-230.3.
- Schilling, Hugh K., to Horton Mfg. Co., Inc. Speed responsive internal brake. 2,806,558, 9-17-57, Cl. 188-184.
- Schilling, Lorell J., to Schilling Electric Co. Milking apparatus. 2,777,420, 1-15-57, Cl. 119-14.39.
- Schilling, Otto, to Daimler-Benz Aktiengesellschaft. Valve timing of four cycle internal combustion engines with a great overlapping of the exhaust- and intake-periods. 2,793,631, 5-28-57, Cl. 123-59.
- Schilling, Otto, to Daimler-Benz Aktiengesellschaft. Precombustion Diesel engine. 2,804,858, 9-3-57, Cl. 123-32.
- Schilling, Paul K. Cup-shaped articles, and method and apparatus for making them. 2,800,945, 7-30-57, Cl. 154-1.
- Schilling, Robert: *See*—
McLean, Robert F., and Schilling. 2,797,951.
- Schilling, Rudolf and A. H., to Schilling Estate Co. Process and apparatus for generating driving gases. 2,783,612, 3-5-57, Cl. 60-39.02.
- Schilling, William M., to Hercules Powder Co. Preparation of bis(chloromethyl)oxetane. 2,794,027, 5-28-57, Cl. 280-333.
- Schilling, Woodrow S., $\frac{1}{2}$ to F. H. Liljemark. Holder for articles such as tooth brushes, etc. 2,808,306, 10-1-57, Cl. 312-207.
- Schimmel, William W.: *See*—
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- Schindel, Leon H.: *See*—
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- Schindler, Ewald: *See*—
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- Schindler, Ewald, to The Babcock & Wilcox Co. Fuel burning apparatus. 2,777,407, 1-15-57, Cl. 110-28.
- Schindler, Ewald, to The Babcock & Wilcox Co. Fuel burning apparatus. 2,808,012, 10-1-57, Cl. 110-28.
- Schindler, Walter, and F. Häfiger, to Geigy Chemical Corp. Substituted iminodibenzyls. 2,800,470, 7-23-57, Cl. 260-239.
- Schindler, Walter, and F. Häfiger, to J. R. Geigy A. G. Imidazoline derivatives of 2-aryl indolines. 2,808,413, 10-1-57, Cl. 260-309.6.
- Schindler, Walter, and F. Häfiger, to Geigy Chemical Corp. N-acetylated substituted iminodibenzyl derivatives. 2,809,200, 10-8-57, Cl. 260-294.
- Schindler, Walter, and F. Häfiger, to Geigy Chemical Corp. N-aminoalkylated substituted iminodibenzyl derivatives. 2,813,857, 11-19-57, Cl. 260-239.
- Schink, Howard D., to Bailey Meter Co. Fluid pressure relay. 2,792,010, 5-14-57, Cl. 137-85.
- Schink, Werner O.: *See*—
Frantz, Frederick H., and Schink. 2,805,002.
- Schinske, William G., to Ideal Industries, Inc. Dust collector for commutator grinders. 2,784,537, 3-12-57, Cl. 51-244.
- Schinske, William G., to Ideal Industries, Inc. Crimp connector. 2,810,897, 10-22-57, Cl. 339-276.
- Schinz, Hans, to Firmenich & Co., successors of la societe anonyme M. Naef & Cie. Process for preparing an isomeric mixture of 6-methyl-alpha-ionone and 6-methyl-beta-ionone, having the odor of irone. 2,801,266, 7-30-57, Cl. 260-587.
- Schiott, Henning: *See*—
Persson, Erik, and Schiott. 2,813,519.
- Schipper, John F. Body balancer arch support. 2,782,532, 2-26-57, Cl. 36-71.
- Schiring, Ralph C., and A. J. Foderaro, to Picker X-Ray Corp., Waite Mfg. Div., Inc. Demountable X-ray apparatus. 2,790,687, 4-30-57, Cl. 311-6.
- Schirmer, Robert M.: *See*—
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- Schirmer, Walter E.: *See*—
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- Schirp, Aloys: *See*—
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- Schirp, Hubert: *See*—
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- Schittenhelm, Rudolf: *See*—
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- Schjeldahl, Gilmore T., to Brown & Bigelow. Thermoplastic bag. 2,788,039, 4-9-57, Cl. 150-0.5.
- Schjerning, Regner D. Air register for perimeter heating. 2,791,958, 5-14-57, Cl. 98-40.
- Schjolin, Eric O., to Ford Motor Co. Knock-down type dirigible wheel mounting. 2,780,477, 2-5-57, Cl. 280-96.2.
- Schjolin, Hans O., to General Motors Corp. Wheel structure with non-rotating hub cap. 2,782,871, 2-26-57, Cl. 188-18.
- Schjolin, Hans O., to General Motors Corp. Vehicle refrigerating apparatus. 2,784,568, 3-12-57, Cl. 62-117.
- Schjolin, Hans O., to General Motors Corp. Vehicle refrigerating apparatus. 2,810,269, 10-22-57, Cl. 62-117.1.
- Schjolin, Hans O., and D. K. Isbell, to General Motors Corp. Wheel brake having multiple force applying webs. 2,788,091, 4-9-57, Cl. 188-79.
- Schlabach, Raymond M., and L. V. Bockius. Container closure construction. 2,780,395, 2-5-57, Cl. 222-516.
- Schladermundt, Peter: *See*—
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- Schladtitz, Hermann. Process and apparatus for the metallisation of continuously travelling organic and inorganic foils by thermal decomposition of metal compounds. 2,789,064, 4-16-57, Cl. 117-107.
- Schlaeger, Albert J.: *See*—
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- Schlaflay, Hubert J., to Teleprompter Corp. Camera support. 2,776,102, 1-1-57, Cl. 248-178.
- Schlage, Ernest, to Schlage Lock Co. Door closer linkage. 2,782,453, 2-26-57, Cl. 16-49.
- Schlage, Ernest L., to Schlage Lock Co. Mortise frame and face plate. 2,785,565, 3-19-57, Cl. 70-451.
- Schlage, Ernest L., to Schlage Lock Co. Door closer and check. 2,790,991, 5-7-57, Cl. 16-62.
- Schlage, Ernest L., to Schlage Lock Co. Bearing and spindle structure for door locks. 2,795,447, 6-11-57, Cl. 292-169.
- Schlage, Ernest L., to Schlage Lock Co. Cylinder lock. 2,803,959, 8-27-57, Cl. 70-420.
- Schlage, Ernest L., to Schlage Lock Co. Anti-rattle latch. 2,807,488, 9-24-57, Cl. 292-2.
- Schlage, Ernest L., to Schlage Lock Co. Latch hold back feature for door locks. 2,808,279, 10-1-57, Cl. 292-169.
- Schlage, Ernest L., to Schlage Lock Co. Strike plate locator tool. 2,809,440, 10-15-57, Cl. 33-197.
- Schlage, Ernest L., to Schlage Lock Co. Latch structure for door locks. 2,813,740, 11-19-57, Cl. 292-169.
- Schlage, Ernest L., and M. Kendrick, to Schlage Lock Co. Fastening device. 2,781,940, 2-19-57, Cl. 220-25.
- Schlage, Ernest L., and R. A. Marotto, to Schlage Lock Co. Interlocking mechanism for tubular door locks. 2,804,334, 8-27-57, Cl. 292-337.
- Schlage Lock Co.: *See*—
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- Schlage, Ernest. 2,782,453.
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- Schlage, Ernest L. 2,790,991.
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- Tornoe, John A. 2,793,522.
- Schläpfer, Hans, and J. Bindler, to J. R. Geigy A.-G. Complex forming amino acetic acids. 2,802,868, 8-13-57, Cl. 260-514.
- Schläpfer, Reinhard, and H. Spiegelberg, to Hoffmann-La Roche Inc. Preparation of methyl-(β -picolyl)-amine. 2,798,077, 7-2-57, Cl. 260-296.
- Schlapp, George, to H. Fickert. Automatic tracer control. 2,796,806, 6-25-57, Cl. 90-62.
- Schlatter, Eugene J. Stereo elevator meter. 2,813,339, 11-19-57, Cl. 33-1.
- Schlatter, Hans A., and E. Wegmann, to Firma H. A. Schlatter A. G. Control apparatus for flash welding machines. 2,781,026, 2-12-57, Cl. 121-45.
- Schlatter, Hans A., and E. Wegmann, to Firma H. A. Schlatter A. G. Flash welding machines. 2,787,698, 4-2-57, Cl. 219-101.
- Schlatter, Maurice J., to California Research Corp. Xylene separation process. 2,801,271, 7-30-57, Cl. 260-674.
- Schlatter, Maurice J., to California Research Corp. Separation of alkyl benzenes by selective alkylation with a tertiary alkylating agent. 2,816,940, 12-17-57, Cl. 260-674.
- Schlatter, Maurice J., and J. C. Butler, to California Research Corp. Linear superpolyesters from tertiarybutyl isophthalic acid. 2,794,794, 6-4-57, Cl. 260-75.
- Schlatter, Rudolf: *See*—
Gregory, Walter A., Iler, and Schlatter. 2,802,033.
- Schlatterer, Max A. Combination cigarette support, extinguisher and expeller. 2,800,909, 7-30-57, Cl. 131-235.
- Schlecht, Leo, and H. Klippel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of producing light metal powders. 2,791,497, 5-7-57, Cl. 75-0.5.
- Schlecht, Leo, and H. Klippel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of porous shaped articles. 2,794,735, 6-4-57, Cl. 75-213.
- Schlecht, Leo, and R. Staeger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Working up of sulfidic raw materials. 2,817,583, 12-24-57, Cl. 75-7.
- Schlechter, Joseph. Automobile steering device. 2,814,499, 11-26-57, Cl. 289-93.

- Schlegel, Walter L., Jr., to American Steel Foundries. Snubbed truck. 2,814,259, 11-26-57, Cl. 105-197.
- Schlegel, William M., and A. S. Waraksa, to Rotomark Mfg. Corp. Type slug changing means in label printing machines. 2,792,778, 5-21-57, Cl. 101-69.
- Schlegelmilch, Donald E. Adjustable reel clamp for fishing rods. 2,787,857, 4-9-57, Cl. 43-22.
- Schleicher, Harold E., to The Arrow-Hart & Hegeman Electric Co. Operating linkage for heavy-duty electromagnetically operated switches. 2,802,919, 8-13-57, Cl. 200-104.
- Schleicher, Lowell: *See—*
- Green, Barrett K., and Schleicher. 2,800,457.
- Schleif, Ferber R.: *See—*
- Schurich, Edward C., and Schleif. 2,804,506.
- Schlemmer, Philip G., to National Equipment Corp. Folding box construction for wrapping machines. 2,817,199, 12-24-57, Cl. 53-220.
- Schlenker, Felix: *See—*
- Starch, Hans, and Schlenker. 2,801,228.
- Schlenker, Felix, to Chemische Werke Albert. Ethoxylin resin compositions and process of hardening such resins. 2,803,609, 8-20-57, Cl. 260-47.
- Schlenker, Vesper A. to Radio Corp. of America. Third order, pressure gradient responsive microphone. 2,793,255, 5-21-57, Cl. 179-121.
- Schlesinger, Albert, and S. M. Gordon, to Endo Laboratories, Inc. Haloalkyl-cyanobenzhydryl ethers and method of preparing same. 2,793,226, 5-21-57, Cl. 260-465.
- Schlesinger, Albert, and S. M. Gordon, to Endo Laboratories Inc. Pyrrolidino-2,6-dimethyl anilide salt of 8-[2'-methoxy-3'-(7-theophyllinyl mercuri)]propyl-coumarin-3-carboxylic acid. 2,813,861, 11-19-57, Cl. 260-242.
- Schlesinger, Arthur H.: *See—*
- Mowry, David T., and Schlesinger. 2,786,071.
- Schlesinger, Emil E.: *See—*
- Manzatuik, David N. 2,777,591.
- Schlesinger, Frank W.: *See—*
- Pitman, Richard W., and Schlesinger. 2,815,694.
- Schlesinger, Joseph H. Window shading device. 2,803,298, 8-20-57, Cl. 160-349.
- Schlesinger, Joseph H. Drape and curtain retainer and balancer. 2,813,581, 11-19-57, Cl. 160-349.
- Schlesinger, Kurt, to Motorola, Inc. Detector. 2,796,518, 6-18-57, Cl. 250-20.
- Schlesinger, Kurt, to Motorola, Inc. Dot-arresting, television scanning system. 2,798,114, 7-2-57, Cl. 178-5.4.
- Schlesman, Carleton H., R. C. Kent, Jr., and R. G. Daudelin, to the United States of America as represented by the Secretary of the Navy. Torpedo course controller. 2,788,761, 4-16-57, Cl. 114-24.
- Schlessor, Adolph. Pill and capsule dispenser. 2,777,571, 1-15-57, Cl. 206-42.
- Schlessor, Adolph. Pill container and dispenser. 2,808,150, 10-1-57, Cl. 206-42.
- Schleyer, E. C., Pump Co., Inc.: *See—*
- Schleyer, Victor, Henricks, and Baxter. 2,811,258.
- Schleyer, Victor, J. L. Henricks, and R. B. Baxter, to E. C. Schleyer Pump Co., Inc. Domestic water-treatment apparatus. 2,811,258, 10-29-57, Cl. 210-128.
- Schlichthaerle, Anton, F. Jennrich, and W. Salzer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of hollow bodies having projections protruding from the inner surface. 2,812,003, 11-5-57, Cl. 153-32.
- Schlichting, Elmer V.: *See—*
- Graves, Delbert B., and Schlichting. 2,783,670.
- Schlichting, Otto, F. Westphal, H. Pachaly, and A. Amann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of half-ethers of cycloaliphatic glycols. 2,812,358, 11-5-57, Cl. 260-611.
- Schlichting, Otto, H. Pachaly, F. Westphal, and A. Amann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of hydroxy and polyhydroxy ethers having an action similar to curare. 2,812,359, 11-5-57, Cl. 260-611.
- Schlichtkrull, Jørgen, and I. M. Nøring, to Novo Therapeutisk Laboratorium A/S. Process of producing insulin crystals of substantially uniform size and compositions thereof. 2,799,622, 7-16-57, Cl. 167-75.
- Schlissel, Isidor H. Adjustable display fixture for garments. 2,782,937, 2-26-57, Cl. 211-166.
- Schlittler, Emil, and A. Uffer, to Ciba Pharmaceutical Products, Inc. Amines and process for the preparation of amines. 2,781,348, 2-12-57, Cl. 200-296.
- Schloemann Aktiengesellschaft: *See—*
- Arenz, Matthias. 2,809,750.
- Billen, Peter. 2,783,499.
- Billen, Peter. 2,805,445.
- Billen, Peter, and Dicks. 2,805,569.
- Breuer, Alfred, and Wirth. 2,780,114.
- Eben, Franz, and Hofmann. 2,785,594.
- Lemm, Hans-Peter. 2,796,163.
- Schieren, Wilhelm. 2,811,253.
- Weinberger, Karl. 2,796,974.
- Wurm, Josef, and Vogelfänger. 2,788,853.
- Schloemer, Johannes. Self-wringing mops. 2,786,220, 3-26-57, Cl. 15-119.
- Schloer, Henry C. Gate latch. 2,796,279, 6-18-57, Cl. 292-341.17.
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- Mitchell, Reid L., and Schlosser. 2,811,518.
- Thomas, Berwyn B., Gray, and Schlosser. 2,790,795.
- Schlosser, Paul H.: *See—*
- Mitchell, Reid L., and Schlosser. 2,811,518.
- Thomas, Berwyn B., Gray, and Schlosser. 2,790,795.
- Schlosser, Paul H., R. L. Mitchell, and K. R. Gray, to Ray-onier Inc. High-alpha cellulose pulp. 2,814,569, 11-26-57, Cl. 106-163.
- Schlossmacher, Hubert, to Kurt Korber & Co. K-G. Cigarette making machines. 2,805,666, 9-10-57, Cl. 131-108.
- Schlote, Guido F. Spiral-drive, slidable side jaw wrench. 2,795,987, 6-18-57, Cl. 81-165.
- Schlotthauer, Edward J. and H. Side board lifter. 2,797,956, 7-2-57, Cl. 296-36.
- Schlotthauer, Henry: *See—*
- Schlotthauer, Edward J. and H. 2,797,956.
- Schlotzhauer, Allan T.: *See—*
- Newman, Douglas A., and Schlotzhauer. 2,810,661.
- Schlough, Leon H., and W. E. Mason's splitting machine. 2,779,324, 1-29-57, Cl. 125-23.
- Schlough, Wesley E.: *See—*
- Schlough, Leon H. and W. E. 2,779,324.
- Schluchter, Alfred W., to General Motors Corp. Aluminum base bearing. 2,807,540, 9-24-57, Cl. 75-142.
- Schlueter, Arthur E. Multi-grill barbecue robot. 2,805,658, 9-10-57, Cl. 126-30.
- Schlueter Co., The: *See—*
- Saunders, Henry B. 2,776,777.
- Schlueter, Ernest. Pivoted jaw armor cutter. 2,796,657, 6-25-57, Cl. 29-67.
- Schlumberger Weil Surveying Corp.: *See—*
- Blanchard, Andre. 2,816,009.
- Doll, Henri-Georges. 2,786,178.
- Doll, Henri-Georges. 2,788,483.
- Doll, Henri-Georges. 2,813,249.
- Doll, Henri-George. 2,814,017.
- Ferre, Maurice C. 2,812,490.
- Ferre, Maurice C. 2,813,248.
- Ferre, Maurice C. 2,815,577.
- Frey, Hugh B., Jr. 2,789,241.
- Frey, Hugh B., Jr., and Tittman. 2,778,950.
- Goodman, Clark. 2,785,315.
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- Heinemann, Kurt W. 2,778,117.
- Kokesh, Frank P. 2,776,402.
- Lebourg, Maurice P. 2,815,969.
- Poupon, Andre. 2,790,138.
- Roussin, Rene. 2,812,587.
- Schafer, Clifford O., and Tanguy. 2,802,200.
- Schuster, Nick A. 2,792,173.
- Schuster, Nick A. 2,803,796.
- Schuster, Nick A. 2,806,201.
- Tittman, Jay. 2,778,951.
- Schlumbohm, Peter. Leacher, especially for making coffee or tea. 2,786,577, 3-26-57, Cl. 210-160.
- Schlumbohm, Peter. Air blower. 2,787,412, 4-2-57, Cl. 230-128.
- Schlumbohm, Peter. Building walls. 2,801,717, 8-6-57, Cl. 189-34.
- Schlumbohm, Peter. Fan mounting. 2,808,979, 10-8-57, Cl. 230-47.
- Schlumbohm, Peter. Shaker decanter. 2,813,651, 11-19-57, Cl. 215-47.
- Schlytern, Charles E. Door sections. 2,805,450, 9-10-57, Cl. 20-35.
- Schmacks, Werner: *See—*
- Redlich, Horst, and Schmacks. 2,792,455.
- Schmale, Henry W. Feed and grain mixing machine. 2,815,941, 12-10-57, Cl. 259-8.
- Schmalenbach, Adolf, to Koppers Co., Inc. Method of extraction of high-percentage preliminary product from benzole-enriched wash oil. 2,785,114, 3-12-57, Cl. 202-46.
- Schmalenbach, Adolf, to Koppers Co., Inc. Process for separating aromatic hydrocarbons from coal distillation gases. 2,809,717, 10-15-57, Cl. 183-120.
- Schmalenbach, Adolf, H. Pummer, and H. Brandes. Process for the recovery of benzene. 2,794,515, 6-4-57, Cl. 183-115.
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- Schmalfeld, Paul, and F. Danilut, to Metallgesellschaft Aktiengesellschaft. Process for the gasification of fine grained or pulverulent fuels. 2,788,314, 4-9-57, Cl. 202-14.
- Schmank, Edward F., to Vulcan Corp. Last hinge set. 2,781,899, 2-19-57, Cl. 206-46.
- Schmatjko, Boris, to Licentia Patent-Verwaltungs-G. m. b. H. High voltage switch. 2,786,118, 3-19-57, Cl. 200-148.
- Schmatloch, Adolf, F. Schaub, and W. Schuff, to Ruhrchemie Aktiengesellschaft. Non-caking ammonium sulfate nitrate. 2,795,495, 6-11-57, Cl. 71-59.
- Schmatz, Friedrich. Apparatus for clarifying brewer's wort. 2,806,217, 9-10-57, Cl. 210-254.
- Schmeling, Carl J., to Carrier Corp. Method and machine for winding a plurality of narrow width fins severed from a ribbon of predetermined width, about a tube. 2,800,944, 7-30-57, Cl. 153-64.5.
- Schmeling, William H., to General Motors Corp. Electric switch. 2,817,727, 12-24-57, Cl. 200-83.
- Schmerheim, John F., to General Electric Co. Assembly mechanism for metal sleeve base. 2,813,330, 11-19-57, Cl. 29-282.
- Schmerling, Grigory: *See—*
- Haymann, Erich, and Schmerling. 2,793,990.

- Schmerling, Louis, to Universal Oil Products Co. Preparation of alkyl-substituted aromatic compounds. 2,781,407, 2-12-57, Cl. 260-668.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of 2,2-bis(chloromethyl)-4-methyl-4-phenylpentane. 2,813,133, 11-12-57, Cl. 260-651.
- Schmerling, Louis, to Universal Oil Products Co. Polyhalomethanoidene derivatives of phenols. 2,813,909, 11-19-57, Cl. 260-619.
- Schmertz, William E.: See—
- Sterick, Harrison D., and Schmertz. 2,807,846.
- Schmetterling, Arie, and H. Krekeler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing aromatic hydrocarbons. 2,785,209, 3-12-57, Cl. 200-668.
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- Schmetz, Ferdinand B., E. Günter, and H. Kensch: said Günter and said Kensch assors. to said Schmetz. Receptacle for sewing machine needles. 2,817,434, 12-24-57, Cl. 206-16.
- Schmid, Adolf: See—
- Pollmann, Max, and Schmid. 2,809,768.
- Schmid, Albert: See—
- Von Zelewsky, Ottomar, and Schmid. 2,790,337.
- Schmid, Hansjakob: See—
- Hoffmann, Karl, Schmid, and Hunger. 2,785,159.
- Schmid, John H.: See—
- Bogess, Hurley V., and Schmid. 2,795,798.
- Schmid, John H. Shell mold and apparatus for producing it. 2,791,811, 5-14-57, Cl. 22-9.
- Schmid, John H., to J. A. Zurn Mfg. Co. Strainer. 2,801,008, 7-30-57, Cl. 210-444.
- Schmid, Josef, and R. Schork, to Firma Junkers & Co., G. m. b. H. Flow control device. 2,784,736, 3-12-57, Cl. 137-504.
- Schmid, Lee D.: See—
- McDonald, Donald C., and Schmid. 2,796,569.
- Schmid, Max, R. Mory, and C. Zickendraht, to Ciba Limited. Functional derivatives of azo-dyestuffs containing sulfonic acid groups and process for making them. 2,816,103, 12-10-57, Cl. 260-162.
- Schmid, Otto, to Oesterreichische Stickstoffwerke Aktiengesellschaft. Bis-carbamic acid ester compounds, and a process of making same. 2,789,981, 4-23-57, Cl. 260-295.5.
- Schmid, Otto, and M. Hurlbin, to J. R. Geigy A.-G. Disazo dyestuffs. 2,817,660, 12-24-57, Cl. 260-178.
- Schmid, Paul E., to Reed Roller Bit Co. Impact hammer element. 2,802,556, 8-13-57, Cl. 192-30.5.
- Schmid, Raymond W.: See—
- Kubik, Paul P., and Schmid. 2,801,123.
- Schmid, Raymond W., to The Yale & Towne Mfg. Co. Cylindrical lock case. 2,800,351, 7-23-57, Cl. 292-337.
- Schmid, Raymond W., to The Yale & Towne Mfg. Co. Rose for mortise lock. 2,811,384, 10-29-57, Cl. 292-357.
- Schmid, William, and J. B. Poole, to Owens-Illinois Glass Co. Machines for molding plastic articles. 2,808,620, 10-8-57, Cl. 18-20.
- Schmid, Wolfgang, to Automata. Electric feeler control system. 2,810,327, 10-22-57, Cl. 90-62.
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- Schmid, Wolfgang K. Feeler controls. 2,813,461, 11-19-57, Cl. 90-13.5.
- Schmidgall, Carl H. Abrading tools. 2,810,190, 10-22-57, Cl. 29-103.
- Schmidgall, Hartzell H. Vehicle unloading apparatus. 2,776,762, 1-8-57, Cl. 214-77.
- Schmidl, Rudolf, to Maschinenfabrik Augsburg-Nürnberg A. G. Arrangement for cooling the piston of internal combustion engines. 2,800,119, 7-23-57, Cl. 123-41.35.
- Schmidle, Claude J., to Rohm & Haas Co. Preparation of basic nitrogen compounds. 2,778,826, 1-22-57, Cl. 260-247.
- Schmidle, Claude J., and R. C. Mansfield, to Rohm & Haas Co. Preparation of 4-hydroxypiperidines. 2,784,192, 3-5-57, Cl. 260-294.7.
- Schmidle, Claude J., and R. C. Mansfield, to Rohm & Haas Co. Preparation of 6-methyl-6-phenyltetrahydro-1,3-oxazines. 2,807,613, 9-24-57, Cl. 260-244.
- Schmidlin, Julius: See—
- Wettstein, Albert, and Schmidlin. 2,782,211.
- Schmidt, Adolph, and H. A. Saltzmann, to Hankins Container Co. Apparatus for and method of scoring and severing tube box blanks. 2,810,329, 10-22-57, Cl. 93-58.2.
- Schmidt, Albert S., and J. R. Shaffer: said Shaffer assors. to said Schmidt. Process of slicing roll clusters for packaging. 2,811,997, 11-5-57, Cl. 146-241.
- Schmidt, Alfred, deceased, by Hudson Trust Co., and E. Schmidt, executors. Machine for applying flowing material to articles. 2,804,888, 9-3-57, Cl. 141-159.
- Schmidt, August, Jr., to General Electric Co. Series capacitor commutating combination for mechanical rectifiers. 2,797,381, 6-25-57, Cl. 321-48.
- Schmidt, Benjamin F. Machine for producing speed reduction worm gear. 2,780,037, 2-5-57, Cl. 51-108.
- Schmidt, Benjamin F. Oil well pump. 2,814,993, 12-3-57, Cl. 103-46.
- Schmidt, Benjamin F. Automatic means for maintaining a pump piston immersed in lubricating oil. 2,814,994, 12-3-57, Cl. 103-179.
- Schmidt, Bertil J. M., to Internationella Siporex AB. Impregnation of light-weight concrete with silicate and thermoplastic resins. 2,794,752, 6-4-57, Cl. 117-118.
- Schmidt, Carl O., to The Cincinnati Butchers' Supply Co. Injection needle for curing liquids. 2,796,017, 6-18-57, Cl. 99-256.
- Schmidt, Carl O., Jr., to The Cincinnati Butchers' Supply Co. Rotary meat cutter and shaft assembly. 2,796,102, 6-18-57, Cl. 146-106.
- Schmidt, Carl O., Jr., to The Cincinnati Butchers' Supply Co. Self adjusting knife sharpening head. 2,810,994, 10-29-57, Cl. 51-190.
- Schmidt, Charles F. Mole trap. 2,778,148, 1-22-57, Cl. 43-80.
- Schmidt, Charles L.: See—
- Brickenkamp, Roland W., and Schmidt. 2,818,347.
- Schmidt, Clayton E. Combination loom lay and reed frame. 2,775,985, 1-1-57, Cl. 139-188.
- Schmidt, David, to Aktiengesellschaft fuer Technische Studien. Thermal power installation for utilizing waste heat. 2,779,159, 1-29-57, Cl. 60-59.
- Schmidt, Donald B., to International Harvester Co. Motor vehicle parking lock device. 2,814,361, 11-26-57, Cl. 188-69.
- Schmidt, Earl L. Combination garden tools and sprinkler. 2,796,011, 6-18-57, Cl. 97-62.
- Schmidt, Edgar H.: See—
- Johnson, Charles R., and Schmidt. 2,791,318.
- Schmidt, Edward G., and A. B. Nelson, to Crane Co. Valve actuating attachment means. 2,781,521, 2-19-57, Cl. 4-57.
- Schmidt, Edwin E. Ice fishing rig. 2,811,802, 11-5-57, Cl. 43-17.
- Schmidt, Edwin X., to Cutler-Hammer, Inc. Apparatus for eliminating certain systematic errors in continuous flow calorimeters. Re. 24,404, 12-10-57, Cl. 73-190.
- Schmidt, Edwin X., to Cutler-Hammer, Inc. Apparatus for eliminating certain systematic errors in continuous flow calorimeters. 2,789,432, 4-23-57, Cl. 73-190.
- Schmidt, Eileen: See—
- Schmidt, Alfred. 2,804,888.
- Schmidt, Ekhart O., to Daimler-Benz Aktiengesellschaft. Seal between cylinder block and cylinder head. 2,788,782, 4-16-57, Cl. 123-193.
- Schmidt, Erich G.: See—
- Nitzsche, Siegfried K., and Schmidt. 2,803,521.
- Schmidt, Ernst. Dynamometer. 2,809,517, 10-15-57, Cl. 73-141.
- Schmidt, Franz, to Allis-Chalmers Mfg. Co. Runner for hydraulic machines having a center portion and an outer segmented portion secured together to provide an assembled runner. 2,784,936, 8-12-57, Cl. 253-117.
- Schmidt, Franz. Solenoid pilot controlled main valve for machine tools or the like. 2,811,170, 10-29-57, Cl. 137-620.
- Schmidt, Fred A. Machine for applying a wrapper to a bundle. 2,803,930, 8-27-57, Cl. 53-74.
- Schmidt, Fred L.: See—
- Barton, John S., Follette, and Schmidt. 2,804,205.
- Schmidt, Friedrich: See—
- Schertel, Günther, and Schmidt. 2,809,363.
- Schmidt, Fritz: See—
- Becker, Wilhelm, Schmidt, and Bayer. 2,816,397.
- Schmidt, Fritz, to International Standard Electric Corp. Circuit arrangement to improve the impulsing and feeding in respect to stations with a long subscriber's line. 2,806,085, 9-10-57, Cl. 179-16.
- Schmidt, Gustav: See—
- Korkowski, Eberhard, and Schmidt. 2,816,511.
- Schmidt, Hans, and F. Meyer. Ethylene diamine tetra acetic acid salts of alkyl imidazolines. 2,785,174, 3-12-57, Cl. 260-309.6.
- Schmidt, Hans W.: See—
- Scheel, Kurt, and Schmidt. 2,814,635.
- Schmidt, Harold R., and R. L. Moore, to the United States of America as represented by the United States Atomic Energy Commission. Recovery of ruthenium from aqueous solutions. 2,792,412, 5-14-57, Cl. 260-429.
- Schmidt, Johann, to Kamerabau-Anstalt. Connecting piece for photographic objectives and camera bodies. 2,791,154, 5-7-57, Cl. 88-57.
- Schmidt, John, to Crown Cork & Seal Co., Inc. Method and apparatus for filling containers with a measured charge. 2,794,451, 6-4-57, Cl. 141-1.
- Schmidt, Karl, G. m. b. H.: See—
- Bücken, Curt, and Kuhn. 2,801,889.
- Schmidt, Knute M., to North American Rayon Corp. Doffing tool. 2,777,723, 1-15-57, Cl. 294-25.
- Schmidt, Lloyd K., 1/2 to R. E. Simons, 1/2 to K. R. Stewart, and 1/4 to R. P. Farnsworth. Ditch cleaning implement. 2,787,844, 4-9-57, Cl. 37-86.
- Schmidt, Louis K., and R. E., to Elgin Corrugated Box Co., Inc. Corrugated board slitting machines. 2,797,751, 7-2-57, Cl. 164-39.
- Schmidt, Otto F.: See—
- Knapp, Victor E., and Schmidt. 2,790,412.
- Schmidt, Paul S.: See—
- Forbes, Sam J., and Schmidt. 2,815,688.
- Schmidt, Richard E., and J. B. Green. Collapsible bedding supporting device. 2,783,482, 3-5-57, Cl. 5-319.
- Schmidt, Robert E.: See—
- Schmidt, Louis K. and R. E. 2,797,751.
- Schmidt, Steven. Handle control for tongue hitch drop pin. 2,787,478, 4-2-57, Cl. 280-515.

- Schmidt, Vernon E., to Republic Molding Corp. Containers. 2,793,670, 5-28-57, Cl. 150-48.
- Schmidt, Victor H. Pulse modified camera. 2,792,767, 5-21-57, Cl. 95-12.5.
- Schmidt, Walter D.: *See—*
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Junk, William A., Jr., Schmidt, Seelig, and Fleming. 2,780,582.
- Schmidt, Walter D., to Standard Oil Co. Catalytic cracking of pretreated hydrocarbon oils. 2,796,387, 6-18-57, Cl. 196-52.
- Schmidt, Walter V. Tailstock clamp unit. 2,802,385, 8-13-57, Cl. 82-31.
- Schmidt, Walther, to Reynolds Metals Co. Process for distillation of amalgams. 2,784,080, 3-5-57, Cl. 75-63.
- Schmidt, Walther, to Reynolds Metals Co. Method of reducing metal compounds with amalgam. 2,813,787, 11-19-57, Cl. 75-84.5.
- Schmidt, William. Salt spreader. 2,799,510, 7-16-57, Cl. 275-8.
- Schmidt, William D., to The Heald Machine Co. Grinding machine. 2,804,727, 9-3-57, Cl. 51-166.
- Schmidt, William F. Jr.: *See—*
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- Schmidt, William F. Jr., to Vickers, Inc. Multi branch magnetic amplifier with beneficially interrelated magnetic path. 2,778,987, 1-22-57, Cl. 323-89.
- Schmidt, William F. Jr., to Vickers Inc. Self-saturating reactor. 2,807,775, 9-24-57, Cl. 323-89.
- Schmidt-Nickels, to General Aniline & Film Corp. Red vat dyestuffs of the dipyrazolanthrone series. 2,802,829, 8-13-57, Cl. 260-312.
- Schmidt-Nickels, Wilhelm, to General Aniline & Film Corp. Vat dyestuffs derived from perylene tetracarboxylic acid diimide. 2,794,805, 6-4-57, Cl. 260-281.
- Schmidt-Nickels, Wilhelm, and D. I. Randall, to General Aniline & Film Corp. Heterocyclic vat dyestuffs. 2,813,875, 11-19-57, Cl. 260-316.
- Schmidt-Nickels, Wilhelm, and D. I. Randall, to General Aniline & Film Corp. Red vat dyestuffs of the pyrazolanthrone series. 2,817,667, 12-24-57, Cl. 260-312.
- Schmidt-Thome, Josef: *See—*
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- Schmidt-Thome, Josef, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Manufacture of 17-ketosteroids. 2,783,252, 2-26-57, Cl. 260-397.4.
- Schmid, Joseph M., to Ekco-Alcoa Containers, Inc. Recipe table making apparatus. 2,813,465, 11-19-57, Cl. 93-44.
- Schmied, William F.: *See—*
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Raney, Russell R., Collins, and Schmied. 2,801,863.
Raney, Russell R., Collins, and Schmied. 2,801,864.
- Schmied, William F., to International Harvester Co. Harrow-hitch attachment for tractors. 2,800,758, 7-30-57, Cl. 55-88.
- Schmieding, Warren H. F.: *See—*
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- Schmiegl Industries, Inc.: *See—*
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- Schmier, Jacob, to Rodale Mfg. Co., Inc. Electrical connector. 2,795,767, 6-11-57, Cl. 339-76.
- Schmitt, Leon: *See—*
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- Schmitt, Albert: *See—*
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- Schmitt, Arthur J.: *See—*
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Kraemer, Elmore A., and Schmitt. 2,787,805.
- Schmitt, Claire M. Welding elbow salvager. 2,802,275, 8-13-57, Cl. 33-174.
- Schmitt, Désiré, to Societe Anonyme: Ateliers De Construction Lavalette. Automatically adjustable coupling. 2,793,514, 5-28-57, Cl. 64-25.
- Schmitt, Frank, to Mariboro Shirt Co., Inc. Convertible collar slipover shirt. 2,784,412, 3-12-57, Cl. 2-116.
- Schmitt, John C.: *See—*
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- Schmitt, Joy B., and W. H. Corbett, to The De Vilbiss Co. Electric vaporizer. 2,777,935, 1-15-57, Cl. 219-40.
- Schmitt, Joy B., and W. H. Corbett, to The De Vilbiss Co. Electric vaporizer. 2,818,486, 12-31-57, Cl. 219-40.
- Schmitt, Marvin H. Battery and brake alarm signal system. 2,788,514, 4-9-57, Cl. 340-52.
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- Schott, Howard H., and E. R. Burmeister, to General Mills, Inc. Steam iron with a filling valve arrangement. 2,817,912, 12-31-57, Cl. 38-77.
- Schott, Lawrence A., to Schott Transmission Co. Direct drive variable ratio hydraulic transmission. Re. 24,317, 5-14-57, Cl. 60-53.
- Schott, Stuart: *See*—
- Hansley, Virgil L., and Schott. 2,816,917.
- Hansley, Virgil L., and Schott. 2,816,936.
- Schott Transmission Co.: *See*—
- Schott, Lawrence A. Re. 24,317.
- Schöttle, Robert. Universal kitchen machine. 2,801,545, 8-6-57, Cl. 74-16.
- Schottler, Henry, to Roller Gear Co., Inc. Ball bearing screw device. 2,802,373, 8-13-57, Cl. 74-459.
- Schotz, Otto W. Flashlight. 2,804,541, 8-27-57, Cl. 240-10.66.
- Schou, Carl E., to Rockwell Spring and Axle Co. Fluid operated yieldable shifter for positive clutches. 2,791,771, 5-7-57, Cl. 192-87.
- Schouten, Jan F.: *See*—
- De Jager, Frank and Schouten. 2,816,267.
- Schover, Donald G., to the United States of America as represented by the Secretary of the Air Force. Pulse system of strain recording. 2,800,790, 7-30-57, Cl. 73-85.5.
- Schow, Robert B., and R. H. Coleman, to National Distillers and Chemical Corp. Mixing apparatus and process utilizing same. 2,797,146, 6-25-57, Cl. 23-184.
- Schrack, Eduard. Magnetically operable switch. 2,782,282, 2-19-57, Cl. 200-111.
- Schrader, Chester E. Tractor mover. 2,812,081, 11-5-57, Cl. 214-85.
- Schrader, Clarence O., to Paper Mate Mfg. Co. Method of improving the life of ball-point writing instruments. 2,813,512, 11-19-57, Cl. 120-42.4.
- Schrader, Edward F. Multi-storied building toy. 2,817,924, 12-31-57, Cl. 46-12.
- Schrader, Henry E. Fishing equipment. 2,791,857, 5-14-57, Cl. 43-16.
- Schrader, Jean P.: *See*—
- Pappens, René, and Schrader. 2,798,336.
- Schrader, Robert J., to Eastman Kodak Co. Process for pyrolysis of hydrocarbons. 2,790,838, 4-30-57, Cl. 260-679.
- Schrader, Wilhelm: *See*—
- Demmel, Anton, and Schrader. 2,815,109.
- Schrafft, W. F., & Sons Corp.: *See*—
- Lorentzen, Gustav A. 2,785,649.
- Schrag, Georg: *See*—
- Stoll, Gottlieb, and Schrag. 2,807,296.
- Schrag, John A. Garden weeder. 2,797,628, 7-2-57, Cl. 97-63.
- Schrameck, Jack E., to Westinghouse Electric Corp. Sectionalized fluid control. 2,805,679, 9-10-57, Cl. 137-255.
- Schramm, Arthur G. Resilient wheel suspension and supporting mechanism for tandem trailer wheels. 2,805,867, 9-10-57, Cl. 280-44.

- Schramm, Carl, to The Smyth Mfg. Co. Feeding mechanism for book creasing and pressing machine. 2,785,812, 3-19-57, Cl. 214-91.
- Schramm, Carl, to The Smyth Mfg. Co. Book signature transfer mechanism. 2,791,421, 5-7-57, Cl. 270-54.
- Schramm, Carl, to The Smyth Mfg. Co. Book jacketing machine. 2,799,029, 7-16-57, Cl. 11-1.
- Schramm, Carl, to The Smyth Mfg. Co. Looping mechanism for book stitching machine. 2,800,095, 7-23-57, Cl. 112-21.
- Schramm, Charles H., and C. T. Walling, to Lever Brothers Co. Preparation of chloroalkanesulfonates. 2,797,239, 6-25-57, Cl. 260-513.
- Schramm, Ella. Calculating device. 2,792,993, 5-21-57, Cl. 235-88.
- Schramm, Ella, and D. R. Berness. Toy garage. 2,776,522, 1-8-57, Cl. 46-39.
- Schramm, Ella, and D. R. Berness. Parking garage. 2,779,484, 1-29-57, Cl. 214-16.1.
- Schramm, Harry B., to Otis Pressure Control, Inc. Dual drive tubing caliper. 2,789,357, 4-23-57, Cl. 33-178.
- Schramm, Harry B., to Otis Engineering Corp. Extensible means for circulating fluids through wells. 2,814,348, 11-26-57, Cl. 166-140.
- Schrank, Neil M. Gas furnace. 2,796,859, 6-25-57, Cl. 126-85.
- Schreck, Irvin F. Die handling unit for lift trucks. 2,818,189, 12-31-57, Cl. 214-514.
- Schreckengost, Viktor, and J. E. Vandeman, to Harris-Seybold Co. Portable printing equipment. 2,791,323, 5-7-57, Cl. 206-46.
- Schreckengost, Viktor, and G. B. Hahn, to Murray Ohio Mfg. Co. Knockdown bicycle construction. 2,798,739, 7-9-57, Cl. 280-287.
- Schrecongost, Richard K., to Koehring Co. Die casting machine. 2,797,455, 7-2-57, Cl. 22-92.
- Schreiber, Charles A.: See—
Braun, Robert T., and Schreiber. 2,816,658.
- Schreiber, Eric C.: See—
Laubach, Gerald D., and Schreiber. 2,807,632.
- Schreiber, Norbert, to Tiroler Rohren-und Metallwerke Aktiengesellschaft. Process and apparatus for introducing fine-grained additions below the surface of metal melts. 2,805,147, 9-3-57, Cl. 75-53.
- Schreiber, Norman G. Rack. 2,798,617, 7-9-57, Cl. 211-137.
- Schreiber, William F.: See—
Andreas, John M., Schreiber, and Inouye. 2,816,157.
- Schreiner, Alexander A. Bifurcated bead seating device for tubeless tires. 2,786,516, 3-26-57, Cl. 157-1.1.
- Schreiner, Alexander A. Device for mounting tubeless tires. 2,792,057, 5-14-57, Cl. 157-1.1.
- Schreiner, Alexander A. Bead seating device for tubeless tires. 2,810,432, 10-22-57, Cl. 157-1.1.
- Schreiner, Glenn, to Deere Mfg. Co. Radiator screen and grille assembly. 2,796,141, 6-18-57, Cl. 180-68.
- Schreiner, Kenneth E., and B. L. Havens, to the United States of America as represented by the Secretary of the Navy. Azimuth error indicator. 2,779,940, 1-29-57, Cl. 343-16.
- Schreiner, Norval P. Ventilated mattress quilt. 2,808,596, 10-8-57, Cl. 5-334.
- Schreiner, Paul E., to Continental Steel Corp. Wire winding and stripping mechanism. 2,786,639, 3-26-57, Cl. 242-84.
- Schreiner, Stanley M.: See—
Di Toro, Michael J., Graham, and Schreiner. 2,810,787.
- Schrem, Albert. Arbor nut with fluid pressure actuated spacer engaging pins. 2,812,684, 11-12-57, Cl. 85-32.
- Schremp, Frederic W., E. R. Hutchinson, and E. L. Hopkins, to California Research Corp. Method and apparatus for providing a rigid tube in a well bore. 2,804,148, 8-27-57, Cl. 166-33.
- Schremp, Frederick W., to Sperry Rand Corp. Proportional spacing mechanism. 2,803,330, 8-20-57, Cl. 197-84.
- Schremp, Frederick W., and W. J. Vickery, to Sperry Rand Corp. Margin control for typewriters. 2,803,329, 8-20-57, Cl. 197-63.
- Schrenk, Hans A., to American Enka Corp. Method and apparatus for treating textile material. 2,789,366, 4-23-57, Cl. 34-9.
- Schrenk, Hans A., and A. Lelij, to American Enka Corp. Method for preparing granular polyamides. 2,814,833, 12-3-57, Cl. 13-47.5.
- Schreter, Abraham. Button-down necktie. 2,813,273, 11-19-57, Cl. 2-145.
- Schreus, Hans T., and F. Schönhöfer. Tobacco smoke filter. 2,815,760, 12-10-57, Cl. 131-208.
- Schreyer, Edward P. Electric steam iron. 2,781,593, 2-19-57, Cl. 38-77.
- Schreyer, Ralph C.: See—
Hyson, Archibald M., and Schreyer. 2,778,818.
- Schreyer, Ralph C., to E. I. du Pont de Nemours and Co. Preparation of difunctional compounds. 2,789,996, 4-23-57, Cl. 260-465.6.
- Schricker, George W., to South Bend Toy Mfg. Co. Collapsible hood for carriages. 2,776,165, 1-1-57, Cl. 296-110.
- Schrieffer, Lawrence F.: See—
Roberts, Clarence F. 2,815,679.
- Schrock, Norman B., to Hewlett-Packard Co. Broad band coaxial crystal detector and line termination device. 2,810,829, 10-22-57, Cl. 250-31.
- Schroder, Albert M.: See—
Neubauer, Emil T., Schroder, and Hackbart. 2,795,194.
- Schroder, Franz: See—
Rothe, Walter, Schroder, and Wildhagen. 2,793,582.
- Schroder, Juel P., to Union Carbide and Carbon Corp. Laminating composition and laminate made therefrom. 2,784,128, 3-5-57, Cl. 154-43.
- Schröder, Willi, to Telefunken Gesellschaft fuer drahtlose Telegraphie G. m. b. H. Deflection circuit. 2,797,359, 6-25-57, Cl. 315-27.
- Schroeder Brothers Corp.: See—
Schroeder, John S. 2,804,751.
- Schroeder, Carl F. Sheet-retaining package. 2,780,352, 2-5-57, Cl. 206-58.
- Schroeder, Carl W., to Shell Development Co. Treatment of textile materials. 2,794,754, 6-4-57, Cl. 117-139.4.
- Schroeder, Charles S., to The Yale & Towne Mfg. Co. Platform pivoting and sliding construction for lift truck. 2,806,619, 9-17-57, Cl. 214-730.
- Schroeder, George F., to Sperry Rand Corp. Ford Instrument Co. Division. System for eliminating time reference for synchronous motors used in conjunction with mechanical integrators. 2,817,800, 12-24-57, Cl. 318-8.
- Schroeder, George R. Tractor ignition cut-off device. 2,812,399, 11-5-57, Cl. 200-61.47.
- Schroeder, Hansjuergen A., to Olin Mathieson Chemical Corp. Process and product. 2,780,622, 2-5-57, Cl. 260-249.5.
- Schroeder, Henry L.: See—
Goldmuntz, Lawrence, and Schroeder. 2,801,317.
- Schroeder, Herman E.: See—
Oken, Aaron, and Schroeder. 2,777,845.
- Schroeder, Herman E., to E. I. du Pont de Nemours and Co. Acedibenzimidazoloisoquinolone vat dyes. 2,785,167, 3-12-57, Cl. 260-288.
- Schroeder, John S., to Schroeder Brothers Corp. Pressure actuated control for hydraulic power systems. 2,804,751, 9-3-57, Cl. 60-97.
- Schroeder, John W.: See—
Mason, Veyne V., Mayhew, Schroeder, and Hirtenstein. 2,786,399.
- Schroeder, Oscar W., 20% to W. E. Beatty. Process and apparatus for the culture of photo-synthetic micro-organisms and macro-organisms, particularly algae. 2,815,607, 12-10-57, Cl. 47-58.
- Schroeder, Robert W., to The Griscom-Russell Co. Manufacture of brazed finned tubing and the like. 2,807,074, 9-24-57, Cl. 29-157.3.
- Schroeder, Simon E. Boat control means. 2,787,235, 4-2-57, Cl. 114-150.
- Schroeder, Simon E., to Fox River Mfg. Co. Push-pull control and transmission cable. 2,787,917, 4-9-57, Cl. 74-502.
- Schroeter, George A. Fluid circulating apparatus. 2,782,425, 2-26-57, Cl. 4-178.
- Schroter, Edward. Magnetic recording apparatus. 2,813,686, 11-19-57, Cl. 242-55.12.
- Schroter, Fritz: See—
Gretener, Edgar, and Schroter. 2,777,897.
- Schröter, Kurt. Multipart articulated shaft, particularly for agricultural machinery, which is variable in length during service and provided with a safety catch. 2,800,004, 7-23-57, Cl. 64-29.
- Schroth, Lawrence E., to Combustion Processes Co. Method of reducing iron ores. 2,806,780, 9-17-57, Cl. 75-34.
- Schrotter, Jerome H., and D. B. Duncan; said Schrotter assor. to Riverside Mfg. and Electrical Supply Co., and said Duncan assor. to Avco Mfg. Corp. Water-proof electrical connection and method of making the same. 2,800,560, 7-23-57, Cl. 201-63.
- Schuba, Leo C., to Tribune Co. Automatic rule dropping device for linecasting machines equipped with remote control operating mechanism. 2,801,734, 8-6-57, Cl. 199-61.
- Schubert, Albert E., and T. L. Etherington, to General Electric Co. Dual temperature refrigeration. 2,799,142, 7-16-57, Cl. 62-3.
- Schubert, Dale L.: See—
Erickson, Harold E., and Brookhyser. 2,792,096.
- Erickson, Harold E., Brookhyser, and Schubert. 2,791,953.
- Schubert, Dale L. Burnishing devices and methods. 2,778,394, 1-22-57, Cl. 144-309.
- Schubert, Elliot N.: See—
Marsh, Byron E., Schubert, Betcher, and DuBrow. 2,798,798.
- Schubert, Elmer J.: See—
Evans, Robert B., Byrnes, and Schubert. 2,798,222.
- Schubert, George K.: See—
Wilckens, Kurt W. 2,817,730.
- Schubert, Jack: See—
Russell, Edwin R., Adamson, Schubert, and Boyd. 2,811,416.
- Schubert, Minna R., to Le Monde Corset Co. Garment joint. 2,791,773, 5-14-57, Cl. 2-30.
- Schubert, Minna R., to Le Monde Corset Co. Foundation garment support structure. 2,791,774, 5-14-57, Cl. 2-37.
- Schubert, Otto, Jr.: See—
Schubert, Otto, Sr., and O. Schubert, Jr. 2,807,510.
- Schubert, Otto, Sr., and O. Schubert, Jr. Bearings. 2,807,510, 9-24-57, Cl. 308-238.
- Schubert & Salzer Maschinenfabrik Aktiengesellschaft Ingolstadt: See—
Flämig, Fritz, and Koblitz. 2,787,898.
- Schubert, William L., to Philco Corp. Laundry apparatus. 2,817,501, 12-24-57, Cl. 259-50.

- Schucan, Hans-Luzi: *See*—
Danuser, Jacob, and Schucan. 2,807,609.
- Schuchert, Margaret V.: *See*—
Schuchert, Oakley. 2,792,102.
- Schuchert, Oakley, deceased, M. V. Schuchert, administratrix. Elevating and conveying apparatus. 2,792,102, 5-14-57, Cl. 198-92.
- Schuck, Oscar H.: *See*—
Alderson, Ross C., and Schuck. 2,798,682.
- Schuck, Oscar H., to Minneapolis-Honeywell Regulator Co. Air traffic control apparatus. 2,787,428, 4-2-57, Cl. 244-77.
- Schucker, Robert, and L. Palmer. Founders mold board. 2,799,064, 7-16-57, Cl. 22-9.
- Schueler, Alfred E., to Westinghouse Electric Corp. Control switches. 2,790,881, 4-30-57, Cl. 200-168.
- Schueler, Henry A., to A. G. Jacobus' Sons, Inc. Painting equipment. 2,794,199, 6-4-57, Cl. 15-121.3.
- Schueler, Henry A., to A. G. Jacobus' Sons, Inc. Painting roller. 2,794,202, 6-4-57, Cl. 15-230.
- Schuessler, Albert G.: *See*—
Lacey, Felix E., Schuessler, and Swain. 2,799,646.
- Swain, Charles B., and Schuessler. 2,793,188.
- Schuessler, Albert G., to Swift & Co., and Mud Control Laboratories, Inc. Drilling fluids and emulsifiers therefor. 2,793,189, 5-21-57, Cl. 252-8.5.
- Schuessler, Fred W., and N. E. Lemmon, to Standard Oil Co. Sulfonate composition of high barium content. 2,791,558, 5-7-57, Cl. 252-33.
- Schuessler, Karl E., to the United States of America as represented by the Secretary of the Navy. Hydrodynamic bullet catcher. 2,813,422, 11-19-57, Cl. 73-167.
- Schuetze, Hilmar O., to Great Lakes Stamp & Mfg. Co., Inc. Hand sealer. 2,814,710, 11-26-57, Cl. 219-21.
- Schuff, Bernard W., to Westinghouse Electric Corp. Rotor for electric motor. 2,781,465, 2-12-57, Cl. 310-211.
- Schuff, Walter: *See*—
Schmatloch, Adolf, Schaub, and Schuff. 2,795,495.
- Schuftan, Paul M., to The British Oxygen Co. Ltd. Process of and apparatus for separation of gas mixtures. 2,788,638, 4-16-57, Cl. 62-2.
- Schugeld, Edgar C. Spout. 2,817,464, 12-24-57, Cl. 222-465.
- Schuh, Charles H. Art of decorative laminated vinylite panels. 2,806,809, 9-17-57, Cl. 154-46.
- Schuh, Mendel: *See*—
Robbins, Joseph J., Grable, Horowitz, and Schuh. 2,786,430.
- Schulenburg, Edward J. Traffic control system. 2,796,595, 6-18-57, Cl. 340-37.
- Schuler, Ellis W., Jr., H. F. Dunlap, and L. E. Gourley, Jr., to The Atlantic Refining Co. Method and apparatus for locating displaceable oil in subterranean formations. 2,782,364, 2-19-57, Cl. 324-1.
- Schuler, Johannes H., and U. Theile, to Aktiebolaget Bofors. Fuse for an explosive projectile. 2,791,963, 5-14-57, Cl. 102-70.2.
- Schuler, L. A.-G.: *See*—
Hummel, Richard. 2,812,843.
- Naderhoff, Heinrich. 2,777,518.
- Puhlmann, Otto. 2,815,709.
- Walter, Herman. 2,780,320.
- Schuler, Leo T. Detachable aircraft simulating body for tri-cycles. 2,793,045, 5-21-57, Cl. 280-1.21.
- Schuler, Leonhard, to Knoll A.-G., Chemische Fabriken. Bromsalicyloyl-chloranilide. 2,802,029, 8-6-57, Cl. 260-559.
- Schuler, Max, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Pesticidal thiophosphoric acid esters and methods of destroying insects. 2,815,312, 12-3-57, Cl. 167-22.
- Schuler, Wilhelm A., to Chemische Fabrik Promonta G. m. b. H. Phenothiazine compounds. 2,784,185, 3-5-57, Cl. 260-243.
- Schulerud, Albert L., to Colgate-Palmolive Co. Method and apparatus for cooling soap and the like. 2,776,544, 1-8-57, Cl. 62-104.
- Schulhoff, Saul, to Scully Rubber Mfg. Co. Inc. Guard for pocket articles. 2,807,303, 9-24-57, Cl. 150-47.
- Schulken, Roger M., Jr., and J. W. Tamblin, to Eastman Kodak Co. Polymethacrylonitrile composition heat stabilized for injection molding. 2,811,505, 10-29-57, Cl. 260-45.8.
- Schulken, Roger M., Jr., and L. D. Moore, Jr., to Eastman Kodak Co. Linear polyester compositions containing a hydroquinone derivative as a heat stabilizer. 2,816,088, 12-10-57, Cl. 260-45.9.
- Schuller, Heri, to G. H. Rother. Non-rotating wire ropes. 2,779,149, 1-29-57, Cl. 57-148.
- Schuller, Walter H., and E. J. Kerle, to American Cyanamid Co. Plasticized acrylonitrile compositions. 2,786,043, 3-19-57, Cl. 260-45.5.
- Schulman, Bernard L.: *See*—
Cooper, William M., Jr., Upchurch, Schulman and May. 2,789,942.
- Schulman, Bernard L., and W. G. May, to Esso Research and Engineering Co. Apparatus for measuring the flow rates of particulate solids. 2,776,566, 1-8-57, Cl. 73-205.
- Schulman, Earl L., to Westinghouse Electric Corp. Electrical insulation suitable for commutators. 2,788,052, 4-9-57, Cl. 154-2.6.
- Schulman, Ira: *See*—
Benesch, Edward J., and Schulman. 2,816,166.
- Schulman, James H., and R. J. Ginther, to United States of America as represented by the Secretary of the Navy. Dosimeter for high energy radiation. 2,787,714, 4-2-57, Cl. 250-71.
- Schulmerich Electronics, Inc.: *See*—
Kunz, Jacob. 2,783,049.
- Kunz, Jacob T. 2,791,146.
- Kunz, Jacob T. 2,812,679.
- Schult, Hans F., Sr. Table. 2,807,909, 10-1-57, Cl. 45-131.2.
- Schultheis, Harry B., Jr., to Bendix Aviation Corp. Frequency multiplex telemetering system. 2,784,393, 3-5-57, Cl. 340-185.
- Schultheis, Wilhelm E.: *See*—
Specht, Walter, and Schultheis. 2,816,031.
- Schultz, Arthur D.: *See*—
Schwendler, Frederick C., and Schultz. 2,797,016.
- Schultz, August L. Ankle brace and stabilizer. 2,800,900, 7-30-57, Cl. 128-87.
- Schultz, August L. Surgical support. 2,816,541, 12-17-57, Cl. 128-87.
- Schultz, Blaine H., and P. M. Minder, to McGraw-Edison Co. Neutral grounding device. 2,799,807, 7-16-57, Cl. 317-12.
- Schultz, Carl: *See*—
Swinehart, William T., and Schultz. 2,809,794.
- Schultz, Charles. Dual faced photographic screen. 2,787,320, 4-2-57, Cl. 160-24.
- Schultz, Charles. Automatic safety flow control valve. 2,806,484, 9-17-57, Cl. 137-460.
- Schultz Die Casting Co.: *See*—
Holmes, Burton F., and Heindel. 2,811,758.
- Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Pulley with oil reservoir. 2,787,165, 4-2-57, Cl. 74-230.3.
- Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Pulley. 2,800,031, 7-23-57, Cl. 74-243.
- Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Caster mounting. 2,800,679, 7-30-57, Cl. 16-29.
- Schultz, Elizabeth, and J. A. Osborne. Graduate. 2,793,530, 5-28-57, Cl. 73-427.
- Schultz, Everett M., to Merck & Co., Inc. Deamination process. 2,778,853, 1-22-57, Cl. 260-590.
- Schultz, Everett M., to Merck & Co., Inc. Phenalkylamines. 2,784,193, 3-5-57, Cl. 260-294.7.
- Schultz, Everett M., to Merck & Co., Inc. Gamma, gamma-diphenyl-delta-oxocaproic acids. 2,814,642, 11-26-57, Cl. 260-515.
- Schultz, Frank A.: *See*—
Brown, Raymond W., Mitchell, and Schultz. 2,794,211.
- Schultz, Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the recovery of callicrein from animal substances. 2,784,142, 3-5-57, Cl. 167-74.
- Schultz, Harold W.: *See*—
Mushovic, Peter, and Schultz. 2,782,498.
- Schultz, Harold W., to General Motors Corp. Method of making a composite article. 2,809,422, 10-15-57, Cl. 29-497.5.
- Schultz, Heinrich: *See*—
Mempel, Rudolf, and Schultz. 2,803,507.
- Schultz, Henry J.: *See*—
Walker, Brooks, and Schultz. 2,779,015.
- Schultz, Henry J., to B. Walker. Battery tester. 2,792,567, 5-14-57, Cl. 340-249.
- Schultz, Henry J., and M. Orton. Electric control device. 2,786,898, 3-26-57, Cl. 179-100.41.
- Schultz, John, Jr.: *See*—
Zimmerman, Haven M., King, and Schultz. 2,786,782.
- Schultz, Joseph D. Glue dispenser and applicator. 2,816,308, 12-17-57, Cl. 15-131.05.
- Schultz, Ralph L.: *See*—
Lippert, Erhard M., Schultz, and Neyfeldt. 2,792,176.
- Schultz, Ralph L., to Victor Adding Machine Co. Platen impelling means in check writers. 2,794,387, 6-4-57, Cl. 101-20.
- Schultz-Sweetman-Sheridan, Inc.: *See*—
Sheridan, Albert F. 2,792,839.
- Schultz, Warren H. Adjustable door stop. 2,808,609, 10-8-57, Cl. 16-86.
- Schultz, Werner F., and M. R. Seelhoff, to Redmond Co., Inc. Two-scale dynamometer testing apparatus. 2,785,568, 3-19-57, Cl. 73-134.
- Schultz, William L., to Steelman Products Corp. Circumferentially distributed thrust type tire stripping apparatus. 2,815,802, 12-10-57, Cl. 157-1.2.
- Schultze, Harold E.: *See*—
Long, Paul J., and Schultze. 2,785,774.
- Schultze, Hermann E., M. Schonenberger, and H.-D. Matheka, to Behringwerke Aktiengesellschaft. Process of preparing stable, highly purified gamma globulin preparations. 2,793,203, 5-21-57, Cl. 260-112.
- Schultze, Kurt H., to Herbert Lindner G. m. b. H. Apparatus to correct or compensate irregularities of the pitch of guide screws. 2,799,178, 7-16-57, Cl. 74-424.8.
- Schultze, Kurt H., to Herbert Lindner G. m. b. H. Composite guide screw of spindle. 2,808,731, 10-8-57, Cl. 74-424.8.
- Schultze, Kurt H. Apparatus for the exact adjustment of machine tools. 2,809,540, 10-15-57, Cl. 77-5.
- Schulz, Elmer H., to the United States of America as represented by the Secretary of the Navy. Frequency modulation system. 2,812,510, 11-5-57, Cl. 340-174.
- Schulz, Hans K. F., and A. Berninger, to Chemische Fabrik Budenheim Aktiengesellschaft. Cleaning plant, for example for de-rusting wire and the like. 2,788,616, 4-16-57, Cl. 51-3.

- Schulz, Helmut W.: *See*—
 Bowditch, Robert P., and Schulz. 2,817,669.
 Hess, Lawrence G., and Schulz. 2,782,243.
- Schulz, Hermann T. W.: *See*—
 Carlson, Carl G., and Schulz. 2,796,633.
- Schulz, Joseph F.: *See*—
 Berry, G. William, Schmitt, and Schulz. 2,804,833.
- Schulz, Otto F., K. Burgdorf, and H. Martens, to Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius & Bruning. Process of preparing 2-hydroxynaphthalene 3-carboxylic acid. 2,808,434, 10-1-57, Cl. 260-520.
- Schulz, Paul, and A. Bauer, to Patent-Treuhand-Gesellschaft für elektrische Glühlampen m. b. H. Electric discharge lamp. 2,791,727, 5-7-57, Cl. 315-347.
- Schulz, Theodore R., to The Symington-Gould Corp. Automatic screw type slack adjuster. 2,792,085, 5-14-57, Cl. 188-202.
- Schulz, Wallace W., R. A. Watts, Jr., and R. L. Moore, to the United States of America as represented by the United States Atomic Energy Commission. Separation process by adsorption. 2,796,424, 6-18-57, Cl. 260-429.
- Schulz, Walter: *See*—
 Schmitz, Otto H. 2,810,910.
- Schulz, Walter A., to Franklin Balmar Corp. Automatic tracer controls. 2,800,748, 7-30-57, Cl. 51-100.
- Schulz, William L.: *See*—
 Conlin, James R., and Schulz. 2,806,932.
 Conlin, James R., and Schulz. 2,807,701.
- Schulze, Heinz: *See*—
 Levy, Marilyn, and Schulze. 2,799,582.
- Schulze, Johann: *See*—
 Pape, Hans-Martin, and Schulze. 2,778,375.
 Pape, Hans-Martin, Schulze, and Hiller. 2,796,888.
- Schulze, Johann, to G. F. Gerds. Steam trap with hat-shaped float. 2,807,276, 9-24-57, Cl. 137-185.
- Schulze, Kurt E., to E. Roe, d. b. a. Coast Wire Co. Method of tying wire. 2,779,356, 1-29-57, Cl. 140-93.
- Schulze, Oscar M.: *See*—
 Whitehouse, Zebulon W., Schulze, and Fischer. 2,812,866.
- Schulze, Richard B., H. P. Hessler, and C. M. Davison, deceased, by S. L. Drison, administratrix, and M. A. Winter, to The Glenn L. Martin Co. Cushion control system for a press. 2,796,253, 6-18-57, Cl. 267-1.
- Schulze, Richard P.: *See*—
 Cameron, Peter C. 2,790,350.
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- Schulze, Robert E.: *See*—
 Klumb, George H., Sailsbury, and Schulze. 2,778,798.
 Klumb, George H., Schulze, Roach, and Sailsbury. 2,781,312.
- Schulze, Walter A., to Phillips Petroleum Co. Furnace carbon black slurries and process for making same. 2,794,749, 6-4-57, Cl. 106-307.
- Schumacher, Elmer L., to American Optical Co. Ophthalmic mountings. 2,811,079, 10-29-57, Cl. 88-47.
- Schumacher, Elmer W., to American Optical Co. Means and method of heat-joining glass articles. 2,796,313, 6-18-57, Cl. 316-19.
- Schumacher, Ernst. Line-variator. 2,776,595, 1-8-57, Cl. 88-24.
- Schumacher, Erwin A., R. J. Bennett, and P. S. Brooks, to Union Carbide and Carbon Corp. Gas permeable membrane for air depolarized cell. 2,797,254, 6-25-57, Cl. 136-177.
- Schumacher, Frank A.: *See*—
 Solley, Douglas A., Jr., and Schumacher. 2,779,170.
- Schumacher, Frank A., to General Electric Co. Hot gas defrost system. 2,805,555, 9-10-57, Cl. 62-4.
- Schumacher, Frank A., to General Electric Co. Adjustable shelf structure. 2,813,635, 11-19-57, Cl. 211-146.
- Schumacher, Hans: *See*—
 Kracht, Otto, and Schumacher. 2,793,650.
- Schumacher, James W. Walking barrel for bullfighting. 2,809,035, 10-8-57, Cl. 272-1.
- Schumacher, John J., 40% to M. P. Schumacher. Traffic light control mechanism. 2,797,400, 6-25-57, Cl. 340-40.
- Schumacher, John N., 50% to D. W. Duffy. Means in combination with an internal combustion engine for increasing the power of the engine. 2,796,852, 6-25-57, Cl. 123-25.
- Schumacher, John N., 50% to D. W. Duffy. Means in combination with an internal combustion engine for supercharging the engine. 2,796,855, 6-25-57, Cl. 123-133.
- Schumacher, Joseph C., to American Potash & Chemical Corp. Briquette of synthetic chromium ore. 2,805,140, 9-3-57, Cl. 75-3.
- Schumacher, Mary P.: *See*—
 Schumacher, John J. 2,797,400.
- Schumacher, William L., to AMP Inc. Electrical connection and method. 2,789,277, 4-16-57, Cl. 339-276.
- Schumacher, William L., to AMP Inc. Electrical connector. 2,811,705, 10-29-57, Cl. 339-276.
- Schumacker, George P., and E. B. Williams, to The American Ship Building Co. Automatic sewage treatment and disposal unit. 2,777,816, 1-15-57, Cl. 210-2.
- Schumaier, Irwin J., to Century Electric Co. Dynamo electric machines. 2,783,403, 2-26-57, Cl. 310-202.
- Schumaker, Lawrence A. Safety frame and top for tractor. 2,785,002, 3-12-57, Cl. 296-102.
- Schumaker, Walter G., and R. A. Stone, to General Motors Corp. Hinged finish molding. 2,791,465, 5-7-57, Cl. 296-44.5.
- Schuman, Samuel E. Gun scope mounting. 2,775,817, 1-1-57, Cl. 33-50.
- Schumann, Alex J., $\frac{1}{10}$ to J. H. Brinkman. Heat exchanger. 2,793,004, 5-21-57, Cl. 257-2.
- Schumann, Edward L., M. G. Van Campen, Jr., and R. C. Pogge, to The Wm. S. Merrell Co. Tranquilizing composition comprising alpha phenyl, alpha-(4-piperidyl)-benzyl alcohol and method of using same. 2,804,422, 8-27-57, Cl. 167-65.
- Schumann, Helmut W. Motor tool. 2,779,883, 1-29-57, Cl. 310-50.
- Schumann, Herbert O., to N. A. Saigh, d. b. a. New Braunfels Iron Works. Automatic parking brake. 2,816,633, 12-17-57, Cl. 192-2.
- Schümann, Richard W. K., to Daimler-Benz Aktiengesellschaft. Internal combustion engine. 2,787,258, 4-2-57, Cl. 123-32.
- Schumann, Robert W., to the United States of America as represented by the United States Atomic Energy Commission. Electrostatic memory system. 2,790,931, 4-30-57, Cl. 315-22.
- Schumann, William, to Diamond Hosiery Corp. Knitted fabric. 2,795,123, 6-11-57, Cl. 66-178.
- Schumb, Martin T., to Boston Gear Works, Div. The Murray Co. of Texas, Inc. Reduction gear transmission. 2,813,435, 11-19-57, Cl. 74-421.
- Schundler, F. E.: *See*—
 Denning, Paul S. 2,798,674.
- Schundler, F. E., & Co. Inc.: *See*—
 Denning, Paul S. 2,784,085.
- Schunemann, Carl F., to Thompson Products, Inc. Switch for coaxial lines. 2,784,379, 3-5-57, Cl. 333-7.
- Schunk & Ebe G. m. b. H.: *See*—
 Hinrichs, Gerd. 2,794,078.
- Schupner, Willard J., to Hanna Engineering Works. Portable brochures. 2,787,047, 4-2-57, Cl. 29-95.1.
- Schupner, Willard J., to Hanna Engineering Works. Portable broach pulling machine. 2,814,238, 11-26-57, Cl. 90-33.
- Schur, Frederick P. Combination tire pressure gauge and regulator. 2,778,225, 1-22-57, Cl. 73-389.
- Schur, Milton O., to Ecusta Paper Corp. Spray device. 2,775,952, 1-1-57, Cl. 118-8.
- Schur, Milton O., to Olin Mathieson Chemical Corp. Perforated paper. 2,817,596, 12-24-57, Cl. 117-4.
- Schur, Milton O., and O. L. Hillsman, to The American Tobacco Co. Filter tip for tobacco products. 2,801,638, 8-6-57, Cl. 131-208.
- Schurich, Edward C., and F. R. Schleif. Dynamagnetic pickup system. 2,804,506, 8-27-57, Cl. 179-100.2.
- Schurcliff, William A.: *See*—
 Land, Edwin H., and Schurcliff. 2,779,017.
- Schurecht, Harry G., to Champion Spark Plug Co. Spark plug insulators containing ZnO. 2,804,392, 8-27-57, Cl. 106-46.
- Schurger, David L. Ventilated awnings. 2,791,010, 5-7-57, Cl. 20-57.5.
- Schurger, Garner H.: *See*—
 Gallimore, Keith F., and Schurger. 2,809,418.
 McFerren, Edgar L., and Schurger. 2,786,395.
- Schurger, Garner H., to Giddings & Lewis Machine Tool Co. Rotary machine tool table. 2,787,175, 4-2-57, Cl. 77-64.
- Schurger, Garner H., to Giddings & Lewis Machine Tool Co. Combination operator platform and elevator for machine tools. 2,816,485, 12-17-57, Cl. 90-11.
- Schürhoff, Heinrich, and F. Doll, to Koppers Co., Inc. Decarbonizing of the rich gas nozzles of coking or other chamber ovens. 2,789,086, 4-16-57, Cl. 202-38.
- Schurman, Glenn A.: *See*—
 Blake, Francis G., Schurman, and Aagaard. 2,791,757.
 Meiners, Edwin P., and Schurman. 2,787,520.
 Northrup, Joseph W., and Schurman. 2,787,417.
- Schurman, Glenn A., to California Research Corp. Logging tool. 2,790,964, 4-30-57, Cl. 340-17.
- Schurman, Jack V., to Colgate-Palmolive Co. Process of bleaching sulfated and sulfonated anionic synthetic detergent compositions and the resulting products. 2,804,466, 8-27-57, Cl. 260-400.
- Schurr, Charles A., and F. A. Manners, to Square D Co. Prepositioning motor control. 2,817,053, 12-17-57, Cl. 318-490.
- Schurz, George F.: *See*—
 Pye, David J., and Schurz. 2,798,040.
- Schüssler, Alfred, and E. Schafer, to Veb Spinnereimaschinenbau Karl-Marx-Stadt. Drawing frame for spinning machines. 2,783,505, 3-5-57, Cl. 19-135.
- Schüssler, Alfred, and E. Schäfer, to Veb Spinnereimaschinenbau Karl-Marx-Stadt. Drawing frame for a spinning machine. 2,815,538, 12-10-57, Cl. 19-135.
- Schuster, Curt: *See*—
 Eisele, Julius, Federkiel, Gassenmeier, and Schuster. 2,813,773.
- Schuster, Curt, K. Maier, R. Gehm, J. Eisele, and W. Federkiel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for improving the waste gas fastness of dyed cellulose derivatives. 2,813,774, 11-19-57, Cl. 8-61.
- Schuster, Herman A. Apparatus for forming fins. 2,779,223, 1-29-57, Cl. 80-13.
- Schuster, Ludwig K.: *See*—
 Muir, Robert, and Schuster. 2,801,944.
- Schuster, Ludwig K., and A. L. Baldi, Jr., to Heintz Mfg. Co. Composition for and method of treating metals as well as the treated product. 2,777,785, 1-15-57, Cl. 148-6.2.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Function generator. 2,792,173, 5-14-57, Cl. 235-61.

- Schuster, Nick A., to Schlumberger Well Surveying Corp. Electrical apparatus for well logging. 2,803,796, 8-20-57, Cl. 324-1.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Electrical resistivity well logging. 2,806,201, 9-10-57, Cl. 324-1.
- Schutt, Arthur J., to General Motors Corp. Automotive heating system. 2,814,448, 11-26-57, Cl. 237-8.
- Schutte, Alfred H.: *See*—
Kohring, Erwin. 2,788,565.
- Schutte, August H., to The Lummus Co. Hydrocarbon conversion. 2,789,084, 4-16-57, Cl. 196-55.
- Schutte, August H., to The Lummus Co. Conversion of hydrocarbons. 2,789,148, 4-16-57, Cl. 260-679.
- Schutte, Ethel: *See*—
Reavis, William J., and Schutte. 2,818,106.
- Schutte, Ethel, and W. J. Reavis, to S & E Mfg. Co. Slip cover. Re. 24,279, 2-19-57, Cl. 155-182.
- Schutte and Koerting Co.: *See*—
Boehm, Frederick. 2,808,195.
Stevens, John B. 2,815,429.
Stoehr, Harvey E. 2,816,739.
- Schutz, Blaine H.: *See*—
Minder, Peter M., and Schutz. 2,794,154.
- Schutz, Karl H., to Jos. Schneider & Co. Optical system with automatic diaphragm return to preselected position. 2,777,371, 1-15-57, Cl. 95-64.
- Schütz, Kurt. Device for distributing active substances for portable machines for the destruction of parasites. 2,812,613, 11-12-57, Cl. 43-148.
- Schutze, Henry G.: *See*—
Cier, Harry E., and Schutze. 2,794,003.
- Schuur, Gerrit, to Rubber-Stichting. Process for the manufacture of threads or bands from rubber hydrochloride. 2,785,043, 3-12-57, Cl. 18-54.
- Schuyler, Fred B. Truck dock bumper. Re. 24,276, 2-12-57, Cl. 267-1.
- Schwab, Arthur W.: *See*—
Evans, Cyril D., and Schwab. 2,797,231.
- Schwab, Edward R.: *See*—
Unger, Maynard B., and Schwab. 2,791,601.
- Schwab, George J., Jr., $\frac{1}{2}$ to M. H. Schwab. Chain saw vise. 2,798,385, 7-9-57, Cl. 76-78.
- Schwab, Leonard F. Drawbar for trailers. 2,780,480, 2-5-57, Cl. 280-499.
- Schwab, Louis, G. L. O'Connor, and F. W. Riehle, to The Union Central Life Insurance Co. Device for testing liquids. 2,785,057, 3-12-57, Cl. 23-253.
- Schwab, Mary H.: *See*—
Schwab, George J., Jr. 2,798,385.
- Schwab, Otto H., to Zahnradfabrik Friedrichshafen Aktien-gesellschaft. Change speed gear. 2,787,167, 4-2-57, Cl. 74-359.
- Schwab, Pierre. Time piece provided with a striker. 2,786,524, 3-26-57, Cl. 161-6.
- Schwab, Pierre. Striking clock. 2,799,334, 7-16-57, Cl. 161-6.
- Schwab, Robert W., Jr.: *See*—
Rocker, William P., and Schwab. 2,815,800.
- Schwabe, Herman, Inc.: *See*—
Haas, Edgar. 2,783,486.
- Schwabe, Herman. Lasting machine. 2,805,431, 9-10-57, Cl. 12-8-3.
- Schwaegerle, Edward G., to The B. F. Goodrich Co. Rigid thermoplastic compositions comprising vinyl halide polymers with interpolymers of styrene and alkyl methacrylates and process of making. 2,791,600, 5-7-57, Cl. 260-45.5.
- Schwager, August C., to Schwager-Wood Corp. Circuit interrupting and isolating switch. 2,810,805, 10-22-57, Cl. 200-145.
- Schwager, Oskar: *See*—
Herlach, Heinrich, and Schwager. 2,778,278.
- Schwager-Wood Corp.: *See*—
Schwager, August C. 2,810,805.
- Schwaiger, Leo. Radially deformed locknut. 2,796,107, 6-18-57, Cl. 151-21.
- Schwaiger, Odilo L., to Daimler-Benz Aktiengesellschaft. Fuel injection engine. 2,803,229, 8-20-57, Cl. 123-32.
- Schwalbe, Harvey. Telescopic clothes line props or the like. 2,797,942, 7-2-57, Cl. 287-58.
- Schwalge, William C. Oil reclaimer. 2,785,109, 3-12-57, Cl. 196-15.
- Schwalkwijk, Willem F.: *See*—
Köhler, Jacob W. L., de Lange, and Schalkwijk. 2,775,875.
- Schwamberger, Emil, to Cassella Farbwerke Mainkur Aktiengesellschaft. Dianthrone ethylene derivatives containing bromine and process of making same. 2,782,209, 2-19-57, Cl. 260-351.
- Schwamm, Ernst, and J. J. Reeh. Apparatus for medical diagnoses. 2,804,069, 8-27-57, Cl. 128-2.
- Schwan, Clarence F.: *See*—
Tudbury, Chester A., and Schwan. 2,817,793.
- Schwan, Joseph F., and C. W. Olson. Air-circulating parasol for protection against dust, insects and sun. 2,817,281, 12-24-57, Cl. 98-1.
- Schwaneke, Alfred E., to A-M Corp. Thermostat. 2,795,673, 6-11-57, Cl. 200-138.
- Schwaneke, Fred C., to Dormeyer Corp. Portable food mixer. 2,793,011, 5-21-57, Cl. 259-104.
- Schwaneke, Fred C., to Dormeyer Corp. Liquefier. 2,804,289, 8-27-57, Cl. 259-108.
- Schwaneke, Fred C., to A-M Corp. Control device. 2,807,690, 9-24-57, Cl. 200-139.
- Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Silica-magnesia catalyst preparation. 2,796,409, 6-18-57, Cl. 252-448.
- Schwartz, Alexander, and E. Fogelson, to Leobarb Corp. Thermal insulation. 2,777,786, 1-15-57, Cl. 154-45.
- Schwartz, Alexander, and E. Fogelson, to Leobarb Corp. Thermal insulation. 2,786,004, 3-19-57, Cl. 154-45.
- Schwartz, Bernard, and P. W. Maloney, to Sylvania Electric Products Inc. Germanium photodiode. 2,799,814, 7-16-57, Cl. 317-234.
- Schwartz, Bertram A., to General Motors Corp. Mechanical radio tuning means. 2,800,027, 7-23-57, Cl. 74-10-33.
- Schwartz, Carl, deceased; H. Schwartz, special administrator, to Cheese Machinery, Inc. Method and apparatus for making cheese. 2,794,746, 6-4-57, Cl. 99-115.
- Schwartz, Charles S.: *See*—
Cooper, Nathan, and Schwartz. 2,796,582.
- Schwartz, Daniel M., to The Eimco Corp. Material handling machine. 2,792,140, 5-14-57, Cl. 214-148.
- Schwartz, Daniel M., to The Eimco Corp. Filter valve construction. 2,811,259, 10-29-57, Cl. 210-328.
- Schwartz, Eli, and M. J. Kleinfeld, to United States Rubber Co. Thermoplastic fusion blend of emulsion-prepared polyvinyl chloride resin and a small amount of butadiene: acrylonitrile copolymer rubber. 2,803,621, 8-20-57, Cl. 260-45.5.
- Schwartz, Ernest. Children's dress display form. 2,796,206, 6-18-57, Cl. 223-68.
- Schwartz, Eugene. Advertising device. 2,788,596, 4-16-57, Cl. 40-124-1.
- Schwartz, Mrs. Fannie: *See*—
Margulis, Joseph M. 2,809,001.
- Schwartz, Fay: *See*—
Plachter, Abraham. 2,798,334.
- Schwartz, Frederick W., to The Air Preheater Corp. Regenerative heat exchangers for paired gas turbines. 2,814,181, 11-26-57, Cl. 60-39-15.
- Schwartz, Hal H., to Vibra-Bath Corp. Apparatus for hydrotherapeutic treatment. 2,793,640, 5-28-57, Cl. 128-66.
- Schwartz, Harold H., and J. S. Tucker, to Empire Brushes, Inc. Paint brushes. 2,790,986, 5-7-57, Cl. 15-192.
- Schwartz, Harry N.: *See*—
Alpert, Max. 2,797,132.
- Schwartz, Harry S.: *See*—
Hafekost, Frederick. 2,776,482.
- Schwartz, Henry: *See*—
Schwartz, Carl. 2,794,746.
- Schwartz, Jerome, and Y. T. Lo, to Channel Master Corp. Broad-band end-fire television antenna. 2,817,055, 12-17-57, Cl. 343-814.
- Schwartz, Lawrence, to Cue Fastner, Inc. Apparatus for making coils and other twisted and mated elements. 2,817,206, 12-24-57, Cl. 57-1.
- Schwartz, Marius M. Children's amusement device. 2,799,587, 7-16-57, Cl. 99-138.
- Schwartz, Morris A., to Ethicon, Inc. Article gauging, classifying, sorting and counting apparatus. 2,791,329, 5-7-57, Cl. 209-88.
- Schwartz, Morris, and W. Castedello, to The Kalart Co. Inc. Photoflash unit. 2,789,205, 4-16-57, Cl. 240-1.3.
- Schwartz, Morris, and W. Castedello, to The Kalart Co., Inc. B-C photoflash unit. 2,811,845, 11-5-57, Cl. 67-31.
- Schwartz, Myron E., Inc.: *See*—
Rogovin, Sidney H. 2,798,238.
- Schwartz, Nathan R., to Naras Research, Inc. Wall swivel. 2,799,742, 7-16-57, Cl. 200-51.
- Schwartz, Nathan R., to Naras Research Inc. Reflector. 2,799,773, 7-16-57, Cl. 240-47.
- Schwartz, Norman, to Southern Electronics Co. Adjustable capacitor. 2,799,816, 7-16-57, Cl. 317-245.
- Schwartz, Phillips K., to Proctor & Schwartz, Inc. Structural member and assemblies thereof. 2,815,832, 12-10-57, Cl. 189-34.
- Schwartz, Ralph E., to The Malloran Corp. Method of making a resin-treated elastomer mat. 2,787,572, 4-2-57, Cl. 154-101.
- Schwartz, Robert S., to Faximile, Inc. Electrical recording medium. 2,776,251, 1-1-57, Cl. 204-2.
- Schwartz, Robert S., to Faximile, Inc. Dry electrical recording medium. 2,776,252, 1-1-57, Cl. 204-2.
- Schwartz, Robert S., to Faximile, Inc. Dry electrical recording medium. 2,786,807, 3-26-57, Cl. 204-2.
- Schwartz, Samuel. Automatic-feed nailing machine. 2,783,468, 3-5-57, Cl. 1-46.
- Schwartz, Sidney, to Bantam-Lite, Inc. Wrist supported signal light. 2,805,326, 9-3-57, Cl. 240-59.
- Schwartz, Werner: *See*—
Wendeborn, Helmut, Schwartz, Maelzer, and Rausch. 2,797,158.
- Schwartzwalder, Karl: *See*—
Smith, Robert W., and Schwartzwalder. 2,786,819.
- Schwartzwalder, Karl, and C. D. Ortman, to General Motors Corp. Sodium silicate type cement. 2,793,956, 5-28-57, Cl. 106-82.
- Schwarz, Adolf: *See*—
Holmes, John R., Reynolds, and Schwarz. 2,815,916.
- Schwarz, Agnes K.: *See*—
Schwarz, Henry G. 2,799,313.
- Schwarz, Bertram A.: *See*—
Kearney, William R., and Schwarz. 2,775,895.
- Schwarz, Hans R. Panty. 2,808,592, 10-8-57, Cl. 2-224.

- Schwarz, Henry G., to A. K. Schwarz. Shredder type juice extractor. 2,799,313, 7-16-57, Cl. 146-76.
- Schwarz, Herbert. Transfusion monitoring device. 2,807,012, 9-17-57, Cl. 340-239.
- Schwarz, Howard G.: *See*—
Schwenk, Gustav H., and Schwarz. 2,796,675.
- Schwarz, Karl G., to Siemens & Halske Aktiengesellschaft. Magnetic recorder. 2,786,897, 3-26-57, Cl. 179-100.2.
- Schwarz, Karl G., and H.-C. Wohlrab, to Klangfilm Gesellschaft mit beschränkter Haftung. Magnetic head for sound-recording apparatus and the like. 2,810,020, 10-15-57, Cl. 179-100.2.
- Schwarz, Klaus D. Shoes and foot supporting portions thereof. 2,798,310, 7-9-57, Cl. 36-8.5.
- Schwarz, Milton H.: *See*—
Mamlok, Karl H., and Schwarz. 2,793,980.
- Schwarz, Milton H., and G. Orgel, to Turner Hall Corp. Composition and method for permanent waving of hair on the human head. 2,780,579, 2-5-57, Cl. 167-87.1.
- Schwarz, Theodor A., to California Prune and Apricot Growers Association. Method of treating dried fruits. 2,789,057, 4-16-57, Cl. 99-104.
- Schwarzbaur, Julius. Flanges for piano actions. 2,793,555, 5-28-57, Cl. 84-251.
- Schwarze, Werner: *See*—
Fischer, Johannes, and Schwarze. 2,800,439.
- Schwarzenbach, Earl E., and J. T. Williams, to Pak Mfg. Co. Automatic cycling control. 2,801,373, 7-30-57, Cl. 317-141.
- Schwarzenbach, Earl E., and J. T. Williams, to Oak Mfg. Co. Electric switch. 2,815,411, 12-3-57, Cl. 200-38.
- Schwarzer, Carl G., to Shell Development Co. Polyglycidyl ethers of tetraphenols. 2,806,016, 9-10-57, Cl. 260-47.
- Schwarzer, Fred. Barbless fishhook. 2,792,664, 5-21-57, Cl. 43-43.16.
- Schwarzkopf Development Corp.: *See*—
Steinitz, Robert. 2,779,579.
Steinitz, Robert. 2,779,580.
- Schwarzkopf, Henry, and J. G. Van Otterloo, to Consolidated Diamond Tool Corp. Cut-off blades for abrasive bodies and their production. 2,815,746, 12-10-57, Cl. 125-22.
- Schwechten, Heinz-Werner, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Production of anthracene derivatives. 2,800,472, 7-23-57, Cl. 260-243.
- Schweda, Ruffin L. Extension and telescoping attachment for nozzle of showers. 2,776,168, 1-1-57, Cl. 299-73.
- Schwede, Otto G. Radiation meter device. 2,802,112, 8-6-57, Cl. 250-83.3.
- Schwegman, Harry E.: *See*—
Green, Daniel P., and Schwegman. 2,806,539.
Morrisett, O. L., and Schwegman. 2,808,889.
- Schweichert, Hans, to Siemens-Schuckertwerke Aktiengesellschaft. Method for preparing rod-shaped, crystalline semiconductor bodies. 2,783,168, 2-26-57, Cl. 148-1.5.
- Schwehofer, Horst M., to Collins Radio Co. Bidirectional servomotor shaft positioning means. 2,814,013, 11-19-57, Cl. 313-467.
- Schweiker, George C.: *See*—
Robitschke, Paul, and Schweiker. 2,813,086.
- Schweiss, Joseph, to ACF Industries, Inc. Carburetor throttle control. 2,779,586, 1-29-57, Cl. 267-1.
- Schweiss, Joseph, to ACF Industries, Inc. Electric fuel pump. 2,790,392, 4-30-57, Cl. 103-53.
- Schweisthal, Frederick G., to Stewart-Warner Corp. Variable capacity oil mist generator. 2,776,025, 1-1-57, Cl. 184-55.
- Schweisthal, Frederick G., to Stewart-Warner Corp. Variable capacity oil mist generator. 2,779,437, 1-29-57, Cl. 184-55.
- Schweitzer, Walter, to Maschinenfabrik Schweizer A. G. Means for filling a collector with fiber-wound bobbins. 2,786,315, 3-26-57, Cl. 53-59.
- Schweitzer, Walter, and K. Marx, to Maschinenfabrik Schweizer A. G. Thread brake for textile machines. 2,799,459, 7-16-57, Cl. 242-150.
- Schweitzer, Carl E., to E. I. du Pont de Nemours and Co. Novel dibasic aromatic acids and derivatives thereof. 2,794,822, 6-4-57, Cl. 260-465.
- Schweitzer, Earl O.: *See*—
Swartwout, Charles J., and Schweitzer. 2,800,913.
- Schweitzer, Erich, to Markel Electric Products, Inc. Machine for playing disk-type phonograph record. 2,786,685, 3-26-57, Cl. 274-15.
- Schweitzer, Erich, to Markel Electric Products, Inc. Machine for playing disk-type phonograph records. 2,790,644, 4-30-57, Cl. 274-10.
- Schweitzer, Fred J. Liquid level gauge. 2,807,960, 10-1-57, Cl. 73-322.
- Schweitzer, Howard V.: *See*—
Verba, Richard J., and Schweitzer. 2,787,979.
- Schweitzer & Hussmann: *See*—
Schweitzer, Paul H. 2,815,993.
- Schweitzer, Nicholas C. Currency holder. 2,779,461, 1-29-57, Cl. 206-37.
- Schweitzer, Paul H. Tandem engine compressor. 2,812,894, 11-12-57, Cl. 230-56.
- Schweitzer, Paul H., to Schweitzer & Hussmann. Piston and connecting rod assembly for internal combustion engines. 2,815,993, 12-10-57, Cl. 309-19.
- Schweitzer, Peter J., Inc.: *See*—
Marogg, Richard. 2,801,501.
- Schweitzer, Pierre, and G. Rapp, to Ultimo Mfg. Corp. Hair drying device. 2,782,527, 2-26-57, Cl. 34-99.
- Schweitzer, William K., Jr.: *See*—
Dickerson, Richard T., Jr., and Schweitzer. 2,796,446.
- Schweitzer, William V., to The American Hardware Corp. Door lock. 2,797,949, 7-2-57, Cl. 292-169.
- Schweizer, August, to Saul & Co., as nominee of Fidelity Union Trust Co. Trisazo dyestuffs of the stilbene series. 2,783,223, 2-26-57, Cl. 260-145.
- Schweizer, Richard W.: *See*—
Raphael, Thomas, and Schweizer. 2,810,775.
- Schweizer, Walter. Foldable deck chair. 2,778,407, 1-22-57, Cl. 155-105.
- Schweizerische Industrie-Gesellschaft: *See*—
Haldimann, Hans-Rudolf. 2,799,418.
- Schweizerische Lokomotiv- und Maschinenfabrik: *See*—
Meyer, Ernst. 2,787,164.
- Schweller, Edmund F.: *See*—
Gaugler, Richard S., and Schweller. 2,779,066.
- Schweller, Edmund F., to General Motors Corp. Freezing device. 2,778,201, 1-22-57, Cl. 62-108.5.
- Schweller, Edmund F., to General Motors Corp. Method of brazing corrugated fins to flat tubing. 2,794,243, 6-4-57, Cl. 29-472.3.
- Schweller, Edmund F., and E. C. Robbins, to General Motors Corp. Ice tray flexing device in a refrigerator door. 2,785,538, 3-19-57, Cl. 62-106.
- Schwelein, Paul. Hose nozzle. 2,801,882, 8-6-57, Cl. 299-136.
- Schwencke, Edmund H., to Elastomer Chemical Corp. Plasticizing vinyl resins. 2,779,743, 1-29-57, Cl. 260-23.
- Schwend, Fred N.: *See*—
Clary, Hugh L., and Schwend. 2,809,610.
- Schwendler, Frederick C., and A. D. Schultz, to Eaton Mfg. Co. Closure. 2,797,016, 6-25-57, Cl. 220-40.
- Schwengel, Harold W., to Modern Equipment Co. Apparatus for melting iron in a cupola. 2,817,508, 12-24-57, Cl. 266-30.
- Schwenk, Bernard E. Belt adjuster. 2,788,883, 4-16-57, Cl. 198-208.
- Schwenk, Gustav H., and H. G. Schwarz, to The Art Electrotype Co. Composing board. 2,796,675, 6-25-57, Cl. 33-184.5.
- Schwenk, Joseph, to Brown & Bigelow. Two-way billfold. 2,796,904, 6-25-57, Cl. 150-38.
- Schwenker, Eric H.: *See*—
Clark, Adna R., and Schwenker. 2,776,546.
- Schwenkler, Norbert H., to Patent License Corp. Reading light for aircraft. 2,782,295, 2-19-57, Cl. 240-7.35.
- Schwennessen, Donald O., to Essex Wire Corp. Electrical winding. 2,782,283, 2-19-57, Cl. 200-113.
- Schwenninger, Ernest N., and J. H. Hoffman. Tensiometer. 2,807,162, 8-24-57, Cl. 73-143.
- Schweppé, Ernst, to Hein. Lehmann & Co. Aktiengesellschaft. Centrifugal machine for extracting solids from liquids. 2,802,574, 8-13-57, Cl. 210-369.
- Schwerak, Joseph J. Window sash guide structure. 2,776,458, 1-8-57, Cl. 20-12.
- Schwerdhofer, Hans J. Shift device. 2,785,586, 3-19-57, Cl. 74-489.
- Schwerin, Andre K. Apparatus for photogravure and similar printing. 2,788,743, 4-16-57, Cl. 101-382.
- Schwerin, Andre K., to G. Lemaec-Vigneau. Color radiography process. 2,807,725, 9-24-57, Cl. 250-65.
- Schwerke, Robert E., to Minneapolis-Honeywell Regulator Co. Toggle switches. 2,795,667, 6-11-57, Cl. 200-67.
- Schwerzler, Charles F. Method of machine-making lace having variegated color pattern. 2,782,485, 2-26-57, Cl. 28-76.
- Schwieg, Frederic P., and A. Hansen, Jr., to General Electric Co. Electrical temperature measuring apparatus. 2,777,326, 1-15-57, Cl. 73-362.
- Schwiebacher, Georges, to Schneto A.-G. Apparatus for the development of photographic copies. 2,790,363, 4-30-57, Cl. 95-89.
- Schwieters, Clarence R.: *See*—
Pearson, Frank A., Schwieters, and Rambo. 2,815,410.
- Schwill, Albert & Co.: *See*—
Nelligan, Thomas P. 2,792,644.
- Schwing, Friedrich W. Rotary tower crane. 2,786,584, 3-26-57, Cl. 212-144.
- Schwing, Russell L., to Thermal Mfg. Co. Clip. 2,718,068, 12-17-57, Cl. 339-221.
- Schwork, Stanley. All purpose adjustable cutter. 2,789,642, 4-23-57, Cl. 164-44.
- Schwyzer, Robert, to Ciba Pharmaceutical Products, Inc. Acylmercapto-alkylamines and process for the manufacture thereof. 2,785,191, 3-12-57, Cl. 260-455.
- Schwyzer, Robert, to Ciba Pharmaceutical Products, Inc. Process for acylating. 2,786,048, 3-19-57, Cl. 260-112.
- Schwyzer, Robert, to Ciba Pharmaceutical Products, Inc. Process for the manufacture of aminoacyl compounds. 2,788,341, 4-9-57, Cl. 260-112.
- Schymik, Walter H., to I-T-E Circuit Breaker Co. Weather and pressure-tight enclosure for isolated phase bus bar. 2,783,299, 2-26-57, Cl. 174-99.
- Schymik, Walter H., to I-T-E Circuit Breaker Co. Isolated phase bus. 2,796,459, 6-18-57, Cl. 174-99.
- Sciaky, David, and J. L. Solomon, to Welding Research, Inc. Sequence timer. 2,813,199, 11-12-57, Cl. 250-27.
- Sciarinno, Anthony J.: *See*—
Zanichkowsky, Martin, and Sciarinno. 2,808,482.
- Sciascia, Matthew: *See*—
Farber, Eduard, and Sciascia. 2,813,846.

Scientific and Industrial Research: *See—*

Bradfield, Geoffrey. 2,806,328.

Scientific Industries, Inc.: *See—*

Kapselsohn, Leon. 2,792,834.

Scigliano, Joseph J., and D. B. Kellom, to The Dow Chemical Co. Utilization of by-products from manufacture of 2,5-dimethylpiperazine. 2,810,722, 10-22-57, Cl. 260-268.

Scinta, Anthony C.: *See—*

Oishi, John R., Bitzer, and Scinta. 2,802,232.

Scinta, Anthony C., to Trico Products Corp. Windshield wiper. 2,792,685, 5-21-57, Cl. 15-245.

Scinta, Anthony C., to Trico Products Corp. Windshield wiper blade. 2,801,436, 8-6-57, Cl. 15-245.

Scinta, Anthony C., to Trico Products Corp. Windshield wiper. 2,807,821, 10-1-57, Cl. 15-245.

Scinta, Anthony C., to Trico Products Corp. Windshield cleaner. 2,807,822, 10-1-57, Cl. 15-250.

Scinta, Anthony C., and A. Rappl, deceased (by The Marine Trust Co. of Buffalo, executor); said Scinta and Rappl assors. to Trico Products Corp. Windshield cleaner. 2,780,824, 2-12-57, Cl. 15-245.

Scintilla Ltd.: *See—*

Buchmann, Albin. 2,808,479.

Sciscione, Philip E., Scheuermeyer, and P. H. Shavney, to General Electric Co. Electric switch. 2,807,681, 9-24-57, Cl. 200-48.

Scisorek, Martin D. Insert for drinking straws and method of making the same. 2,812,257, 11-5-57, Cl. 99-138.

Sciurba, Joseph. Hypodermic syringe. 2,799,271, 7-16-57, Cl. 128-218.

Scivally, Bernice M. Well scraping apparatus. 2,804,152, 8-27-57, Cl. 166-173.

Scoby, Frank L. Cargo container and vehicle. 2,808,289, 10-1-57, Cl. 296-35.

Scolari, Antonio. Infra-red roaster for coffee. 2,795,181, 6-11-57, Cl. 99-236.

Scorgie, Donald G. Phase sensitive detector for multiple operation of alternating current generators. 2,813,985, 11-19-57, Cl. 307-57.

Scorgie, Donald G., to the United States of America as represented by the Secretary of the Navy. Regulated D. C. power supply. 2,816,260, 12-10-57, Cl. 321-18.

Scotland Mills, Inc.: *See—*

Morgan, Edwin, and Sippel. 2,808,855.

Morgan, Edwin, and Sippel. 2,809,669.

Scott, Alan D., to Lever Brothers Co. Detergent compositions containing acyl diacydiamide tarnish inhibitors. 2,813,831, 11-19-57, Cl. 252-137.

Scott, Alexander: *See—*

Quinn, Neville R. L., Blackwell, and Scott. 2,814,512.

Scott, Alton: *See—*

Davis, William E., and A. and O. W. Scott. 2,786,585.

Scott, Arthur D. Fashion previewing and projection apparatus. 2,808,757, 10-8-57, Cl. 88-24.

Scott, Arthur L., to American Brake Shoe Co. Apparatus for dry pressing flower pot. 2,789,332, 4-23-57, Cl. 25-27.

Scott, Arthur L., to American Brake Shoe Co. Method and apparatus for ornamenting ceramic ware. 2,810,976, 10-29-57, Cl. 41-1.

Scott Aviation Corp.: *See—*

Benzel, Howard A. 2,790,454.

Scott, Carleton B.: *See—*

Ch'in, Norman C.-H. 2,816,145.

Schaeffer, William D., and Scott. 2,793,240.

Scott, Carleton B., to Union Oil Co. of California. Process for preparing phosphonic acid esters. 2,793,225, 5-21-57, Cl. 260-461.

Scott, Carleton B., to Union Oil Co. of California. Reaction of a lactone and a phosphorous compound and products. 2,806,050, 9-10-57, Cl. 260-461.

Scott, Carleton B., W. D. Schaeffer, and J. D. Wordie, to Union Oil Co. of California. Separation of alkyl aromatic hydrocarbons with an aluminum halide and a group I or II metal halide. 2,810,002, 10-15-57, Cl. 260-674.

Scott, Cecil D. Pin tumbler lock mechanism. 2,783,636, 3-5-57, Cl. 70-347.

Scott, Charles L., and J. C. Klinck. Self-attending depending fire hose. 2,793,701, 5-28-57, Cl. 169-2.

Scott, Charles L., and T. N. Humphreville, to Westinghouse Electric Corp. Lighting system. 2,797,367, 6-25-57, Cl. 315-162.

Scott, Clarence R., and M. McClean. Hollow oil dip stick. 2,782,514, 2-26-57, Cl. 33-126.4.

Scott, Clayton E., to The Michigan Tool Co. Automatic parts orienter and loader. 2,808,141, 10-1-57, Cl. 193-43.

Scott, David J., to Walter Scott & Co., Inc. Web roll splicing mechanism. 2,779,546, 1-29-57, Cl. 242-58.

Scott, Delmer D., to Nethercutt Laboratories. Multiple spraying apparatus. 2,781,020, 2-12-57, Cl. 118-6.

Scott, Delmer D., to Nethercutt Laboratories. Stacking machine. 2,782,942, 2-26-57, Cl. 214-6.

Scott, Elmer P. Device for drying wet hair. 2,804,695, 9-3-57, Cl. 34-95.

Scott, Emmitt Y., 25% to E. H. Youngblood. Fishing device. 2,817,182, 12-24-57, Cl. 43-84.

Scott & Fetzer Co., The: *See—*

Pitmann, Fred H. 2,812,987.

Pardee, Lloyd W. 2,785,431.

Scott, Frithjof A.: *See—*

Henderson, John A., Lewis, and Scott. 2,815,113.

Scott, Harlan B. Work horse. 2,794,688, 6-4-57, Cl. 304-5.

Scott, Harold E. B., to Vickers Ltd. Vortex separators. 2,796,808, 6-25-57, Cl. 92-28.

Scott, Harold E. B. Vortex type separators. 2,799,208, 7-16-57, Cl. 92-28.

Scott, Harry J.: *See—*

Barr, Robert M., and Scott. 2,784,735.

Scott, Henry L.: *See—*

Copenhefer, John B., and Scott. 2,785,958.

Scott, Herman F. Crib cover. 2,781,523, 2-19-57, Cl. 5-3.

Scott, James A., to United States Steel Corp. Method and apparatus for quenching pipe. 2,776,230, 1-1-57, Cl. 148-215.5.

Scott, James G. Multi-temperature refrigerator. 2,787,132, 4-2-57, Cl. 62-103.

Scott, John B., to Phillips Petroleum Co. Process for the manufacture of crystals of uniform size. 2,801,907, 8-6-57, Cl. 23-295.

Scott, John F., to Proctor & Schwartz, Inc. Onion drying apparatus and method. 2,799,096, 7-16-57, Cl. 34-31.

Scott, John H. Separating apparatus for hatching brine shrimp. 2,804,045, 8-27-57, Cl. 119-2.

Scott, John R. Surgical appliance. 2,811,971, 11-5-57, Cl. 128-335.

Scott, John W.: *See—*

Bremer, Harris B., Lane, Scott, and Peterson. 2,813,692.

Dorsey, Charley D., and Scott. 2,790,455.

Scott, John W., Jr., to California Research Corp. Underground shale retorting process. 2,801,089, 7-30-57, Cl. 262-1.

Scott, John W., Jr., and F. M. Hazard, Jr., to California Research Corp. Adsorption separation process. 2,797,190, 6-25-57, Cl. 196-147.

Scott, Kenneth H. Meat cleaning machine with brush scraper. 2,799,877, 7-23-57, Cl. 15-3.1.

Scott, Larkin B.: *See—*

Scott, Roderic M. and L. B. 2,792,742.

Siegler, E. Horace, Jr., and Scott. 2,817,769.

Scott, Lawrence B.: *See—*

Bonti, Arnold A., and Scott. 2,800,453.

Williams, Paul H., Scott, and Borsoff. 2,780,597.

Scott, Leslie L. Water purification device. 2,808,154, 10-1-57, Cl. 210-266.

Scott, Milton J.: *See—*

Rossin, Elmer H., and Scott. 2,816,004.

Scott, Milton J., and A. E. Peacock, to Monsanto Chemical Co. Copolymers of vinyl acetate and ethylenically unsaturated carboxylic compound having at least one carboxyl group, compositions prepared from said copolymers and sizing of textile yarns with said compositions. 2,806,020, 9-10-57, Cl. 260-85.7.

Scott, Noel W., to the United States of America as represented by the Secretary of the Navy. Method of producing electrically conducting transparent coatings on optical surfaces. 2,799,600, 7-16-57, Cl. 117-211.

Scott, Oliver W.: *See—*

Davis, William E., and A. and O. W. Scott. 2,786,585.

Scott, Orin W., to Beech Aircraft Corp. Hydraulic control full feathering propeller. 2,807,327, 9-24-57, Cl. 170-160.32.

Scott, Ozbert M. Portable sawmill having horizontal and vertical saws. 2,800,932, 7-30-57, Cl. 143-38.

Scott, Pete J., to said P. J. Scott and R. W. Hyde, Jr. Car parking tower. 2,787,387, 4-2-57, Cl. 214-16.1.

Scott, Platho P., Jr.: *See—*

Howard, George C., and Scott. 2,801,077.

Scott, Ray W. Automatic winding mechanism. 2,813,345, 11-19-57, Cl. 33-132.

Scott, Raymond. Indexing and selector device for magnetic tape recorders. 2,779,826, 1-29-57, Cl. 179-100.2.

Scott, Raymond. Magnetic recording head mounting apparatus. 2,783,311, 2-26-57, Cl. 179-100.2.

Scott, Raymond E.: *See—*

MacIntyre, Ronald, and Scott. 2,785,142.

Scott, Raymond E., and R. G. Towle, to Specialties Development Corp. Network for detecting the failure of the insulation of electrically conductive cables. 2,792,568, 5-14-57, Cl. 340-255.

Scott, Reed B.: *See—*

Christensen, Edwin V., and Scott. 2,802,648.

Scott, Robert W.: *See—*

Oathout, John D., and Scott. 2,783,156.

Scott, Roderic M. and L. B., to The Perkin-Elmer Corp. Apparatus for the measurement of angle. 2,792,742, 5-21-57, Cl. 88-2.3.

Scott, Ronald E.: *See—*

Fine, Samuel, and Scott. 2,791,751.

Scott, Thomas R., to International Standard Electric Corp. Electric cables. 2,799,608, 7-16-57, Cl. 154-2.25.

Scott, Vernon B.: *See—*

Jahn, Charles B., and Scott. 2,781,864.

Peters, Clifford M., and Scott. 2,800,138.

Scott, Walter, & Co., Inc.: *See—*

Scott, David J. 2,779,546.

Scott, Willard R., and B. L. Garner, to California Research Corp. Corrosion inhibiting method and composition. 2,785,126, 3-12-57, Cl. 252-8.55.

Scott, William F.: *See—*

Smith, Thomas R., and Scott. 2,777,314.

Scott, William H. Automatic air snubber for network mechanism. 2,781,801, 2-19-57, Cl. 143-120.

- Scott, William J., to The British Thomson-Houston Co. Ltd. Electric discharge devices. 2,803,783, 8-20-57, Cl. 315-41.
- Scott, William J., to General Electric Co. Concentric type electrode. 2,813,226, 11-12-57, Cl. 315-58.
- Scott & Williams, Inc.: *See*—
- Lawson, Robert H. 2,783,629.
- Lawson, Robert H. 2,783,630.
- Lawson, Robert H. 2,797,566.
- Lawson, Robert H., and Bristow. 2,780,931.
- Lawson, Robert H., and Shelmire. 2,812,569.
- McDonough, John J. 2,809,508.
- Scottish Oils Ltd.: *See*—
- Stewart, Daniel. 2,787,594.
- Stewart, Daniel. 2,787,596.
- Scotty, Clarence B.: *See*—
- Loofbourrow, Robert J., Stelzer, and Scotty. 2,795,377.
- Scotty, Clarence B., to The Texas Co. Drilling fluid. 2,789,949, 4-23-57, Cl. 252-8.5.
- Scovill Mfg. Co.: *See*—
- Aitchison, Frederick J. 2,804,092.
- Barlow, William H. 2,816,274.
- Brieche, Joseph. 2,807,332.
- Carpinella, Michael J. 2,800,697.
- Fenton, Paul E. 2,817,134.
- Firing, Osborne. 2,816,648.
- Harris, William H., and Heyworth. 2,817,135.
- Kilmarx, Louis E., Jr. 2,813,568.
- Passaggio, Charles. 2,815,042.
- Reutter, Philip A. 2,803,218.
- Richards, Archer W., and Meyers. 2,780,267.
- Root, Le Roy. 2,797,839.
- Seaver, Donald A. 2,817,349.
- Seyfried, Arthur W. 2,797,901.
- Seyfried, Arthur W. 2,798,176.
- Seyfried, Arthur W., and Lahr. 2,815,194.
- Stoughton, Hooker. 2,778,082.
- Treciakas, Jacob P. 2,786,203.
- Williams, Selden T. 2,813,567.
- Williams, Selden T., and Hermann. 2,780,243.
- Wood, Harry A. 2,792,260.
- Scovill, Warner E., and J. G. Partch, to The Standard Oil Co. Odorless solvent and method of making same. 2,799,718, 7-16-57, Cl. 260-683.4.
- Scovronek, Joseph, to Owens-Illinois Glass Co. Insulation for piping. 2,788,304, 4-9-57, Cl. 154-44.
- Scowcroft, Edwin. Feeding mechanism for carding engines. 2,817,120, 12-24-57, Cl. 19-105.
- Scozzafava, Milton V.: *See*—
- Busch, Richard E., and Scozzafava. 2,796,270.
- Scrapp, Ernest & Sons Ltd.: *See*—
- Findlow, Eric. 2,780,049.
- Screen Engineering Co.: *See*—
- Eichorn, Adrian. 2,801,919.
- Screws, Marvin V.: *See*—
- Waide, Robert L. 2,804,394.
- Scribner, Kenneth R.: *See*—
- Blair, Raymond H., Pertsch, and Scribner. 2,805,623.
- Scripto, Inc.: *See*—
- Coffield, Eugene P., Jr., Sams, and Woodward. 2,777,422.
- Keller, Eugene L. 2,811,945.
- Lovejoy, Charles K. 2,778,337.
- Sams, Herbert W. 2,800,883.
- Sams, Herbert W. 2,804,048.
- Sams, Herbert W. 2,804,049.
- Smith, Blanchard D. 2,779,179.
- Smith, Blanchard D. 2,800,880.
- Smith, Blanchard D. 2,800,882.
- Smith, Blanchard D. 2,818,045.
- Scriptomatic, Inc.: *See*—
- Federwitz, Theodore A. 2,814,248.
- Scripture, Edward W., Jr., to American-Marietta Co. Hydraulic cement compositions containing air detaining agents and methods of using same. 2,776,901, 1-8-57, Cl. 106-90.
- Scripture, Edward W., Jr., to American-Marietta Co. Hydraulic cement compositions containing air detaining agents and methods of using same. 2,776,902, 1-8-57, Cl. 106-90.
- Scripture, Edward W., Jr., to American-Marietta Co. Hydraulic cement compositions containing air detaining agents and methods of making same. 2,776,903, 1-8-57, Cl. 106-90.
- Scriven, Richard M.: *See*—
- Boron, Eugene F., Yost, Scriven, and Gorga. 2,789,151.
- Boron, Eugene F., Yost, Scriven, and Gorga. 2,805,270.
- Scriven, Richard M., to Mallory-Sharon Titanium Corp. Induction furnace control and method. 2,780,666, 2-5-57, Cl. 13-26.
- Scroggins, Philip. Window hinge. 2,794,208, 6-4-57, Cl. 16-171.
- Scrubby, Charles C. Time-controlled electric switch. 2,801,306, 7-30-57, Cl. 200-35.
- Scruggs, Joseph A., to Shell Development Co. Tank spraying apparatus. 2,800,366, 7-23-57, Cl. 299-62.
- Scudi, John V., L. E. Tenenbaum, and G. F. Grail, to Nepera Chemical Co., Inc. Tetra-alkyl-substituted diamine compounds. 2,788,371, 4-9-57, Cl. 260-583.
- Scudi, John V., B. F. Duesel, and G. Mayurnik, to Warner-Lambert Pharmaceutical Co. Process for producing cyanopyridine carboxamide. 2,789,980, 4-23-57, Cl. 260-294.9.
- Scuitto, Thomas J.: *See*—
- Rosenberg, Jack, Brewer, and Scuitto. 2,817,775.
- Scully, John F., and R. J. La Manna, to Monroe Calculating Machine Co. Playback circuit. 2,813,261, 11-12-57, Cl. 340-174.
- Scully, John J. Portable radar training units. 2,799,950, 7-23-57, Cl. 35-10.4.
- Scully, John T. Self-retaining brush. 2,799,036, 7-16-57, Cl. 15-143.
- Scully-Jones and Co.: *See*—
- Better, Bernard R., and Lehde. 2,791,304.
- Scully Rubber Mfg. Co., Inc.: *See*—
- Schulhoff, Saul. 2,807,303.
- Scully Signal Co.: *See*—
- Rowell, William G. 2,797,745.
- Rowell, William G. 2,798,213.
- Rowell, William G. 2,807,008.
- Rowell, William G. 2,807,009.
- Rowell, William G. 2,807,010.
- Rowell, William G. 2,807,011.
- Young, Robert G., Jr. 2,778,390.
- Scutt, Edwin D., to Leeds and Northrup Co. Control system for vapor generators. 2,784,912, 3-12-57, Cl. 236-14.
- Scutt, Francis E., to Bendix Aviation Corp. Starting switch. 2,799,745, 7-16-57, Cl. 200-82.
- Seaboard Electric Co.: *See*—
- Van Eyk, Christiaan J. 2,797,409.
- Seaborg, Glenn T.: *See*—
- Thompson, Stanley G., and Seaborg. 2,785,951.
- Thompson, Stanley G., and Seaborg. 2,799,553.
- Werner, Louis B., Fries, and Seaborg. 2,776,185.
- Seaborg, Glenn T., to the United States of America as represented by the United States Atomic Energy Commission. Extraction method for separating uranium, plutonium and fission products from compositions containing same. 2,811,415, 10-29-57, Cl. 23-14.5.
- Seabra, Paulo, to Souza, Seabra & Cia. Ltda. Anti-rheumatic mixture and method of preparing. 2,790,746, 4-30-57, Cl. 167-64.
- Seabrook, Chancy S.: *See*—
- Gargathy, Cecil J., Kennedy, and Seabrook. 2,798,800.
- Seabrooke, Milton R. Bead package. 2,816,656, 12-17-57, Cl. 206-65.
- Seaburg, Hugo W.: *See*—
- Goodemote, George H., and Seaburg. 2,787,348.
- Seabury, Frank, II: *See*—
- Crowell, Ernest M., and Seabury. 2,799,034.
- Seabury, Frank, II, and R. W. Bradley, to United Shoe Machinery Corp. Presses for cutting blanks from sheet material. 2,788,070, 4-9-57, Cl. 164-23.
- Seale, Homer T. Leveling valve arrangement for pneumatic spring suspension. 2,784,978, 3-12-57, Cl. 280-6.
- Sealed Power Corp.: *See*—
- Davis, Lewis M. 2,785,029.
- Meyers, Harold N. 2,781,564.
- Myers, Harold N. 2,797,459.
- Olson, Holly M. 2,785,028.
- Olson, Holly M. 2,785,030.
- Olson, Holly M. 2,789,022.
- Olson, Holly M. 2,789,872.
- Olson, Holly M. 2,809,081.
- Sealey, William C., to Allis-Chalmers Mfg. Co. Load tap changing circuit. 2,780,768, 2-5-57, Cl. 323-43.5.
- Sealey, William C., to Allis-Chalmers Mfg. Co. Voltage control system having solenoid operated ratchet mechanism and thermal time delay switch. 2,784,368, 3-5-57, Cl. 323-43.5.
- Sealey, William C., to Allis-Chalmers Mfg. Co. Fluid cooled apparatus with natural and forced cooling. 2,794,625, 6-4-57, Cl. 257-191.
- Sealol Corp.: *See*—
- Greiner, Harold F. 2,818,285.
- Stevens, Justus B. 2,818,284.
- Seal-O-Matic, Inc.: *See*—
- Martin, Frank J. 2,782,610.
- Sealpak Corp.: *See*—
- Rodth, Joseph J. 2,778,739.
- Seal-Press Inc.: *See*—
- Williams, William A. 2,777,588.
- Seals, Stokley G. Lawn edger. 2,814,875, 12-3-57, Cl. 30-315.
- Seal-Sac Inc.: *See*—
- Mintz, Jacob J. 2,793,742.
- Seal-Spout Corp.: *See*—
- Klausmann, Milton H. 2,778,546.
- Sealzit Co. of America: *See*—
- Barrett, Francis E. 2,813,751.
- Seaman-Andwall Corp.: *See*—
- Seaman, Harry J. 2,802,408.
- Seaman, Blair C.: *See*—
- Hutchins, Charles C., and Seaman. 2,779,907.
- Hutchins, Charles C., and Seaman. 2,818,540.
- Seaman, Edward L., to S. & W. Sewing Machine Attachment Co. Electrical switching means for use with sewing machines. 2,787,677, 4-2-57, Cl. 200-52.
- Seaman, Harry J., to Seaman-Andwall Corp. Rotary material-working implements. 2,802,408, 8-13-57, Cl. 57-216.
- Seamans, James O., to Western Electric Co., Inc. Protective shield for providing an impedance match between a radar feed and its parabolic reflector. 2,803,009, 8-13-57, Cl. 343-782.

- Seamark, Lewis M. C. Internal and segmented external pipe coupling sleeves with fluid pressure seal. 2,814,508, 11-26-57, Cl. 285-95.
- Seamless Rubber Co., The: *See*—
Crowley, Cornelius J. 2,789,821.
- Seamon, Louis, to Patent Management Corp. Pass case. 2,802,502, 8-13-57, Cl. 150-39.
- Seantor, Rex C., to Adamson United Co. Heat exchange roll or drum. 2,783,977, 3-5-57, Cl. 257-85.
- Seaplant Chemical Corp.: *See*—
Stoloff, Leonard S. 2,801,923.
- Seaquist Mfg. Corp.: *See*—
McKernan, Edward J. 2,794,579.
McKernan, Edward J. 2,797,965.
- Searcy, Richard I.: *See*—
Smith, Vernon C., and Searcy. 2,785,293.
- Seargeant, William A. Junction transistor superregenerative receiver. 2,789,214, 4-16-57, Cl. 250-20.
- Searle, Charles E.: *See*—
Rimington, Claude, Lawson, Searle, and Morley. 2,815,349.
- Searle, G. D., & Co.: *See*—
Bible, Roy H., Jr., and Hoehn. 2,796,431.
Burtner, Robert R. 2,784,195.
Burtner, Robert R. 2,785,172.
Burtner, Robert R. 2,785,173.
Burtner, Robert R. 2,802,008.
Burtner, Robert R. 2,811,526.
Colton, Frank B. 2,782,213.
Colton, Frank B. 2,802,015.
Colton, Frank B., and Strojny. 2,813,109.
Colton, Frank B., and Strojny. 2,813,110.
Cusic, John W. 2,776,282.
Cusic, John W. 2,782,199.
Cusic, John W. 2,785,166.
Cusic, John W. 2,794,810.
Cusic, John W., Lowrie, and Sause. 2,787,617.
Cusic, John W., and Robinson. 2,776,299.
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Cusic, John W. and Zimmermann. 2,776,971.
Dodson, Raymond M. 2,776,978.
Dodson, Raymond M. 2,784,234.
Dodson, Raymond M. 2,794,815.
Dodson, Raymond M. 2,802,013.
Dodson, Raymond M. 2,808,399.
Dodson, Raymond M. 2,812,330.
Dodson, Raymond M., and Muir. 2,805,231.
Dodson, Raymond M., and Sollman. 2,806,041.
Dodson, Raymond M., and Sollman. 2,806,042.
- Fish, Charles A., Hayans, and Pincus. 2,797,186.
- Hoehn, Willard M. 2,781,394.
Hoehn, Willard M. 2,784,211.
Hoehn, Willard M. 2,805,255.
Hoehn, Willard M. 2,816,907.
Jacobsen, Robert P. 2,781,400.
Jacobsen, Robert P. 2,781,401.
Jenkins, William W. 2,776,300.
Jenkins, William W. 2,797,227.
Jordt, Robert C. 2,776,034.
Mazur, Robert H. 2,806,028.
Mazur, Robert H. 2,806,029.
Mazur, Robert H. 2,812,335.
Mazur, Robert H. 2,817,671.
Nysted, Leonard N. 2,813,094.
Picha, George M. 2,806,038.
Ralls, Jack W. 2,778,841.
Ralls, Jack W. 2,797,229.
Ralls, Jack W., and Bergstrom. 2,793,207.
Robinson, Richard A. 2,800,475.
Rorig, Kurt J. 2,776,283.
Rorig, Kurt J. 2,782,234.
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Rorig, Kurt J. 2,815,363.
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Voegtli, Walter. 2,793,210.
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- Searle, George H.: *See*—
Stonestreet, George A., and Searle. 2,779,357.
- Searle, Norman E.: *See*—
Heckert, Richard E., and Searle. 2,781,393.
- Searles, Edward, to Southern United Telephone Cables Ltd. Means for recording the readings of an instrument or group of instruments. 2,818,821, 12-31-57, Cl. 346-34.
- Searles, William G., to Sperry Rand Corp. Conveying mechanism. 2,792,937, 5-21-57, Cl. 209-72.
- Sears, Charles. Polyphase electric circuit protective device. 2,777,918, 1-15-57, Cl. 200-118.
- Sears, Clarence E., to Ingersoll-Rand Co. Collar for drill steels. 2,794,661, 6-4-57, Cl. 287-85.
- Sears, Daniel S.: *See*—
Newton, Edwin B., and Sears. 2,799,155.
Newton, Edwin B., and Sears. 2,807,600.
- Sears, Gerald W., to General Electric Co. High strength crystals. 2,813,811, 11-19-57, Cl. 148-1.6.
- Sears, Richard E., to Beaver Precision Products, Inc. Wiper for screw threads. 2,793,538, 5-28-57, Cl. 74-459.
- Sears, Richard N., to Bates Shoe Co. Skeleton-lined shoe, with attaching strip for its upper. 2,815,589, 12-10-57, Cl. 36-14.
- Sears, Roebuck and Co.: *See*—
Aasland, Byron T., Bloom, Zink, and Bush. 2,788,858.
Anderson, Floyd W. 2,797,627.
Bloom, Merle W., and Phillips. 2,815,704.
Chesser, Cecil E. 2,798,785.
Chesser, Cecil E. 2,800,128.
Colliander, Carl T. 2,817,917.
Golden, Harry H. 2,784,302.
Heal, Millard F., and Angell. 2,798,615.
McCarran, Thomas A. 2,812,559.
Toht, Arthur E. 2,788,215.
Webster, John V., and Aasland. 2,797,542.
- Sears, Vernon F., to United States Plywood Corp. Construction material and securing means therefor. 2,814,840, 12-3-57, Cl. 20-15.
- Sears, William B. Toy aircraft. 2,814,907, 12-3-57, Cl. 46-78.
- Searly, Eugene G., and M. F. Michelbach. Printing roll. 2,814,855, 12-3-57, Cl. 29-123.
- Seastrom Mfg. Co.: *See*—
Seastrom, Wensil H. 2,779,590.
- Seastrom, Wensil H., to Seastrom Mfg. Co. Punch press feeding mechanism. 2,779,590, 1-29-57, Cl. 271-2.5.
- Seaton, Billy B. Auxiliary container closing cap. 2,805,812, 9-10-57, Cl. 229-43.
- Seaton, William H., to Monsanto Chemical Co. Sulfonation with sulfur trioxide. 2,782,230, 2-19-57, Cl. 260-505.
- Seaver, Donald A., to Scovill Mfg. Co. Safety device for fire valves. 2,817,349, 12-24-57, Cl. 137-75.
- Seavey, Gordon C.: *See*—
Horsley, Caperton B., and Seavey. 2,800,228.
- Seavey, Gordon C., to Sonic Research Corp. Automatic current controller. 2,813,181, 11-12-57, Cl. 201-51.
- Seaview Industries, Inc.: *See*—
Wells, Henry C. 2,780,848.
- Seawell, Joseph T., to Cocker Machine and Foundry Co. Fluid treating apparatus. 2,795,839, 6-18-57, Cl. 28-23.
- Seay, Cecil B., and C. M. Franks. Door check and closer. 2,797,117, 6-25-57, Cl. 292-77.
- Seay, Jesse M. Hydraulic speed control for motor vehicles. 2,810,461, 10-22-57, Cl. 192-3.
- Sebac Nouvelle S. A.: *See*—
Coanda, Henri. 2,796,147.
- Sebad, Joseph F., to Worthington Corp. Multi-stage vacuum degasifier. 2,792,904, 5-21-57, Cl. 183-2.5.
- Se Bastian, Ford, to Harry Wiggins Mfg. Co. Hermetically sealed snap switches. 2,806,114, 9-10-57, Cl. 200-168.
- Se Bastian, Ford, to Midwest Controls Co. Hermetically sealed rotary type electric switches. 2,817,736, 12-24-57, Cl. 200-168.
- Sebok, Albert L., to The Hoover Co. Electric irons. 2,814,136, 11-26-57, Cl. 38-90.
- Sebok, Frank: *See*—
Sebok, Joseph B., and F. 2,781,032.
- Sebok, Joseph B., to Houdaille Industries, Inc. Combination intake silencer and carburetor. Re. 2,4341, 7-30-57, Cl. 183-15.
- Sebok, Joseph B., to Houdaille Industries, Inc. Air cleaner with dual air intake. 2,783,086, 4-9-57, Cl. 183-44.
- Sebok, Joseph B., to Houdaille Industries, Inc. Damper retainer for air cleaning and intake silencing units. 2,789,840, 4-23-57, Cl. 285-158.
- Sebok, Joseph B., and F., to Houdaille Industries, Inc. Air cleaner assembly with temperature control. 2,781,032, 2-12-57, Cl. 123-122.
- Seborg, Earnest Y., to Barnes Drill Co. Honing machine. 2,795,089, 6-11-57, Cl. 51-184.3.
- Seborg, Earnest Y., to Barnes Drill Co. Honing machine with automatic gaging device. 2,797,531, 7-2-57, Cl. 51-34.
- Seborg, Earnest Y., and D. K. Greenberg, to Barnes Drill Co. Honing machine. 2,780,893, 2-12-57, Cl. 51-34.
- Sebree, Allen F., to Cleveland Rock Drill Division, Westinghouse Air Brake Co. Self releasable clutch. 2,802,557, 8-13-57, Cl. 192-56.
- Sebrill, Lorin B., to International Latex Corp. Method of making a hollow article from rubber sheeting and article made thereby. 2,810,129, 10-22-57, Cl. 2-37.
- Sebring, Paul B.: *See*—
Wood, Leon G. S., and Sebring. 2,791,756.
- Seck, Werner G.: *See*—
Daiger, George P., Gerber, and Seck. 2,781,103.
- Seck, Werner G., to The Hoover Co. Suction cleaning tool having resilient surface engaging fingers. 2,789,308, 4-23-57, Cl. 15-402.
- Seck, Werner G., to The Hoover Co. Steam iron. 2,793,349, 5-28-57, Cl. 38-77.
- Seck, Werner G., to The Hoover Co. Suction cleaner filter bags. 2,804,167, 8-27-57, Cl. 183-51.
- Seck, Werner G., and W. A. Humphrey, to The Hoover Co. Fill opening closure for steam iron. 2,811,793, 11-5-57, Cl. 38-77.
- Secor, Gerald: *See*—
Forrestal, Roger P., and Secor. 2,789,262.
- Secord, Lloyd C.: *See*—
Purvis, Joseph T., and Secord. 2,795,930.
Purvis, Joseph T., and Secord. 2,807,934.

- Secord, Lloyd C., to R. J. Thompson and P. B. Dilworth. Frame construction. 2,784,813, 3-12-57, Cl. 189-76.
- Secord, Robert N.: *See*—
Dingman, Robert W., Michel, Secord, and Schaeffer. 2,801,901.
- Secord, William L., Jr. Vibrating feeder. 2,789,733, 4-23-57, Cl. 222-185.
- Secotan, Inc.: *See*—
Ushakoff, Alexis E. 2,781,241.
Ushakoff, Alexis E. 2,803,889.
- Sectional Flooring Corp.: *See*—
Mondry, Leo. 2,807,057.
- Security Engineering Division, Dresser Operation, Inc.: *See*—
Swart, Kenneth H. 2,813,697.
- Security Sash & Screen Co.: *See*—
Van Fleet, Vincent, and Richards. 2,814,079.
- Security Trust Co.: *See*—
Segal, Harry L., and Miller. 2,791,533.
- Security Trust Co. of Rochester, New York: *See*—
Segal, Harry L., and Miller. 2,794,786.
- Seddon, John C. Resonant coupling circuit. 2,805,400, 9-3-57, Cl. 333-720.
- Sedgfield, Hugh B., A. H. Greenhalgh, A. P. Glenn, and F. Dove, to The Sperry Gyroscope Co. Ltd. Isogonal error detecting system including two reference devices providing positional data of the same character. 2,794,975, 6-4-57, Cl. 340-268.
- Sedlacsck, John. Electrostatic spraying apparatus. 2,782,074, 2-19-57, Cl. 299-140.
- Sedlacsck, John. Paint spray apparatus including insulated supply pipe. 2,784,350, 3-5-57, Cl. 317-3.
- Sedlmayr, Lorenz, $\frac{1}{2}$ to P. O. Tobeler, doing business under the name of Trans-Oceanic. Disk digger. 2,815,935, 12-10-57, Cl. 255-74.
- Sedlock, Robert P. Ring gauge protective device. 2,795,857, 6-18-57, Cl. 33-199.
- Sedwick, Gilbert M., to The Jeffrey Mfg. Co. Hand-held hydraulic drill. 2,813,517, 11-19-57, Cl. 121-34.
- See, Jacques L. A. Movable and folding barrier component forming a barbed wire entanglement for military and other purposes. 2,801,080, 7-30-57, Cl. 256-2.
- See, Jacques L. A. Removable and folding barrier element forming barbed wire entanglements for military and other purposes. 2,801,081, 7-30-57, Cl. 256-2.
- See, Theodore S., and H. A. Frommelt, to La Salle Steel Co. Milling cutters. 2,810,189, 10-22-57, Cl. 29-103.
- Seeburger, Harold O.: *See*—
Horsley, Lee H., and Seeburger. 2,815,343.
- Seed, Albert B., to The Garrett Corp. Cabin refrigeration system. 2,800,002, 7-23-57, Cl. 62-136.
- Seefelder, Matthias: *See*—
Pasedach, Heinrich, and Seefelder. 2,778,821.
Pasedach, Heinrich, and Seefelder. 2,778,830.
Pasedach, Heinrich, Seefelder, Spaenig, and Weickmann. 2,803,437.
- Seeger, Bernard I., to Boeing Airplane Co. Automatic control for airplane fuel tank vents operable during diving. 2,813,691, 11-19-57, Cl. 244-135.
- Seeger, Edwin W.: *See*—
Eck, Robert N., and Seeger. 2,806,967.
Eck, Robert N., and Seeger. 2,809,312.
- Seeger, Edwin W., to Cutler-Hammer, Inc. Enclosing casings for electrical control apparatus. 2,792,143, 5-14-57, Cl. 220-4.
- Seeger, Edwin W., to Cutler-Hammer, Inc. Electric switches. 2,797,275, 6-25-57, Cl. 200-67.
- Seeger, Edwin W., to Cutler-Hammer, Inc. Mechanical interlocks for plural electrical apparatus. 2,800,034, 7-23-57, Cl. 74-483.
- Seeger, Ernest E. Articulated fishing plug. 2,789,385, 4-23-57, Cl. 43-42.15.
- Seeger, Nelson V., and T. G. Mastin, to The Goodyear Tire & Rubber Co. Processable, storable, isocyanate-modified polyesters. 2,777,831, 1-15-57, Cl. 260-75.
- Seeger, Nelson V., and T. Mastin, to The Goodyear Tire & Rubber Co. Synthetic elastomeric isocyanate modified polymers and method for their preparation. 2,801,990, 8-6-57, Cl. 260-75.
- Seegers, Glen A., to Illinois Tool Works. Panel fastener. 2,817,131, 12-24-57, Cl. 24-73.
- Seegman, Irvin P.: *See*—
Gregory, George, and Seegman. 2,787,608.
- Seegmiller, Robert, to the United States of America as represented by the United States Atomic Energy Commission. Gold plating process. 2,801,960, 8-6-57, Cl. 204-46.
- Seel, Howard J., to Harris-Seybold Co. Sheet feeding and registering mechanism. 2,797,094, 6-25-57, Cl. 271-55.
- Seelen, Harry R., to Radio Corp. of America. Metal cones for cathode ray tubes. 2,817,456, 12-24-57, Cl. 220-23.
- Seelen, Petrus J. H., to N. V. P. F. van Vlissingen & Co's Katoenfabrieken. Strip tension regulating means. 2,793,033, 5-21-57, Cl. 271-23.
- Seeley, Dunham B., to Eureka Specialty Printing Co. Dispensing machine. 2,806,693, 9-17-57, Cl. 271-25.
- Seeley, Fannie L. Composition for treating knitted hosiery.
- Seeley, Harold T., to General Electric Co. Oscillator-type control circuit. 2,802,948, 8-13-57, Cl. 250-36.
- Seelhoff, Manley R.: *See*—
Schultz, Werner F., and Seelhoff. 2,785,568.
- Seelig, Herman S.: *See*—
Junk, William A., Jr., Schmidt, and Seelig. 2,800,427.
Junk, William A., Jr., Schmidt, Seelig, and Fleming. 2,780,582.
- Seelig, Herman S., and H. I. Weck, to Standard Oil Co. Synthesis of aromatic hydrocarbons. 2,815,357, 12-3-57, Cl. 260-449.
- Seelman, Edward: *See*—
Drobis, August H. 2,805,000.
- Seelmann, Blanche: *See*—
Drobis, August H. 2,785,629.
Drobis, August H. 2,805,000.
- Seelmann & Co.: *See*—
Drobis, August H. 2,785,629.
Drobis, August H. 2,805,000.
- Seelmann, Edward: *See*—
Drobis, August H. 2,785,629.
- Seeloff, Melvin M., and R. Anderson, to The Taylor-Winfield Corp. Actuating mechanism, particularly for strip welders. 2,794,111, 5-28-57, Cl. 219-97.
- Seely, Gordon F., to Chicago Pneumatic Tool Co. Rivet guide and pressure pad assembly. 2,797,596, 7-2-57, Cl. 78-52.
- Seely, James G. Burglar alarms. 2,791,763, 5-7-57, Cl. 340-274.
- Seely, Llewellyn M., to Super-Grip Anchor Bolt Co., Inc. Tubular, pronged reinforcing member for rock strata. 2,804,797, 9-3-57, Cl. 85-2.
- Seely, Richard E., to General Electric Co. Three phase dynamoelectric machine. 2,782,353, 2-19-57, Cl. 318-225.
- Seem, Warren A.: *See*—
Stoddard, Nicholas J., and Seem. 2,803,105.
Stoddard, Nicholas J., and Seem. 2,803,108.
Stoddard, Nicholas J., and Seem. 2,803,109.
- Seeman, Louis, to New York Umbrella Co., Inc. Combined handbag and umbrella carrier. 2,781,113, 2-12-57, Cl. 190-60.
- Seeney, George H., to The National Cash Register Co. Multiple item receipt printing mechanisms. 2,777,386, 1-15-57, Cl. 101-66.
- Sees, James E.: *See*—
Chase, David G., and Sees. 2,802,986.
- Seevers, Delmar O., to California Research Corp. Frequency transforming system for well bore signaling. 2,802,951, 8-13-57, Cl. 250-71.
- Seewer, Gustave A. Dough sheeteer. 2,792,792, 5-21-57, Cl. 107-12.
- Seft, Max: *See*—
Farnsworth, Lawrence. Re. 24,289.
- Segal, Harvey, to the United States of America as represented by the Secretary of the Navy. Rapid action shut-off valve. 2,808,847, 10-8-57, Cl. 137-67.
- Segal, Harry L., Medical Research Fund: *See*—
Segal, Harry L., and Miller. 2,791,533.
Segal, Harry L., and Miller. 2,794,786.
- Segal, Harry L., and L. L. Miller, to Security Trust Co., as trustee for Harry L. Segal Medical Research Fund. Ion exchange resin indicator compound. 2,791,533, 5-7-57, Cl. 167-84.5.
- Segal, Harry L., and L. L. Miller, to Security Trust Co. of Rochester, New York, as trustee for Harry L. Segal Medical Research Fund. Thionin dye-ion exchange resin indicator compounds. 2,794,786, 6-4-57, Cl. 260-2.2.
- Segal, Samuel. Staple remover. 2,776,109, 1-1-57, Cl. 254-28.
- Segall, Gordon H., and J. L. Cameron, to Canadian Industries (1954) Ltd. Coating composition comprising a diphenylolpropane-epichlorohydrin condensation product and a styrene-acrylic ester-acrylic acid copolymer. 2,798,861, 7-9-57, Cl. 260-45.5.
- Sege, Thomas D., and W. D. McBee, to Sperry Rand Corp. Microwave output window. 2,786,185, 3-19-57, Cl. 333-98.
- Segel, Edward, and J. Heerema, to Corn Products Refining Co. Recovery of glutamic acid. 2,810,751, 10-22-57, Cl. 260-529.
- Segelbaum, Mano. Shoe heel pocket for arch supports. 2,792,649, 5-21-57, Cl. 36-1.
- Segelken, William F.: *See*—
Altreuter, Royal K., and Segelken. 2,794,053.
- Segers, John P.: *See*—
Rhodes, Joseph C., and Segers. 2,815,660.
- Segerstrom, Carl A., to Raytheon Mfg. Co. Electronic commutated channel separators. 2,799,727, 7-16-57, Cl. 179-15.
- Segerstrom, Carl A., and R. V. Werner, to Raytheon Mfg. Co. Electronic commutated channel separators. 2,816,959, 12-17-57, Cl. 179-15.
- Segesman, Louis E., to The Hoover Co. Suction cleaners. 2,784,800, 3-12-57, Cl. 183-43.
- Segesworth, Robert S., to The General Engineering Co. Ltd. Induction melting furnace. 2,785,214, 3-12-57, Cl. 13-27.
- Seglem, Clifford E.: *See*—
De Corson, Serafino M., and Seglem. 2,784,553.
- Segoni, Aldo. Accident signalling device. 2,794,084, 5-28-57, Cl. 200-61.52.
- Segre, Uberto, to "Vetrocoke" S. p. a. Method of and plant for reducing iron ore. 2,807,535, 9-24-57, Cl. 75-35.
- Segrest, Allmon F., to Graver Tank & Mfg. Co., Inc. Oil and gas separator. 2,777,533, 1-15-57, Cl. 183-2.7.
- Segro, Nicholas R., and J. A. Melchore, to American Cyanamid Co. Color stabilization of acrylonitrile polymers. 2,804,444, 8-27-57, Cl. 260-45.7.
- Segsworth, Robert S., to The General Engineering Co. Ltd. Induction heating coil unit. 2,809,263, 10-8-57, Cl. 219-10.67.

- Segui, Jean, to Societe Anonyme dite: Stenotype Grandjean. Collapsible-arm and locking mechanism for shorthand typewriters and like machines. 2,776,738, 1-8-57, Cl. 197-9.
- Segui, Jean, to Societe Anonyme dite: Stenotype Grandjean. Mechanism for winding paper tapes in shorthand typewriters, calculating and other machines. 2,787,357, 4-2-57, Cl. 197-133.
- Ségui, Jean, to Societe Anonyme dite: Stenotype Grandjean. Winding device for shorthand typewriter or calculating machines. 2,805,829, 9-10-57, Cl. 242-72.
- Sequin, Raymond. Anti-dazzle device for vehicle drivers, cyclists and pedestrians. 2,788,523, 4-16-57, Cl. 2-12.
- Segura, Marcell A.: *See*—
Moise, James E., and Segura. 2,791,618.
- Seher, Henry W., to Philco Corp. Wire crimping and cutting pliers. 2,783,483, 3-5-57, Cl. 7-5.6.
- Sehn, Francis J., and M. M. Clemons, to Press Automation Systems Inc. Material handling apparatus. 2,781,136, 2-12-57, Cl. 214-1.
- Sehring, Richard: *See*—
Karl, Zeile, Konz, and Sehring. 2,818,424.
- Seibel, Harry W. Seal severing device. 2,776,067, 1-1-57, Cl. 215-46.
- Seiberling, Dale A.: *See*—
Harper, Willis J., and Seiberling. 2,781,269.
- Seibert, Laurence H. Machine key. 2,807,485, 9-24-57, Cl. 287-52.05.
- Seibold, Wilhelm O., to Helmut Ph. G. A. R. von Zborowski. Systems including a steerable vehicle and a finder device mounted thereon. 2,792,190, 5-14-57, Cl. 244-14.
- Seid, Bernard, and R. L. Sheffer, Jr., to Specialties Development Corp. High pressure operated relief and check valve. 2,804,881, 9-3-57, Cl. 137-493.
- Seidel, Martin P., to Westinghouse Electric Corp. Phenolic resin and method of making same. 2,806,013, 9-10-57, Cl. 260-43.
- Seidel, Richard E. Reversible grip roller freewheel clutch. 2,811,232, 10-29-57, Cl. 192-44.
- Seidel, Robert B., and R. A. Vercella, to Safety Industries, Inc. Switch construction. 2,813,165, 11-12-57, Cl. 200-87.
- Seidel, Roland J.: *See*—
Thompson, William M., Grossnickle, and Seidel. 2,808,362.
- Seidel, Roland J., and M. J. West, to Armour and Co. Method of preparing hog cholera antibody concentrate. 2,785,105, 3-12-57, Cl. 167-80.
- Seiden, Herman L.: *See*—
Von Stoesser, Walter, and Seiden. 2,785,748.
- Seidenberg, Henry: *See*—
Mueller, Herman H. 2,809,840.
Mueller, Herman H. 2,809,841.
Mueller, Herman H. 2,809,843.
- Seidenberg, Margaret M. Combined sheet and blanket unit. 2,810,921, 10-29-57, Cl. 5-335.
- Seidl, Herbert, to The Babcock & Wilcox Co. Fuel burning apparatus. 2,797,668, 7-2-57, Cl. 122-336.
- Seidl, Herbert, to The Babcock & Wilcox Co. Vapor generators having vapor heaters. 2,798,464, 7-9-57, Cl. 122-478.
- Seidl, Herbert, to The Babcock & Wilcox Co. Cyclone combustion apparatus. 2,805,650, 9-10-57, Cl. 122-235.
- Seidl, Herbert, to The Babcock & Wilcox Co. Shaking device for tube platens of superheaters. 2,809,615, 10-15-57, Cl. 122-379.
- Seidl, Herbert, and A. Sifrin, to The Babcock & Wilcox Co. Fluid heater furnace. 2,805,649, 9-10-57, Cl. 122-235.
- Seidler, Clifford D., to Teletype Corp. Selectively engageable intermittent motion mechanism. 2,795,150, 6-11-57, Cl. 74-436.
- Seif, Eric, to Burroughs Corp. Method and means for switching the electron beam in magnetron type beam switching tubes. 2,793,318, 5-21-57, Cl. 315-21.
- Seifert, Donald. Heating system control and thermostatically controlled switch therefor. 2,801,055, 7-30-57, Cl. 236-9.
- Seiferth, Oscar E., to Oscar Mayer & Co., Inc. Food package. 2,787,552, 4-2-57, Cl. 99-174.
- Seifferle, Oliver. Adjustable pressure regulating valve. 2,804,089, 8-27-57, Cl. 137-505.14.
- Seifferle, Oliver. Segmental expanding pipe dent remover. 2,818,102, 12-31-57, Cl. 153-80.
- Seifried, Paul E., to Bendix Aviation Corp. Attitude indicating instrument. 2,783,732, 3-5-57, Cl. 116-129.
- Seifter, Joseph: *See*—
Bruce, William F., and Seifter. 2,778,834.
- Seifter, Joseph, R. S. Hanslick, and M. E. Freed, to American Home Products Corp. Fatty acid amides and derivatives thereof. 2,780,646, 2-5-57, Cl. 260-562.
- Seifter, Joseph, A. L. Monaco, and F. J. Hoover, to American Home Products Corp. Anti-excitatory compositions. 2,799,619, 7-16-57, Cl. 167-65.
- Seigel, Harold O., and W. E. Bell, to Newmont Mining Corp. Apparatus for surveying drill holes. 2,792,637, 5-21-57, Cl. 33-205.5.
- Seller, Charles J., to Union Carbide Corp. Method of impregnating fibrous webs with a novolac resin. 2,808,350, 10-1-57, Cl. 117-161.
- Seller, Karl O., to International Standard Electric Corp. Process of smelting germanium. 2,780,539, 2-5-57, Cl. 75-84.
- Selly, Alec H., to C. A. V. Ltd. Engine starting mechanism. 2,807,170, 9-24-57, Cl. 74-6.
- Seils, Herbert F. Baker's peel. 2,800,089, 7-23-57, Cl. 107-67.
- Seipt, Willard R.: *See*—
Hutchcroft, Clyde R., Seipt, and Schneider. 2,816,321.
- Seipt, Willard R., to Keasbey & Mattison Co. Asphaltic magnesite composition and method of producing the same. 2,800,415, 7-23-57, Cl. 106-121.
- Seismograph Service Corp.: *See*—
Hawkins, James E. Re. 24,330.
Hawkins, James E. 2,778,013.
Hawkins, James E. 2,814,799.
Sharpe, Joseph A. 2,795,287.
- Seiss, Leonard A., to The Seiss Mfg. Co. Portable electric lamp. 2,785,289, 3-12-57, Cl. 240-10.68.
- Seiss Mfg. Co., The: *See*—
Seiss, Leonard A. 2,785,289.
- Seitter, Karl. Holding device having screw and hydraulic pressure-applying means sequentially exerted. 2,803,157, 8-20-57, Cl. 81-17.2.
- Seiz, Edward A.: *See*—
Van Gaasbeek, Richard, and Seiz. 2,786,576.
- Seitzman, David. Solenoid assembly for washing machine and the like control mechanism. 2,812,479, 11-5-57, Cl. 317-191.
- Sejournet, Jacques, and J. Buffet, to Societe Anonyme Dite: Comptoir Industriel d'Etrirage et Profilage de Metaux. Extrusion of hollow bodies. 2,810,478, 10-22-57, Cl. 207-9.
- Sekitan Sogo Kenkyujo Zaidan Hojin (Coal Research Institute): *See*—
Inagaki, Masaru. 2,786,750.
- Sekul, Raymond F., and C. H. Fenske. Protective electrical switching system. 2,790,841, 4-30-57, Cl. 123-146.5.
- Selas Corp. of America: *See*—
Blaha, Emil. 2,806,521.
Bloom, Quentin M. 2,781,891.
Edvar, Torsten F. A. 2,779,584.
Furczyk, Alfons A. 2,788,848.
Hess, Frederic O. 2,806,465.
Jordan, George V., Flack, and Manzelli. 2,812,762.
Turner, Charles A., Jr. 2,794,630.
- Selberg, John P., and W. H. Griffith, to Dresser Equipment Co. Self-erecting derrick. 2,781,108, 2-12-57, Cl. 189-15.
- Selberg, John P., and J. J. Udry, to Borg-Warner Corp. Earth boring apparatus. 2,800,301, 7-23-57, Cl. 255-4.
- Selberg, John P., J. J. Udry, and M. F. Rudy, to Borg-Warner Corp. Turbine assembly. 2,806,672, 9-17-57, Cl. 255-4.4.
- Selbmann, Rudolf W., and M. L. Tucci, to Oak Mfg. Co. Vernier condenser. 2,801,377, 7-30-57, Cl. 317-249.
- Selby, Ernest E. Tractor canopy guard and combination. 2,805,887, 9-10-57, Cl. 296-102.
- Selby, Myron C., to the United States of America as represented by the Secretary of Commerce. Micropotentiometers. 2,782,377, 2-19-57, Cl. 333-26.
- Selcer, William H., and D. D. De Borde, to Monsanto Chemical Co. Preparation of B,B'-oxydipropionitrile. 2,816,130, 12-10-57, Cl. 260-465.6.
- Seldeen, Martin. Tobacco smoke filter. 2,795,227, 6-11-57, Cl. 131-10.
- Selden, Irving H. Fluid compressor or pump. 2,776,086, 1-1-57, Cl. 230-45.
- Selder, Sawyer O. Dehydrator. 2,801,096, 7-30-57, Cl. 263-33.
- Seldner, Kurt: *See*—
Fairweather, Stephen H., Hinde, and Seldner. 2,800,593.
- Seldon, George E. Constant level mechanism for carburetors. 2,790,633, 4-30-57, Cl. 261-72.
- Seldon, George E. Sealing refrigeration compressors for automotive air conditioning. 2,302,343, 8-13-57, Cl. 62-117.1.
- Self, James L. Shrimp deheading device. 2,794,209, 6-4-57, Cl. 17-2.
- Self Park System: *See*—
Weir, Franklin T., Catz, and Gartner. 2,815,206.
- Self Storing Window Co., Inc.: *See*—
Hetman, Frank W., and Knollenberg. 2,814,319.
- Self Winding Clock Co., Inc.: *See*—
Benesch, Edward J., and Schulman. 2,816,166.
Gould, Merle E. 2,788,878.
Gould, Merle E. 2,795,476.
- Selig, Pearl D. Magnetic lot selecting device. 2,785,900, 3-19-57, Cl. 273-144.
- Seliger, Victor H., to Sperry Rand Corp. Demodulator. 2,790,901, 4-30-57, Cl. 250-27.
- Sell, Eric A. F.: *See*—
Jackson, Thomas M., and Sell. 2,814,762.
- Sell, Harold S., to The Goodyear Tire & Rubber Co. High sulphur rubber composition containing a resinous styrene/diene copolymer. 2,809,175, 10-8-57, Cl. 260-5.
- Sell, Henry B., and J. Leckie, to Sell's Specialties, Inc. Method of preparing and packaging meat. 2,779,681, 1-29-57, Cl. 99-174.
- Selleck, Robert W. Elevation measuring instrument. 2,789,364, 4-23-57, Cl. 53-209.
- Sellen, Carl R.: *See*—
Beeber, Allan R. A., and Sellen. 2,809,142.
- Sellers, Frederick B., and P. L. Paull, to Texaco Development Corp. Reduction of metal oxides. 2,790,711, 4-30-57, Cl. 75-41.
- Sellers, John F.: *See*—
Brill, Edward F., and Sellers. 2,798,434.
- Sellers, John F., and E. F. Brill, to Allis-Chalmers Mfg. Co. Unipolar dynamoelectric machine with sleeve mounted field coil. 2,786,155, 3-19-57, Cl. 310-178.

- Sellers, William D.: *See*—
Beeson, Martin L. 2,794,621.
- Sellner, John W. Adjustable chair. 2,807,310, 9-24-57, Cl. 155-106.
- Sells, Arthur M., $\frac{1}{2}$ to M. G. Wordingham. Coupling device. 2,816,535, 12-17-57, Cl. 123-179.
- Sells, James R. Wagon chassis. 2,796,266, 6-18-57, Cl. 280-29.
- Sell's Specialties, Inc.: *See*—
Sell, Henry B., and Leckie. 2,779,681.
- Selmer, Alois. Sweet corn butter device. 2,811,844, 11-5-57, Cl. 65-12.
- Selmer, Alois. Garbage disposal unit. 2,813,771, 11-19-57, Cl. 312-270.
- Selmer, Ben. Refrigerator cookie package. 2,793,955, 5-28-57, Cl. 99-172.
- Selmer, Ernst S., to Burroughs Corp. Digit pulse counter. 2,798,156, Cl. 250-27.
- Selmer, H. & A., Inc.: *See*—
De Ford, Devoe C. 2,775,915.
- Selna, James: *See*—
Birchill, Joseph, and Selna. 2,802,630.
- Selnes, Alf K. Dresser for grinding or lapping tool. 2,817,330, 12-24-57, Cl. 125-11.
- Sel-Rex Precious Metals, Inc.: *See*—
Rinker, Edwin C. 2,787,590.
Rinker, Edwin C. 2,799,633.
- Seltmann, Wilhelm, and G. Claus, to Natronzellstoff- und Papierfabriken Aktiengesellschaft. Method and apparatus for manufacturing paper bags. 2,810,328, 10-22-57, Cl. 93-22.
- Seltz, Stanley G.: *See*—
Bitz, John O., and Seltz. 2,776,162.
- Seltzer, Robert E., to Spred-All, Inc. Agricultural material distributor. 2,778,535, 1-22-57, Cl. 222-139.
- Seltzer, Robert E., to Spred-All, Inc. Agricultural material distributor. 2,778,540, 1-22-57, Cl. 222-274.
- Selvaggi, Philip S.: *See*—
Lair, Julien J. B., and Selvaggi. 2,776,424.
- Selwood, George, F. J. Fuell, and E. T. Rutledge, to The Fairey Aviation Co. Ltd. Fluid control valves. 2,810,399, 10-22-57, Cl. 137-620.
- Selzer, John, to International Harvester Co. Vehicle end gate and mounting means therefor. 2,806,736, 9-17-57, Cl. 296-51.
- Sem, Mathias O., and K. Lorck, to Elektrokemisk A/S. Automatic stoking mechanism for electric furnaces and method of operation. 2,794,843, 6-4-57, Cl. 13-33.
- Semar, Claud S.: *See*—
Garvey, Louis P., Semar, and Tanaka. 2,809,789.
Schamel, Clyde H., and Semar. 2,803,290.
Schamel, Clyde H., and Semar. 2,812,538.
- Semar, Claud S., to General Motors Corp. Door check and holdopen. 2,779,050, 1-29-57, Cl. 16-82.
- Semar, Claud S., to General Motors Corp. Folding pillar and vertically movable window arrangement for vehicle bodies. 2,805,886, 9-10-57, Cl. 296-48.
- Semar, Claud S., to General Motors Corp. Torque rod door counterbalance. 2,810,153, 10-22-57, Cl. 16-130.
- Semark, James H.: *See*—
Tucker, Edwin W., Semark, and Langford. 2,810,007.
- Semegen, Stephen T., to The B. F. Goodrich Co. Composition of matter for making golf ball covers. 2,806,824, 9-17-57, Cl. 260-4.
- Semegen, Stephen T., to The B. F. Goodrich Co. Golf ball. 2,815,957, 12-10-57, Cl. 273-235.
- Semegen, Stephen T., and V. G. Boger, to The B. F. Goodrich Co. Fuel cell and method of making same. 2,816,055, 12-10-57, Cl. 154-139.
- Semling, Donald E., to Wisconsin Window Unit Co. Combination screen and storm sash frames. 2,781,090, 2-12-57, Cl. 160-91.
- Semon, Howard W. Buoy anchor. 2,801,429, 8-6-57, Cl. 9-8.
- Semon, Howard W., and L. E. Hightower. Fragmentation warhead. 2,798,431, 7-9-57, Cl. 102-67.
- Simple, Robert E., to Beckman Instruments, Inc. Welding process and apparatus. 2,783,361, 2-26-57, Cl. 219-107.
- Senco Products, Inc.: *See*—
Juiffs, Albert G. 2,781,515.
- Sendel, Charles A. Duplex wiring system. 2,791,702, 5-7-57, Cl. 307-64.
- Sender, Leopold, to The Sharples Corp. Soap deaeration. 2,804,172, 8-27-57, Cl. 183-114.
- Sendoykas, Jack J. Self-adjusting toggle clamp. 2,777,347, 1-15-57, Cl. 81-84.
- Sendzimir, Bertha M.: *See*—
Sendzimir, Tadeusz. 2,811,060.
- Sendzimir, Tadeusz, to Armzen Co. Construction and control of cold rolling mills. 2,776,586, 1-8-57, Cl. 80-38.
- Sendzimir, Tadeusz. Process and apparatus for treating metallic strips. 2,797,476, 7-2-57, Cl. 29-528.
- Sendzimir, Tadeusz, $\frac{3}{4}$ to T. Sendzimir and B. M. Sendzimir, as trustees. Planetary reducing mills. 2,811,060, 10-29-57, Cl. 80-43.
- Seneca Falls Machine Co.: *See*—
Cafolla, Constantine F., and Smith. 2,782,568.
Dinsmore, Arthur S. 2,784,977.
- Seneca Mfg. Co., The: *See*—
O'Hare, James K. 2,808,608.
- Seng Co., The: *See*—
Fox, Martin. 2,790,185.
Fox, Martin. 2,803,019.
Fox, Martin. 2,807,030.
Fox, Martin. 2,807,031.
Fox, Martin, and Hassel. 2,815,514.
- Sengebusch, Hans: *See*—
Graybill, Kenneth W., and Sengebusch. 2,798,119.
- Sengebusch, Hans, to Automatic Electric Laboratories, Inc. Two motion selective switches. 2,780,675, 2-5-57, Cl. 179-27.52.
- Senglaub, Arthur H., and C. A. Girardi, to Newton Mowers, Inc. Safety cutoff switch for tractors. 2,807,682, 9-24-57, Cl. 200-61.47.
- Senior, George A.: *See*—
Musolf, Gunter F., Eckert, and Senior. 2,808,536.
- Senkbeil, Herman O.: *See*—
Brust, Harry F., and Senkbeil. 2,809,992.
- Senkbeil, Herman O., to The Dow Chemical Co. Chloroaliphatic-mono-carboxylic acid esters of 1,4,5,6,7,7 hexachloro bicyclo-[2,2,1]-hept-5-en-2-methanol. 2,802,862, 8-13-57, Cl. 260-487.
- Senkbeil, Herman O., to The Dow Chemical Co. Partial polychloro-aliphatic acid esters of polyhydroxyphenols. 2,815,366, 12-3-57, Cl. 260-479.
- Senkbeil, Herman O., to The Dow Chemical Co. Polychloro-aliphatic esters of 2,2-dichloropropionic acid. 2,815,367, 12-3-57, Cl. 260-479.
- Senkbeil, Herman O., and H. F. Brust, to The Dow Chemical Co. Neutral polychloro-aliphatic acid esters of polyhydroxyphenols. 2,815,365, 12-3-57, Cl. 260-479.
- Senkowski, Alexander, L. R. Payne, and H. G. Ferguson, to Massey-Harris-Ferguson (Sales) Ltd. Overload release arrangement for long implements. 2,780,159, 2-5-57, Cl. 97-46.07.
- Senkowski, Alexander, and F. D. Cooper, to Massey-Harris-Ferguson (Sales) Ltd. Power operating system for tractor hitch linkages. 2,786,402, 3-26-57, Cl. 97-46.07.
- Senkowski, Alexander, W. Czarnocki, and F. D. Cooper, to Massey-Harris-Ferguson (Sales) Ltd. Draft control means for tractor implement hitches. 2,786,403, 3-26-57, Cl. 97-46.07.
- Senkowski, Alexander, and A. E. Lynes, to Massey-Harris-Ferguson Inc. Change speed planetary transmission. 2,787,919, 4-9-57, Cl. 74-750.
- Senkowski, Alexander, and E. I. Watson, to Massey-Harris-Ferguson (Sales) Ltd. Brake equalizer system. 2,790,522, 4-30-57, Cl. 188-204.
- Senkowski, Alexander, and E. I. Watson, to Massey-Harris-Ferguson (Sales) Ltd. Brake latch mechanism. 2,816,456, 12-17-57, Cl. 74-540.
- Senkowski, Alexander, and F. D. Cooper, to Massey-Harris-Ferguson (Sales) Ltd. Pumps. 2,816,515, 12-17-57, Cl. 103-169.
- Senn, Arthur L. Load stabilized crane. 2,805,781, 9-10-57, Cl. 212-58.
- Senn, Jakob, to Diametal A. G. Profile grinding machine. 2,784,533, 3-12-57, Cl. 51-100.
- Senn, Jurg A., to Paragon Electric Co. Current interrupting switch. 2,784,275, 3-5-57, Cl. 200-91.
- Senne, Edgar P. Collapsible disappearing radial arm mechanism. 2,784,848, 3-12-57, Cl. 211-178.
- Sennet, Edith L.: *See*—
Levkoff, David. 2,786,621.
- Sens, Guy E. Fishing rod. 2,816,389, 12-17-57, Cl. 43-18.
- Sensenig, Miles L.: *See*—
Robinson, William H., and Sensenig. 2,778,487.
- Senshu, Haruzo. Nail clipper. 2,799,923, 7-23-57, Cl. 30-28.
- Sensiper, Samuel, to Hughes Aircraft Co. Traveling-wave tube. 2,798,183, 7-2-57, Cl. 315-3.5.
- Sensiper, Samuel, to Hughes Aircraft Co. Traveling-wave tube. 2,806,972, 9-17-57, Cl. 315-3.5.
- Sensiper, Samuel, to Hughes Aircraft Co. Traveling wave tube. 2,815,466, 12-3-57, Cl. 315-3.6.
- Senzani, Iro, to Senzani Machinery Co., Inc. Handling machines for spaghetti and like products. 2,813,498, 11-19-57, Cl. 107-21.
- Senzani Machine Co.: *See*—
Pavan, Nico. 2,792,304.
- Senzani Machinery Co., Inc.: *See*—
Senzani, Iro. 2,813,498.
- Séon, Marius, and J. Leleu, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Production of hydraacrylic acid esters. 2,782,226, 2-19-57, Cl. 260-484.
- Sepanek, Leonard S., to Monroe Calculating Machine Co. Counter control mechanism. 2,792,990, 5-21-57, Cl. 235-61.
- Sepavich, Victor F.: *See*—
Bordewieck, Robert W., and Sepavich. 2,781,794.
- Sepersky, Joseph M. Aquarium utility housing. 2,776,642, 1-8-57, Cl. 119-5.
- Sepke, Andrew. Lifting tongs. 2,784,923, 3-12-57, Cl. 294-67.
- Septon, Warren L.: *See*—
Glenn, William S., Jr., and Septon. 2,780,377.
- Sepulveda, Louis. Electric lock plug. 2,777,023, 1-8-57, Cl. 200-42.
- Seragnoli, Ariosto. Feeding mechanism for labels and the like. 2,816,760, 12-17-57, Cl. 271-20.
- Serduke, James T. X-ray tube. 2,791,708, 5-7-57, Cl. 313-55.

- Serey, Roger H. B., and P. P. Peyrot, to Societe des Usines Chimiques Rhone-Poulenc. Coating compositions containing a wax and methyl polysiloxane. 2,807,554, 9-24-57, Cl. 106-271.
- Sergier, Fernand. Straight razor sharpener. 2,789,400, 4-23-57, Cl. 51-140.
- Sergievsky, Boris : *See*—
Kiriloff, Alexander A., and Bary. 2,794,118.
- Serles, Earl R. : *See*—
Doerr, Dale W., Serles, and Deardorff. 2,816,061.
Doerr, Dale W., Serles, and Deardorff. 2,816,062.
- Sernetz, Heinz. Vibratory conveyor having two oppositely vibrating feed members. 2,814,379, 11-26-57, Cl. 198-220.
- Serniuk, George E. : *See*—
Arundale, Erving, Serniuk, and Biribauer. 2,786,878.
- Serniuk, George E., to Esso Research and Engineering Co. Hydrocarbon drying oil. 2,780,664, 2-5-57, Cl. 260-683.15.
- Serniuk, George E., to Esso Research and Engineering Co. Polymerization with boron trifluoride-phosphoric acid catalyst. 2,810,774, 10-22-57, Cl. 260-683.15.
- Serrell, Morton A. : *See*—
Shepard, Ward, Jr., Serrell, Beyer, and Robertson. 2,793,321.
- Serrone, Peter J. Releasable latching assembly for door switches. 2,810,061, 10-15-57, Cl. 219-61.79.
- Serson, Paul H., and S. Z. Mack, to His Majesty The King in the right of Canada, as represented by the Minister of National Defense. Device for determining the vertical in an aircraft. 2,809,528, 10-15-57, Cl. 74-5.22.
- Serugo Rubber Co. : *See*—
Orms, Francis. 2,795,425.
- Serum, Charles H. : *See*—
Ferrara, Achille K., and Serum. 2,781,432.
- Servaes, Joseph. Wheel rim sealing band for tubeless vehicle tire. 2,787,312, 4-2-57, Cl. 152-362.
- Servanty, Lucien, to Societe Nationale de Constructions Aeronautiques du Sud-Ouest (Societe Anonyme). Aircraft control system. 2,797,882, 7-2-57, Cl. 244-76.
- Servanty, Lucien. Control transmission systems. 2,807,966, 10-1-57, Cl. 74-469.
- Servco Equipment Co. : *See*—
Gates, Earl J. 2,815,543.
- Servel, Inc. : *See*—
Barton, Ralph D. 2,796,741.
Barton, Ralph D. 2,799,144.
Heath, Dudley E. 2,778,198.
Krug, John B. 2,788,645.
- Servi, Italo S., and H. R. Spindelov, Jr., to Union Carbide and Carbon Corp. Heat-resistant nickel-base sheet alloy. 2,793,950, 5-28-57, Cl. 75-171.
- Service Distributors, Inc. : *See*—
Taylor, Christopher G. 2,810,798.
- Serv-Kraft, Inc. : *See*—
Sigo, Arthur T. 2,782,791.
Timms, Ross L., and Sigo. 2,811,583.
- Servo Corp. : *See*—
Knight, Lloyd F. 2,794,961.
- Servo Corp. of America : *See*—
Gallagher, Cornelius A. 2,779,894.
Hansel, Paul G. 2,807,781.
Wormser, Eric M. 2,798,961.
Wormser, Eric M. 2,798,962.
- Servomechanisms, Inc. : *See*—
Kuhlman, Ora F. 2,794,892.
- Sesame Container Corp. : *See*—
Davis, Willis J. 2,804,202.
- Seserman, Samuel. Folders and binders for flexible sheet materials. 2,776,636, 1-8-57, Cl. 112-147.
- Sesny, Stephen A., and F. B. E. Peters, to International Business Machines Corp. Self-locking plug connector. 2,779,929, 1-29-57, Cl. 339-217.
- Sesny, Walter J. : *See*—
Brimm, Eugene O., Lynch, and Sesny. 2,803,525.
- Sessions Clock Co., The : *See*—
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Kablick, Stanley J., and Brightman. 2,800,373.
- Sessions, Donald W. Washing machine. 2,795,125, 6-11-57, Cl. 68-10.
- Sessler, Kenneth E., to Boeing Airplane Co. Dome or cowlings latch. 2,783,072, 2-26-57, Cl. 292-256.
- Sester, Harry F., to Saranac Machine Co. Package. 2,815,857, 12-10-57, Cl. 206-65.
- Setchell, Barton T. : *See*—
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- Seteka, John C. Bathinette. 2,794,990, 6-11-57, Cl. 4-177.
- Seter, Peter K. Stroke control mechanism for pumps. 2,795,191, 6-11-57, Cl. 103-38.
- Sethne, Magne, and I. Skorge, to Persil-fabrikken A/S. Device for dispensing of definite quantities of liquid from a container. 2,801,771, 8-6-57, Cl. 222-108.
- Set Screw & Mfg. Co. : *See*—
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- Settimi, Peter : *See*—
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- Settlage, Paul H. : *See*—
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- Settle, Wesley L. : *See*—
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- Settles, James C., to The Buckeye Steel Castings Co. Spring group and damping mechanism assembly. 2,803,453, 8-20-57, Cl. 267-9.
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- Setz, Henry L., to Ford Motor Co. Torsional member. 2,812,936, 11-12-57, Cl. 267-1.
- Setzeborn, Eugene M., W. G. Espersen, and J. Ammerman, to U. S. Industries, Inc. Refrigerated storage tank. 2,803,952, 8-27-57, Cl. 62-141.
- Setzer, Logan E. Guidance and control of self-propelled vehicles. 2,789,649, 4-23-57, Cl. 180-79.1.
- Seufert, Earl W. : *See*—
Turner, Eugene L., and Seufert. 2,788,429.
- Seufert, Lewis H. : *See*—
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- Seulen, Gerhard, H. Kuhlbars, H. Detzel, and A. Wiedmann, to Deutsche Edelstahlwerke Aktiengesellschaft. Process and apparatus for the inductive surface hardening of cylindrical workpieces. 2,787,566, 4-2-57, Cl. 148-10.5.
- Seyck, John G., to Burton-Dixie Corp. Inflatable mattress. 2,814,053, 11-26-57, Cl. 5-348.
- Severer, Clyde R. Handle. 2,812,968, 11-12-57, Cl. 294-33.
- Severini, Febo : *See*—
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- Severini, Goffredo, to Studi E Brevetti Applicazioni Tessili S. r. l. Yarn processing device. 2,814,939, 12-3-57, Cl. 68-205.
- Severson, George S. : *See*—
Snawder, James F., and Severson. 2,790,083.
- Severson, Wayne A. : *See*—
Brice, Thomas J., and Severson. 2,790,815.
- Severy, Lawrence A., and T. W. Snow, to United Shoe Machinery Corp. Wedge heel attaching and heel cover turning machines. 2,807,036, 9-24-57, Cl. 12-1.
- Severy, Victor H. Form maintainer for hats. 2,779,947, 2-5-57, Cl. 2-185.
- Sevik, Maurice : *See*—
Dowse, Sidney, and Sevik. 2,809,421.
- Seville, John R., to Spooner Food Machinery Engineering Co. Ltd. Control means for gas or liquid fuel fired burners. 2,816,605, 12-17-57, Cl. 158-28.
- Sevison, Luther E., to E. G. Staude Mfg. Co., Inc. Box welding apparatus. 2,818,484, 12-31-57, Cl. 219-10.53.
- Sewall, Samuel : *See*—
Vogel, Leo R. 2,814,983.
- Seward, William H. C. Portable stock feeder with a removable hopper. 2,798,457, 7-9-57, Cl. 119-51.
- Sewell, Ben W. Power breakout tool. 2,797,066, 6-25-57, Cl. 255-35.
- Sewell, Ben W., to Esso Research and Engineering Co. Fracturing oil bearing formations. 2,798,557, 7-9-57, Cl. 166-42.
- Sewell, Ben W. Portable drilling rig assembly. 2,807,441, 9-24-57, Cl. 255-22.
- Sewell, Curtis, Jr. : *See*—
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- Sewell, Cyrus G. Motorist electric shock sleep inhibitor. 2,816,282, 12-10-57, Cl. 340-279.
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- Sewell, Isola : *See*—
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- Sewell, Robert L. Enclosures for sound reproduction. 2,806,547, 9-17-57, Cl. 181-31.
- Sewell, Ronald P. Multi-cylinder pump. 2,801,596, 8-6-57, Cl. 103-174.
- Sewig, Rudolf, to Voigtlander, A. G. Flash lamp equipment. 2,783,696, 3-5-57, Cl. 95-11.
- Sexton, Arthur R. : *See*—
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- Sexton, Arthur R., and E. C. Britton, to The Dow Chemical Co. Continuous production of salts of hydroxy aliphatic sulfonic acids. 2,810,747, 10-22-57, Cl. 260-513.
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- Sexton, Everett P., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,802,699, 8-13-57, Cl. 303-23.
- Seyb, Edgar J., Jr. : *See*—
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Stareck, Jesse E., Seyb, and Passal. 2,800,436.
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- Seybold, Frederick W., to E. P. Lawson Co., Inc. Two-hand control device for the electric clutch and brake mechanisms of paper cutting machines. 2,783,843, 3-5-57, Cl. 164-54.
- Seybold, Frederick W. Automatic transmission. 2,807,967, 10-1-57, Cl. 74-677.
- Seybold, Frederick W. Automatic transmission. 2,811,872, 11-5-57, Cl. 74-677.
- Seybold, Frederick W., and N. Herman, to E. P. Lawson Co., Inc. Light interrupting means for photoelectric control system. 2,798,967, 7-9-57, Cl. 250-234.

- Seybold, René, Electronically-operated music instrument. 2,788,693, 4-16-57, Cl. 84—126.
- Seyer, Frank H., to Paper Mate Mfg. Co. Ball point pen cartridge. 2,813,513, 11-19-57, Cl. 120—42.4.
- Seyferth, Donald F., to West Michigan Steel Foundry Co. Rocking fifth wheel member for tractor-semitrailer vehicles. 2,794,656, 6-4-57, Cl. 280—438.
- Seyffarth, Richard, Hair-curling device. 2,800,910, 7-30-57, Cl. 132—31.
- Seyforth, Rome C., to The Shelby Metal Products Co. Hard-ware display card. 2,813,625, 11-19-57, Cl. 206—78.
- Seyfried, Arthur W., to Scovill Mfg. Co. Ejector for disconnecting tool shafts from motor driven power unit. 2,797,901, 7-2-57, Cl. 259—1.
- Seyfried, Arthur W., to Scovill Mfg. Co. Brush holder for electric motors. 2,798,176, 7-2-57, Cl. 310—247.
- Seyfried, Arthur W., to S. C. Johnson & Son, Inc. Hinged handle connection for floor treating machine. 2,800,372, 7-23-57, Cl. 306—11.
- Seyfried, Arthur W., and P. W. Lahr, to Scovill Mfg. Co. Multiple spindle drink mixer. 2,815,194, 12-3-57, Cl. 259—130.
- Seyfried, Warren R., and S. Atkin, to Chemical Construction Corp. Production of feed grade dicalcium phosphate. 2,799,557, 7-16-57, Cl. 23—109.
- Seymour, George W., M. Wayman and H. P. Holkestad; said Seymour assor. to Celanese Corp. of America, and said Wayman and said Holkestad assors. to Columbia Cellulose Co., Ltd. Refining of wood pulp. 2,789,902, 4-23-57, Cl. 92—13.
- Seymour, Howard C. Adjustable mold. 2,781,570, 2-19-57, Cl. 25—41.
- Seymour, Lawrence O.: See—
- Seymour, Philip J. and L. O. 2,795,048.
- Seymour, Leo E., and J. E. Tessmar, to General Motors Corp. Means for attaching headlining wires. 2,815,979, 12-10-57, Cl. 296—137.
- Seymour, Philip J. and L. O. Detachable rear sight for shot-guns. 2,795,048, 6-11-57, Cl. 23—47.
- Seymour, Raymond B., R. H. Steiner, and W. R. Pascoe, to The Atlas Mineral Products Co. of Pennsylvania. Jointing composition. 2,799,593, 7-16-57, Cl. 106—287.
- Seymour, Samuel L.: See—
- Duncan, James E., and Seymour. 2,776,900.
- Seymour-Lee, Roger W., and F. Dove, to The Sperry Gyroscope Co. Ltd. Gyroscopic instruments. 2,799,842, 7-16-57, Cl. 340—27.
- Serrazza, Peter J., to Sperry Rand Corp. Circularly polarized microwave coupler. 2,812,497, 11-5-57, Cl. 333—10.
- Sfredda, Albert, $\frac{1}{4}$ to J. B. Painter and $\frac{1}{4}$ to L. Zapco. Non-circular wheeled vehicle. 2,786,540, 3-26-57, Cl. 180—22.
- Shaback, Andrew J.: See—
- Graham, Herbert J., Orban, Reisiger, and Shaback. 2,779,057.
- Shabaker, Hubert A., to Houdry Process Corp. Method for treating hydrogels. 2,786,818, 3-26-57, Cl. 252—448.
- Shabaker, Hubert A., to Houdry Process Corp. Temperature control of exothermic reactions. 2,816,010, 12-10-57, Cl. 23—288.
- Shabarick, Tony A. Fishing tackle receptacle. 2,783,875, 3-5-57, Cl. 206—16.
- Shaberman, Benjamin. Diffuser for hot air registers and the like. 2,800,852, 7-30-57, Cl. 98—108.
- Shackleford, Wardell E.: See—
- Hopkins, George W., and Shackleford. 2,809,786.
- Shacklett, Comer D., to E. I. du Pont de Nemours and Co. Unsaturated organic compounds. 2,777,872, 1-15-57, Cl. 260—482.
- Shadbolt, Lawrence E.: See—
- Bawitzer, Walter L., Stern, and Shadbolt. 2,798,060.
- Shade, Ralph A.: See—
- Kaddis, Albert G., and Shade. 2,816,573.
- Shadegg, Stephen C. Nebulizers. 2,782,073, 2-19-57, Cl. 299—88.5.
- Shadley, Hollum B. Meat grinder attachment. 2,806,247, 9-17-57, Cl. 17—32.
- Shadley, George R. Mechanical discharge shackle for fowls and the like. 2,797,436, 7-2-57, Cl. 17—44.1.
- Shadwick, George W., to Beatrice Foods Co. Centrifugal filter. 2,776,754, 1-8-57, Cl. 210—72.
- Shaeffer, Fred A.: See—
- Roinestad, Joseph. 2,789,850.
- Shafer, Alva A., Jr. Star separator for tumbling mills. 2,785,513, 3-19-57, Cl. 51—164.
- Shafer, Henry M.: See—
- Peck, Robert L., Shafer, and Wolf. 2,804,463.
- Shafer, Homer J., to Shafer Valve Co. Internal fluid shut off for hydraulic motor. 2,778,338, 1-22-57, Cl. 121—38.
- Shafer, Homer J., to Shafer Valve Co. Automatic reclosing device for plug type valves. 2,780,432, 2-5-57, Cl. 251—59.
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- Shafer, Homer J., to Shafer Valve Co. Hand pump and power system for hydraulic motor. 2,791,093, 5-7-57, Cl. 60—51.
- Shafer, Homer J., to Shafer Valve Co. Internal fluid shut off for hydraulic motor. 2,795,212, 6-11-57, Cl. 121—79.
- Shafer, Homer J., to Shafer Valve Co. Rotor bearing seal for fluid motor. 2,811,142, 10-29-57, Cl. 121—99.
- Shafer, Homer J., and B. A. Metzger, to Shafer Valve Co. Manual and motor drive for hydraulic valve operator. 2,811,834, 11-5-57, Cl. 60—52.
- Shafer, James A., to National Malleable and Steel Castings Co. Spring package unit for car trucks. 2,793,029, 5-21-57, Cl. 267—9.
- Shafer, Sylvester N., and R. Plunkett, to General Electric Co. Motion detecting device. 2,802,178, 8-6-57, Cl. 324—61.
- Shafer Valve Co.: See—
- Shafer, Homer J. 2,778,338.
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- Shaff, Ernest H., to Gardner-Denver Co. Impact wrench. 2,783,863, 3-5-57, Cl. 192—30.5.
- Shaff, Ernest H. Sanding and polishing machine. 2,786,313, 3-26-57, Cl. 51—170.
- Shaffer, Clifford A. Game shooter. 2,805,657, 9-10-57, Cl. 124—16.
- Shaffer, Francis N., and A. B. Davis, to Sylvania Electric Products Inc. Zinc tin phosphate phosphors. 2,776,261, 1-1-57, Cl. 252—301.6.
- Shaffer, H. S., & Associates: See—
- Robinson, Frederick A. 2,783,568.
- Shaffer, H. S., Inc.: See—
- Robinson, Frederick A. Re. 24,411.
- Shaffer, Harry S.: See—
- Robinson, Frederick A. 2,783,568.
- Shaffer, Joseph R.: See—
- Schmidt, Albert S., and Shaffer. 2,811,997.
- Shaffer, Paul. Adjustable post. 2,776,811, 1-8-57, Cl. 248—354.
- Shaffer, Philip A., Jr.: See—
- Mitchell, Fern W., Jr., and Shaffer. 2,781,490.
- Shaffer, Philip A., Jr., Electric photometer. 2,794,361, 6-4-57, Cl. 88—14.
- Shaffer Tool Works: See—
- Auer, Leland S. 2,798,747.
- Gibson, Wilfred C. 2,812,197.
- Shaft Machines Ltd.: See—
- Cryderman, Warner L. 2,781,140.
- Shahan, Alva V. Device for installing tension springs on automobile hood hinges. 2,779,087, 1-29-57, Cl. 29—227.
- Shakespeare Co.: See—
- Shakespeare, Henry G., and Harrington. 2,776,803.
- Shakespeare, Henry G., and G. D. Harrington, to Shakespeare Co. Spinning type fishing reel. 2,776,803, 1-8-57, Cl. 242—84.4.
- Shallcross Mfg. Co.: See—
- Keser, Otto A., 2d. 2,810,365.
- Shallenberg, Robert L., to International Harvester Co. Fuel injector for internal combustion engines. 2,792,259, 5-14-57, Cl. 299—107.2.
- Shallenberg, Robert L., to International Harvester Co. Governing mechanism for internal combustion engines. 2,818,053, 12-31-57, Cl. 123—140.
- Shallenberg, Robert L., and W. A. Parrish, Jr., to International Harvester Co. Fuel injection pump. 2,790,432, 4-30-57, Cl. 123—139.
- Shaller, Herman I., to the United States of America as represented by the Secretary of the Army. Protective baffle for mantle type hydrocarbon burners. 2,779,181, 1-29-57, Cl. 67—50.
- Shallite, Inc.: See—
- Kohler, John H. 2,817,738.
- Shamberg, Morris F., to the United States of America as represented by the Secretary of the Army. Packaging insert for military cap. 2,794,543, 6-4-57, Cl. 206—8.
- Shamos, Morris H., to Tung-Sol Electric Inc. Radiation alarm. 2,817,768, 12-24-57, Cl. 250—83.6.
- Shamrock Knitting Mills, Inc.: See—
- Johnson, Paul E., Jr., and Owenby. 2,805,424.
- Shanafelt, Leo A., to Kaiser Aircraft & Electronics Corp. Electronic device. 2,809,324, 10-8-57, Cl. 315—21.
- Shanahan, Curtis M., to Container Corp. of America. Tray with separating partitions. 2,796,213, 6-18-57, Cl. 229—42.
- Shand and Jurs Co.: See—
- Hosmer, Ellsworth A., Hawley, and Jurs. 2,814,798.
- Shanhouse, William M. Navigational relative motion computer. 2,779,538, 1-29-57, Cl. 235—61.
- Shanhouse, William M. Device for demonstrating binomial progressive expansion. 2,789,371, 4-23-57, Cl. 35—30.
- Shanhouse, William M., and E. Daher. Liquid level detector. 2,792,566, 5-14-57, Cl. 340—244.
- Shank, Carl K., to Dodge Mfg. Corp. Fabricated sheet metal article. 2,808,730, 10-8-57, Cl. 74—230.8.
- Shank, Clifford A., N. M. Brown, Jr., and C. E. Ault, to The Garrett Corp. Angle of attack computer. 2,808,985, 10-8-57, Cl. 235—61.
- Shank, Robert J., to Hughes Aircraft Co. Range voltage generating circuit for automatic range tracking. 2,807,015, 9-17-57, Cl. 343—7.3.
- Shanklin, Herbert H.: See—
- Johnson, Chester W., and Shanklin. 2,803,947.
- Shankman, Martin. Convertible bed couch. 2,783,480, 3-5-57, Cl. 5—18.
- Shankman, Martin. Convertible bed forming seating device. 2,784,404, 3-5-57, Cl. 5—20.
- Shanley, Walter A. Tool and work holding apparatus. 2,794,433, 6-4-57, Cl. 125—11.

- Shann, William E., and S. M. Wheelock, to Pacific Mills. Apparatus for producing staple fibers from continuous strands of textile fibers. 2,808,884, 10-8-57, Cl. 164-68.
- Shannon, Claude E.: *See—*
- Moore, Edward D., and Shannon. 2,776,405.
- Oliver, Bernard M., and Shannon. 2,801,281.
- Shannon, Gladys L.: *See—*
- Shannon, Jean R. 2,778,126.
- Shannon, Jack F.: *See—*
- Green, Thomas A., Gorrie, Shannon, and Fink. 2,793,606.
- Shannon, Jean R., deceased, by G. L. Shannon, executrix, to The Four Wheel Drive Auto Co. Flow apparatus for high speed snow removal without windrowing. 2,778,126, 1-22-57, Cl. 37-42.
- Shannon, John B.: *See—*
- Bredall, Charles H., and Shannon. 2,779,004.
- Shannon, Montague W. Spindle driving means in a cotton picking unit. 2,815,635, 12-10-57, Cl. 56-42.
- Shannon, Richard F.: *See—*
- Biefeld, Lawrence F., and Shannon. 2,804,438.
- Shannon, Richard F., and R. H. Mitchell, to Owens-Corning Fiberglas Corp. Pressure molded cement products and methods for producing same. 2,793,130, 5-21-57, Cl. 106-99.
- Shannon, William, to Shaver Mfg. Co. Mobile watering device. 2,789,865, 4-23-57, Cl. 299-57.
- Shantz, Edgar M.: *See—*
- Steward, Frederick C., and Shantz. 2,806,027.
- Shapel, Alfred F. Rifle control tube. 2,796,005, 6-18-57, Cl. 89-14.
- Shaper, Harry B., to Dyna-Labs, Inc. Earphones for use with dictating machines and the like. 2,780,681, 2-5-57, Cl. 179-156.
- Shapero, Wallace H., to Wallace Containers Co. Dip method of fabricating flexible containers of synthetic resin plastic material. 2,786,238, 3-26-57, Cl. 18-59.
- Shapero, Wallace H., and R. E. Davis, to Wallace Container Co. Flexible container. 2,815,896, 12-10-57, Cl. 229-35.
- Shapiro, Charles and S., to Shapiro & Sons Curtain Corp. Textile fabrics and method of making same. 2,791,821, 5-14-57, Cl. 28-76.
- Shapiro, Elliot L.: *See—*
- Gould, David H., and Shapiro. 2,816,902.
- Shapiro, Eugene. Golf practice device. 2,786,683, 3-26-57, Cl. 273-183.
- Shapiro, Harris J.: *See—*
- Oliveau, John V., Dandridge, Quigley, and Shapiro. 2,789,174.
- Shapiro, Harry S.: *See—*
- Bachli, Herman, and Shapiro. 2,799,533.
- Shapiro, Irving D. Automatic circuit control for automotive vehicle. 2,806,980, 9-17-57, Cl. 315-83.
- Shapiro, Isadore, to Olin Chemical Co., Inc. Apparatus for measuring amplitudes of traces. 2,815,575, 12-10-57, Cl. 33-76.
- Shapiro, Jacob S.: *See—*
- Pullin, Cyril G., and Shapiro. 2,788,075.
- Shapiro, Joseph: *See—*
- Carter, Paul H. 2,785,784.
- Shapiro, Mitchell. Press for mounting photographs. 2,790,478, 4-30-57, Cl. 154-1.
- Shapiro, Mitchell. Apparatus for developing photographic films. 2,791,951, 5-14-57, Cl. 95-93.
- Shapiro, Samuel. Method of making woven fabric test strips of uniform width. 2,797,712, 7-2-57, Cl. 139-383.
- Shapiro, Seymour L.: *See—*
- Freedman, Louis, and Shapiro. 2,792,392.
- Shapiro, Seymour L., and L. Freedman, to U. S. Vitamin Corp. Mercurated allyltriazines. 2,792,393, 5-14-57, Cl. 260-242.
- Shapiro, Sidney: *See—*
- Shapiro, Charles and S. 2,791,821.
- Shapiro & Sons Curtain Corp.: *See—*
- Shapiro, Charles and S. 2,791,821.
- Shapiro, Stanley: *See—*
- Jacobson, Samuel, and Shapiro. 2,787,322.
- Shapiro, Stuart J.: *See—*
- Hack, Andrew J., Shapiro, and Shorr. Re. 24,408.
- Hack, Andrew J., Shapiro, and Shorr. 2,802,895.
- Shapiro, Sydney H., to Armour and Co. Preparation of secondary amines. 2,781,399, 2-12-57, Cl. 260-583.
- Shapiro, Sydney H., to Armour and Co. Method of producing secondary aliphatic amines. 2,811,556, 10-29-57, Cl. 260-583.
- Shapiro, Sydney H., and A. K. Susina, to Armour and Co. Non-yellowing baking finish. 2,791,568, 5-7-57, Cl. 260-21.
- Shappell, Stanley C.: *See—*
- Kimball, Lawrence W., and Shappell. 2,812,994.
- Shappell, Stanley C., to Sylvania Electric Products Inc. Exhaust machine. 2,789,587, 4-23-57, Cl. 141-65.
- Shaps, Marvin G.: *See—*
- Beach, Helene C. 2,803,014.
- Sharbaugh, W. James. Automatic cycle-control mechanism for washing machines. 2,798,124, 7-2-57, Cl. 200-37.
- Share, Barnett. Dust collector. 2,790,509, 4-30-57, Cl. 183-34.
- Sharik, George. Variable resistor. 2,797,285, 6-25-57, Cl. 201-51.
- Sharin, Samuel, to Radio Corp. of America. Binary reciprocal circuit. 2,782,344, 2-19-57, Cl. 315-201.
- Shark Chaser Chemicals Co.: *See—*
- Allyn, Alvin L. 2,810,229.
- Sharman, John C., to Garringtons Ltd. Machines for use in performing finishing and similar surfacing operations on work-pieces. 2,798,341, 7-9-57, Cl. 51-143.
- Sharon, Leo P.: *See—*
- Leathers, Stephen R., and Sharon. 2,785,655.
- Sharon Steel Corp.: *See—*
- Leffingwell, Wallace B., and Weesner. 2,808,353.
- Sharon Tube Co.: *See—*
- Wagner, August J. 2,792,206.
- Sharp, Allen W.: *See—*
- Barker, Seth S., Crane, and Sharp. 2,813,298.
- Sharp, Chester L.: *See—*
- Fagg, Leo W., and Sharp. 2,806,721.
- Sharp, Donald E., to Libbey-Owens-Ford Glass Co. Firing tank furnaces. 2,800,175, 7-23-57, Cl. 158-117.5.
- Sharp, Ewing L. Fishing reel locking device. 2,808,675, 10-8-57, Cl. 43-22.
- Sharp, John J.: *See—*
- Townsend, Ralph, and Sharp. 2,810,099.
- Sharp, John R.: *See—*
- Arnot, Alfred E. R. 2,786,436.
- Arnot, Alfred E. R. 2,796,186.
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- Arnot, Alfred E. R. 2,796,577.
- Arnot, Alfred E. R. 2,810,488.
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- Sharp, Robert G., and H. E. Wright, to General Dynamics Corp. Accumulator for hydraulic systems. 2,780,064, 2-5-57, Cl. 60-51.
- Sharp, Silas S.: *See—*
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- Sharp, Theodore K.: *See—*
- Hargrove, Sanford L., and Sharp. 2,782,489.
- Sharp, Thomas C., to Radio Corp. of America. Motor speed control system. 2,782,349, 2-19-57, Cl. 318-44.
- Sharpe, Edward D.: *See—*
- Harbers, Henry C., and Sharpe. 2,781,186.
- Sharpe, Eugene S., and J. Corman, to the United States of America as represented by the Secretary of Agriculture. Preparation of alpha-ketoglutaric acid by serratia marcescens. 2,776,926, 1-8-57, Cl. 195-47.
- Sharpe, Everett E., to Better Packages Inc. Tape serving machine having cutting means. 2,780,286, 2-5-57, Cl. 164-43.
- Sharpe, Everett E., to Better Packages Inc. Pressure sensitive tape dispenser with slitter means. 2,788,852, 4-16-57, Cl. 164-39.
- Sharpe, Frederick P., to Kelsey-Hayes Co. Rivet inserting machine. 2,786,374, 3-26-57, Cl. 78-46.
- Sharpe, Frederick P., to Kelsey-Hayes Co. Elevator. 2,791,319, 5-7-57, Cl. 198-225.
- Sharpe, Frederick P., to Kelsey-Hayes Co. Transfer mechanism. 2,792,921, 5-21-57, Cl. 198-19.
- Sharpe, Henry E. Two station dictating system with a plurality of recorders. 2,784,258, 3-5-57, Cl. 179-100.1.
- Sharpe, Joseph A., to Seismograph Service Corp. Apparatus for seismic reflection mapping. 2,795,287, 6-11-57, Cl. 181-5.
- Sharpe, Louis. Bathroom fixture. 2,790,692, 4-30-57, Cl. 312-228.
- Sharpe, Robert E.: *See—*
- Morin, Richard D., and Sharpe. 2,797,211.
- Sharpe, Verlos G.: *See—*
- Saunders, Orson V., Murphy, and Sharpe. 2,810,271.
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- Sharpe, Verlos G., to General Motors Corp. Ice block ejecting device. 2,808,708, 10-8-57, Cl. 62-106.
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- Sharpe, William F. Vertical blind construction. 2,809,693, 10-15-57, Cl. 160-176.
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- Payne, Robert E., and Lavanchy. 2,796,173.
- Sadler, Fred S. 2,802,845.
- Sender, Leopold. 2,804,172.
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- Sharts, Earl L., to The Eddy Paper Corp. Containers having flap hold-down means. 2,783,933, 3-5-57, Cl. 229-37.
- Shasky, Florian J. X-ray shield. 2,794,128, 5-28-57, Cl. 250-108.
- Shataloff, Nicholas S., and E. A. Werder, to Buensod-Stacey, Inc. Flow control devices. 2,787,288, 4-2-57, Cl. 138-46.
- Shatkin, Albert B. Ventilator. 2,804,006, 8-27-57, Cl. 98-37.
- Shattuck, Carl W.: *See—*
- Kupka, John J., and Shattuck. 2,789,540.
- Shattuck, Ewart H., to Mohasco Industries, Inc. Tufting machine. 2,810,471, 10-22-57, Cl. 203-110.

- Shaub, Kenneth D.: *See*—
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- Shaughnessy, Bernard F. Apparatus for separating solids from liquids. 2,804,210, 8-27-57, Cl. 210—394.
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- Shaver, Arvel L. Carrier for tobacco harvester. 2,797,822, 7-2-57, Cl. 214—5.5.
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- Shaver, James H.: *See*—
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- Shaver, Lawrence M. Garden hose reel construction. 2,805,100, 9-3-57, Cl. 299—78.
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- Shaver, William R., to Pullman-Standard Car Mfg. Co. Door framing construction. 2,813,496, 11-19-57, Cl. 105—409.
- Shavney, Peter H.: *See*—
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- Shaw, Alan C.: *See*—
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- Shaw, Edgar A. G., and G. J. Thlessen, to National Research Council. Ear defender. 2,801,423, 8-6-57, Cl. 2—209.
- Shaw, Edwin C., and C. W. Farriss, to Perfecting Service Co. Steam trap. 2,790,456, 4-30-57, Cl. 137—184.
- Shaw, Edwin C., and F. E. Frost, to Perfecting Service Co. Rotary joint with plural non-communicating paths and a floating tubular core. 2,805,087, 9-3-57, Cl. 285—134.
- Shaw, Edwin L., to American Brake Shoe Co. Fluid pressure energy translating device. 2,808,812, 10-8-57, Cl. 121—62.
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- Shaw, Harry, to Power Jets (Research and Development) Ltd. Gas turbine measuring device. 2,800,015, 7-23-57, Cl. 73—116.
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- Shaw, Herbert G., to Sargent & Co. Door locks. 2,779,614, 1-29-57, Cl. 292—36.
- Shaw, James J. Combination table and miter guide for portable power saws. 2,803,271, 8-20-57, Cl. 143—6.
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- Shaw, Lyle F., to Borg-Warner Corp. Floating electrical connector for a cabinet door. 2,810,114, 10-15-57, Cl. 339—64.
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- Shaw, Max. Pulse proportional servomotor control system. 2,788,476, 4-9-57, Cl. 318—28.
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- Shearer, Howard E., to American Viscose Corp. Paper products and method of making the same. 2,810,644, 10-22-57, Cl. 92—3.
- Shearer, Newton H., Jr.: *See*—
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- Sheerin, Cleo B.: *See*—
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- Sheets, Francis J.: *See*—
- Swalm, John M., Jr., and Sheets. 2,788,542.
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- Miller, Henry E., and Sheets. 2,796,705.
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 Schoenmakers, Pieter J. 2,809,023.
 Schroeder, Carl W. 2,794,754.
 Schwarzer, Carl G. 2,806,016.
 Scruggs, Joseph A. 2,800,366.
 Shokal, Edward C. 2,809,177.
 Shokal, Edward C., and Devlin. 2,778,855.
 Shokal, Edward C., and Newey. 2,817,644.
 Shokal, Edward C., and Wallingford. 2,792,381.
 Skei, Thurston, and Bonner. 2,780,583.
 Smith, Curtis W., and Evans. 2,809,186.
 Smith, Curtis W., and Norton. 2,784,235.
 Smith, Curtis W., Norton, and Payne. 2,808,442.
 Smith, Curtis W., and Payne. 2,786,854.
 Smith, Grafton A. 2,781,851.
 Stiles, Alan R., Rust, and Vaughan. 2,803,597.
 Te Nuyl, Johannes A. 2,806,517.
 Tess, Roy W. 2,806,046.
 Thomas, Alun, and Winter. 2,792,058.
 Thurston, William H. 2,798,197.
 Tjepkema, Jacobus J. 2,813,910.
 Trainer, Richard P., and Kunreuther. 2,816,011.
 Van Deemter, Jan J., and Rietema. 2,816,659.
 Van den Bussche, Hendrick K. J. 2,781,752.
 Van Der Vaarden, Mathijs, and Hürchner. 2,794,829.
 Van de Wateren, Cornelius G. 2,788,994.
 Van Dijk, Willem J. D. 2,814,552.
 Van Dijk, Willem J. D. 2,814,587.
 Van Dijk, Christiaan P., Max, and de Jonge. 2,802,861.
 Van Dijk, Christiaan P., and van der Plas. 2,813,850.
 Van Dongen, Jan R. J. 2,807,156.
 Van Eck, Constantijn L. V. P. B., and Smithuysen. 2,789,116.
 Van Heiningen, Jan, and Harmsen. 2,816,043.
 Van Olphen, Hendrik. 2,816,866.
 Van 'T Spijker, Peter. 2,796,389.
 Van Winkle, John L. 2,785,197.
 Vaughan, William E., Rust, and Bell. 2,818,441.
 Verberg, Govert. 2,813,834.
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 Wagner, Charles D. 2,811,650.
 Waterman, Hein I., Klinkenberg, and Oelderik. 2,798,889.
 Waterman, Hein I., Klinkenberg, and Oelderik. 2,798,896.
 West, Frank B., and Milligan. 2,791,550.
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 White, Ellis R. 2,813,127.
 Williams, Paul H., Scott, and Borsoff. 2,780,597.
 Williams, Paul H., and Younger. 2,777,819.
 Wist, Edward B., and Andrus. 2,794,407.
 Wistrich, Harry A., and Olney. 2,804,379.
 Woods, Harold A., and Bollinger. 2,813,828.
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- Shell Oil Co.: *See*—
 Bauer, Robert F., McNeill, and Ledbetter. 2,808,229.
 McNeill, Robert C., Stratton, and Rhodes. 2,808,230.
- Shellenberger, Walter J., $\frac{1}{2}$ to C. V. Patterson. Flush tank valve. 2,803,262, 8-20-57, Cl. 137-400.
- Shelley, James P.: *See*—
 Steiger, Fred H., and Shelley. 2,803,563.
 Shelley, Rulon G., to North American Aviation, Inc. Vector filter system. 2,805,022, 9-3-57, C. 235-61.5.
 Shellhorn, Boyd S., to the United States of America as represented by the Secretary of the Army. Sampling circuit for frequency-shift receiver having automatic frequency control. 2,786,134, 3-19-57, Cl. 250-20.
 Shellman, Roy K., and C. H. Leathers, to MacClatchie Mfg. Co. High pressure pump valves. 2,792,016, 5-14-57, Cl. 137-516.29.
 Shell-O-Matic, Inc.: *See*—
 Zimmermann, William F. 2,778,074.
 Shelmire, Stanley R.: *See*—
 Lawson, Robert H., and Shelmire. 2,812,569.
 Shelor, Donald M.: *See*—
 Shelor, Olie W. and D. M. 2,812,665.
 Shelor, Howard J.: *See*—
 Shelor, Olie W. and D. M. 2,812,665.
 Shelor, Olie W. and D. M. 40% to said O. W. Shelor, 20% to said D. M. Shelor, 5% to W. W. Shelor, 5% to H. J. Shelor, and 30% to T. F. Lucas. Correlated sprockets and chain therefor in wrapped relation to one and rectilinear relation to the other. 2,812,665, 11-12-57, Cl. 74-216.5.
 Shelor, Winton W.: *See*—
 Shelor, Olie W. and D. M. 2,812,665.
 Shelton, Darrell R. Safety pin. 2,780,852, 2-12-57, Cl. 24-159.
 Shelton, Earl J., Jr., and A. A. Phillips, to Raytheon Mfg. Co. Heater assemblies for vacuum tubes. 2,815,465, 12-3-57, Cl. 313-337.
 Shelton, Frederic J.: *See*—
 Allyn, Charles L., Barrentine, Hodgins, Shelton, and Rawson. 2,812,309.
 Shelton, Frederic J., and E. M. Barrentine, to Reichhold Chemicals, Inc. Method for producing supported catalyst for oxidation of alcohols to aldehydes. 2,812,308, 11-5-57, Cl. 252-438.
 Shelton, Russell O.: *See*—
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 Shen, Kwan-Ting: *See*—
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 De Groote, Melvin, and Shen. 2,792,360-2,792,364.
 De Groote, Melvin, and Shen. 2,792,367.
 Shen, Tzu E., and J. P. Huggett, to British Dielectric Research Ltd. Means for the deposition of materials by evaporation in a vacuum. 2,793,609, 5-28-57, Cl. 118-49.
 Shen, Tzu E., and J. P. Huggett, to British Dielectric Research Ltd. Electric capacitors. 2,814,091, 11-26-57, Cl. 29-25.42.
 Shenandoah Equipment Co.: *See*—
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 Harris, David H. 2,795,942.
 Shenigo, Michael G., to The Hinde & Dauch Paper Co. Box-sealing machine. 2,804,738, 9-3-57, Cl. 53-374.
 Shenk, William E., to McKay Machine Co. Continuous welding by high frequency induction methods. 2,800,561, 7-23-57, Cl. 219-8.5.
 Shenker, George. Guides on carbon paper. 2,792,239, 5-14-57, Cl. 282-28.
 Shenker, Joseph. Packaged solid fuel. 2,799,563, 7-16-57, Cl. 44-40.
 Shensky, Henry. Smoking devices having filters. 2,801,637, 8-6-57, Cl. 131-202.
 Shep, Rose S. Planter pot. 2,814,911, 12-3-57, Cl. 47-38.
 Shepard, Alvin F., to Hooker Electrochemical Co. Synthesis of meta-substituted phenols. 2,790,010, 4-23-57, Cl. 260-626.
 Shepard, Alvin F., J. T. Cardone, and A. S. Jacobson, to Hooker Electrochemical Co. Vulcanization of butadiene rubbers with the reaction product of formaldehyde and 3,4,5-trialkylphenol. 2,797,204, 6-25-57, Cl. 260-43.
 Shepard, Alvin F., J. T. Cardone, and A. S. Jacobson, to Hooker Electrochemical Co. Product of and process for the vulcanization of butadiene rubbers. 2,813,843, 11-19-57, Cl. 260-43.
 Shepard, Billy R.: *See*—
 Crandell, Robert B., Shepard, and Maulshagen. 2,818,550.
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 Shepard, Edwin R., and K. Gerzon, to Eli Lilly and Co. Alpha, omega-di-substituted alkanes. 2,798,094, 7-2-57, Cl. 260-570.9.
 Shepard, Francis H., Jr. Hammer impelling means in high speed printers. 2,787,210, 4-2-57, Cl. 101-93.
 Shepard, Francis H., Jr. Relay. 2,789,178, 4-16-57, Cl. 200-113.
 Shepard, Francis H., Jr., and C. Gabrielsen, to Rowe Mfg. Co., Inc. Locker battery merchandising machine. 2,808,918, 10-8-57, Cl. 194-1.
 Shepard, Harry W., Jr. Timing device. 2,797,863, 7-2-57, Cl. 235-61.
 Shepard, Harwood. Swivel joint for aluminum boat fittings. 2,801,120, 7-30-57, Cl. 287-91.

- Shepard, Stanley C.: *See*—
Wolfson, Henry, and Shepard. 2,785,349.
- Shepard, Ward, Jr., M. A. Serrell, G. L. Beyer, Jr., and A. F. Robertson. Cathode ray multi-signal measuring and recording apparatus. 2,793,321, 5-21-57, Cl. 315-24.
- Sheperd, James B., to Ransburg Electro-Coating Corp. Apparatus for controlling charged particles. 2,794,416, 6-4-57, Cl. 118-51.
- Shepherd, Charles C., to Ethyl Corp. Gasoline fuel additives. 2,798,797, 7-9-57, Cl. 44-66.
- Shepherd, Douglas A.: *See*—
Campbell, Allan, Shepherd, Ott, and Johnson. 2,816,119.
- Shepherd, Herbert J., 50% to D. R. Jackson. Combination switch and wall plug. 2,784,268, 3-5-57, Cl. 200-51.
- Shepherd, Ivan R. Sucker rod connection device. 2,816,736, 12-17-57, Cl. 255-28.
- Shepherd, Jack D., to Wright Electronic Development Co. Mounting structure for disc-like piezoelectric crystal. 2,817,778, 12-24-57, Cl. 310-9.4.
- Shepherd, James V., to the Minister of Supply in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Ejector for rotating breech automatic guns. 2,807,114, 9-24-57, Cl. 42-68.
- Shepherd, John C. Gel refrigerant and a method of making same. 2,800,454, 7-23-57, Cl. 252-70.
- Shepherd, John C. Method of producing gel refrigerant. 2,800,455, 7-23-57, Cl. 252-70.
- Shepherd, John C. Refrigerant and process for making same. 2,800,456, 7-23-57, Cl. 252-70.
- Shepherd, John C. Refrigerant holdover package. 2,803,115, 8-20-57, Cl. 62-1.
- Shepherd, Joseph H. Quoit projectile. 2,809,837, 10-15-57, Cl. 273-106.
- Shepherd, Neal H., to General Electric Co. Electrical wave filter. 2,777,998, 1-15-57, Cl. 333-70.
- Shepherd, Ray A., to Boeing Airplane Co. Barrel nut with spring retainer member. 2,809,686, 10-15-57, Cl. 151-41.75.
- Shepherd, Thomas L., W. B. Moen, and W. J. Greene, to Air Reduction Co., Inc. Method and apparatus for conveying finely-divided material. 2,806,781, 9-17-57, Cl. 75-53.
- Shepherdson, William L., 66% to J. E. Meacham. Folding furniture. 2,788,060, 4-9-57, Cl. 155-148.
- Shepherdson, William L., 66% to J. E. Meacham. Latch device. 2,790,688, 4-30-57, Cl. 311-104.
- Shepherdson, William L., 66% to J. E. Meacham. Folding furniture. 2,817,567, 12-24-57, Cl. 311-87.
- Shepp, Dale B. Work clamping attachment for rotary saw miter gage. 2,785,709, 3-19-57, Cl. 143-52.
- Sheppard, Clarence A. Arch supporting shoe insert. 2,807,102, 9-24-57, Cl. 36-71.
- Sheppard, Herbert J. Psychophysical driver testing unit. 2,814,131, 11-26-57, Cl. 35-11.
- Sheppard, Howard M. Camshaft lift indicator. 2,776,494, 1-8-57, Cl. 33-181.
- Sheppard, Raymond, to General Electric Co. Solid coupling assembly with centering plug. 2,796,748, 6-25-57, Cl. 64-1.
- Sheppard, Raymond, and G. E. Maxwell, to General Electric Co. Nozzlebox structure for high temperature steam turbine. 2,800,299, 7-23-57, Cl. 253-78.
- Sheppard, Richard H. Tool bar carrier and coupling. 2,784,656, 3-12-57, Cl. 97-47.15.
- Sheppard, Richard H. Grooved cylinder liner. 2,791,209, 5-7-57, Cl. 123-193.
- Sheppard, William L., to Chrysler Corp. Transmission control system. 2,788,678, 4-16-57, Cl. 74-645.
- Shepperd, Peter P. Mop holder. 2,777,143, 1-15-57, Cl. 15-147.
- Sherbondy, William A. Caulking gun. 2,778,541, 1-22-57, Cl. 222-327.
- Sherbondy, William A. Non-drip caulking gun nozzle. 2,781,956, 2-19-57, Cl. 222-491.
- Sherbrook, Victor A., to Regal Shoe Mfg. Co. Method of making an article of footwear. 2,794,995, 6-11-57, Cl. 12-142.
- Sherburne, Philip C., to Grinnell Corp. Adjustment scales for spring devices. 2,784,962, 3-12-57, Cl. 267-1.
- Sherer, Abraham I.: *See*—
Lipkind, Henry, Sherer, and Zara. 2,785,988.
Lipkind, Henry, Sherer, and Zara. 2,791,511.
- Sheridan, Albert F., to Schultz-Sweetman-Sheridan, Inc. Corn cutter head. 2,792,839, 5-21-57, Cl. 130-9.
- Sheridan, Joseph J. Musical cans. 2,792,737, 5-21-57, Cl. 84-94.
- Sheridan Products Inc.: *See*—
Wackerhagen, Edward N. 2,810,502.
- Sheridan, T. W. & C. B. Co.: *See*—
Kleineberg, Paul E., and Roseman. 2,812,847.
Mitchell, John. 2,796,255.
- Sherlock, James, and N. E. Dines, to Metropolitan-Vickers Electrical Co. Ltd. Electric motor control systems. 2,807,768, 9-24-57, Cl. 318-331.
- Sherlock, John E., to The British Thermostat Co. Ltd. Gas valves. 2,813,682, 11-19-57, Cl. 236-99.
- Sherman, Arthur E.: *See*—
Blatt, Leland F., and Sherman. 2,783,797.
- Sherman, Carroll J. Cooking burner control and thermostat. 2,781,038, 2-12-57, Cl. 126-52.
- Sherman, Charles A.: *See*—
McNamara, John E., and Sherman. 2,817,937.
- Sherman, Cletus P.: *See*—
Miller, John W., and Sherman. 2,785,509.
- Sherman, Donald W., to A. O. Smith Corp. Combined hitching mechanism and trailer bearing support. 2,784,984, 3-12-57, Cl. 280-440.
- Sherman, Donald W., to A. O. Smith Corp. Apparatus for automatically fabricating vehicle frames. 2,804,962, 9-3-57, Cl. 198-19.
- Sherman, Floyd A., to Motor Products Corp. Constant torque pulley. 2,792,095, 5-14-57, Cl. 192-58.
- Sherman, Floyd A., to Motor Products Corp. Hydraulic pump structure. 2,797,643, 7-2-57, Cl. 103-38.
- Sherman, Floyd A., to Motor Products Corp. Adjustable seat structure. 2,797,733, 7-2-57, Cl. 155-14.
- Sherman, Gale K., to General Dynamics Corp. Chair back. 2,783,821, 3-5-57, Cl. 155-5.
- Sherman, George T. Spike or bolt puller. 2,776,108, 1-1-57, Cl. 254-27.
- Sherman, Harold F. Woven elastic fabric or webbing. 2,804,099, 8-27-57, Cl. 139-423.
- Sherman, Harold F. Method for producing a woven elastic bandage or like fabric. 2,810,184, 10-22-57, Cl. 28-76.
- Sherman, Jacob L. Shoe last. 2,777,139, 1-15-57, Cl. 12-136.
- Sherman Laboratories: *See*—
Kober, Philip A. 2,809,970.
- Sherman, Orville B. Apparatus for extruding plastic tubes. 2,780,835, 2-12-57, Cl. 18-14.
- Sherman, Orville B., to Owens-Illinois Glass Co. Method of forming hollow plastic articles. 2,783,503, 3-5-57, Cl. 18-55.
- Sherman, Orville B., to Owens-Illinois Glass Co. Method of forming hollow plastic articles. 2,804,654, 9-3-57, Cl. 18-55.
- Sherman, Orville B., to Owens-Illinois Glass Co. Double-walled container and method of fabricating. 2,805,787, 9-10-57, Cl. 220-15.
- Sherman, Roger M., to W. R. Ames Co. Suction coupling with fluid pressure actuated seal. 2,808,275, 10-1-57, Cl. 285-104.
- Sherman, Russell G.: *See*—
Kessler, Harold D., and Sherman. 2,804,409.
- Sherman, Wilbur G.: *See*—
Colling, Charles E., and Sherman. 2,780,213.
- Sherman, William S., and R. S. Krause, to Cory Corp. Magnetically-operated index. 2,794,282, 6-4-57, Cl. 40-104.
- Sherratt, George W., and C. E. Hahn, to General Electric Co. Electrostatic method and apparatus for lining molds. 2,795,512, 6-11-57, Cl. 117-3.3.
- Sherrick, Everett B.: *See*—
Kolbe, Adelbert E., and Sherrick. 2,815,682.
- Sherrick, James W., to Westinghouse Air Brake Co. Miniature circuit controllers. 2,814,680, 11-26-57, Cl. 200-16.
- Sherrick, Noah V., Jr. Wagon or truck body. 2,800,358, 7-23-57, Cl. 296-14.
- Sherrill, John F., $\frac{3}{4}$ to E. R. Lemert, and $\frac{1}{4}$ to Indianapolis Bond and Share Corp. Riveting machine. 2,795,981, 6-18-57, Cl. 78-42.
- Sherrington, John E., to Purdy Machinery Co. Ltd. Apparatus for feeding sheets, such as labels, from a pack to positions at which they are required. 2,808,955, 10-8-57, Cl. 216-55.
- Sherritt Gordon Mines Ltd.: *See*—
Herrmann, Walter A. O. Re. 24,298.
- Sherron, Percival H. Air conditioned telephone booth. 2,788,648, 4-16-57, Cl. 62-140.
- Sherron, Percival H. Telephone booth built-in directory holder. 2,816,330, 12-17-57, Cl. 20-3.5.
- Sherry, Peter, and J. Corrigan. Temperature responsive control for fuel and water vaporizers in combustion chamber. 2,805,547, 9-10-57, Cl. 60-39.28.
- Sherry, Robert C. Drafting instruments. 2,810,197, 10-22-57, Cl. 33-17.
- Sherwen, Theo, to Massey-Harris-Ferguson Inc. Hitch connections between tractive vehicles and devices trailed thereby using power means for lifting a coupling element. 2,805,083, 9-3-57, Cl. 280-479.
- Sherwin, Chalmers W., to the United States of America as represented by the Secretary of the Navy. Majority vote diversity system. 2,803,703, 8-20-57, Cl. 178-70.
- Sherwin, George F. Immersion heaters for bathroom tanks. 2,789,201, 4-16-57, Cl. 219-41.
- Sherwin, John C., to the United States of America as represented by the Secretary of the Navy. Spherodizer. 2,788,959, 4-16-57, Cl. 263-21.
- Sherwin, Raymond F., to The Chicago Hardware Foundry Co. Steel alloy welding rod and joint deposit. 2,805,152, 9-3-57, Cl. 75-125.
- Sherwin-Williams Co., The: *See*—
Armstrong, Ralph S. 2,778,740.
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Asbeck, Hans J., and Harter. 2,804,044.
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Grummitt, Oliver J. 2,804,467.
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Ogren, Axel E. 2,780,960.

- Sherwin-Williams Co., The: See—Continued
 Sahli, Vincent L. 2,780,559.
 Stack, Aaron, and Shaver. 2,802,858.
 Stack, Aaron, and Shaver. 2,802,860.
 Taylor, Robert S. 2,794,007.
 Unger, Maynard B. 2,777,837.
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- Sherwood, Bert J.: See—
 Jenkins, Robert W., Nadler, Sherwood, and Zeiberger. 2,807,657.
- Sherwood, Bert J., to North American Aviation, Inc. Laminated cobalt catalytic screen. 2,811,490, 10-29-57, Cl. 252-477.
- Sherwood, Henry A., to Infra Electronic Corp. Sound recording and/or reproducing device. 2,786,559, 3-26-57, Cl. 192-9.
- Sherwood, Henry A. Sound recording and reproducing apparatus. 2,786,893, 3-26-57, Cl. 179-100.1.
- Sherwood, John F. Devices for utilizing the thermal expansion of wax. 2,815,642, 12-10-57, Cl. 60-23.
- Sherwood, Ralph L., to Radio Corp. of America. Power semiconductor devices. 2,809,332, 10-8-57, Cl. 317-235.
- Sherwood, Walter A.: See—
 Modrovsky, Joseph, and Sherwood. 2,777,394.
- Sheshunoff, Victor: See—
 Whitfield, Marshall G., and Sheshunoff. 2,800,707.
- Shesklir, Alexander. Continuous electric outlet. 2,781,497, 2-12-57, Cl. 339-21.
- Shesler, Laurence F. Refitting flush valves. 2,797,536, 7-2-57, Cl. 51-187.
- Shetler, William A. Bowling grip ball. 2,799,943, 7-23-57, Cl. 33-174.
- Shetron, David E. Television antenna. 2,777,123, 1-8-57, Cl. 343-804.
- Shevell, Walter I.: See—
 Mounteer, Carlyle A., Chrones, Manildi, and Shevell. 2,785,570.
- Shevzov, Theodore: See—
 Gerke, Roscoe H., and Shevzov. 2,791,519.
 Gerke, Roscoe H., and Shevzov. 2,791,520.
- Shew, Glenn B. Combined walking stick and stool. 2,798,536, 7-9-57, Cl. 155-136.
- Shibata, Sunao: See—
 Kurata, Motoharu, and Shibata. 2,793,471.
- Shick, Philip E., to The Mead Corp. Pulp manufacture. 2,788,273, 4-9-57, Cl. 92-2.
- Shickel, Harold C., and E. J. Francis. Poultry gizzard Skinner. 2,791,798, 5-14-57, Cl. 17-11.
- Shield, Lansing P.: See—
 Just, George A., and Shield. 2,776,843.
 Just, George A., and Shield. 2,808,946.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Sheet inverting mechanism. 2,776,831, 1-8-57, Cl. 270-1.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Gluing machine with rockable platen for carton machines. 2,787,239, 4-2-57, Cl. 118-1.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Duplex take-off table. 2,789,709, 4-23-57, Cl. 214-6.
- Shields, Charles C. Hanger. 2,787,435, 4-2-57, Cl. 248-307.
- Shields, George B., and R. D. Stepp, to Pittsburgh Plate Glass Co. Method for stretching plastic interlayers. 2,817,117, 12-24-57, Cl. 18-48.
- Shields, James B., to Elliott Co. Supercharged steam generating system. 2,780,207, 2-5-57, Cl. 122-479.
- Shields, Robert: See—
 French, Ralph W., Shields, and Pond. 2,782,709.
- Shields, Robert A., to American Car and Foundry Co. Drop bottom mine car. 2,815,721, 12-10-57, Cl. 105-286.
- Shields, Ronald E., R. T. Findlay, and F. Fitzgerald. Deodorant dispenser. 2,778,678, 1-22-57, Cl. 299-24.
- Shields, Samuel T., and A. Knudsen, to The H & R Mfg. Co. Window buck. 2,787,820, 4-9-57, Cl. 25-131.
- Shields, William D., to Voss Engineering Co. Multiple roller levellers for metal strip. 2,796,908, 6-25-57, Cl. 153-2.
- Shiffman, Jerome. Display containers. 2,807,355, 9-24-57, Cl. 206-45.2.
- Shiffman, Jerome. Magnifiers and eye-shields. 2,812,688, 11-12-57, Cl. 88-39.
- Shifrer, Martin G., to International Harvester Co. Separator and cover for cylindrical objects. 2,788,894, 4-16-57, Cl. 206-65.
- Shigley, Donald G., to General Motors Corp. Method of impregnating a porous metal article. 2,817,601, 12-24-57, Cl. 117-131.
- Shill, Karl. Earring pad having a diaphragm for varying the pressure exerted on the ear. 2,795,118, 6-11-57, Cl. 63-14.
- Shilliday, Theodore S., C. S. Peet, and A. E. Middleton, to the United States of America as represented by the Secretary of the Air Force. Method of making titanium-dioxide rectifiers. 2,812,273, 11-5-57, Cl. 148-6.3.
- Shillitoe, George S., and A. D. Harford, to The British Petroleum Co. Ltd. Pyrethrum pesticide synergized with lower alkyl aryl ketone. 2,793,154, 5-21-57, Cl. 167-24.
- Shimabukuro, Leona S., to H. Y. W. Kim. Baby stroller protectors. 2,789,863, 4-23-57, Cl. 296-78.
- Shimazaki, Sadao. Coke oven door. 2,803,592, 8-20-57, Cl. 202-248.
- Shimer, Ernest E. Carton opening machine. 2,795,845, 6-18-57, Cl. 30-2.
- Shimizu, Takakuni. Loud-speaker mounted in front panel of open back cabinet. 2,797,765, 7-2-57, Cl. 181-31.
- Shimwell, Derrick W., to Weaving Research & Textile Commission Agents Ltd. Woven textile fabrics. 2,795,244, 6-11-57, Cl. 139-383.
- Shimwell, Derrick W., to Weaving Research & Textile Commission Agents Ltd. Looms for weaving. 2,816,576, 12-17-57, Cl. 139-123.
- Shimwell, Derrick W., to Weaving Research & Textile Commission Agents Ltd. Looms for weaving. 2,816,577, 12-17-57, Cl. 139-195.
- Shinn, B. Claude. Enunciating telescope. 2,782,529, 2-26-57, Cl. 35-43.
- Shinn, Byron H., to United Aircraft Corp. Stator ring construction. 2,812,158, 11-5-57, Cl. 253-78.
- Shinoda, Daniel S.: See—
 Sueda, Robert H., and Shinoda. 2,812,141.
- Shinohara, Kamenosuke. Process for determining sugar content in blood. 2,787,597, 4-2-57, Cl. 252-408.
- Shipe, Paul J., to General Motors Corp. Method of impregnating a porous ferrous part with copper. 2,778,742, 1-22-57, Cl. 117-37.
- Shipe, Paul J., and A. Stosuy, to General Motors Corp. Method of making high density sintered parts. 2,789,901, 4-23-57, Cl. 75-214.
- Shipley, Garland H., and W. E. Rutherford. Automatic form stop attachment for addressograph machines. 2,787,951, 4-9-57, Cl. 101-56.
- Shipman, Roy W., and K. S. McMullan, to Weltronic Co. Electrical control apparatus. 2,813,245, 11-12-57, Cl. 323-58.
- Shippee, Fred B., and M. D. Hurwitz, to Rohm & Haas Co. Sized textile and method of fabricating yarn into fabric. 2,807,865, 10-1-57, Cl. 28-76.
- Shippee, Melvin W. Rotary disc mower with adjustable motor-cutter unit. 2,810,251, 10-22-57, Cl. 56-25.4.
- Shipp, Dwayne A.: See—
 Schaedler, John J., and Shipp. 2,783,116.
- Shippy, William J. Loading apparatus for vehicles. 2,808,947, 10-8-57, Cl. 214-75.
- Shipton, E., & Co. Ltd.: See—
 Hutchings, Kenneth J. 2,815,494.
- Shiraishi, Yushiro, to Osaka Kinzoku Kogyo Co., Ltd. Anti-fouling paint. 2,800,412, 7-23-57, Cl. 106-15.
- Shirer, Hampton W.: See—
 Meryman, Harold T., and Shirer. 2,787,784.
- Shirey, Frank W.: See—
 Glass, William H., and Shirey. 2,817,356.
- Shirk, John F., to Perfect Circle Corp. Piston ring assembly and piston ring expander. 2,782,084, 2-19-57, Cl. 309-43.
- Shirk, John F., to Perfect Circle Corp. Piston ring assembly. 2,804,361, 8-27-57, Cl. 309-45.
- Shirk, Robert M., to Houdry Process Corp. Solids lift disengager. 2,813,757, 11-19-57, Cl. 302-53.
- Shirk, Russell O. Peanuts and method of preparing same for edible consumption. 2,813,029, 11-12-57, Cl. 99-126.
- Shirley, Dennis R.: See—
 Batson, Dossie, and Shirley. 2,784,850.
- Shirley, Paul S., to Nordberg Mfg. Co. Two stroke cycle engine with compression control valve means. 2,802,460, 8-13-57, Cl. 123-65.
- Shiroyanagi, Kenji: See—
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- Shiu, Thomas B.: See—
 Cummings, Thomas N., Peterson, and Shiu. 2,805,095.
- Shive, John N., to Bell Telephone Laboratories, Inc. Alternating current gate. 2,790,088, 4-23-57, Cl. 250-211.
- Shive, Scott L., to the United States of America as represented by the Secretary of the Army. Signal translating circuits. 2,793,346, 5-21-57, Cl. 324-79.
- Shively, Harmon G., to The B. F. Goodrich Co. Electrical decoding and work actuating apparatus. 2,799,812, 7-16-57, Cl. 317-149.
- Shively, John J.: See—
 Van Deventer, Harry R., and Shively. 2,777,013.
 Van Deventer, Harry R., Shively, and Bailey. 2,799,726.
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- Shively, John J., to Telephone Answering and Recording Corp. Reproducing apparatus. 2,777,898, 1-15-57, Cl. 179-6.
- Shively, Paul R.: See—
 Williamson, James H., and Shively. 2,788,228.
- Shivers, Joseph C., Jr., to E. I. du Pont de Nemours and Co. Dyeable polyesters. 2,777,830, 1-15-57, Cl. 260-75.
- Shlechter, Joseph. Orthoptic spectacles. 2,817,332, 12-24-57, Cl. 128-76.5.
- Shlesinger, Bernard E., Jr. Fountain pen. 2,805,646, 9-10-57, Cl. 120-47.
- Shnek, Eugene R., to Pulse Techniques, Inc. Constant amplitude oscillator. 2,786,944, 3-26-57, Cl. 250-36.
- Shnitzler, Meyer J., T. P. Norton, and R. McDonald, to The Gillette Co. Article with corrosion-inhibited surface and composition for coating said surface. 2,776,917, 1-8-57, Cl. 148-6.14.
- Shoaf, Floyd R. Stitching severing device for seaming machines. 2,787,231, 4-2-57, Cl. 112-16.
- Shoaf, James R., II, to Radio Corp. of America. Voltage dropping system for phonographs with amplifiers. 2,789,235, 4-16-57, Cl. 307-112.

- Shoalts, Richard L. Door lock. 2,788,996, 4-16-57, Cl. 292-336.3.
- Shobe, Chester L. Pipe joint tool. 2,817,984, 12-31-57, Cl. 78-47.
- Shobe, Henry E., to Phillips Petroleum Co. Off set internal heat exchanger bundles. 2,801,082, 7-30-57, Cl. 257-198.
- Shobert, Samuel M. Method of fabricating glass rod. 2,786,793, 3-26-57, Cl. 154-91.
- Shock, D'Arcy A.: *See*—
Clark, Roscoe C., Jr., Coffey, and Shock. 2,803,555.
- Shock, D'Arcy A., and J. D. Sudbury, to Continental Oil Co. Oil well inhibitor. 2,785,127, 3-12-57, Cl. 252-8.55.
- Shockency, Wilford S.: *See*—
Kaiser, Harold R., Lane, and Shockency. 2,784,396.
- Shockey, Newton E., and H. W. Wilkins, to V. D. L. Corp. Mechanism for making wire reinforced fabric spring liners or the like. 2,800,151, 7-23-57, Cl. 140-3.
- Shockley, Emerson G. Match box. 2,795,324, 6-11-57, Cl. 206-36.
- Shockley, Roy E., to Platalloy Corp. Tin-copper-cadmium electro-plating. 2,802,780, 8-13-57, Cl. 204-44.
- Shockley, William, to Bell Telephone Laboratories, Inc. Asymmetric wave guide structure. 2,777,906, 1-15-57, Cl. 179-171.
- Shockley, William, to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. 2,778,885, 1-22-57, Cl. 179-171.
- Shockley, William, to Bell Telephone Laboratories, Inc. Forming semiconductive devices by ionic bombardment. 2,787,564, 4-2-57, Cl. 148-1.5.
- Shockley, William, to Bell Telephone Laboratories, Inc. Nonreciprocal circuits employing negative resistance elements. 2,794,864, 6-4-57, Cl. 179-171.
- Shockley, William, to Bell Telephone Laboratories, Inc. High frequency negative resistance device. 2,794,917, 6-4-57, Cl. 250-36.
- Shockley, William, to Bell Telephone Laboratories, Inc. Semiconductor device. 2,813,233, 11-12-57, Cl. 317-235.
- Shockley, William, to Bell Telephone Laboratories, Inc. Method of fabricating semiconductor signal translating devices. 2,816,847, 12-17-57, Cl. 143-1.5.
- Shockley, William H.: *See*—
Van Horn, Willis M., Shema, Shockley, and Conkey. 2,811,442.
- Shoe Form Co. Inc.: *See*—
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- Shoemaker, Edwin J.: *See*—
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Knabusch, Edward M., and Shoemaker. 2,779,392.
Knabusch, Edward M., and Shoemaker. 2,779,393.
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- Shoemaker, Evelyn. Artificial butterfly. 2,793,454, 5-28-57, Cl. 41-10.
- Shoemaker, George W., to Arketex Ceramic Corp. Building tile package. 2,778,489, 1-22-57, Cl. 206-65.
- Shoemaker, John H.: *See*—
Dunlevy, Ralph, Frick and Shoemaker. 2,800,420.
- Shoemaker, Norris E.: *See*—
Dye, Edward R., and Shoemaker. 2,784,006.
- Shoemaker, Robert: *See*—
Larson, Robert, and Shoemaker. 2,777,541.
- Shoemaker, William E., to California Research Corp. Noise elimination in FM recording. 2,807,797, 9-24-57, Cl. 340-174.
- Shoffner, Willie M., to Roto-Table Co. Packaging device. 2,781,622, 2-19-57, Cl. 53-258.
- Shokal, Edward C.: *See*—
Hearne, George W., La France, and Shokal. 2,809,185.
Mueller, Albert C., and Shokal. 2,795,572.
- Shokal, Edward C., to Shell Development Co. Polyhydroxy-substituted polyethers, their preparation and resinous products prepared therefrom. 2,809,177, 10-8-57, Cl. 260-18.
- Shokal, Edward C., and P. A. Devlin, to Shell Development Co. Production of hydroxy ethers. 2,778,855, 1-22-57, Cl. 260-613.
- Shokal, Edward C., and H. P. Wallingford, to Shell Development Co. Epoxy ether of acetylenic alcohols and their polymers. 2,792,381, 5-14-57, Cl. 260-47.
- Shokal, Edward C., and H. A. Newey, to Shell Development Co. Process for curing polyepoxides and resulting products. 2,817,644, 12-24-57, Cl. 260-47.
- Sholle, Roger W.: *See*—
Shoup, Thomas E., and Sholle. 2,779,859.
Shoup, Thomas E., Sholle, and Mowry. 2,788,433.
Shoup, Thomas E., Sholle, and Mowry. 2,814,716.
- Sholty, George D. Cigarette packaging arrangement. 2,782,788, 2-26-57, Cl. 131-4.
- Sho-Me, Inc.: *See*—
Fitzgerald, Maurice. 2,782,011.
- Shomphe, George J., to Sanders Associates, Inc. Gyroscope. 2,805,577, 9-10-57, Cl. 74-5.
- Shone, Samuel M. Child's high chair. 2,816,598, 12-17-57, Cl. 155-144.
- Shonnard, Clarence W.: *See*—
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- Shonts, James G., and S. H. Stephenson, to the United States of America as represented by the Secretary of the Navy. Automatic ammunition loading device. 2,781,696, 2-19-57, Cl. 89-45.
- Shontz, Loran A., Jr.: *See*—
Andrews, Boley A., Sabin, and Shontz. 2,783,917.
- Shook, Alvin L. Apparatus for dispensing minnows. 2,791,862, 5-14-57, Cl. 43-56.
- Shook, Austen M.: *See*—
Johnston, Rowland W., Jr., and Shook. 2,792,708.
- Shook, Thurston W., II. Combined fuel injection and ignition system for internal combustion engines. 2,795,214, 6-11-57, Cl. 123-32.
- Shookhoff, Martin W., to Fries & Fries, Inc. Process for preparing free-flowing sugar powders. 2,818,356, 12-31-57, Cl. 127-30.
- Shoor, Bernard A. Cycle ergometer. 2,784,591, 3-12-57, Cl. 73-379.
- Shopmaster, Inc.: *See*—
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- Shore-Calnevar, Inc.: *See*—
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- Shore, Lynwood D. Electrical conduit box locator. 2,788,151, 4-9-57, Cl. 220-3.4.
- Shorr, Leonard M.: *See*—
Speier, John L., and Shorr. 2,811,542.
- Shorr, William: *See*—
Hack, Andrew J., Shapiro, and Shorr. 2,802,895.
Hack, Andrew J., Shapiro, and Shorr. Re. 24,408.
- Shorr, William, to the United States of America as represented by the Secretary of the Army. Electrode films for miniature or high rate batteries. 2,778,754, 1-22-57, Cl. 136-137.
- Short, Brooks H.: *See*—
Cromwell, Harold J., and Short. 2,788,414.
- Short, Brooks H., to General Motors Corp. Vehicle electrical system. 2,809,301, 10-8-57, Cl. 290-50.
- Short, Fred R.: *See*—
Wheatley, John B., Gaubatz, and Short. 2,800,273.
- Short, Gordon: *See*—
Linnert, Arthur, and Short. 2,810,937.
- Short, Harold O., to The Black & Decker Mfg. Co. Sanding disk. 2,800,752, 7-30-57, Cl. 51-197.
- Short, James N., to Phillips Petroleum Co. Phosphonic diamides. 2,818,406, 12-31-57, Cl. 260-80.
- Short, Kathleen: *See*—
Short, Wallace F., and Watkins. 2,803,629.
- Short, Konrad, to Truvox Ltd. Magnetic recording apparatus. 2,799,732, 7-16-57, Cl. 179-100.2.
- Short, Oliver A., to E. I. du Pont de Nemours and Co. Ceramic color compositions. 2,807,555, 9-24-57, Cl. 106-272.
- Short, Oliver G., to General Steel Castings Corp. Railway motor truck structure. 2,811,113, 10-29-57, Cl. 105-132.1.
- Short, Philip J., to S. S. S. Gears Ltd. Rotary power transmission mechanisms. 2,795,964, 6-18-57, Cl. 74-339.
- Short, Roland W. P., and H. D. Williams, to E. I. du Pont de Nemours and Co. Process for preparing biphenyl derivatives. 2,809,210, 10-8-57, Cl. 260-515.
- Short, Thomas, to the United States of America as represented by the Secretary of the Air Force. Speed responsive circuit. 2,779,909, 1-29-57, Cl. 323-71.
- Short, Wallace F. deceased (Kathleen Short, executrix), S. Rise, and T. I. Watkins. Quaternary salts of pyrimidyl-amino-phenanthridines. 2,803,629, 8-20-57, Cl. 260-256.4.
- Short, William P., P. D. Goodman, and O. E. Mattiat, to Clevite Corp. Ice detector. 2,789,281, 4-16-57, Cl. 340-234.
- Shortell, William H., to Millers Falls Co. Hole saws. 2,794,469, 6-4-57, Cl. 145-120.
- Shorten, Frederick J., and L. Zimmerman, to Owens-Illinois Glass Co. Method of and apparatus for producing thermometers. 2,793,480, 5-28-57, Cl. 53-12.
- Shorter, Sydney A., to The British Cotton Industry Research Association. Loom take-up motions. 2,813,551, 11-19-57, Cl. 139-312.
- Shorter, Zen Z.: *See*—
Mitchell, Raymond P., and Shorter. 2,817,920.
- Shortland, Arthur, to Mellor Bromley & Co. Ltd. Change speed mechanism. 2,782,649, 2-26-57, Cl. 74-230.16.
- Shortridge, Robert W., to Commercial Solvents Corp. Recovery and purification of bacitracin. 2,776,240, 1-1-57, Cl. 167-65.
- Shorts, Calhoun. Method and apparatus for making fiber-reinforced sheet material. 2,784,763, 3-12-57, Cl. 154-1.75.
- Shotey, William. Grinding wheel. 2,799,979, 7-23-57, Cl. 51-206.5.
- Shotsky, Nathan, $\frac{1}{4}$ to H. Zauderer, $\frac{1}{4}$ to B. Zauderer, and $\frac{1}{4}$ to D. H. Turkel. Apparatus in a multiple-needle automatic quilting machine. Re. 24,305, 4-23-57, Cl. 112-100.
- Shotsky, Nathan, $\frac{1}{4}$ to H. Zauderer, $\frac{1}{4}$ to B. Zauderer, and $\frac{1}{4}$ to D. H. Turkel. Method of decorating a fabric with superposed thread. 2,813,501, 11-19-57, Cl. 112-266.
- Shotwell, Irwin C. Stake type bunks. 2,793,049, 5-21-57, Cl. 280-145.
- Shoup, Frederic F., to Radio Corp. of America. Electronic synchronous converters. 2,806,989, 9-17-57, Cl. 321-2.
- Shoup, Norman H., to the United States of America as represented by the Secretary of the Navy. Grating strain gauges. 2,787,834, 4-9-57, Cl. 33-147.
- Shoup, Thomas E., and R. W. Sholle, to Gregory Industries, Inc. Stud welding device. 2,779,859, 1-29-57, Cl. 219-98.
- Shoup, Thomas E., R. W. Sholle, and L. J. Mowry, to Gregory Industries, Inc. Stud welding gun. 2,788,433, 4-9-57, Cl. 219-98.

- Shoup, Thomas E., R. W. Sholle, and L. J. Mowry, to Gregory Industries, Inc. Stud welding method and device. 2,814,716, 11-26-57, Cl. 219-98.
- Showalter, Clayton W. Packer unit and packing ring for pipe testing apparatus. 2,797,758, 7-2-57, Cl. 166-204.
- Showell, Henry, to Henry Showell Ltd. Expandable bracelet with detachable end connections and a latch therefor. 2,781,631, 2-19-57, Cl. 59-79.
- Showell, Henry, Ltd.: *See*—
Showell, Henry. 2,781,631.
- Showers, Lewis M.: *See*—
Newcomer, Garfield H., Nagy, and Showers. 2,817,304.
- Shox-Stok, Inc.: *See*—
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- Shrader, Marvin O.: *See*—
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- Shrader, Marvin O., and H. L. Dimond, to Pittsburgh Coke & Chemical Co. Purification of phthalic anhydride. 2,809,926, 10-15-57, Cl. 202-57.
- Shrader, Ross E., to Radio Corp. of America. Damping device for an analytical balance. 2,801,840, 8-6-57, Cl. 265-54.
- Shreve, Warren T., and R. J. McCurdy, to Radio Corp. of America. Cathode ray tube deflection yoke interference elimination. 2,790,932, 4-30-57, Cl. 315-26.
- Shrider, Forest E. Terminal connector. 2,777,117, 1-8-57, Cl. 339-100.
- Shrider, Kenneth L., and R. W. Pfaff, to The Reliance Electric & Engineering Co. Saturable reactor control circuit. 2,809,342, 10-8-57, Cl. 323-89.
- Shrode, Wilford E., to Brasco Mfg. Co. Store front construction. 2,813,313, 11-19-57, Cl. 20-56.4.
- Shropshire, Elwood Y.: *See*—
Craig, W. E., Shropshire, and Wilson. 2,776,988.
Craig, W. E., Shropshire, and Wilson. 2,776,989.
Craig, W. E., Shropshire, and Wilson. 2,794,054.
Wilson, Harold F., Shropshire, and Craig. 2,812,280.
- Shropshire, Robert C., to Ace Glass Inc. Tube holding clamp. 2,783,076, 2-26-57, Cl. 294-19.
- Shrubbsall, Arthur E., to Union Carbide Corp. Welding composition for hard facing. 2,807,562, 9-24-57, Cl. 148-26.
- Shryack, Homer D., 49% to W. E. Hyde. Barbecue oven. 2,790,380, 4-30-57, Cl. 99-427.
- Shubert, William M. Obstetrical instrument. 2,811,969, 11-5-57, Cl. 128-303.
- Shubin, Peter S.: *See*—
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- Shuck, Luther P. Continuous movement irrigation systems. 2,801,132, 7-30-57, Cl. 299-47.
- Shuck, Wayne L., and D. M. Paxton. Method and apparatus for testing combustion engines. 2,811,852, 11-5-57, Cl. 73-116.
- Shuffman, Oscar, to Hudson Foam Plastics Corp. Manufacture of expanded materials. 2,816,741, 12-17-57, Cl. 259-8.
- Shuford Mills: *See*—
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- Shuford Mills, Inc.: *See*—
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- Shugarmen, Alvin E., to Vaco Products Co. Display and storage rack. 2,797,817, 7-2-57, Cl. 211-96.
- Shukait, David. Method of making baskets. 2,787,821, 4-9-57, Cl. 25-155.
- Shukys, Julius G., to Air Reduction Co., Inc. Fluoro ethers and method of preparation. 2,781,405, 2-12-57, Cl. 260-614.
- Shuler, Thomas C., Jr.: *See*—
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- Shull, Gilbert M., to Chas. Pfizer & Co., Inc. Preparation of Δ^4 -3-keto steroids from Δ^4 -3-keto steroids by protaminobacter. 2,776,927, 1-8-57, Cl. 194-51.
- Shull, Gilbert M., to Chas. Pfizer & Co., Inc. Preparation of 3-keto- Δ^4 -steroids from 3-keto- Δ^4 -steroids with micro-monospora. 2,809,919, 10-15-57, Cl. 195-51.
- Shull, Gilbert M., D. A. Kita, and J. W. Davisson, to Chas. Pfizer & Co., Inc. 7,14a,17a,21-tetroxy progesterones. 2,783,255, 2-26-57, Cl. 260-397.45.
- Shulters, Robert B.: *See*—
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- Shulton Inc.: *See*—
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- Shults, Isaac N. Draft control. 2,814,287, 11-26-57, Cl. 126-140.
- Shultz, Edward L., to Endicott Johnson Corp. Liner for metal toe boxes. 2,795,868, 6-18-57, Cl. 36-77.
- Shum, Alden F. Vehicle spring suspension. 2,782,050, 2-19-57, Cl. 280-124.
- Shumaker, Emery D., and J. H. Bowman, to Plastic Top Fabricators, Inc. Table top construction. 2,813,766, 11-19-57, Cl. 311-106.
- Shumaker, Ephraim H., to Rotherm Engineering Co., Inc. Liquid-tight and gas-tight rotating tubular joints. 2,805,086, 9-3-57, Cl. 285-134.
- Shuman, Everett C.: *See*—
Soubier, Leonard D., and Shuman. 2,787,345.
- Shuman, Frank R.: *See*—
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- Shuman, Richard C.: *See*—
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- Shumard, Charles C., to Radio Corp. of America. Signal-amplitude responsive circuit. 2,782,373, 2-19-57, Cl. 332-11.
- Shumard, Roland S.: *See*—
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- Shumard, Roland S., to Monsanto Chemical Co. Antiseptic soap composition. 2,795,554, 6-11-57, Cl. 252-107.
- Shumard, Roland S., to Monsanto Chemical Co. Antiseptic soap composition. 2,795,555, 6-11-57, Cl. 252-107.
- Shunk, Clifford H.: *See*—
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- Shur, Ira, to Waldes Kohinoor, Inc. Quick-acting nut having thread segments lever actuated by entrance of bolt. 2,814,324, 11-26-57, Cl. 151-19.
- Shur, Ira, to Waldes Kohinoor, Inc. Nut with moving segments which are simultaneously actuated. 2,814,325, 11-26-57, Cl. 151-19.
- Shuron Optical Co., Inc.: *See*—
Jerry, Carl R. 2,793,741.
- Shutler, Arnold W.: *See*—
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- Shutt, Andrew E. Apparatus for removing finishes. 2,817,300, 12-24-57, Cl. 104-48.
- Shutt, Ralph P.: *See*—
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- Shuttleworth, David H.: *See*—
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- Shvets, Roman E. Measuring and dispensing devices. 2,787,405, 4-2-57, Cl. 222-455.
- Shwayder Bros., Inc.: *See*—
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- Shwayder Brothers: *See*—
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- Sibbald, Frederick R.: *See*—
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- Sibbald, Frederick R., to The Hoover Co. Electrical switch. 2,786,905, 3-26-57, Cl. 200-5.
- Sibbald, Frederick R., to The Hoover Co. Squeeze driers. 2,793,519, 5-28-57, Cl. 68-242.
- Sibbald, Frederick R., to The Hoover Co. Torsion bar laundry wringers. 2,800,011, 7-23-57, Cl. 68-259.
- Sibert, Merle E.: *See*—
Kolk, Anthony J., Jr., and Sibert. 2,813,005.
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- Sibley, Craig R.: *See*—
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- Sibley, George H. Window construction. 2,796,121, 6-18-57, Cl. 160-90.
- Sibley, Henry C., to General Railway Signal Co. Electronic code communication system. 2,794,179, 5-28-57, Cl. 340-163.
- Sibley, John R., to Joy Mfg. Co. Apparatus for continuous mining and loading. 2,798,713, 7-9-57, Cl. 262-29.
- Sibley, Winfred C.: *See*—
Cade, Phillip J., and Sibley. 2,810,879.
- Sichak, William, to International Telephone and Telegraph Corp. Antenna. 2,790,169, 4-23-57, Cl. 343-756.
- Sichak, William, to International Telephone and Telegraph Corp. Antenna systems. 2,794,185, 5-28-57, Cl. 343-786.
- Sichak, William, and J. J. Nail, to International Telephone and Telegraph Corp. Helical antenna system. 2,781,514, 2-12-57, Cl. 343-895.
- Sicho, Roman A., to Electronic Instrument Co., Inc. A. C.-D. C. testing device. 2,790,051, 4-23-57, Cl. 200-157.
- Sicho, Roman A., to Electronic Instrument Co., Inc. A. C.-D. C. testing device. 2,790,144, 4-23-57, Cl. 324-72.5.
- Siciliano, Anthony J.: *See*—
Keen, Everett M., and Siciliano. 2,798,645.
- Siciliano, James, E. G. Heisler, and R. H. Treadway, to the United States of America as represented by the Secretary of Agriculture. Dehydration of potatoes by use of brine. 2,797,166, 6-25-57, Cl. 99-207.
- Siciliano, Pasquale. Stackable containers. 2,807,387, 9-24-57, Cl. 220-4.
- Siciliano, Samuel F., to George C. Moore Co. Elastic fabric. 2,804,100, 8-27-57, Cl. 139-423.
- Sickbert, Adolf: *See*—
Coupette, Werner, Sickbert, and Westib. 2,784,961.
- Sicomatic A. G.: *See*—
Bianca, Edoardo G. 2,817,447.
- Side, Frederick W., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,800,914, 7-30-57, Cl. 137-85.
- Sidenmark, Nils O. H., and S. S. S. Hasselbohm, to Telefonaktiebolaget L M Ericsson. Device for pressure-tight end sealing of cables. 2,800,523, 7-23-57, Cl. 174-77.
- Side-O-Matic Unloader Corp.: *See*—
Cramer, George L., Raffensberger, and Strine. Re. 24,334.

- Sider, Nicholas M., to International Paper Co. Appliance container. 2,797,800, 7-2-57, Cl. 206-46.
- Sides, Roy H.: *See*—
Miller, Henry C. L., and Sides. 2,783,784.
- Sidi, Henri: *See*—
Girard, Theodore A., Di Bella, and Sidi. 2,808,432.
- Sidler, Walter J.: *See*—
Nanz, Ernst. 2,791,834.
- Sidlo, Ralph G. Multi-position glare shield. 2,812,209, 11-5-57, Cl. 296-97.
- Sidorowicz, Alexander Z., and J. Tarczynski, to Northern Electric Co. Ltd. Broaching machine. 2,806,410, 9-17-57, Cl. 90-33.
- Sidwell, Gene W.: *See*—
Cope, Oliver H. 2,796,042.
- Siebenberg, Alexander H. A., to North American Philips Co., Inc. Frequency-modulation tuning indicator. 2,805,338, 9-3-57, Cl. 250-40.
- Siebenthal, Ernest C., to United States Borax & Chemical Corp. Cloth discharge filter. 2,812,064, 11-5-57, Cl. 210-391.
- Siebert, Carl R., Jr., J. B. Byer, and B. L. Allison, Jr., to Bendix Aviation Corp. Dosimeter. 2,793,297, 5-21-57, Cl. 250-83.3.
- Sieber, Peter W.: *See*—
Phillips, Eric T. A., and Sieber. 2,796,530.
- Sieber, Peter W., and S. N. Couzens, to Muirhead & Co. Ltd. Speed control of electric motors. 2,807,767, 9-24-57, Cl. 318-303.
- Siebert, Arthur: *See*—
Brenneisen, Erich, Huhs, and Siebert. 2,816,886.
- Huss, Richard, Siebert, and Weissert. 2,777,838.
- Siebert, Lee S., $\frac{1}{2}$ to R. A. McDerby. Spring seat for out-board boats. 2,787,315, 4-2-57, Cl. 155-51.
- Siebert, O. W., Co.: *See*—
Hokkanen, Lauri. 2,804,310.
- Siebert, Werner B., to Bissell Carpet Sweeper Co. Spring defent engaging means for carpet sweeper sectional handle. 2,789,839, 4-23-57, Cl. 285-7.
- Siebertz, Karl: *See*—
Thürmel, Eberhard, Siebertz, Henker, and Enderlein. 2,817,048.
- Siecke, Paul: *See*—
Beuther, Harold, Offutt, and Siecke. 2,796,388.
- Siedband, Melvin P.: *See*—
Taubenslag, Morris J., and Siedband. 2,817,055.
- Siedenstrang, Fred A.: *See*—
Mathis, Clyde H., Siedenstrang, and Vandiver. 2,813,141.
- Siefert, August C., and R. J. Cunningham, to Owens-Corning Fiberglass Corp. Coated refractory for contacting molten glass and method of making same. 2,777,254, 1-15-57, Cl. 49-81.
- Siegel, Alfred, and M. Fytelson, to E. I. du Pont de Nemours & Co. Azo pigment. 2,791,513, 5-7-57, Cl. 106-289.
- Siegel, Alfred, and G. Grimm, to E. I. du Pont de Nemours & Co. Metallized azo pigment. 2,801,996, 8-6-57, Cl. 260-146.
- Siegel, David T. Rheostat. 2,790,882, 4-30-57, Cl. 201-48.
- Siegel, Earl W.: *See*—
Rives, Frank M., Berigan, Godwin, Siegel, and Zebley. 2,815,869.
- Siegel, Edward. Razor having a table with a central longitudinal area curved cylindrically and triangulated marginal edges. 2,787,831, 4-9-57, Cl. 30-48.
- Siegel, Henry, and H. H. Adise. Voltage divider calibrating apparatus. 2,803,799, 8-20-57, Cl. 324-63.
- Siegel, Henry S. Electric lighting fixture construction. 2,804,542, 8-27-57, Cl. 240-78.
- Siegel, Irving D., to Magic Chef, Inc. Electric heating unit control. 2,805,312, 9-3-57, Cl. 219-20.
- Siegel, James C. Furniture locking device. 2,814,543, 11-26-57, Cl. 312-218.
- Siegel, Milton R.: *See*—
Hignett, Travis P., Siegel, Meline, and Kelso. 2,783,140.
- Siegel, Philip G., and M. Stein, to Perfect Knit Togs, Inc. Infant's garment. 2,808,590, 10-8-57, Cl. 2-80.
- Siegel, Sally A. Garment supporting strap. 2,784,415, 3-12-57, Cl. 2-338.
- Siegel, Walter: *See*—
Lambach, Fritz, and Siegel. 2,779,448.
- Lambach, Fritz, and Siegel. 2,786,344.
- Siegemund, Richard: *See*—
Robling, Hermann, and Siegemund. 2,782,999.
- Sieger, Maurice P., to United Engineering and Foundry Co. Manipulator. 2,791,923, 5-14-57, Cl. 80-48.
- Siegerist, Walter L., to Blaw-Knox Co. Bar straightening machine. 2,806,508, 9-17-57, Cl. 153-104.
- Siegler, E. Horace, Jr., and L. B. Scott, to The Perkin-Elmer Corp. Radiation comparison systems. 2,817,769, 12-24-57, Cl. 250-220.
- Siegmeth, Alfred J., to Resdel Engineering Corp. Dielectric heater. 2,780,705, 2-5-57, Cl. 219-10.67.
- Siegrist, Adolf E., and F. Ackermann, to Ciba Ltd. New derivatives of dibenzthiophene dioxide. 2,795,590, 6-11-57, Cl. 260-329.3.
- Siegrist, Adolf-Emil: *See*—
Ackermann, Franz, and Siegrist. 2,808,407.
- Siekmann, Harold J.: *See*—
Meyer, Walter R., and Siekmann. 2,807,973.
- Meyer, Walter R., and Siekmann. 2,807,974.
- Siekmann, Harold J., and W. A. Kimsey, to The R. K. Le Blond Machine Tool Co. Cable carrier for long bed machine tools. 2,799,186, 7-16-57, Cl. 77-3.
- Sieloff, Arthur E. Brush. 2,814,061, 11-26-57, Cl. 15-185.
- Siemens Brothers & Co., Ltd.: *See*—
Barrow, Norman, Robert, and Edwards. 2,788,394.
- Flood, John E. 2,787,666.
- Flood, John E. 2,802,058.
- Harrison, William. 2,797,365.
- Leslie, John D. 2,805,306.
- Warman, Bloomfield J. 2,792,526.
- Warman, Bloomfield J. 2,798,983.
- Warman, Bloomfield J. 2,804,604.
- Warman, Bloomfield J. 2,807,671.
- Siemens Edison Swan Ltd.: *See*—
Clark, Ronald I. H. 2,814,673.
- Molyneux, Harold G. 2,811,671.
- Stallworthy, Frank A., and Hicks. 2,814,674.
- Siemens Electric Lamps and Supplies Ltd.: *See*—
Woodward, Frank, and Helm. 2,784,338.
- Siemens & Halske Aktiengesellschaft: *See*—
Berg, Herbert, and Fischer. 2,807,760.
- Björkman, Simon J. 2,787,764.
- Brandstetter, Alois, and Rufer. 2,805,287.
- Brandstetter, Alois, and Rufer. 2,807,670.
- Costa, Siegfried. 2,798,182.
- Däuner, Karl, and Heywang. 2,802,256.
- Domsch, Hans. 2,789,434.
- Etzel, Franz, and Töpfer. 2,787,662.
- Ganswindt, Hartmut, and Müller. 2,795,726.
- Grenzig, Gerd. 2,793,562.
- Hinderer, Hermann. 2,817,044.
- Holzwarth, Herbert. 2,806,996.
- Holzwarth, Herbert, and Arens. 2,811,693.
- Katz, Helmut. 2,808,530.
- Katz, Helmut. 2,817,784.
- Katz, Helmut, and Costa. 2,808,531.
- Lohs, Willi, and Paul. 2,815,402.
- Lohs, Willy. 2,808,460.
- Römer, Otto. 2,789,187.
- Römer, Otto. 2,806,113.
- Rudolph, Hans. 2,788,391.
- Ruska, Ernst. 2,804,548.
- Schwarz, Karl G. 2,786,897.
- Spandock, Friedrich, and Gillitzer. 2,810,786.
- Splecker, Friedrich. 2,792,453.
- Thürmel, Eberhard, Siebertz, Henker, and Enderlein. 2,817,048.
- Töpfer, Herbert, Ehrlicke, Brandstetter, and Peissner. 2,803,705.
- Villman, Walter. 2,815,403.
- Wildhagen, Gerhard. 2,802,055.
- Wüstenev, Herbert, and Stabenau. 2,795,647.
- Siemens & Halske Gesellschaft m. b. H.: *See*—
Hohn, Hans, Fitzer, and Müller. 2,810,667.
- Siemens-Reiniger-Werke Aktiengesellschaft: *See*—
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- Siemens-Schuckertwerk Aktiengesellschaft: *See*—
Belamin, Michael. 2,800,623.
- Brennecke, Carl. 2,781,999.
- Deuser, Friedrich. 2,803,248.
- Duffing, Paul. 2,784,352.
- Duffing, Paul. 2,802,079.
- Duffing, Paul, and Conradi. 2,777,098.
- Emels, Reimer. 2,793,103.
- Haas, Karl, Voll, and Zehndicker. 2,783,398.
- Harz, Hermann. 2,783,432.
- Henning, Johann C. 2,794,947.
- Irmeler, Horst. 2,798,013.
- Iwantschew, Georg, and Rauch. 2,815,414.
- Kafka, Wilhelm. 2,808,988.
- Kuhr, Friedrich. 2,814,015.
- Kümmel, Fritz. 2,777,983.
- Martin, Heinz. 2,792,537.
- Rolf, Erich, and Belamin. 2,777,982.
- Schertel, Günther, and Schmidt. 2,809,363.
- Schweickert, Hans. 2,783,168.
- Stöcker, Rudolf. 2,779,970.
- Von Cron, Hans. 2,776,332.
- Welker, Heinrich. 2,798,989.
- Werner, Otto B. H. 2,786,177.
- Siems, Frederick B. T. Marking instruments. 2,814,117, 11-26-57, Cl. 33-34.
- Siems, George. Ground leveling attachment. 2,805,613, 9-10-57, Cl. 97-56.
- Siemens, Henry S., and K. E. Foote. Twist drill point grinder. 2,815,610, 12-10-57, Cl. 51-98.5.
- Sieradzki, Henry J., to Lundy Mfg. Corp. Combination fan and valve construction. 2,812,896, 11-12-57, Cl. 230-114.
- Siering, Robert L.: *See*—
Miles, William S., and Siering. 2,796,158.
- Sierk, Raymond H. and R. W. Vending machine. 2,794,384, 6-4-57, Cl. 99-357.
- Sierk, Raymond W.: *See*—
Sierk, Raymond H. and R. W. 2,794,384.
- Sierra Electronic Corp.: *See*—
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- Romander, Hugo. 2,808,473.
- Sierra Engineering Co.: *See*—
Goodwin, Walter H., and Kindred. 2,784,416.
- Goodwin, Walter H., and Kindred. 2,800,345.

- Sietsema, Jacob W., to International Minerals & Chemical Corp. Process for recovering betaine hydrochloride. 2,795,603, 6-11-57, Cl. 260-501.
- Sieurin, Sven E., and E. V. Olsson, to Hoeganaes Sponge Iron Corp. Method of charging containers for reducing ore to produce sponge metal. 2,797,157, 6-25-57, Cl. 75-33.
- Sieve, Frank W.: See—
- Carlberg, Robert E., Sieve, and De Masi. 2,792,757.
- Sieve, Freda F. S. Desk calendar. 2,797,512, 7-2-57, Cl. 40-107.
- Sieven, Louis I. Supporting bracket for a roll. 2,790,608, 4-30-57, Cl. 242-55.3.
- Sievers, Albert H., C. J., and E. Earth leveler and draft connection therefor. 2,817,203, 12-24-57, Cl. 55-22.
- Sievers, Carl J.: See—
- Sievers, Albert H., C. J., and E. 2,817,203.
- Sievers, Elmer: See—
- Sievers, Albert H., C. J., and E. 2,817,203.
- Sievers, Reinhold, to Maschinenfabrik Augsburg-Nurnberg A. G. Gas engine. 2,817,324, 12-24-57, Cl. 123-120.
- Siewers, Dean C.: See—
- Griffin, Perry W., and Siewers. 2,813,988.
- Siff, Abraham W., and K. R. Neale, to The Bristol Co. Shielded measuring apparatus. 2,790,944, 4-30-57, Cl. 318-28.
- Sifrin, Andreas: See—
- Seidl, Herbert, and Sifrin. 2,805,649.
- Sifrin, Andreas, H. Eberhardt, and H. Hennecke, to The Babcock & Wilcox Co. Cyclone furnace. 2,778,327, 1-22-57, Cl. 110-25.
- Sigardson, Chris, to Chapman Conveyors, Inc. Flight conveyor with renewable flights. 2,779,454, 1-29-57, Cl. 198-176.
- Sigel, Carl A., to Chicago Forging and Mfg. Co. Hood latches. 2,796,274, 6-18-57, Cl. 292-223.
- Siggel, Erhard, to Vereinigte Glanzstoff-Fabriken A. G. Process of esterifying dicarboxylic acids having high boiling points or decomposition points with mono- or poly-hydric alcohols. 2,806,052, 9-10-57, Cl. 260-475.
- Siggeikow, Evan C., to E. A. Radke. Forced downflow hot air heater. 2,799,267, 7-16-57, Cl. 126-110.
- Sights, Robert C. Scooping apparatus for mine shafts. 2,781,926, 2-19-57, Cl. 214-95.
- Sigler, Charles R., and K. C. Bezaury, to Kawneer Co. Door construction. 2,789,671, 4-23-57, Cl. 189-46.
- Sigler, Eston D. Nut pickup device. 2,792,683, 5-21-57, Cl. 56-328.
- Sigler, Harold H.: See—
- Hiller, Stanley, Jr., and Sigler. 2,818,226.
- Sigma Instrument Co. Ltd., The: See—
- Loxham, John. 2,779,585.
- Signa-Craft, Inc.: See—
- Stupell, Norman J. 2,781,594.
- Signal Oil and Gas Co.: See—
- Jakosky, John J. 2,780,301.
- Jakosky, John J. 2,782,865.
- Moon, James. 2,779,915.
- Taylor, James B., Jr. 2,776,648.
- Signal-Stat Corp.: See—
- Welsh, James W. 2,790,891.
- Welsh, James W. 2,806,921.
- Signode Steel Strapping Co.: See—
- Crosby, George A., and Frey. 2,801,558.
- Leslie, John H., II. 2,779,410.
- Signorelli, Salvador E. Speed controlling and compensating devices for electric motors. 2,814,208, 11-26-57, Cl. 74-472.
- Signoret, Albert J., to American Safety Razor Corp. Tufter hook. 2,800,096, 7-23-57, Cl. 112-79.
- Sigo, Arthur T.: See—
- Timms, Ross L., and Sigo. 2,811,583.
- Sigo, Arthur T., to Serv-Kraft, Inc. Coin dispensing mechanism. 2,782,791, 2-26-57, Cl. 133-5.
- Sigoda, Jerry: See—
- Sigoda, Victor J. and J. 2,801,602.
- Sigoda, Victor J. and J., to Man-Sew Corp. Attachment for blindstitching. 2,801,602, 8-6-57, Cl. 112-140.
- Sigrist, Edouard, to Materiel Industriel S. A., and Constructions Mecaniques S. A. Gear-box for ballast tamper. 2,804,185, 8-27-57, Cl. 192-67.
- Sigurdson, Harold S.: See—
- Armant, David L., and Sigurdson. 2,804,384.
- Armant, David L., and Sigurdson. 2,815,272.
- Sigvardt, Knud, to A/S R. Sigvardt. Device for subdividing an airstream. 2,780,490, 2-5-57, Cl. 299-29.
- Sigworth, Harrison W. Hot gas engine. 2,814,935, 12-3-57, Cl. 62-136.
- Sihn, Wilhelm, Jr., K.-G.: See—
- Langheck, Richard. 2,814,367.
- Sihvonen, Kauno E., to General Motors Corp. Resonant pickup device. 2,783,643, 3-5-57, Cl. 73-71.
- Sikkema, Arthur L., and F. H. Bielema, to Curtiss Companies Inc. Louvered door. 2,807,062, 9-24-57, Cl. 20-63.
- Sikorsky, Igor I., to United Aircraft Corp. Tail rotor counterweight. 2,795,284, 6-11-57, Cl. 170-160.16.
- Sikorsky, Igor I., to United Aircraft Corp. Tail rotor pitch control by engine manifold pressure. 2,811,212, 10-29-57, Cl. 170-135.22.
- Sikorsky, Igor I., to United Aircraft Corp. Airfoil contour pylon. 2,818,224, 12-31-57, Cl. 244-17.19.
- Silabert Corp.: See—
- Moore, Harry O. 2,779,096.
- Silbaugh, Foster E., to Silbaugh Mfg. Co. Removable hoisting attachment for tractors. 2,812,084, 11-5-57, Cl. 214-140.
- Silbaugh Mfg. Co.: See—
- Silbaugh, Foster E. 2,812,084.
- Silberberg, Solomon. Rotary household grater. 2,804,896, 9-3-57, Cl. 146-177.
- Silbereis, Joseph A.: See—
- McNeill, Francis R., and Silbereis. 2,793,484.
- Silberman, David, R. Dellaquila, and G. E. Ulrich, to Bonas Bros. Weavematic Looms (England) Ltd. Shuttleless loom fabric. 2,800,927, 7-30-57, Cl. 139-383.
- Sileo, Rocco M. Crossbow. 2,814,284, 11-26-57, Cl. 124-25.
- Siler, Albert E.: See—
- Higley, Richard B., and Siler. 2,810,262.
- Silex Co., The: See—
- Rodwick, Frank P. 2,794,627.
- Yohe, Lester N. 2,817,502.
- Silhavy, Whitney M., to Sperry Rand Corp. Pulse tracking system. 2,789,284, 4-16-57, Cl. 343-7.3.
- Silko, Louis J., to McInerney Spring and Wire Co. Spring hook forming machine. 2,809,675, 10-15-57, Cl. 140-103.
- Sill, George A., to The Sta. Firm Chair Corp. Brake for invalid's chair. 2,782,870, 2-26-57, Cl. 188-2.
- Sill, Gordon G., to The Enterprise Aluminum Co. Extension ring for coffee urns. 2,809,577, 10-15-57, Cl. 99-306.
- Sillars, Frederick S., to United Shoe Machinery Corp. Impact extruder for jet of adhesive. 2,778,530, 1-22-57, Cl. 222-70.
- Siller, Charles W.: See—
- Cyr, Howard M., Siller, and Steele. 2,796,340.
- Sillers, Thomas G. A., to Allis-Chalmers Mfg. Co. Reversible breaker panel for drawout type switchgear. 2,794,872, 6-4-57, Cl. 200-50.
- Silley, Henry A. J.: See—
- Unthank, Douglas G. 2,777,581.
- Sillman, Sheldon D.: See—
- Reagan, Maurice E., and Sillman. 2,802,161.
- Sills, Paul C., Jr. Mailing envelope. 2,794,590, 6-4-57, Cl. 229-71.
- Silva, Anthony R., L. McGilhon, and A. Donald; said McGilhon and said Donald assors. to said Silva. Casing machine. 2,786,316, 3-26-57, Cl. 53-392.
- Silva, Frank W.: See—
- Grover, Russell C., and Silva. 2,775,807.
- Silva, Joseph C. Case marker. 2,803,189, 8-20-57, Cl. 101-35.
- Silven, Herbert A., to Norton Co. Grinding machine. 2,805,524, 9-10-57, Cl. 51-103.
- Silven, Herbert A., and S. S. Mader, to Norton Co. Crankpin grinding machine. 2,780,895, 2-12-57, Cl. 51-105.
- Silver, Alexander, to The Garrett Corp. Slave valve flow distribution means. 2,814,241, 11-26-57, Cl. 98-1.5.
- Silver, Arnold H.: See—
- Hannig, William A., and Silver. 2,799,821.
- Silver Creek Precision Corp.: See—
- Lear, Joseph D. 2,778,679.
- Silver Engineering Works, Inc., a division of Silver Corp.: See—
- Wright, James C., and Tyus. 2,795,860.
- Silver, Frederick W., to Archer Mills, Inc. Thermoplastic yarns, methods of producing same and products knit therefrom. 2,810,949, 10-29-57, Cl. 28-78.
- Silver, Harold F., to Joy Mfg. Co. Method of mining coal or other minerals from the solid with deeply penetrating bits. 2,798,706, 7-9-57, Cl. 262-1.
- Silver, Harold F., to Joy Mfg. Co. Vehicle propulsion mechanism. 2,787,171, 4-2-57, Cl. 74-665.
- Silver, Harold F., to Joy Mfg. Co. Apparatus for mining coal or other minerals from the solid with deeply penetrating bits. 2,798,711, 7-9-57, Cl. 262-29.
- Silver, Harold F., to Joy Mfg. Co. Material loading apparatus. 2,808,920, 10-8-57, Cl. 198-9.
- Silver, Irving: See—
- Erickson, Porter W., and Silver. 2,776,910.
- Silver, John F., to Motorola, Inc. Crystal assembly and process. 2,806,966, 9-17-57, Cl. 310-9.1.
- Silver, Julian. Depressible drip guard for closure top liquid containers. 2,815,146, 12-3-57, Cl. 220-90.
- Silver, Leonard, to North Thames Gas Board. Process for the treatment of gases rich in hydrogen sulphide. 2,784,055, 3-5-57, Cl. 23-181.
- Silver, Louis: See—
- Silver, Stan M. 2,784,539.
- Silver, Stan M. 2,784,746.
- Silver, Stan M. and L. 2,803,385.
- Silver Mfg. Co.: See—
- Singer, Edward M. 2,806,225.
- Silver, Nathaniel, to Sorensen & Co. Voltage regulator. 2,809,341, 10-8-57, Cl. 321-19.
- Silver, Nathaniel, to Sorensen & Co., Inc. Voltage regulator. 2,810,877, 10-22-57, Cl. 321-19.
- Silver, Stan M., to L. Silver. Package and methods for making the same. 2,784,539, 3-12-57, Cl. 53-14.
- Silver, Stan M., to L. Silver. Package filling apparatus and method. 2,784,746, 3-12-57, Cl. 141-1.

- Silver, Stan M. Metered dispensing container. 2,801,033, 7-30-57, Cl. 222-455.
- Silver, Stan M. Multiple quantity metered dispensing carton or the like. 2,801,034, 7-30-57, Cl. 222-455.
- Silver, Stan M. and L. said L. Silver assor. to S. M. Silver. Automatic metered dispensing containers. 2,803,385, 8-20-57, Cl. 222-456.
- Silver, Walter H., and O. W. Oerman, to Deere & Co. Four point hitch device. 2,795,178, 6-11-57, Cl. 97-47.62.
- Silver, Walter H., and R. E. Cox, to Deere & Co. Reversible disk plow. 2,818,007, 12-31-57, Cl. 97-32.
- Silverberg, Harry M. Line counter. 2,781,966, 2-19-57, Cl. 235-60.
- Silvercrown Ltd.: See—
Heymann, Erich, and Schmerling. 2,793,990.
- Silverman, Abraham. Drophead sewer auger and shield. 2,779,041, 1-29-57, Cl. 15-104.3.
- Silverman, Arthur. Jalousie type window construction. 2,785,446, 3-19-57, Cl. 20-62.
- Silverman, Bernard P.: See—
Moody, John L., and Silverman. 2,807,766.
- Silverman, Bernard R.: See—
Di Geambeardion, John, and Silverman. 2,804,085.
- Silverman, Daniel: See—
Eisler, Joseph D., and Silverman. 2,808,894.
- Silverman, Daniel, to Stanolind Oil and Gas Co. Seismic surveying. 2,779,428, 1-29-57, Cl. 181-0.5.
- Silverman, Daniel, and A. H. Ungerman. Disposable ash receiver. 2,778,365, 1-22-57, Cl. 131-235.
- Silverman, Emanuel. Television wave trap and the like. 2,815,441, 12-3-57, Cl. 250-20.
- Silverman, Isaac. Drill attachment for mixing paints and the like. 2,799,485, 7-16-57, Cl. 259-134.
- Silverman, Jacob. Machine for folding ornamental sheet about a base. 2,808,099, 10-1-57, Cl. 154-41.
- Silverman, Leslie: See—
Bub, Robert A., and Silverman. 2,784,802.
- Silverman, Louis: See—
Pearlman, Harry, Silverman, and Smith. 2,778,786.
- Silverman, Max: See—
Kuhn, Joseph M., Sheldon, and Silverman. 2,790,734.
- Silverman, Stanley A. Brush adapter for dynamoelectric machines. 2,796,544, 6-18-57, Cl. 310-246.
- Silvern, David H.: See—
Silvka, William R., and Silvern. 2,795,394.
- Silverstein, Bernard. Drafting instrument. 2,790,240, 4-30-57, Cl. 33-31.
- Silverstone, Gerald A., to Imperial Chemical Industries Ltd. Catalytic hydrogenation. 2,790,804, 4-30-57, Cl. 260-293.2.
- Silvert, Mac. Tremie pipe construction. 2,780,920, 2-12-57, Cl. 61-63.
- Silvey, John O., and H. L. Overman, to International Telephone and Telegraph Corp. Radio frequency tuner. 2,775,896, 1-1-57, Cl. 74-10.85.
- Sim, Gordon, to Teletype Corp. Telegraph transmitter. 2,795,646, 6-11-57, Cl. 178-17.
- Simanek, Edward J., to American Steel Foundries. Bolster mounted clasp brake arrangement. 2,815,093, 12-3-57, Cl. 188-56.
- Simanek, Edward J., and R. W. Lanman, to American Steel Foundries. Bolster mounted clasp brake arrangement. 2,815,094, 12-3-57, Cl. 188-56.
- Simard, Roger: See—
Thunaes, Arvid, Brown, Smith, and Simard. 2,815,261.
- Simenca Societe Anonyme: See—
Chaveneaud, Roger M. 2,797,589.
- Simjian, Luther G., to The Reflectone Corp. Golf practice device. 2,778,645, 1-22-57, Cl. 273-185.
- Simjian, Luther G., to The Reflectone Corp. Golf game. 2,783,999, 3-5-57, Cl. 273-181.
- Simjian, Luther G., to The Reflectone Corp. Target for projectiles. 2,784,000, 3-5-57, Cl. 273-181.
- Simjian, Luther G., to The Reflectone Corp. Game practice apparatus. 2,784,001, 3-5-57, Cl. 273-185.
- Simjian, Luther G., to The Reflectone Corp. Method of treating an object. 2,787,854, 4-9-57, Cl. 41-39.
- Simjian, Luther G., to The Reflectone Corp. Prompting device. 2,796,801, 6-25-57, Cl. 88-16.
- Simjian, Luther G., to The Reflectone Corp. Magnetic brace. 2,802,463, 8-13-57, Cl. 128-87.
- Simjian, Luther G. Apparatus and method for retouching images. 2,804,708, 9-3-57, Cl. 41-1.
- Simjian, Luther G., to The Reflectone Corp. Food tenderizer. 2,806,246, 9-17-57, Cl. 17-25.
- Simjian, Luther G., to The Reflectone Corp. Chair with moving seat and mirror. 2,811,083, 10-29-57, Cl. 88-92.
- Simkins, Quinton W., to Bell Telephone Laboratories, Inc. Transistor amplifier circuits. 2,802,118, 8-6-57, Cl. 307-88.5.
- Simkins, Samuel L., $\frac{1}{2}$ to W. Simkins. Magnetic screwdriver bit. 2,808,862, 10-8-57, Cl. 145-50.
- Simkins, Woodrow: See—
Simkins, Samuel L. 2,808,862.
- Simm, Clarke N., and C. L. De Priest, to California Research Corp. Method of reestablishing in situ combustion in petroliferous formations. 2,793,697, 5-28-57, Cl. 166-39.
- Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau: See—
Ledinegg, Max. 2,782,000.
Ledinegg, Max. 2,812,156.
- Simmon, Alfred, to Simon Brothers, Inc. Autofocusing optical apparatus. 2,813,454, 11-19-57, Cl. 88-24.
- Simmon Brothers, Inc.: See—
Simmon, Alfred. 2,813,454.
- Simmonds Aerocessories, Inc.: See—
Arkawy, Seymour M. 2,809,492.
Frantz, William, and Cihl. 2,809,658.
Weber, Theodore, Jr. 2,802,975.
- Simmons, Bowie G. Reinforcing trussed girder. 2,814,943, 12-3-57, Cl. 72-110.
- Simmons, Charles C., to Ransburg Electro-Coating Corp. Method and apparatus for spray coating of articles. 2,808,343, 10-1-57, Cl. 117-93.
- Simmons, Columbus R., to W. C. Dalziel. File guide and gauge for chain saws. 2,817,252, 12-24-57, Cl. 76-36.
- Simmons Co.: See—
Bayer, Matthew F. 2,804,910.
De Bruin, Adrian. 2,817,100.
Petersen, John S. 2,785,415.
Petersen, John S. 2,802,517.
Sturm, Helmut. 2,788,119.
Travis, Don C. 2,779,951.
Travis, Don C. 2,802,219.
Woller, Edward E. 2,805,429.
- Simmons, Curtis R., and H. A. Farrow, to Hunter Farrow Equipment, Inc. Nesting box. 2,776,643, 1-8-57, Cl. 119-45.
- Simmons, David R.: See—
Nonnamaker, William M., and Simmons. 2,815,981.
- Simmons, Drue L.: See—
Thomas, James C., Gore, and Simmons. 2,777,748.
- Simmons, Edward C.: See—
Sharpe, Verlos G., and Simmons. 2,779,169.
- Simmons, Edward C., to General Motors Corp. Heat exchanger. 2,781,645, 2-19-57, Cl. 62-126.
- Simmons, Edward C., to General Motors Corp. Refrigerator evaporator with defroster-heater. 2,802,346, 8-13-57, Cl. 62-126.
- Simmons, Edward C., and E. C. Robbins, to General Motors Corp. Ice ejector tray. 2,785,539, 3-19-57, Cl. 62-108.5.
- Simmons, Ernest P., to Olin Mathieson Chemical Corp. Shell carrier mechanism for automatic shotguns. 2,791,855, 5-14-57, Cl. 42-17.
- Simmons, Ernest P., to Olin Mathieson Chemical Corp. Cartridge deflector for shotguns. 2,803,080, 8-20-57, Cl. 42-25.
- Simmons, Ernest P., Jr. Safety device for gas-operated automatic shotguns. 2,814,972, 12-3-57, Cl. 89-193.
- Simmons, George W. F., and W. E. Saul, to The Haloid Co. Xerographic copying device. 2,791,949, 5-14-57, Cl. 95-17.
- Simmons, Haryl C. Sharpener for slicing bands. 2,786,314, 3-26-57, Cl. 51-248.
- Simmons, Jesse T. Toothed wheel pipe-joint breaking tool. 2,814,814, 12-3-57, Cl. 15-104.03.
- Simmons, John R., to Harris Foundry & Machine Co. Fluid operated motor. 2,806,449, 9-17-57, Cl. 121-38.
- Simmons, Leon E., to Joy Mfg. Co. Fluid operated clutch mechanism. 2,780,334, 2-5-57, Cl. 192-87.
- Simmons, Mack E., and H. A. Levey, Sr.: said Levey, Sr., assor. to B. W. Davis. Bag. 2,800,905, 7-30-57, Cl. 128-227.
- Simmons, Milton. Dispensing receptacle. 2,786,297, 3-26-57, Cl. 43-55.
- Simmons, Milton. Combination rake and leveling device. 2,786,323, 3-26-57, Cl. 56-400.05.
- Simmons National Bank: See—
Voss, Otto J. 2,810,295.
- Simmons, Oscar R. Non-freeze sill cock. 2,810,395, 10-22-55, Cl. 137-360.
- Simmons, Richard G., and R. E. Paulson. Cutter head for adzing machines. 2,785,714, 3-19-57, Cl. 144-219.
- Simmons, Stanley. Vacuum hair curler. 2,791,225, 5-7-57, Cl. 132-7.
- Simmons, Sterling: See—
Bredensteiner, Lee, and Simmons. 2,780,487.
- Simmons, William E. Cultivator disk gangs. 2,790,367, 4-30-57, Cl. 97-54.
- Simms, Charles H.: See—
Breadner, Robert L., Neill, and Simms. 2,787,510.
- Simnad, Massoud T., and W. E. Dennis, to the United States of America as represented by the Secretary of the Navy. Furnace, adapted particularly for electro chemical studies of molten materials at high temperatures. 2,790,840, 4-30-57, Cl. 13-31.
- Simon-Carves Ltd.: See—
Austin, Eric P., and McCallum. 2,816,657.
- Simon, Edward, to Robins Industries Corp. Tape splicing device. 2,778,420, 1-22-57, Cl. 164-45.
- Simon, Edward E. Tearing strip guide. 2,782,959, 2-26-57, Cl. 220-52.
- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Package with cellular plastic packaging means. 2,780,350, 2-5-57, Cl. 206-46.
- Simon, Eli, F. W. Thomas, and P. J. Wiegand, to Lockheed Aircraft Corp. Noise attenuating ear protectors. 2,782,423, 2-26-57, Cl. 2-209.

- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Cellular phenolic resin products. 2,798,054, 7-2-57, Cl. 260—2.5.
- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Cellular reaction products of toluene diisocyanate and an alkyl resin. 2,802,795, 8-13-57, Cl. 260—2.5.
- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Elastomeric cellular products obtained from alkyl resin-diisocyanate mixture. 2,811,493, 10-29-57, Cl. 260—2.5.
- Simon, Eric : *See—*
Holtzman, Harris, and Simon. 2,793,214.
- Simon, Ferdinand J. Auto safety belt. 2,802,073, 8-6-57, Cl. 200—61.08.
- Simon, Frank. Garment hanger. 2,817,470, 12-24-57, Cl. 223—89.
- Simon Handling Engineering Ltd. : *See—*
Jolley, Fred R. 2,791,470.
Jolley, Fred R. 2,793,086.
- Simon, Josef, and J. Kiesbauer. Rotary drum apparatus for gaseous treatment of divided material. 2,809,024, 10-8-57, Cl. 263—32.
- Simon, Karl. Device for subsoil testing and taking of specimens. 2,779,195, 1-29-57, Cl. 73—421.
- Simon, Morris A. : *See—*
Homery, Alex L., and Simon. 2,776,710.
- Simon, Robert N. Self-lubricating polish rod. 2,794,618, 6-4-57, Cl. 255—28.
- Simon, Ruth M. : *See—*
Mazer, Jacob. 2,779,429.
- Simon, Walter E. A., to Brycel Ltd. Method of treating benzyl cellulose. 2,781,276, 2-12-57, Cl. 106—197.
- Simonds Abrasive Co. : *See—*
Sansig, Joseph E. 2,785,515.
- Simonds, George D. : *See—*
Homrig, Horace J., and Simonds. 2,785,783.
- Simonds Saw & Steel Co. : *See—*
Anderson, Ike D. 2,787,299.
Kopp, John. 2,787,300.
- Simone, Guy A. Arm-positioning device for use by embalmers. 2,777,187, 1-15-57, Cl. 27—21.
- Simone, Peter F., to General Electric Co. Engine starter clutch. 2,776,571, 1-8-57, Cl. 74—7.
- Simonelt, Kurt, to W. F. Sullivan. Bicycle safety lights. 2,793,284, 5-21-57, Cl. 240—7.55.
- Simonian, Goergen. Rotary internal combustion engine. 2,812,748, 11-12-57, Cl. 123—16.
- Simoniz Co. : *See—*
Geen, Henry C., and Quist. 2,812,263.
- Simons, Abraham, to Master Alloys, Inc. Rifling gun barrels. 2,810,188, 10-22-57, Cl. 29—1.1.
- Simons, Allison K. : *See—*
Hickman, Albert F., Simons, and Marcinek. 2,783,822.
- Simons, Courtney S., III, to Freeport Sulphur Co. Process of preparing limonitic ores for separation of metal content. 2,798,804, 7-9-57, Cl. 75—101.
- Simons, Gordon F. : *See—*
Morana, Simon J., and Simons. 2,804,372.
- Simons, Homer C. : *See—*
Faulhaber, James W., Fisher, Simons, and Murray. 2,804,756.
- Simons, Homer C., to Eaton Mfg. Co. Heater control. 2,808,993, 10-8-57, Cl. 237—2.
- Simons, Robert E. : *See—*
Schmidt, Lloyd K. 2,787,844.
- Simonsen, Edward H., to Simonsen Metal Products Co. Tray. 2,788,912, 4-16-57, Cl. 220—22.
- Simonsen Metal Products Co. : *See—*
Simonsen, Edward H. 2,788,912.
- Simonson, George B. Adjustable inside diameter checking device with locking mechanism. 2,797,490, 7-2-57, Cl. 33—163.
- Simpelaar, Clyde S. : *See—*
Huggins, Homer D., and Simpelaar. 2,192,200.
- Simpelaar, Clyde S., to Modine Mfg. Co. Heat exchanger. 2,782,010, 2-19-57, Cl. 257—245.
- Simpelaar, Clyde S., to Modine Mfg. Co. Heat exchanger fin structure. 2,789,797, 4-23-57, Cl. 257—245.
- Simpelaar, Clyde S., to Modine Mfg. Co. Finned tube construction. 2,803,440, 8-20-57, Cl. 257—262.14.
- Simpkin, Francis W., and O. Burawoy, to Renold Chains Ltd. Tool for assembling side plates and heading rivets in roller or bush chains. 2,783,611, 3-5-57, Cl. 59—7.
- Simple Research & Mfg. Co., Inc. : *See—*
Scholdfeld, Richard P., and Gifford. 2,816,000.
- Simplex Engineering Co. : *See—*
Raymond, Thomas E. 2,786,424.
- Simplex Piston Ring Mfg. Co. : *See—*
Solenberger, Dean M. 2,789,641.
- Simplot, J. R., Co. : *See—*
Long, Robert E. 2,810,156.
- Simpson, Alva N. Rear support slide for mowing knife. 2,803,104, 8-20-57, Cl. 56—303.
- Simpson, Arthur I. F. : *See—*
Hewitt, William H. L., and Simpson. 2,791,621.
- Simpson, Arthur I. F., and A. Warrington, to The General Electric Co. Ltd. Devices for transmitting rotary motion. 2,773,229, 1-22-57, Cl. 74—10.41.
- Simpson, Byard D. : *See—*
Talbot, Lloyd, and Simpson. 2,792,852.
- Simpson, Clarence E., to the United States of America as represented by the Secretary of the Army. Gun feeding mechanism. 2,792,761, 5-21-57, Cl. 89—33.
- Simpson, Clarence E., to the United States of America as represented by the Secretary of the Army. Barrel mounting on a pivoted receiver. 2,809,457, 10-15-57, Cl. 42—75.
- Simpson, Cyril M., to The Daimler Co. Ltd. Tractor transmission and motor control means. 2,777,334, 1-15-57, Cl. 74—472.
- Simpson, David E. Support for icicles or foil trimming and method of using the same for trimming Christmas tree. 2,789,690, 4-23-57, Cl. 206—46.
- Simpson, De Roy. Cigarette snuffer. 2,790,447, 4-30-57, Cl. 131—235.
- Simpson, Eugene H. : *See—*
Anderson, Beverly S. 2,818,206.
- Simpson, Frank R., to the United States of America as represented by the Secretary of the Army. Pre-engraved projectiles and gun for firing same. 2,804,806, 9-3-57, Cl. 89—33.
- Simpson, Frederick D. Truck tube splicing method. 2,793,675, 5-28-57, Cl. 154—14.
- Simpson, George G. : *See—*
Boehm, Robert M., and Simpson. 2,805,946.
- Simpson, Gordon T. : *See—*
Gaspar, Emeric, and Stimpson. 2,789,541.
- Simpson, Henry A., to Talon, Inc. Releasable sliders for slide fasteners. 2,779,988, 2-5-57, Cl. 24—205.15.
- Simpson, Herbert. Type aligning gauges for typewriters. 2,785,475, 3-19-57, Cl. 33—183.
- Simpson, Herbert, Corp. : *See—*
Horth, Walter. 2,781,563.
Horth, Walter. 2,813,318.
- Simpson, Howard W. Planetary transmission. 2,786,369, 3-26-57, Cl. 74—759.
- Simpson, Howard W. Forward and reverse transmission. 2,806,388, 9-17-57, Cl. 74—759.
- Simpson, Jack N., to Ray-O-Vac Co. Adjustable suspension for helmets. 2,786,204, 3-26-57, Cl. 2—9.
- Simpson, John A., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Neutron proportional counter. 2,793,309, 5-21-57, Cl. 313—61.
- Simpson, Kenneth C. Fishing bobber. 2,785,499, 3-19-57, Cl. 43—44.88.
- Simpson, Lester C., and L. M. Merrill, to Elastic Stop Nut Corp. of America. Direct burial electrical distribution system and components. 2,785,319, 3-12-57, Cl. 307—147.
- Simpson, Thone C. Method for producing a photographic proof. 2,804,002, 8-27-57, Cl. 95—85.
- Simpson Timber Co. : *See—*
Proudfoot, Don A., Meissner, and Walton. 2,791,289.
- Simpson, William G., to L. M. Jeffery. Measuring apparatus for boots and shoes. 2,793,439, 5-28-57, Cl. 33—3.
- Simpson, Wilson B. Outboard motor storage and transportation racks. 2,817,436, 12-24-57, Cl. 206—46.
- Sims, Curtis. Drying cylinder. 2,779,104, 1-29-57, Cl. 34—110.
- Sims, Homer J. : *See—*
De Benneville, Peter L., and Sims. 2,786,869.
- Sims, Homer J., to Rohm & Haas Co. Vinyl dispersions containing amine salts. 2,810,703, 10-22-57, Cl. 260—30.8.
- Sims, James S., Jr., and T. P. Farkas, to United Aircraft Corp. De-icer for water separator controlled by pressure drop. 2,809,714, 10-15-57, Cl. 183—33.
- Sims, John C., Jr., and C. A. Norton, to Sperry Rand Corp. Method and apparatus for preparing a latent magnetic image. 2,793,135, 5-21-57, Cl. 117—17.5.
- Sims, Marion W., to General Electric Co. Direct current motor speed control system. 2,804,584, 8-27-57, Cl. 318—332.
- Sims, Marion W., and H. J. Proxmire, to General Electric Co. Electrical fuse. 2,791,660, 5-7-57, Cl. 200—117.
- Sims, Rex J., and D. Nelson, to Swift & Co. Tallow color stabilization. 2,783,256, 2-26-57, Cl. 260—398.5.
- Sims, Robert H. : *See—*
Woofter, Robert C., Kirk, and Sims. 2,809,361.
- Sims, Virgil J., Jr. : *See—*
Muzzy, Benjamin C., Recker, and Sims. 2,817,974.
- Sims, Willard M. : *See—*
Honn, Francis J., and Sims. 2,783,217.
- Simsack, Anton. Milling attachments for lathes. 2,776,604, 1-8-57, Cl. 90—11.64.
- Simon, Verne H. : *See—*
Eck, Robert N., and Simon. 2,818,150.
- Sinclair, Charles W. : *See—*
Main, John A., and Sinclair. 2,818,303.
- Sinclair, Charles W., to Kelsey-Hayes Co. Wheel and method of making the same. 2,791,256, 5-7-57, Cl. 152—47.
- Sinclair, Charles W., and R. L. Atkin, to Kelsey-Hayes Co. Wheel rim. 2,804,117, 8-27-57, Cl. 152—409.

- Sinclair, David, to Johns-Manville Corp. Smoke photometer. 2,812,686, 11-12-57, Cl. 88-14.
- Sinclair, Donald B.: *See*—
Peterson, Arnold P. G., and Sinclair. 2,802,907.
- Sinclair, Harold. Toothed couplings. 2,812,045, 11-5-57, Cl. 192-48.
- Sinclair, James A. Thrower apparatus for forming a moving column of particles. 2,779,455, 1-29-57, Cl. 198-128.
- Sinclair, John G., Jr., to Hughes Aircraft Co. High frequency alternator. 2,814,745, 11-26-57, Cl. 310-155.
- Sinclair Oil and Gas Co.: *See*—
Fisher, Frank R., and Pelzer. 2,780,449.
Holbert, Don R. 2,776,563.
Johnson, James F. 2,794,177.
Pelzer, Harry L. 2,788,071.
Quigley, Milner D. 2,796,235.
- Sinclair Refining Co.: *See*—
Apgar, Frank A. 2,778,778.
Beare, Leonard E. 2,812,320.
Bereslavsky, Euphime V. 2,797,153.
Campbell, Oliver F., and Decker. 2,777,428.
Campbell, Oliver F., and Decker. 2,802,521.
Chambers, Robert R. 2,785,207.
Chambers, Robert R. 2,803,667.
Chambers, Robert R., and Foster. 2,777,883.
Chambers, Robert R., and Foster. 2,783,285.
Eron, Alan H. 2,788,859.
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Keith, Carl D. 2,797,247.
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Keith, Carl D. 2,805,261.
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Nelson, John W. 2,776,308.
Nelson John W. 2,776,309.
Neubauer, Albert V. 2,788,780.
Piros, John J. 2,776,729.
Sanford, Robert A., and Friedman. 2,810,769.
Sanford, Robert A., and Friedman. 2,810,770.
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Verley, Guy M. 2,783,273.
Verley, Guy M. 2,817,679.
Vierk, Ernest R., and Karr. 2,785,111.
- Sinclair Research Laboratories, Inc.: *See*—
Hammer, Sigwald M. 2,783,458.
Stinson, Lawrence W., Thompson, and Dean. 2,800,628.
Thompson, Lee E., and Stinson. 2,783,420.
Young, Hobert D. 2,811,145.
- Sinclair, Richard L. Vehicle parking apparatus. 2,818,186, 12-31-57, Cl. 214-331.
- Sinclair, Robert C. Fish hook. 2,792,663, 5-21-57, Cl. 43-43.15.
- Sinclair, Robert L., to The Gillette Co. Attachable rack for safety razor cases and the like. 2,797,814, 7-2-57, Cl. 211-49.
- Sinclair, Francis S., to Allied Control Co., Inc. Contact pressure measuring apparatus. 2,789,430, 4-23-57, Cl. 73-161.
- Sindelar, William P., $\frac{1}{4}$ to V. L. Gross. Universally adjustable disk mounting. 2,783,700, 3-5-57, Cl. 97-47.34.
- Sindell, David I. Data chart. 2,816,380, 12-17-57, Cl. 40-142.
- Sinden, Alfred D.: *See*—
Kendall, Myron A., and Sinden. 2,782,896.
- Sinden, Alfred D., to Stephens-Adamson Mfg. Co. Cleaners for belt conveyors. 2,794,540, 6-4-57, Cl. 198-230.
- Sindl, Otto H., deceased; by F. J. Mulligan, administrator, to R. S. Robe. Fireproofing regenerated cellulose. 2,805,176, 9-3-57, Cl. 117-137.
- Sindzinski, Willy, and R. Goerlich, to International Standard Electric Corp. Pneumatic dispatch-tube systems. 2,797,057, 6-25-57, Cl. 243-16.
- Sindzinski, Willy, and M. Muller, to Mix & Genest Aktiengesellschaft. Conveying device. 2,801,725, 8-6-57, Cl. 198-19.
- Sindzinski, Willy, to International Standard Electric Corp. Co-acting belt conveyor system. 2,806,582, 9-17-57, Cl. 198-165.
- Sindzinski, Willy, to International Standard Electric Corp. Unloader for edge-wise conveyor system. 2,810,469, 10-22-57, Cl. 198-185.
- Sinex, Reuben T., to W. V. Storm, doing business as Western Brass Works. Sprinkler and control therefor. 2,792,256, 5-14-57, Cl. 299-71.
- Singel, John B., to Westinghouse Electric Corp. Phasing system. 2,780,673, 2-5-57, Cl. 179-15.5.
- Singelman, Fred E., to Admiral Corp. Method and apparatus for testing television receiver components. 2,804,572, 8-27-57, Cl. 315-27.
- Singer, Arnold. Collapsible garment racks. 2,798,618, 7-9-57, Cl. 211-178.
- Singer, Edward M., to Silver Mfg. Co. Waistband construction. 2,806,225, 9-17-57, Cl. 2-236.
- Singer, Franz, to H. and F. W. Deckel. Photographic shutter. 2,785,612, 3-19-57, Cl. 95-63.
- Singer, George C.: *See*—
Roberts, John G. 2,817,146.
- Singer, Herbert: *See*—
Davies, Alan D., and Singer. 2,812,915.
- Singer, Joseph: *See*—
Rogier, Clarence F., Kulo, Singer, and Nero. 2,804,737.
- Singer Mfg. Co., The: *See*—
Andres, William A. 2,790,407.
Bartos, Frank J. 2,796,912.
Enos, John P. 2,788,757.
Fuge, Harry B. Re. 24,371.
Gall, Francis A. 2,780,819.
Gall, Francis A. 2,811,738.
Goosman, Herbert J., and Graesser. 2,813,500.
Graham, Richard P. 2,790,405.
Happe, Reynold. 2,789,172.
Harris, Carl. Re. 24,370.
Johnson, Ralph E. 2,809,874.
Ketterer, Stanley J. 2,776,788.
Ketterer, Stanley J. 2,781,013.
Kuhar, Ludwig J. 2,781,012.
Kuhar, Ludwig J. 2,817,307.
Mombert, James W. 2,791,122.
Mombert, James W. 2,814,747.
Parry, Frank. 2,787,232.
Parry, Frank. 2,790,406.
Parry, Frank. 2,791,193.
Parry, Frank. 2,794,408.
Parry, Frank, and Dunn. 2,808,796.
Peets, Wilbur J. 2,788,759.
Perla, Martin R. 2,810,360.
Pinkvoss, Berthold P. 2,790,331.
Reid, Orland B. 2,797,656.
Smith, Darwin G., and Ketterer. 2,780,193.
Turner, Edgar P. 2,802,409.
Turner, Edgar P. 2,809,308.
Walling, Francis L. 2,787,233.
Wendel, Lorenz A. 2,797,781.
Zeier, Frederick F., and Skowronski. 2,810,532.
- Singer, Marcus, and J. J. Fitzgerald. Motor driven injection apparatus. 2,786,468, 3-26-57, Cl. 128-218.
- Singer, Sidney, and L. K. Neher, to the United States of America as represented by the United States Atomic Energy Commission. High power pulsed oscillator. 2,807,723, 9-24-57, Cl. 250-36.
- Singer, Heron O., and R. S. Lowy, to Ortho Pharmaceutical Corp. Stabilized hyaluronidase. 2,806,815, 9-17-57, Cl. 195-63.
- Singleton, Arthur E., to The Toidey Co., Inc. Child's toilet. 2,804,121, 8-27-57, Cl. 155-31.
- Singleton, Benoit M., to Woodlin Metal Products Co. Door and door jamb assembly. 2,801,688, 8-6-57, Cl. 160-96.
- Singleton, Clair E., to Northrop Aircraft, Inc. Indexing mechanism. 2,778,981, 1-22-57, Cl. 318-120.
- Singleton, Frank: *See*—
Hunter, William A., and Singleton. 2,816,327.
- Singleton, James W., 50% to C. H. Hamner. Cartridge dispenser. 2,789,727, 4-25-57, Cl. 221-124.
- Singleton, Richard H., and P. J. Clough, to National Research Corp. Method of producing titanium. 2,783,142, 2-26-57, Cl. 75-84.5.
- Singleton, Richard H., and W. O. Di Pietro, to National Research Corp. Method of producing titanium. 2,809,108, 10-8-57, Cl. 75-84.5.
- Sinizer, David I.: *See*—
Clough, Philip J., Ham, and Sinizer. 2,789,150.
Ham, John L., and Sinizer. 2,789,152.
- Sink, Robert L., A. A. Lahti, D. N. MacDonald, and M. L. Patrick, to Consolidated Electrodynamics Corp. Digitizer. 2,818,557, 12-31-57, Cl. 340-347.
- Sinkler, Deas., to The Duriron Co., Inc. Lined valve. 2,776,104, 1-1-57, Cl. 251-192.
- Sinko, John. Steering wheel spinner. 2,790,330, 4-30-57, Cl. 74-557.
- Sinko Mfg. & Tool Co.: *See*—
Cramer, Sterling. 2,793,528.
- Sinner, John B. and O. A. Crypt front fastener. 2,814,942, 12-3-57, Cl. 72-101.
- Sinner, Oscar A.: *See*—
Sinner, John B. and O. A. 2,814,942.
- Sininger, Dwight V., to Hupp Corp. Receiver for AM speech channel having means to eliminate effects of superimposed frequency shift keying. 2,808,508, 10-1-57, Cl. 250-20.
- Sintercast Corp. of America: *See*—
Goetzel, Claus G., and Adamee. 2,798,809.
Goetzel, Claus G., and Ellis. 2,798,810.
- Sintz, Claude, Inc.: *See*—
Gielegheem, Maurice J. 2,817,551.
- Sipe, Therell L., to General Motors Corp. Stud setting torque device and the like. 2,795,159, 6-11-57, Cl. 81-53.
- Sipmann, Francis J. Tooth paste container having means to position it in a cavity in the handle of a dispensing toothbrush. 2,779,505, 1-29-57, Cl. 222-100.
- Sipovic, Victor, to D K Mfg. Co., Inc. Insulated hose. 2,809,668, 10-15-57, Cl. 138-58.
- Sippel, John J., and W. Kernan, to Skenandoa Rayon Corp. Creeping traverse for rayon pot spinning machines. 2,780,907, 2-12-57, Cl. 57-77.
- Sippel, Theodore C.: *See*—
Morgan, Edwin, and Sippel. 2,808,855.
Morgan, Edwin, and Sippel. 2,809,669.
- Sipple, Howard B.: *See*—
Mozley, Paul P., and Sipple. 2,797,174.

- Sira Societa Italiana Roano Alessandro Soc. p. Az. : *See*—
Roano, Alessandro. 2,789,442.
- Sireno Co., Inc., The : *See*—
McRea, John S. 2,814,029.
- Sirianni, Aurelio F. : *See*—
Puddington, Ira E., and Sirianni. 2,805,961.
- Sirven, Louis J. : *See*—
Schneersohn, Boris, and Sirven. 2,809,807.
- Sisk, Jerry F. Envelope opener. 2,816,701, 12-17-57, Cl. 229-86.
- Sisk, Martin A. Surface drains. 2,777,532, 1-15-57, Cl. 182-31.
- Sisk, Martin A. Surface drains. 2,779,430, 1-29-57, Cl. 182-31.
- Sisk, Martin A. Surface drains. 2,783,852, 3-5-57, Cl. 182-31.
- Siskel, Manuel, to Radio Corp. of America. Regulated bias voltage supply. 2,782,340, 2-19-57, Cl. 315-30.
- Siskind, Philip, to Sperry Rand Corp. Voltage controlled magnetic amplifier. 2,813,246, 11-12-57, Cl. 323-89.
- Siskind, William. Eraser particle collecting device for typewriters. 2,795,310, 6-11-57, Cl. 197-181.
- Sisler, Harry H., and A. D. Kelmers, to The Ohio State University Research Foundation. Substituted hydrazines. 2,806,851, 9-17-57, Cl. 260-293.
- Sisley, Leslie J. Extractor. 2,808,935, 10-8-57, Cl. 210-361.
- Sisson, Harold D. Locking means for sliding panels. 2,192,246, 5-14-57, Cl. 292-101.
- Sisson, Kenneth O., to General Motors Corp. Clothes washing machine. 2,795,126, 6-11-57, Cl. 68-12.
- Sisson, Wayne A., to American Viscose Corp. Method and apparatus for treating yarn strands. 2,779,457, 1-29-57, Cl. 203-200.
- Sisto, Joseph A. : *See*—
Jawinski, Stanislaw T., and Sisto. 2,793,106.
Jawinski, Stanislaw T., and Sisto. 2,793,107.
- Sistrunk, Henry L., to G. H. Forsyth. Bouncing ball game apparatus having a sound strip. 2,781,194, 2-12-57, Cl. 273-30.
- Sites, Benjamin L., to Miehle-Goss-Dexter, Inc. Fabricated type bed. 2,814,989, 12-3-57, Cl. 101-382.
- Sitron, Harold H. : *See*—
Lather, Carl, and Sitron. 2,788,000.
- Sitton, Philip, Septic Tank Co., The : *See*—
Sitton, Philip N. 2,794,467.
- Sitton, Philip N., to The Philip Sitton Septic Tank Co. Clamp for forms containing moldable material. 2,794,467, 6-4-57, Cl. 144-291.
- Sitton, Philip N. Method and apparatus for making the wall portion of a septic tank. 2,814,329, 11-26-57, Cl. 154-1.8.
- Siukola, Matti S. O., to Radio Corp. of America. Turnstile antenna and feed system therefor. 2,810,127, 10-15-57, Cl. 343-797.
- Sivalls Tanks, Inc. : *See*—
Lovelady, Isaac W., and Kroeker. 2,783,854.
- Siver, Chester A. : *See*—
Dungfelder, Chris C., and Siver. 2,786,479.
- Siver, Douglas H., to The New York Air Brake Co. Sharp response spring loaded pressure motor for controlling regulated devices. 2,778,314, 1-22-57, Cl. 103-37.
- Siverson, Harry E. Chain construction. 2,798,381, 7-9-57, Cl. 74-252.
- Sives, William L. Process of increasing the digestibility of starch containing potatoes and cereals. 2,784,094, 3-5-57, Cl. 99-10.
- Sivil, Cecil S. : *See*—
Schneider, Julius F., and Sivil. 2,780,543.
- Six, Willem, and J. Domburg, to Hartford National Bank and Trust Co., as trustee. Circuit-arrangement for engaging an apparatus. 2,780,674, 2-5-57, Cl. 179-18.
- Six, Willem, and J. Domburg, to North American Philips Co., Inc. Circuit-arrangement for use in automatic telephone systems. 2,790,030, 4-23-57, Cl. 179-16.
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- Six, Willem, and J. Domburg, to North American Philips Co., Inc. Automatic telephone system. 2,812,384, 11-5-57, Cl. 179-16.
- Sixsmith, Herbert, to English Electric Valve Co. Ltd. Magnetron oscillators. 2,815,469, 12-3-57, Cl. 315-39.77.
- Sixsmith, Herbert, to National Research Development Corp. Liquefaction and distillation of gaseous mixtures. 2,817,215, 12-24-57, Cl. 62-123.
- Size Control Co., a division of American Machine & Gauge Co. : *See*—
Fairfield, William E. 2,816,364.
Sommer, Peter J., Jr. 2,810,237.
- Sjöblom, Åke E., and N. I. Hansén. Pallet deck structure. 2,794,611, 6-4-57, Cl. 248-120.
- Sjöblom, Anders, to C. O. Oberg & Co. S AB. High speed short-circuited rotor. 2,802,124, 8-6-57, Cl. 310-211.
- Sjöbohman, Curt H. K. Method and apparatus for making coiled springs. 2,794,477, 6-4-57, Cl. 153-2.
- Sjöden, Arthur O., to American Radiator & Standard Sanitary Corp. Finned tube radiator supporting structure. 2,796,238, 6-18-57, Cl. 257-163.
- Sjökqvist, Erik : *See*—
Thielsen, Gustav, and Sjökqvist. 2,787,754.
- Sjökqvist, Eric, and E. Björck, to Allmanna Svenska Elektriska Aktiebolaget. Compensating winding. 2,798,175, 7-2-57, Cl. 310-224.
- Skage, Wallace V., to General Electric Co. Double socket wrench having universal joint drives. 2,775,912, 1-1-57, Cl. 81-55.
- Skaggs, Merit B., to General Electric Co. Flash lamp bulb. 2,791,112, 5-7-57, Cl. 67-31.
- Skaist, Morris, to Tabrol Co. Evaporable deodorant bottle. 2,787,496, 4-2-57, Cl. 299-24.
- Skakel, James C. : *See*—
Moir, Thomas D., and Skakel. 2,801,065.
- Skala, George F., to General Electric Co. Surface cooking unit control apparatus. 2,813,962, 11-19-57, Cl. 219-37.
- Skalka, Paul : *See*—
Cellerini, Albert R., and Skalka. 2,795,670.
- Skaperdas, George T., to The M. W. Kellogg Co. Separating gas mixtures. 2,777,299, 1-15-57, Cl. 62-123.
- Skaperdas, George T., to The M. W. Kellogg Co. Removing impurities from a gas liquefaction system with aid of extraneous gas stream. 2,802,349, 8-13-57, Cl. 62-175.5.
- Skarin, Carl R., and W. W. Wittenberger, to The Petersen Oven Co. Baking oven. 2,783,720, 3-5-57, Cl. 107-63.
- Skarstrom, Charles W., to Esso Research and Engineering Co. Heat exchanger and means for circulating fluids. 2,787,444, 4-2-57, Cl. 257-18.
- Skarstrom, Charles W., to Esso Research and Engineering Co. Method and apparatus for determining a component in a gaseous mixture. 2,794,924, 6-4-57, Cl. 250-43.5.
- Skarstrom, Charles W., to the United States of America as represented by the United States Atomic Energy Commission. Seal for high speed centrifuge. 2,816,704, 12-17-57, Cl. 233-27.
- Skaun, Evald L. : *See*—
Magne, Frank C., Skaun, and Mod. 2,791,596.
- Skaun, Evald L., to the United States of America as represented by the Secretary of Agriculture. Purification of long chain fatty acids. 2,816,903, 12-17-57, Cl. 260-404.
- Skeats, Alfred B., and G. L. Biehn, to Westinghouse Electric Corp. Safety control circuits for electric motors. 2,818,535, 12-31-57, Cl. 317-13.
- Skeggs, Leonard T., to Technicon International, Ltd. Methods of and apparatus for analyzing liquids containing crystalline and non-crystalline constituents. 2,797,149, 6-25-57, Cl. 23-230.
- Skehan, Joseph W., to Machlett Laboratories, Inc. Filament structure. 2,790,924, 4-30-57, Cl. 313-273.
- Skei, Thurston, and W. A. Bonner, to Shell Development Co. Prevention of hydrogen blistering and assuring. 2,780,583, 2-5-57, Cl. 196-41.
- Skeisvoll, Magne. Wedge actuated quick acting nut. 2,789,458, 4-23-57, Cl. 85-33.
- Skeltern, John, to D. Napier & Son Ltd. Fuel supply and associated apparatus for combustion engines. 2,802,335, 8-13-57, Cl. 60-39.28.
- Skellett, Albert M., to National Union Electric Corp. Signal storage device of the magnetron type. 2,816,224, 12-10-57, Cl. 250-27.
- Skelly, William G., to International Minerals & Chemical Corp. Salt of amino acid. 2,807,626, 9-24-57, Cl. 260-326.3.
- Skelton, John H., and F. J. Austin. Ironing tables, school desks and the like. 2,817,170, 12-24-57, Cl. 38-104.
- Skelton, William E. : *See*—
Cole, Edward L., and Skelton. 2,778,713.
Cole, Edward L., and Skelton. 2,799,657.
Cole, Edward L., and Skelton. 2,817,653.
- Skenandoo Rayon Corp. : *See*—
Demarche, Edmund. 2,781,981.
- Sippel, John J., and Kernan. 2,780,907.
- Skenes, Clarence P. : *See*—
Kaufman, Joseph, and Skenes. 2,809,004.
- Skf. Kugellagerfabriken G. m. b. H. : *See*—
Dausch, Erwin. 2,789,320.
- Skiba, Paul, Jr. : *See*—
Dyloff, George V., Skiba, and Mottlau. 2,791,698.
- Skibbe, Harold A. Implement hitch brace for tractors. 2,783,058, 2-26-57, Cl. 280-4.74.
- Skidgel, William A. Circuit controller in traffic control system. 2,817,724, 12-24-57, Cl. 200-38.
- Skil Corp. : *See*—
Dooling, Henri C. 2,787,718.
Topolinski, Jerome J. 2,787,195.
Topolinski, Jerome J. 2,795,247.
- Skillen, William : *See*—
Barrington, William F., and Skillen. 2,809,776.
- Skillin, Walter F., to Union Mfg. Co. Hydraulic chuck. 2,779,601, 1-29-57, Cl. 279-4.
- Skillin, Walter F., to Union Mfg. Co. Hydraulic chuck. 2,788,979, 4-16-57, Cl. 279-4.
- Skillman, Ned C. : *See*—
Aust, Robert J., Frey, Goetz, and Skillman. 2,787,713.
Garrigus, Walter E., Skillman, and Wainwright. 2,786,135.
- Skillman, T. S., and Co. Pty. Ltd. : *See*—
Stanley, Thomas H. 2,816,960.
Stanley, Thomas H. 2,816,962.
Stewart, James C., Stanley, and Almgren. 2,817,018.

- Skinner, Bronson C., to Brunhilde W. Skinner. Hydraulic valve tappet. 2,803,231, 8-20-57, Cl. 123-90.
- Skinner Chuck Co., The: *See*—
- Balcunas, Joseph J. 2,799,511.
- Clay, Robert B. 2,799,293.
- Skinner, Davis A.: *See*—
- Wordie, John D., and Skinner. 2,792,286.
- Wordie, John D., and Skinner. 2,799,569.
- Skinner, Davis A., and W. L. Wasley, to Union Oil Co. of California. Alkylation of toluene. 2,777,007, 1-8-57, Cl. 260-671.
- Skinner, Edmond N., to The International Nickel Co., Inc. Nickel-chromium-iron heat resisting alloys. 2,813,788, 11-19-57, Cl. 75-122.
- Skinner, Ernest J.: *See*—
- Steadman, Clifford S., and Skinner. 2,794,601.
- Skinner, Glenn S., and J. B. Bicking, to Merck & Co., Inc. Thiamorpholinediones and preparation thereof. 2,786,838, 3-26-57, Cl. 260-243.
- Skinner Irrigation Co., The: *See*—
- Dudley, Wray E. 2,778,681.
- Dudley, Wray E. 2,793,911.
- Skinner & Kennedy Co.: *See*—
- Elliott, Frank S., Jr. 2,783,565.
- Skinner, Milton D. Sink construction. 2,812,521, 11-12-57, Cl. 4-187.
- Skinner, Ralph L., to Renniks Co. Hydraulic valve lifter for automotive vehicles. 2,784,707, 3-12-57, Cl. 123-90.
- Skinner, Sidney D., and L. H. Seufert, to National Gypsum Co. Continuous calcination process and apparatus therefor. 2,788,960, 4-16-57, Cl. 263-25.
- Skinner, William C.: *See*—
- Zimmerman, Carl W., Reichertz, and Skinner. 2,781,488.
- Skirvin, Chester C., to Trimble, Inc. Baby jumper chair. 2,785,730, 3-19-57, Cl. 155-20.
- Skirvin, Chester C., to Trimble, Inc. Baby chair. 2,812,009, 11-5-57, Cl. 155-20.
- Sklar, Harry: *See*—
- Calder, James D. 2,800,168.
- Sklar, J., Mfg. Co., Inc.: *See*—
- Sovatkin, Edward J., and Bates. 2,795,225.
- Sklar, Joseph: *See*—
- Calder, James D. 2,800,168.
- Sklar, Louis: *See*—
- Calder, James D. 2,800,168.
- Sklar, Samuel: *See*—
- Calder, James D. 2,800,168.
- Sklar, Samuel. Knock-down door buck construction. 2,799,370, 7-16-57, Cl. 189-46.
- Skog, Henry A., to Special Equipment Co. Peach feeding, orienting, assorting, transferring, splitting, and pitting machine. 2,788,818, 4-16-57, Cl. 146-28.
- Skoggard, Bruno B. Toy vehicles. 2,802,671, 8-13-57, Cl. 280-132.
- Skogsberg, Erik L. Telephone systems. 2,787,658, 4-2-57, Cl. 179-5.
- Skold, John F. Automatic multiple conveyor. 2,781,945, 2-19-57, Cl. 221-114.
- Sköldkvist, Helge N. Arrangement for removing of water in press section of machines for forming a felted pulp web. 2,783,689, 3-5-57, Cl. 92-49.
- Skoli, Sigmund P.: *See*—
- McGovern, Bernard J., Skoli, and Witt. 2,781,798.
- McGovern, Bernard J., Skoli, and Witt. 2,790,629.
- Skolnik, Leonard: *See*—
- Burkholder, Alden H., and Skolnik. 2,787,563.
- Skoog, Folke: *See*—
- Rosen, Walter G., and Skoog. 2,793,974.
- Skorge, Ingvald: *See*—
- Sethne, Magne, and Skorge. 2,801,771.
- Skousgaard, Elmer C. Throw-away container for pressurized, liquefied gases, and discharge means therefor. 2,807,938, 10-1-57, Cl. 62-1.
- Skovde Gasbetong Aktiebolag: *See*—
- Carlsson, Bengt O., and Eisner. 2,803,556.
- Skow, Ross E., to Hydro Engineering Corp. Apparatus for distilling liquids. 2,803,590, 8-20-57, Cl. 202-232.
- Skow, Ross E., to Walbert Machine Co. Machine for feeding envelopes and similar workpieces individually from a stack to a printing mechanism. 2,815,207, 12-3-57, Cl. 271-29.
- Skowronski, Edward: *See*—
- Zeier, Frederick F., and Skowronski. 2,810,532.
- Skozdopole, Hans: *See*—
- Bourek, Rudolf, Skozdopole, and Wachendorfer. 2,797,746.
- Skraban, Casimir J. Beam gauge. 2,777,208, 1-15-57, Cl. 33-174.
- Skrebba, Hans. Stapler. 2,817,839, 12-31-57, Cl. 1-3.
- Skreberg, Hans. Typewriter and dictionary, etc., stand. 2,817,486, 12-24-57, Cl. 248-166.
- Skrmetta, Paul C., 12½% to H. J. Agregaard, 12½% to A. R. Rodriguez, and 50% to R. Q. Skrmetta. Seafood cleaning machine. 2,781,544, 2-19-57, Cl. 17-2.
- Skrmetta, Raphael Q.: *See*—
- Skrmetta, Paul C. 2,781,544.
- Skromme, Arnold B.: *See*—
- Barnes, Theodore M., and Skromme. 2,807,996.
- Skromme, Arnold B., to Deere Mfg. Co. Forage harvester. 2,795,912, 6-18-57, Cl. 56-1.
- Skromme, Arnold B., and G. R. Sutherland, to Deere Mfg. Co. Forage harvesting and chopping device. 2,795,913, 6-18-57, Cl. 56-24.
- Skromme, Lawrence H., and M. J. Happe, to New Holland Machine division of the Sperry Rand Corp. Rake bar bearing assembly. 2,777,275, 1-15-57, Cl. 56-377.
- Skupas, John A.: *See*—
- Noelting, Clarence B., and Skupas. 2,787,804.
- Skupas, John A., to Faultless Caster Corp. Furniture glide. 2,794,205, 6-4-57, Cl. 16-42.
- Skuttle Mfg. Co.: *See*—
- Powers, Milton A. 2,790,374.
- Skwarek, Frank, to Polarad Electronics Corp. Tracking mechanism for ganged radio circuits. 2,808,506, 10-1-57, Cl. 250-20.
- Skyway Precision Tool Co.: *See*—
- Garwood, Robert E. Re. 24,400.
- Slabaugh, Norris E. Pitot tube cover. 2,786,353, 3-26-57, Cl. 73-182.
- Slaboch, George E.: *See*—
- Rosenthal, Harry, and Slaboch. 2,798,565.
- Slack, Frederic W., to Chrysler Corp. Transmission and controls therefor. 2,791,913, 5-14-57, Cl. 74-472.
- Slack, Frederic W., to Chrysler Corp. Continental spare tire mounting. 2,805,807, 9-10-57, Cl. 224-42.21.
- Slack, George H., and K. B. Copeland, to Copeland & Slack, Inc. Colloidal organo-silicon polymers. 2,810,738, 10-22-57, Cl. 260-448.8.
- Slack & Parr (Marine) Ltd.: *See*—
- Harvey, George C. 2,781,857.
- Slack, Ronald, to Parke, Davis & Co. Synthesis of chloramphenicol and related acylamidodiolis. 2,786,870, 3-26-57, Cl. 260-562.
- Slack, Thomas S. Device for extending finger nails. 2,799,282, 7-16-57, Cl. 132-88.7.
- Slade, Bernard N., to Radi Corp. of America. Electroforming semi-conductor devices. 2,784,478, 3-12-57, Cl. 29-25.3.
- Slade, Joseph M. Illusion-giving revolving toy. 2,809,833, 10-15-57, Cl. 272-8.
- Slade, Valborg. Sewing aid device. 2,797,032, 6-25-57, Cl. 223-106.
- Sladek, Frederick L. Portable strap vice. 2,795,984, 6-18-57, Cl. 81-19.
- Sladky, Alexander C., and R. F. Gehm, to Leyse Aluminum Co. Utensil handle structure. 2,798,247, 7-9-57, Cl. 16-110.
- Sladky, Alexander C., and R. F. Gehm, to Leyse Aluminum Co. Handle structure for utensils. 2,798,248, 7-9-57, Cl. 16-110.
- Slagh, Harold R., and E. C. Britton, to The Dow Chemical Co. O-aryl O, O-dialkyl phosphorothioates. 2,807,637, 9-24-57, Cl. 260-461.
- Slamar, Frank: *See*—
- Roman, Walter G., Slamar, and Kovalsky. 2,785,367.
- Slamar, Frank, and R. E. Hull, to Westinghouse Electric Corp. Side register regulator. 2,792,504, 5-14-57, Cl. 250-219.
- Slangal, Charles J. Shingle edging. 2,802,433, 8-13-57, Cl. 108-35.
- Slanhoff, Bertram. Folding display stand. 2,810,617, 10-22-57, Cl. 312-241.
- Slate, Claude C.: *See*—
- Leonard, Nathaniel N. 2,778,010.
- Slate, Matthew W., to Allen B. Du Mont Laboratories, Inc. Multiple band tuning device. 2,776,376, 1-1-57, Cl. 250-40.
- Slate, Matthew W., to Allen B. Du Mont Laboratories, Inc. Printed-circuit shield. 2,786,984, 3-26-57, Cl. 336-84.
- Slate, Matthew W., to Allen B. Du Mont Laboratories, Inc. Ultra high frequency tuning device. 2,794,922, 6-4-57, Cl. 250-40.
- Slate, Matthew W., to Allen B. Du Mont Laboratories, Inc. Tuning element for electrical tuning apparatus. 2,808,514, 10-1-57, Cl. 250-40.
- Slate, Matthew W., to Allen B. Du Mont Laboratories, Inc. Ultra high frequency tuning device. 2,811,698, 10-29-57, Cl. 333-82.
- Slater, Carl C., to Ford Motor Co. Hydraulic tappet. 2,815,740, 12-10-57, Cl. 123-90.
- Slater, Melvin G. Table leg attaching device. 2,783,112, 2-26-57, Cl. 311-110.
- Slater, N., Co. Ltd.: *See*—
- Ridgers, Frederick G. 2,792,243.
- Ridgers, Frederick G. 2,792,445.
- Slater, Norman: *See*—
- Lancaster, Ralph, and Slater. 2,780,400.
- Slater, Saul I. Electrical wiring device. 2,795,677, 6-11-57, Cl. 200-166.
- Slater, William L., Jr.: *See*—
- Eastman, du Bois, and Slater. 2,818,326.
- Slattery, Gerald H.: *See*—
- Watson, Lloyd M., and Slattery. 2,816,935.
- Slattery, John P., to General Electric Co. Condensate sump drain valve. 2,777,303, 1-15-57, Cl. 62-140.
- Slattery, Thomas J.: *See*—
- Fraser, Alan R., and Slattery. 2,802,730.
- Slaugh, Richard W., to Hamilton Watch Co. Watch time zone hour indicator. 2,794,314, 6-4-57, Cl. 58-126.
- Slaughter, Charles E., to Extruded Plastics, Inc. Method and apparatus for sealing closures in tubular containers. 2,788,834, 4-16-57, Cl. 154-1.
- Slaughter, Charles E., to Extruded Plastics, Inc. Self-sealing closures. 2,802,593, 8-13-57, Cl. 220-42.

- Slaughter, Charles E., to Extruded Plastics, Inc. Conveyor methods and machine in container manufacture. 2,806,528, 9-17-57, Cl. 164-17.
- Slaughter, Lomis, Jr.: *See*—
Brown, Boyd E., and Slaughter. 2,806,666.
- Slaughter, Roy E. Oven shelf. 2,806,467, 9-17-57, Cl. 126-337.
- Slavens, Wayne E., to Deere Mfg. Co. Anti-clogging means for corn harvesters. 2,779,148, 1-29-57, Cl. 56-104.
- Slavsky, John R.: *See*—
Slavsky, Robert J. and J. R. 2,787,433.
Slavsky, Robert J. and J. R. 2,794,279.
- Slavsky, Robert J. and J. R., to Shaw and Slavsky, Inc. Self-stopping hinged sign. 2,787,433, 4-2-57, Cl. 248-204.
- Slavsky, Robert J. and J. R., to Shaw and Slavsky, Inc. Price tag molding. 2,794,279, 6-4-57, Cl. 40-10.
- Slayter, Games, to Owens-Corning Fiberglas Corp. Reinforced inorganic molded products. 2,781,274, 2-12-57, Cl. 106-108.
- Slayter, Games, H. J. Snow, and S. D. Philipps, to Owens-Corning Fiberglas Corp. Article of manufacture and method and apparatus for producing same. 2,785,728, 3-19-57, Cl. 154-27.
- Slayter, Games, and W. W. Drummond, to Owens-Corning Fiberglas Corp. Method and apparatus for producing reticulated fibrous product. 2,797,728, 7-2-57, Cl. 154-17.
- Slayter, Games, and R. B. Taylor, to Owens-Corning Fiberglas Corp. Acoustical material. 2,802,764, 8-13-57, Cl. 154-44.
- Slayter, Games, and E. Fletcher, to Owens-Corning Fiberglas Corp. Method and apparatus for producing fibers. 2,810,187, 10-22-57, Cl. 18-25.
- Slecht, Henry C., to Western Electric Co., Inc. Strip guide for cable sheath forming machine. 2,793,601, 5-28-57, Cl. 113-33.
- Sledd, Antoinette: *See*—
Copelin, Harry B., and Sledd. 2,779,765.
- Slee, Alfred G., to The British Electric Traction Co. Ltd., and Thomas Ash & Co. Ltd. Braking systems for vehicles. 2,781,115, 2-12-57, Cl. 192-058.
- Slee, Alfred G., and W. K. Cox, to The British Electric Traction Co. Ltd., and Thomas Ash & Co. Ltd. Braking systems for vehicles. 2,781,114, 2-12-57, Cl. 192-058.
- Sleeper & Hartley, Inc.: *See*—
Halvorsen, Elmer W. 2,792,869.
- Sleight, Chester C. Fishing plug. 2,788,604, 4-16-57, Cl. 43-4206.
- Slettenmark, Karl I. G. Wind-gauge working on the pressure principle. 2,779,194, 1-29-57, Cl. 73-209.
- Sletzing, Meyer, and M. Tishler, to Merck & Co., Inc. Acylamido-hydroxy pteridines and preparation thereof. 2,786,056, 3-19-57, Cl. 260-251.5.
- Sletzing, Meyer, and M. Tishler, to Merck & Co., Inc. Process for preparing N²-acyl-N¹⁰-formyl pteroylglutamic acid. 2,791,586, 5-7-57, Cl. 260-251.5.
- Sletzing, Meyer, and M. Tishler, to Merck & Co., Inc. Substituted pteridines. 2,816,109, 12-10-57, Cl. 260-251.5.
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- Slick, Fred S., to J. I. Case Co. Resilient distributor connector. 2,809,359, 10-8-57, Cl. 339-100.
- Slinger, Stanley J.: *See*—
Anderson, George W., and Slinger. 2,809,112.
- Slingerland, Henry H., Jr. Counterhoop. 2,779,227, 1-29-57, Cl. 84-411.
- Slingluff, Eugene, to The Sunlite Mfg. Co. Paint roller and mounting. 2,810,924, 10-29-57, Cl. 15-244.
- Slingsby, Hobart A.: *See*—
Di Stio, Anthony J., Massey and Slingsby. 2,801,378.
- Slipakoff, Bernard. Head and body protector. 2,784,409, 3-12-57, Cl. 2-4.
- Slivka, William R., and D. H. Silvern. Turbine blade arrangement. 2,795,394, 6-11-57, Cl. 253-77.
- Sloan, Arthur W., to Atlantic Research Corp. Cellulose ether compositions. 2,814,570, 11-26-57, Cl. 106-181.
- Sloan, Arthur W., to Atlantic Research Corp. Spherical nonporous water-insoluble cellulose ethers. 2,814,618, 11-26-57, Cl. 260-232.
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- Sloan, Arthur W., and D. J. Mann, to Atlantic Research Corp. Cellulose ester compositions. 2,809,120, 10-8-57, Cl. 106-181.
- Sloan, Arthur W., and D. J. Mann, to Atlantic Research Corp. Cellulose esters and mixed esters in the form of small, dense, spherical particles. 2,809,191, 10-8-57, Cl. 260-230.
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- Sloan, Clifford K., to E. I. du Pont de Nemours and Co. Particle measurement. 2,816,479, 12-17-57, Cl. 88-44.
- Sloan, Donald D., to Dennison Mfg. Co. Machine for pinning tickets and the like to articles. 2,813,021, 11-12-57, Cl. 1-118.
- Sloan, Harry E., to The Cushman Chuck Co. Precision chuck jaws. 2,777,704, 1-15-57, Cl. 279-123.
- Sloan, James A., to Sloan Valve Co. Vacuum breakers. 2,814,304, 11-26-57, Cl. 137-218.
- Sloan, John C., Jr.: *See*—
Swaine, James W., and Sloan. 2,785,050.
Swaine, James W., and Sloan. 2,789,034.
- Sloan, John W., B. T. Hofreiter, C. L. Mehlretter, and I. A. Wolff, to the United States of America as represented by the Secretary of Agriculture. Hydrogenolysis of dialdehyde starch to erythritol and ethylene glycol. 2,783,283, 2-26-57, Cl. 260-635.
- Sloan, John W., and I. A. Wolff, to the United States of America as represented by the Secretary of Agriculture. Hydrogenolysis of dialdehyde starch to erythritol and ethylene glycol. 2,796,447, 6-18-57, Cl. 260-635.
- Sloan, Kenneth T.: *See*—
Gottesman, Roy T., and Sloan. 2,806,889.
- Sloan, Maurice E. Revolving and stationary wax applicator. 2,811,733, 11-5-57, Cl. 15-230.
- Sloan, Richard C. Mountings for movable wall panels. 2,811,739, 11-5-57, Cl. 16-87.
- Sloan, Thomas D.: *See*—
Hecht, Herbert, and Sloan. 2,801,059.
- Sloan Valve Co.: *See*—
Colendar, Frederick J. 2,776,812.
Filliung, Jacques J. 2,779,625.
Filliung, Jacques J., and Campbell. 2,790,677.
Sloan, James A. 2,814,304.
- Sloane, Alice B.: *See*—
Sloane, William W. 2,796,247.
Sloane, William W. 2,796,248.
- Sloane, Jack. Packaging and display system for fragile objects. 2,811,246, 10-29-57, Cl. 206-46.
- Sloane, William W., to Goodman Mfg. Co. Protective devices for belt conveyors. 2,782,902, 2-26-57, Cl. 198-203.
- Sloane, William W., deceased, by A. B. Sloane, executrix, to Goodman Mfg. Co. Mining machine with radially adjustable boring arm. 2,796,247, 6-18-57, Cl. 262-26.
- Sloane, William W., deceased, by A. B. Sloane, executrix, to Goodman Mfg. Co. Mining machine with radially adjustable boring arm. 2,796,248, 6-18-57, Cl. 262-26.
- Slobin, David N. Caulking gun. 2,801,775, 8-6-57, Cl. 222-326.
- Slocombe, Robert J.: *See*—
Wesp, George L., and Slocombe. 2,813,845.
- Slocombe, Robert J., to Monsanto Chemical Co. Acrylonitrile polymers stabilized with salts of vinyl phosphonates. 2,784,169, 3-5-57, Cl. 260-45.7.
- Slocombe, Robert J., to Monsanto Chemical Co. Acrylonitrile polymers stabilized with salts of fumaric acid. 2,792,380, 5-14-57, Cl. 260-45.85.
- Slocombe, Robert J., and G. L. Wesp, to Monsanto Chemical Co. Acrylonitrile copolymers stabilized with acrylic acid salts. 2,784,172, 3-5-57, Cl. 260-45.85.
- Slocum, Charles W., to Stubnitz-Greene Spring Corp. Thermally controlled automatic switches. 2,781,484, 2-12-57, Cl. 318-221.
- Slocum, Charles W., to Stubnitz-Greene Spring Corp. Thermally controlled electric switches. 2,781,485, 2-12-57, Cl. 318-221.
- Sloier, Harold E., to Mission Appliance Corp. Coffee dispensing machine. 2,800,152, 7-23-57, Cl. 141-104.
- Slomer, Joseph J., to Goodman Mfg. Co. Hydraulic take-up for a conveyor. 2,785,789, 3-19-57, Cl. 198-208.
- Slomin, George W., and M. P. Christensen, to Rohr Aircraft Corp. Plating and brazing titanium. 2,798,843, 7-9-57, Cl. 204-32.
- Slone, Howard I., D. P. Clayton, and E. L. Barcus, to General Motors Corp. Electric switches. 2,811,592, 10-29-57, Cl. 200-5.
- Slonneger, John L., to General Electric Co. Electromagnetic relays. 2,804,519, 8-27-57, Cl. 200-87.
- Slopa, George W. and R. E. Door fastener. 2,786,700, 3-26-57, Cl. 292-79.
- Slopa, Robert E.: *See*—
Slopa, George W. and R. E. 2,786,700.
- Slotin, Louis: *See*—
Wilson, Volney C., Overbeck, Slotin, and Froman. 2,816,860.
- Slotta, Max A. Floating reamer and holder therefor. 2,810,584, 10-22-57, Cl. 279-6.
- Slotterbeck, Ober C.: *See*—
Banes, Fred W., Wiese, and Slotterbeck. 2,793,238.
- Slotterbeck, Ober C., H. K. Wiese, and A. W. Hubbard, to Esso Research and Engineering Co. Hydrogenation of dicyclopentadiene dicarboxylic acids. 2,818,430, 12-31-57, Cl. 260-514.
- Slottman, George V., to Air Reduction Co., Inc. Method and apparatus for the thermochemical desurfacing of ferrous metal bodies. 2,817,611, 12-24-57, Cl. 148-9.5.
- Slough, Hilbert L.: *See*—
Barden, Wayne A., Daily, and Slough. 2,796,499.
Barden, Wayne A., Daily, and Slough. 2,796,500.
- Slough, Jack M., and J. Lichtenstein, to Santa Fe Tank & Tower Co., Inc. Cooling tower. 2,808,243, 10-1-57, Cl. 261-24.

- Slowter, Edward E., to Battelle Development Corp. Gun barrel coated with tantalum. 2,792,657, 5-21-57, Cl. 42-76.
- Slusser, Eugene A., to the United States of America as represented by the Secretary of the Navy. Range tracking system. 2,776,422, 1-1-57, Cl. 343-7.3.
- Slusser, Juanita R. Baby pants. 2,817,338, 12-24-57, Cl. 128-286.
- Sly, Leslie W.: *See*—
Doe, Walter P., and Sly. 2,810,986.
- Slyngstad, Charles E., to The M. W. Kellogg Co. Fluid reforming process. 2,799,624, 7-16-57, Cl. 196-50.
- Smalchuck, Ignaty F. Gear. 2,784,613, 3-12-57, Cl. 74-415.
- Small, Augustus B.: *See*—
Hunter, Edward A., and Small. 2,809,948.
- Small Brothers Mfg. Co., Inc.: *See*—
Small, Douglas C. 2,801,135.
- Small, Douglas C., to Small Brothers Mfg. Co., Inc. Mop making machine. 2,801,135, 7-30-57, Cl. 300-16.
- Small, Douglas M.: *See*—
Le Febvre, Alfred L., Johnson, and Small. 2,797,968.
- Small, Frank K. Blood counting method. 2,779,232, 1-29-57, Cl. 88-14.
- Small, George F., to The General Electric Co. Ltd. Electric filter circuits. 2,790,959, 4-30-57, Cl. 333-73.
- Small, Samuel N. Beach and garden umbrella and mechanism for opening and closing same. 2,782,795, 2-26-57, Cl. 135-20.
- Small, Theodore W., to Philco Corp. Grid controlled electron tubes. 2,804,566, 8-27-57, Cl. 313-248.
- Smallegan, Marvin L., to Automatic Poultry Feeder Co. Poultry feed hopper construction. 2,780,341, 2-5-57, Cl. 198-58.
- Smallegan, Marvin L., to Automatic Poultry Feeder Co. Device for shrinking films. 2,789,407, 4-23-57, Cl. 53-184.
- Smallman, Carl R.: *See*—
Till, Derek E., and Smallman. 2,810,426.
- Smallpeice, Cosby D. P. Manually operable pneumatic valves. 2,781,996, 2-19-57, Cl. 251-31.
- Smallpeice, Cosby D. P. Two-speed ratchet devices. 2,787,912, 4-9-57, Cl. 74-142.
- Smallridge, Bruce E., to Genesee Machine Builders, Inc. Coil winding machine. 2,782,809, 2-26-57, Cl. 140-92.1.
- Smaltz, John C., and E. A. Jareckie, to McKiernan-Terry Corp. Gear for projecting and retracting underwater sound translating apparatus. 2,813,591, 11-19-57, Cl. 181-5.
- Smardo, Frank: *See*—
Olesky, Anthony P., and Smardo. 2,799,507.
- Smart, Charles L., to Celanese Corp. of America. Filaments of cellulose lower alkanooates containing amines. 2,789,916, 4-23-57, Cl. 106-176.
- Smart, Clarence F., to General Motors Corp. Antimony plating bath. 2,779,725, 1-29-57, Cl. 204-45.
- Smart, Clarence F., to General Motors Corp. Antimony plating bath. 2,817,629, 12-24-57, Cl. 204-45.
- Smart, David L., and A. Gavrilovic, to The English Electric Co. Ltd. Apparatus for the control of grid-controlled electric discharge devices. 2,817,791, 12-24-57, Cl. 315-147.
- Smart, David L., and J. J. L. Weaver, to The English Electric Co. Ltd. Electrical circuits employing discharge tubes. 2,818,533, 12-31-57, Cl. 315-260.
- Smart, Paul H., and C. E. Nelson, to Foremost Dairies, Inc. Process and apparatus for manufacture of casein. 2,807,608, 9-24-57, Cl. 260-120.
- Smart, Samuel B., Jr.: *See*—
Anderson, Roy E., Lamberson, Russell, and Smart. 2,806,429.
- Smart, William A.: *See*—
Robbins, Joseph, Smart, and Smith. 2,814,485.
- Smart, William L., to Ransburg Electro-Coating Corp. Liquid sealing apparatus. 2,799,532, 7-16-57, Cl. 299-63.
- Smashproof Co., The: *See*—
Hulbert, Reed O. 2,782,045.
- Smead Mfg. Co., The: *See*—
Hoffman, Harold J. 2,799,276.
- Miller, Carl J. 2,809,852.
- Smeaton, Thomas F., to General Electric Co. Method of treating tungsten filaments. 2,809,140, 10-8-57, Cl. 148-13.1.
- Smedley, Frederick E. S.: *See*—
Meredew, George C., Berris, and Smedley. 2,782,001.
- Smedslund, Tor H.: *See*—
Sullivan, Vincent A., Jr., and Smedslund. 2,818,388.
- Smellie, William J., to The Sheffield Smelting Co. Ltd. Method of making corrosion resistant soldered joints. 2,781,577, 2-19-57, Cl. 29-492.
- Smelser, Lawrence C. Colostomy and ileostomy appliance. 2,796,063, 6-18-57, Cl. 128-283.
- Smessaert, Raymond R., to Teletypesetter Corp. Control unit for composing machine. 2,811,243, 10-29-57, Cl. 199-22.
- Smetana, Otto, H. Nowotny, and K. Komarek. Pyrophoric alloys. 2,786,753, 3-26-57, Cl. 75-134.
- Smetana, Otto, H. Nowotny, and K. Komarek. Pyrophoric alloys. 2,815,281, 12-3-57, Cl. 75-134.
- Smetana, Otto F., to Philcord Corp. Anti-backlash device for controlling yarn. 2,797,056, 6-25-57, Cl. 242-153.
- Smeulders, Wouter: *See*—
Janssen, Peter J. H., and Smeulders. 2,801,366.
- Janssen, Peter J. H., and Smeulders. 2,816,247.
- Smick, Daniel: *See*—
Kelly, Harold C., and Smick. 2,804,399.
- Smidth, F. L., & Co.: *See*—
Andersen, Niels E. 2,784,499.
- Borch, Niels S. 2,785,115.
- Frankert, Otto P. 2,801,804.
- Rohde, Thyge P. 2,812,865.
- Sylvest, Karl J. 2,802,280.
- Sylvest, Karl J. 2,815,987.
- Turney, Arthur C., and Zubrzycki. 2,782,019.
- Smidth, F. L., & Co., A. S.: *See*—
Magnani, Alessandro. 2,784,650.
- Smieja, Lawrence R.: *See*—
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- Smiley, Lemuel H., 40% to M. R. Smiley. Gravity operated liquid dispenser. 2,781,607, 2-19-57, Cl. 43-131.
- Smiley, Mary R.: *See*—
Smiley, Lemuel H. 2,781,607.
- Smiley, Paul E., to Mohawk Heat Relief Co. Automatic ventilator. 2,812,835, 11-12-57, Cl. 189-50.
- Smiley, Robert A., to E. I. du Pont de Nemours and Co. Diamines. 2,816,925, 12-17-57, Cl. 260-563.
- Smiley, Robert A., to E. I. du Pont de Nemours and Co. Diamines. 2,816,926, 12-17-57, Cl. 260-563.
- Smiley, Robert A., to E. I. du Pont de Nemours and Co. Bis(1-nitrocycloalkylmethyl) amines. 2,816,927, 12-17-57, Cl. 260-563.
- Smiley, Robert A., to E. I. du Pont de Nemours and Co. Bis(1-aminocycloalkylmethyl) amines. 2,816,928, 12-17-57, Cl. 260-563.
- Smillie, John F. Ash receiver and snuffer. 2,779,341, 1-29-57, Cl. 131-235.
- Smillie, John F. Split tube cigarette snuffer. 2,790,446, 4-30-57, Cl. 131-235.
- Smillie, John F. Cigarette snuffer. 2,792,842, 5-21-57, Cl. 131-256.
- Smillie, John F. Cigarette snuffer and ash tray assembly. 2,806,475, 9-17-57, Cl. 131-235.
- Smirl, Richard L., to Borg-Warner Corp. Transmission. 2,794,349, 6-4-57, Cl. 74-752.
- Smirnoff, Boris T.: *See*—
Scholfield, Richard P., and Smirnoff. 2,813,770.
- Smisko, John, to Aeroquip Corp. Nut having rotary pawl disengaging sleeve. 2,784,637, 3-12-57, Cl. 85-32.
- Smit, Jan: *See*—
Van Oosterhout, Gerard W., Rathenau, and Smit. 2,818,551.
- Smit, Pierre L.: *See*—
Koopal, Sieds, Smit, and van Loon. 2,776,885.
- Smit-Rontgen N. V.: *See*—
Zaalberg, Willem. 2,816,806.
- Smith, A. L., Iron Co.: *See*—
Kruger, Michael H. 2,794,644.
- Kruger, Michael H. 2,794,903.
- Smith, A. O., Corp.: *See*—
Anderson, Archie C. 2,794,481.
- Andrus, Orrin E. 2,785,274.
- Andrus, Orrin E. 2,791,204.
- Andrus, Orrin E. 2,808,373.
- Andrus, Orrin E. 2,816,069.
- Bernhardt, Howard E., and Davey. 2,780,717.
- Blatz, Albert V., and Needham. 2,815,880.
- Brueckner, Karl K. 2,804,681.
- Chyle, John J. 2,792,626.
- Chyle, John J. 2,812,419.
- Croswell, Althos M. 2,780,194.
- Evers, William J., and Nystrom. 2,794,242.
- Ewart, John C. 2,780,093.
- Ewart, John C., and Malke. 2,780,271.
- Haines, William A., Jr. 2,777,912.
- Hortvet, Richard M. 2,789,195.
- Jeszka, Kenneth S., Kudeck, and Paalu. 2,798,583.
- Johnson, Arthur E. 2,785,337.
- Martin, Wesley G. 2,808,097.
- Maynard, John T. 2,777,962.
- Ploetz, Edwin C. 2,800,876.
- Prindle, Frank D. 2,801,320.
- Prindle, Frank D. 2,801,321.
- Reed, Daniel J. 2,791,241.
- Schilberg, Arnold G. 2,779,965.
- Schilberg, Arnold G. 2,794,632.
- Schilberg, Arnold G. 2,794,650.
- Sherman, Donald W. 2,784,984.
- Sherman, Donald W. 2,804,962.
- Smith, George M. 2,791,136.
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- Tiedemann, Julius B. 2,804,836.
- Uecker, Otto E. 2,794,244.
- Wasson, Loerwood C. 2,784,913.
- Waters, Robert S. 2,812,401.
- Smith, Aden J.: *See*—
Smith, La Vern N. and A. J. 2,792,974.
- Smith, Albert C., Jr.: *See*—
Smith, Donald A., A. C. Smith, Jr., and Unruh. 2,811,509.
- Smith, Albert C., Jr., D. A. Smith, and C. C. Unruh, to Eastman Kodak Co. Light-sensitive photographic elements for photomechanical processes. 2,787,546, 4-2-57, Cl. 96-115.

- Smith, Albert C., Jr., J. L. R. Williams, and C. C. Unruh, to Eastman Kodak Co. Polymeric chalcones and their use as light-sensitive polymers. 2,816,091, 12-10-57, Cl. 260-64.
- Smith, Alexander, and B. D. Baggs, Jr. Under-tree mower and harvester. 2,777,272, 1-15-57, Cl. 56-25.4.
- Smith, Alexander, Inc.: *See*—
Miller, Philip, and Bardsley. 2,780,245.
- Smith, Alfred R.: *See*—
Lambe, Wendell B., Smith, and Otani. 2,807,521.
- Smith, Allen L.: *See*—
Carpenter, Louis B., Jr., and Smith. 2,811,924.
- Smith, Alonzo P.: *See*—
Robbins, Lloyd W., and Smith. 2,816,489.
- Smith, Alva T. Vacuum packed clothing and hanger therefor. 2,781,895, 2-19-57, Cl. 206-7.
- Smith, Alvin H.: *See*—
De Groote, Melvin, and Smith. 2,792,351.
De Groote, Melvin, and Smith. 2,792,368.
- Smith, Andrew N., and F. H. Van Nest, to General Electric Co. Gas turbine nozzle ring. 2,799,473, 7-16-57, Cl. 253-78.
- Smith, Andrew N., and A. Butrym, to General Electric Co. Retractable fuel nozzle for gas turbine combustor. 2,804,917, 9-3-57, Cl. 158-73.
- Smith, Andrew Q., and A. Q. Smith, Jr. Row cropper attachment for combines. 2,783,603, 3-5-57, Cl. 56-119.
- Smith, Andrew Q., Jr.: *See*—
Smith, Andrew Q., and A. Q. Smith, Jr. 2,783,603.
- Smith, Archie E., to Jones and Lamson Machine Co. Indicating device. 2,816,187, 12-10-57, Cl. 200-61.39.
- Smith, Arthur C.: *See*—
Reese, Walter J., and Smith. 2,792,964.
- Smith, Arthur D., to Jenkins Petroleum Process Co. Process for the continuous coking of hydrocarbons. 2,778,781, 1-22-57, Cl. 202-3.
- Smith, Arthur D., to Kaiser Aluminum & Chemical Corp. Edge roll device. 2,787,176, 4-2-57, Cl. 80-31.1.
- Smith, Arthur E. W., and E. Hofstetter, to Ed. Geistlich Sohne A. G. für Chemische Industrie. Anaesthetic compositions. 2,793,155, 5-21-57, Cl. 167-52.
- Smith, Arthur E. W., and E. Hofstetter, to Ed. Geistlich Sohne A. G. für Chemische Industrie. Anaesthetic compounds. 2,801,247, 7-30-57, Cl. 260-294.
- Smith, Arthur F. Vacuum distillation apparatus. 2,793,174, 5-21-57, Cl. 202-186.
- Smith, Arthur L. J., to Radio Corp. of America. Red-emitting cathodoluminescent devices. 2,790,921, 4-30-57, Cl. 313-92.
- Smith, Arthur L. J., to Radio Corp. of America. Fluoride phosphors. 2,806,002, 9-10-57, Cl. 252-301.6.
- Smith, Arthur W., by decree of distribution, to G. M. Smith. Loose-leaf album for viewing photographic slides. 2,779,116, 1-29-57, Cl. 40-102.
- Smith, Arthur W., to Guilleme M. Smith. Support for flower-pots. 2,803,418, 8-20-57, Cl. 248-153.
- Smith, Aylwin L. Device for lighting and extinguishing candles and the like. 2,785,556, 3-19-57, Cl. 67-6.1.
- Smith, Basil L. Slip socket releaser. 2,781,222, 2-12-57, Cl. 294-102.
- Smith, Ben J. and F. E., to General Motors Corp. Convertible top and hinged finish molding therefor. 2,795,456, 6-11-57, Cl. 296-44.5.
- Smith, Benjamin D. Rodenticide and method of making same. 2,813,058, 11-12-57, Cl. 167-46.
- Smith, Benjamin F.: *See*—
Ballard, Wiley P., Dickens, and Smith. 2,818,455.
- Smith, Bernard, to the United States of America as represented by the Secretary of the Navy. Connector ring for two stage rockets. 2,809,584, 10-15-57, Cl. 102-49.
- Smith, Bernard R.: *See*—
Applegate, Vernon C., Stahl, and Smith. 2,778,140.
- Smith, Blanchard D., to Scripto, Inc. Lighter. 2,779,179, 1-29-57, Cl. 67-7.1.
- Smith, Blanchard D. Numeral wheel indication compensating means. 2,783,945, 3-5-57, Cl. 235-136.
- Smith, Blanchard D., to Scripto, Inc. Propel type mechanical pencil. 2,800,880, 7-30-57, Cl. 120-18.
- Smith, Blanchard D., to Scripto, Inc. Laten means for retractable ball pens. 2,800,882, 7-30-57, Cl. 120-42.03.
- Smith, Blanchard D., to Scripto, Inc. Mechanical pencil feed mechanism. 2,818,045, 12-31-57, Cl. 120-18.
- Smith, Brenner E., to J. H. Smith Co., Inc. Valve structure for floor waxing devices. 2,785,837, 3-19-57, Cl. 222-191.
- Smith, Brook I.: *See*—
Maisel, Daniel S., Smith, and Scheeline. 2,778,863.
- Smith, Brook I., F. W. Banas, and J. F. Nelson, to Esso Research and Engineering Co. Integrated fluid coke desulfurization process. 2,793,172, 5-21-57, Cl. 202-14.
- Smith Bros. & Webb Ltd.: *See*—
Smith, Oliver D. 2,787,092.
- Smith, Bruce K.: *See*—
West, Charles F., Smith, and Dean. 2,802,101.
- Smith, Bruce K., to the United States of America as represented by the Secretary of the Air Force. Pulse broadener. 2,788,442, 4-9-57, Cl. 250-27.
- Smith, Byrom J., to Heli-Coil Corp. Lock nut comprising a barrel and threaded locking coil retained therein. 2,775,992, 1-1-57, Cl. 151-14.
- Smith, Calvin S., Jr., to California Research Corp. Liquid phthalic anhydride recovery. 2,817,416, 12-24-57, Cl. 183-119.
- Smith, Carl E. Spiral slot antenna. 2,812,514, 11-5-57, Cl. 343-767.
- Smith, Carl F. Portable stand. 2,808,304, 10-1-57, Cl. 311-84.
- Smith, Carl H., Jr.: *See*—
Hoeppner, Conrad H., and Smith. 2,777,947.
- Smith, Carl M.: *See*—
Buc, Saul R., Randall, Smith, and Jackson. 2,783,244.
- Smith, Carlisle F., to J. L. Case Co. Tractor mounted mower. 2,779,145, 1-29-57, Cl. 56-25.
- Smith, Carlisle F., to J. L. Case Co. Knot tying mechanism. 2,793,890, 5-28-57, Cl. 289-9.
- Smith, Carroll D., Pharmacal Co.: *See*—
Carbone, William E., Jr. 2,803,270.
- Smith, Charles B.: *See*—
Lee, John G., and Smith. 2,805,031.
- Smith, Charles B., to International Business Machines Corp. Data transfer apparatus. 2,798,554, 7-9-57, Cl. 164-115.
- Smith, Charles F.: *See*—
Bruner, Ernest M., Smith, and Oshatz. 2,795,918.
- Smith, Charles G., to Raytheon Mfg. Co. Intrinsic coatings for semiconductor junctions. 2,789,258, 4-16-57, Cl. 317-239.
- Smith, Charles G., to Raytheon Mfg. Co. Method of making junction single crystals. 2,815,303, 12-3-57, Cl. 148-1.5.
- Smith, Charles M., to Merck & Co., Inc. 4.17(20)-pregnadien-21-al-20-ol-3,11-dione and its esters. 2,806,864, 9-17-57, Cl. 260-397.45.
- Smith, Charles P.: *See*—
Greenland, Leonard S., Westbury, and Smith. 2,783,006.
Greenland, Leonard S., Westbury, and Smith. 2,788,185.
- Smith, Charles P. Honing tool. 2,790,278, 4-30-57, Cl. 51-184.3.
- Smith, Charles P., to H. M. Hobson Ltd. Hydraulic servo systems. 2,803,111, 8-20-57, Cl. 60-52.
- Smith, Charles P., to Sylvania Electric Products Inc. Coating filamentary material. 2,818,381, 12-31-57, Cl. 204-181.
- Smith, Charles R., to Mellor Bromley & Co., Ltd. Weaver's knot. 2,804,676, 9-3-57, Cl. 28-72.
- Smith, Charles W.: *See*—
Johnson, Henry V., and Smith. 2,813,159.
- Smith, Chester A., to General Electric Co. Electric motor winding arrangement. 2,812,459, 11-5-57, Cl. 310-198.
- Smith, Chester E., Jr.: *See*—
Anderson, Leigh C., and Smith. 2,804,453.
- Smith, Christian. Shingle grooving and splining machines. 2,791,249, 5-7-57, Cl. 144-3.
- Smith, Clarence H. Electric motor repair tool. 2,796,786, 6-25-57, Cl. 81-15.
- Smith, Clarence J.: *See*—
Hodges, Frederick G., Jr., and Smith. 2,797,741.
- Smith, Clarence J., to W. F. and John Barnes Co. Can dispatching apparatus. 2,781,232, 2-12-57, Cl. 302-2.
- Smith, Clarence M., to The Bryant Electric Co. Wiring device. 2,785,257, 3-12-57, Cl. 200-153.
- Smith, Claude F., Jr., to Marston Broom-Mop Factory. Broom making machine and method. 2,804,345, 8-27-57, Cl. 300-13.
- Smith, Cleo E.: *See*—
Moore, Ezra L., and Smith. 2,776,704.
Moore, Ezra L., and Smith. 2,787,316.
- Smith, Clive A. Ball glove or mitt. 2,798,223, 7-9-57, Cl. 2-19.
- Smith, Cloyd D. Apparatus for changing the temperature of a room. 2,788,955, 4-16-57, Cl. 261-30.
- Smith, Cloyd R., to Armstrong Cork Co. Friction material. 2,787,569, 4-2-57, Cl. 154-43.
- Smith, Colvin A.: *See*—
Smith, Gilbert E. 2,815,154.
- Smith-Corona, Inc.: *See*—
Kennedy, Charles H., Jr. 2,798,584.
Kunzelman, George R. 2,816,640.
Zaiser, Lloyd W. 2,789,677.
- Smith, Curtis W.: *See*—
Holm, Roy T., and Smith. 2,779,800.
Payne, George B., and Smith. 2,776,301.
Payne, George B., and Smith. 2,783,250.
- Smith, Curtis W., and D. G. Norton, to Shell Development Co. Method for preparing substituted dialdehydes. 2,784,235, 3-5-57, Cl. 260-602.
- Smith, Curtis W., and G. B. Payne, to Shell Development Co. Process of making oxirane compounds using hydrogen peroxide and tungstic acid as the catalyst. 2,786,854, 3-26-57, Cl. 260-348.5.
- Smith, Curtis W., D. G. Norton, and G. B. Payne, to Shell Development Co. Production of hydroxy ethers. 2,808,442, 10-1-57, Cl. 260-611.
- Smith, Curtis W., and T. W. Evans, to Shell Development Co. New polyols from polyaldehydes, their preparation and derivatives. 2,809,186, 10-8-57, Cl. 260-73.
- Smith, Curtiss A.: *See*—
Pearlman, Harry, Silverman, and Smith. 2,778,786.
- Smith, Dale D., to Harley Earl, Inc. Floor covering. 2,777,789, 1-15-57, Cl. 154-49.
- Smith, Darwin G., and S. J. Ketterer, to The Singer Mfg. Co. Methods of producing piped garment openings. 2,780,193, 2-5-57, Cl. 112-264.

- Smith, David B., R. W. J. Lewis, L. C. Malabre, W. W. Jukkola, and T. D. Heath; said Smith, Jukkola, and Heath assors. to Dorr-Oliver Inc. Process of calcining alumina trihydrate in fluidized bed. 2,799,558, 7-16-57, Cl. 23-142.
- Smith, David F., A. J. Foglia, and J. C. Callahan, to American Cyanamid Co. Chlorotetracycline gauze and method for production. 2,804,425, 8-27-57, Cl. 167-84.
- Smith, David T., to International Harvester Co. Process of welding tubes to plates. 2,809,276, 10-8-57, Cl. 219-107.
- Smith and Davis Ltd.: See—
Daffurn, Roland M., and Howard-Smith. 2,785,915.
- Smith, Delbert C., and V. J. Brush having bristles serving as a valve. 2,791,789, 5-14-57, Cl. 15-136.
- Smith, Derek R.: See—
Read, John C., and Smith. 2,777,108.
- Smith, Donald A.: See—
Smith, Albert C., Jr., D. A. Smith, and Unruh. 2,787,546.
- Unruh, Cornelius C., Smith, and Priest. 2,808,331.
- Smith, Donald A., to G. H. Boyd. Clamping device having a quickly positioned and screw-actuated movable jaw. 2,800,819, 7-30-57, Cl. 81-17.
- Smith, Donald A., and W. F. Fowler, Jr., to Eastman Kodak Co. Ampholytic, hydrophilic, polymeric solutions and mixtures thereof with gelatin. 2,811,494, 10-29-57, Cl. 260-8.
- Smith, Donald A., C. C. Smith, Jr., and C. C. Unruh, to Eastman Kodak Co. Light-sensitive polymers for photography. 2,811,509, 10-29-57, Cl. 260-63.
- Smith, Donald F., to the United States of America as represented by the Secretary of the Army. Bolt actuator for closures. 2,792,963, 5-21-57, Cl. 220-25.
- Smith, Donald P.: See—
Hultkrans, Paul B., and Smith. 2,790,594.
- Smith, Donald P., to Milprint, Inc. Valved bag. 2,800,269, 7-23-57, Cl. 229-62.5.
- Smith, Douglas S., to G. D. Searle & Co. (2'-hydroxy-3'-oxo-1'-cyclohexenyl)-alkoxynaphthalenes, esters thereof and their production. 2,799,699, 7-16-57, Cl. 260-488.
- Smith-Douglas Co., Inc.: See—
Hollingsworth, Clinton A. 2,778,722.
- Hollingsworth, Clinton A. 2,815,859.
- Kieffer, Dale C., Davis, and Powers. 2,798,801.
- Smith, Dudley C.: See—
Blackman, John W., and Smith. 2,811,040.
- Smith, Earl D. Chair construction. 2,806,514, 9-17-57, Cl. 155-191.
- Smith, Earl K., to E. K. and L. F. Smith, and W. I. Overend, Co. b. Hart Heat, a Division of Avery Farm Machinery Co. Oil burner. 2,790,490, 4-30-57, Cl. 153-76.
- Smith, Earl K. Air control vane for blower. 2,815,900, 12-10-57, Cl. 230-114.
- Smith, Earle E., 1/4 to J. Macauley. Lifting and carrying device for turkeys. 2,790,585, 4-30-57, Cl. 224-45.
- Smith, Edgar D. Brake locking means. 2,803,316, 8-20-57, Cl. 188-265.
- Smith, Edmund G., and O. M. Cocchiarella, to Equipment Development Co., Inc. Filter. 2,798,424, 7-9-57, Cl. 100-174.
- Smith, Edmund G., and O. M. Cocchiarella, to Equipment Development Co., Inc. Method of concentrating sludge. 2,798,609, 7-9-57, Cl. 210-66.
- Smith, Edward M.: See—
Montgomery, Horace M., and Smith. 2,788,014.
- Smith, Edward M., to Gorman-Rupp Industries, Inc. Impeller for centrifugal pump. 2,787,962, 4-9-57, Cl. 103-103.
- Smith, Edward M., to Techno Corp. Check valve. 2,800,920, 7-30-57, Cl. 137-512.15.
- Smith, Edward T. Auxiliary wheel for lawnmowers. 2,809,489, 10-15-57, Cl. 56-249.
- Smith, Edward W. Torsionally oscillating oil well drive bit. 2,803,433, 8-20-57, Cl. 255-1.8.
- Smith, Edward W. Felting and/or fulling machines. 2,810,183, 10-22-57, Cl. 28-5.
- Smith, Edwin R.: See—
Cafolla, Constantine F., and Smith. 2,782,568.
- Smith, Egmont S., to B & B Engineering & Supply Co., Inc. Machine for forming longitudinally curved members. 2,782,814, 2-26-57, Cl. 143-85.
- Smith, Elbridge G., and W. Maier, to W. Maier. Electrical outlet fixtures. 2,788,188, 4-9-57, Cl. 248-57.
- Smith, Elizabeth E., and W. O. Dental compact or tooth-brush kit. 2,794,442, 6-4-57, Cl. 132-84.
- Smith, Elizabeth R. Artificial kindling. 2,811,428, 10-29-57, Cl. 44-41.
- Smith, Eric, and K. K. Haber, to S. B. Penick & Co., Inc. Isolation of crystalline components from visnagin. 2,816,118, 12-10-57, Cl. 260-345.2.
- Smith, Eric W., to English Steel Corp. Ltd. Method of casting hollow ingots. 2,792,605, 5-21-57, Cl. 22-200.
- Smith, Ernest F., to American Machine & Foundry Co. Self-leveling dispenser. 2,812,990, 11-12-57, Cl. 312-71.
- Smith, Eugene M.: See—
Easley, Jack H., and Smith. 2,776,393.
- Smith, Florence E. Detachable uppers for footwear. 2,809,449, 10-15-57, Cl. 36-2.5.
- Smith, Floyd S.: See—
Harvey, John P., and Smith. 2,787,361.
- Smith, Francis E.: See—
Smith, Ben J. and F. E. 2,795,456.
- Smith, Francis H., and R. E. Spokes, to American Brake Shoe Co. Friction element for brake shoes. 2,781,107, 2-12-57, Cl. 188-251.
- Smith, Francis J. Ventilated awning of corrugated fiber glass panels. 2,804,659, 9-3-57, Cl. 20-57.5.
- Smith, Francis R.: See—
Deutsch, Franz S., Smith, and Pratt. 2,816,044.
- Smith, Frank E.: See—
Kaplan, Arthur Y., Hoyt, Smith, Tafel, Tavani, Christian, and Weiss. 2,796,815.
- Smith, Frank M. Continuity tester. 2,812,394, 11-5-57, Cl. 200-60.
- Smith, Frank M. and L. H., to The Decora Corp. Method for forming three dimensional patterns in textile material. 2,783,175, 2-26-57, Cl. 154-106.
- Smith, Frank R.: See—
Robbins, Joseph, Smart, and Smith. 2,814,485.
- Smith, Franklin S. Destruction by shock waves of insect life in infested products. 2,783,760, 3-5-57, Cl. 131-121.
- Smith, Fred, and D. R. Priestersbach, to The Regents of the University of Minnesota. Separation of D-glucose and D-fructose. 2,813,810, 11-19-57, Cl. 127-55.
- Smith, Fred E. A., to Cowles Chemical Co. Lubricator. 2,797,984, 7-2-57, Cl. 23-267.
- Smith, Fred H., Jr., to Radio Corp. of America. Automatic control alarm system. 2,786,989, 3-26-57, Cl. 340-213.
- Smith, Fred T., to The Calkins Mfg. Co. Tractor implement coupling device. 2,816,497, 12-17-57, Cl. 97-47.58.
- Smith, Fred W. Tire bead seating device. 2,797,744, 7-2-57, Cl. 157-1.1.
- Smith, Frederick A. Blood circulation. 2,796,861, 6-25-57, Cl. 128-44.
- Smith, Frederick A., to Union Carbide Corp. Method of coating a fabric with an alkoxy end blocked polysiloxane. 2,815,300, 12-3-57, Cl. 117-103.
- Smith, Frederick H. Toolholder bushing. Re. 2,348,8-20-57, Cl. 279-44.
- Smith & French Laboratories: See—
Bartlett, Richard J. 2,778,178.
- Smith, G. Tucker: See—
Jones, Montgomery O. 2,785,751.
- Smith, Garner, and R. E. Owen. Preset for sawmill carriages. 2,807,293, 9-24-57, Cl. 143-120.
- Smith, Gene W., to G. M. Giannini & Co., Inc. Gyroscope caging and erecting system. 2,795,142, 6-11-57, Cl. 74-5.1.
- Smith, George: See—
Molins, Desmond W., Smith, Mason, and Ruau. 2,798,346.
- Smith, George E.: See—
Smith, Lundy E. 2,783,652.
- Smith, George F.: See—
Herman, Elvin E., and Smith. 2,790,929.
- Smith, George F., deceased; L. Smith, executrix of said G. F. Smith, to R. L. Gach. Shaft position indicating dial. 2,805,636, 9-10-57, Cl. 116-115.
- Smith, George J. Dual heat-hot water tankless system. 2,781,174, 2-12-57, Cl. 237-8.
- Smith, George L. Projectile parbuckling mechanism. 2,779,245, 1-29-57, Cl. 89-45.
- Smith, George M., to A. O. Smith Corp. Indexing drum for drill press. 2,791,136, 5-7-57, Cl. 77-64.
- Smith, George W. Awning. 2,796,072, 6-18-57, Cl. 135-5.
- Smith, Gilbert E., 50% to C. A. Smith. Valved measuring closure for containers. 2,815,154, 12-3-57, Cl. 222-452.
- Smith, Glen. Static wire device. 2,811,674, 10-29-57, Cl. 317-2.
- Smith, Glen A., to General Motors Corp. Door lock. 2,782,062, 2-19-57, Cl. 292-216.
- Smith, Goble D. Collapsible canopy frame attachment for vehicle trunks. 2,815,762, 12-10-57, Cl. 135-5.
- Smith, Gordon E.: See—
Drewitt, James G. N., John, and Smith. 2,798,542.
- Smith, Grafton A., to Shell Development Co. Well tubing heater system. 2,781,851, 2-19-57, Cl. 166-60.
- Smith, Graydon: See—
Pozerycki, John W., Lazott, Flint, and Smith. 2,783,830.
- Smith, Graydon, to Cranston Print Works Co. Cylinder adjusting and drive means for rotary print machine. 2,816,504, 12-17-57, Cl. 101-182.
- Smith, Guileme M.: See—
Smith, Arthur W. 2,779,116.
- Smith, Arthur W. 2,803,418.
- Smith, Hal E.: See—
Whiston, Earl R., and Smith. 2,803,651.
- Smith, Harold H., to Seymour Smith & Son, Inc. Pruning shears. 2,807,087, 9-24-57, Cl. 30-186.
- Smith, Harold K. Electric outlet box wall hole cover plate. 2,787,398, 4-2-57, Cl. 220-24.2.
- Smith, Harold W.: See—
Thunæs, Arvid, Brown, Smith, and Simard. 2,815,261.
- Smith, Harold Z., and J. H. Sparks; said Sparks assor. to said Smith. Truck hoist. 2,793,767, 5-28-57, Cl. 214-46.34.
- Smith, Harry. Shipping carton. 2,795,325, 6-11-57, Cl. 206-46.
- Smith, Harry A., to The Stanley Works. Box strapping tool. 2,777,344, 1-15-57, Cl. 81-9.1.
- Smith, Harry B., and E. D. Green, to Westinghouse Electric Corp. Circuit for phase shift measurement. 2,813,241, 11-12-57, Cl. 320-1.
- Smith, Harry D.: See—
Sammis, Edward A., Smith, and Vehslage. 2,787,760.
- Smith, Harry D., to Sperry Rand Corp. Failure warning device for servo systems. 2,817,071, 12-17-57, Cl. 340-149.

- Smith, Harry F., to Mansfield Sanitary Pottery, Inc. Ball cock valve. 2,791,235, 5-7-57, Cl. 137-437.
- Smith, Harry K., and A. R. Taylor, to Standard Electronics Corp. Sync stretcher. 2,793,289, 5-21-57, Cl. 250-27.
- Smith, Harvey J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,814,740, 11-26-57, Cl. 307-132.
- Smith Henry, and J. Smith, to J. & H. Smith Mfg. Co. Voltage step-down device for dual signal elements. 2,790,094, 4-23-57, Cl. 307-157.
- Smith, Henry J., to Pullman-Standard Car Mfg. Co. Pneumatic shock absorber with rebound control. 2,809,722, 10-15-57, Cl. 188-97.
- Smith, Henry M.: See—
Hansen, Siegfried, Koda, and H. M. and S. T. Smith. 2,798,185.
- Smith, Henry M., to Hughes Aircraft Co. Method of producing monolayer electrode screens. 2,776,908, 1-8-57, Cl. 117-33.5.
- Smith, Henry M., to Hughes Aircraft Co. Direct-viewing storage tube. 2,788,467, 4-9-57, Cl. 315-12.
- Smith, Henry O. Illuminated note pad holder. 2,806,715, 9-17-57, Cl. 281-15.
- Smith, Henry S.: See—
Gold, Robert M., Lincoln, and Smith. 2,798,461.
- Smith, Herman E., to Goodman Mfg. Co. Retractable boring head for mining machines. 2,776,124, 1-1-57, Cl. 262-7.
- Smith, Herman E., to Goodman Mfg. Co. Take-up device for endless crawler tread assembly. 2,788,248, 4-9-57, Cl. 305-9.
- Smith, Herman E., to Goodman Mfg. Co. Mining machine of the boring type having two boring heads. 2,818,242, 12-31-57, Cl. 262-7.
- Smith, Herman R., to Raymond Concrete Pile Co. Hammer for driving piles and the like. 2,791,097, 5-7-57, Cl. 61-76.
- Smith, Hermon B., 50% to R. E. Brooks. Fly trap. 2,786,298, 3-26-57, Cl. 43-118.
- Smith, Herschel G.: See—
Cantrell, Troy L., Peters, and Smith. 2,789,092.
Cantrell, Troy L., Peters, and Smith. 2,810,697.
Cantrell, Troy L., and Smith. 2,786,030.
- Smith, Hiram P., and K. G. Kirchner, to International Harvester Co. Side delivery rake. 2,796,723, 6-25-57, Cl. 56-377.
- Smith, Horace L., Jr., to H. W. Lay & Co., Inc. Method of and apparatus for continuously cooking potato chips and similar comestibles. 2,812,254, 11-5-57, Cl. 99-100.
- Smith, Horace P. Rotary tool holding device. 2,809,475, 10-15-57, Cl. 51-166.
- Smith, Howard, Paper Mills Ltd.: See—
Gaudet, Leo, Nesbitt, and Steer. 2,787,954.
- Smith, Hiram E. Ironing board. 2,783,562, 3-5-57, Cl. 38-135.
- Smith, Ian A., and H. G. Muenchinger, to The American Screw Co. Method of hobbing recess-forming punches. 2,797,595, 7-2-57, Cl. 76-107.
- Smith, J. H., Co., Inc.: See—
Buonaiuto, Robert B. 2,785,723.
Smith, Brenner E. 2,785,837.
- Smith, J. & H., Mfg. Co.: See—
Smith, Henry, and J. Smith. 2,790,094.
- Smith, Jack C., to E. I. du Pont de Nemours and Co. Highly oriented shaped tetrafluoroethylene article and process for producing the same. 2,776,465, 1-8-57, Cl. 28-82.
- Smith, Jack L. Bridle and bit. 2,810,250, 10-22-57, Cl. 54-7.
- Smith, James C.: See—
Redmond, Audy J. 2,808,634.
- Smith, James E. Variable stroke variable pressure pump or compressor. 2,789,515, 4-23-57, Cl. 103-161.
- Smith, James L.: See—
Germer, Lester H., and Smith. 2,802,149.
- Smith, James L., to Bell Telephone Laboratories, Inc. Low voltage percussion welder with auxiliary arc striking circuit. 2,797,802, 6-25-57, Cl. 219-95.
- Smith, James L., to Eastman Kodak Co. New synthesis of methylene sulfate by reaction of paraformaldehyde with sulfur trioxide in chlorinated hydrocarbon solvent. 2,805,228, 9-3-57, Cl. 260-327.
- Smith, James M.: See—
Jardine, Frank, and Smith. 2,787,504.
- Smith, James R.: See—
Michener, Herbert E., Jr., and Smith. 2,797,940.
- Smith, James & Son, Inc.: See—
Corbett, Lawrence W. 2,786,239.
- Smith, James T., to Geo. H. Lee Co. Arsenosobenzene poultry treatment composition. 2,800,425, 7-23-57, Cl. 167-53.1.
- Smith, James V., to Phillips Petroleum Co. Benzoic acid production. 2,792,419, 5-14-57, Cl. 260-523.
- Smith, James W., to Minneapolis-Honeywell Regulator Co. Oscillator power supplies. 2,784,313, 3-5-57, Cl. 250-36.
- Smith-Johannsen, Robert, to S-J Chemical Co. Method of making microporous film. 2,806,256, 9-17-57, Cl. 18-57.
- Smith, John A.: See—
Clough, Harry, and Smith. 2,799,629.
- Smith, John E.: See—
Janney, Thomas T., and Smith. 2,804,835.
- Smith, John E., to James Lees and Sons Co. Individual pile yarn control apparatus for pile fabrics. 2,782,741, 2-26-57, Cl. 112-79.
- Smith, John E., to James Lees and Sons Co. Pattern tufting device for pile fabrics. 2,782,905, 2-26-57, Cl. 203-200.
- Smith, John F., to Compo Shoe Machinery Corp. Fluid pressure actuated shoe upper pressing machines. 2,804,360, 8-27-57, Cl. 309-2.
- Smith, John F., to Compo Shoe Machinery Corp. Shoe presses. 2,813,281, 11-19-57, Cl. 12-36.5.
- Smith, John G., to Burroughs Corp. Switch mechanism. 2,782,287, 2-19-57, Cl. 200-153.
- Smith, John H., to General Motors Corp. Variable pitch propeller. 2,792,064, 5-14-57, Cl. 170-160.32.
- Smith, John H. Foldable anchor. 2,797,657, 7-2-57, Cl. 114-207.
- Smith, John J.: See—
Mueller, Frank H., and Smith. 2,800,812.
- Smith, John L.: See—
Hesson, James C., and Smith. 2,794,395.
- Smith, John O., and W. R. Weigham, to Courtaulds Ltd. Production of viscose. 2,805,924, 9-10-57, Cl. 23-283.
- Smith, John P.: See—
Jones, Thomas R. 2,784,429.
- Smith, John P., to Radio Corp. of America. High voltage supplies. 2,783,413, 2-26-57, Cl. 315-16.
- Smith, John P., to the United States of America as represented by the Secretary of the Army. Ground clutter reduction in coherent pulse radar system. 2,805,413, 9-3-57, Cl. 343-7.7.
- Smith, John W., to Eastman Kodak Co. Method and means for opening crimped continuous filament tow. 2,790,208, 4-30-57, Cl. 19-66.
- Smith, John W., to Collins Radio Co. Remote control servo-system. 2,808,557, 10-1-57, Cl. 318-467.
- Smith, John W., to Faximile, Inc. Fluorescent lamp control apparatus. 2,810,862, 10-22-57, Cl. 315-95.
- Smith, Joseph: See—
Smith, Henry, and J. Smith. 2,790,094.
- Smith, Joseph A.: See—
Gilliam, George R., and Smith. 2,817,155.
- Smith, Joseph A., to Esso Research and Engineering Co. High grade paving asphalt and method of making same. 2,802,798, 8-13-57, Cl. 260-28.5.
- Smith, Joseph A. Overdue indicator for coin-operated storage lockers. 2,803,213, 8-20-57, Cl. 116-133.
- Smith, Joseph A., to Esso Research and Engineering Co. Method for producing an improved cutting oil. 2,814,594, 11-26-57, Cl. 252-33.2.
- Smith, Joseph E., Jr.: See—
Flaith, George D., and Smith. 2,790,571.
Flaith, George D., and Smith. 2,790,572.
- Smith, Justin L., to Seymour Smith & Son, Inc. Combination blade tensioning and shock cushioning means for hedge shears. 2,798,291, 7-9-57, Cl. 30-269.
- Smith, Karl M.: See—
Vandergriff, Arvel L., and Smith. 2,795,011.
- Smith, Keith L., to Union Carbide Corp. Soil conditioning. 2,799,973, 7-23-57, Cl. 47-58.
- Smith, Kenneth A., to Imperial Chemical Industries Ltd. Re-utilisable blasting apparatus assembly applicable for blasting in coal mines. 2,783,712, 3-5-57, Cl. 102-25.
- Smith, Kenneth A., to Imperial Chemical Industries Ltd. Blasting devices. 2,794,396, 6-4-57, Cl. 102-25.
- Smith, Kenneth C.: See—
Chandler, Wesley M., Heuser, and Smith. 2,805,462.
- Smith, Kenneth D., to Bell Telephone Laboratories, Inc. Electro-optical system. 2,793,299, 5-21-57, Cl. 250-214.
- Smith, Kenneth D., to Bell Telephone Laboratories, Inc. Electronic systems. 2,807,712, 9-24-57, Cl. 250-7.
- Smith, Kenneth D., to Bell Telephone Laboratories, Inc. Electro-optical system. 2,810,863, 10-22-57, Cl. 315-159.
- Smith, Kenneth E.: See—
Wilkins, Marion D., and Smith. 2,796,184.
- Smith, Kline & French Laboratories: See—
Bartlett, Richard J. 2,785,786.
Bartlett, Richard J., and Whitecar. 2,807,289.
Brammar, Charles H. 2,807,230.
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Fellows, Edwin J. 2,807,566.
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Robinson, Manford J. 2,798,838.
Robinson, Manford J., and Svedres. 2,805,977.
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Zirkle, Charles L. 2,800,479.
Zirkle, Charles L. 2,800,480.
Zirkle, Charles L. 2,800,481.
Zirkle, Charles L. 2,800,482.
- Smith, La Vern N. and A. J. Pump type liquid dispenser. 2,792,974, 5-21-57, Cl. 222-376.
- Smith, Lee, to Carrom Industries, Inc. Hospital bed accessory. 2,795,473, 6-11-57, Cl. 312-295.
- Smith, Lee B.: See—
Miller, Charles B., Pearson, and Smith. 2,802,887.
- Smith, Lee M., to International Paper Co. Ventilated shipping container. 2,807,401, 9-24-57, Cl. 229-6.
- Smith, Leland H.: See—
Smith, Frank M. and L. H. 2,783,175.
- Smith, Leo K.: See—
Smith, Lowell L. 2,803,964.
- Smith, Leroy C.: See—
Dewing, Kenneth F., and Smith. 2,807,921.

- Smith, Lester E. Fishing rod rest and carrier. 2,787,431, 4-2-57, Cl. 248-42.
- Smith, Lewis R., to Remington Corp. Air conditioner. 2,787,135, 4-2-57, Cl. 62-117.55.
- Smith, Lewis R., and H. L. Laube, to Remington Corp. Air conditioner having automotive drain means. 2,804,758, 9-3-57, Cl. 62-140.
- Smith, Lila: *See*—
- Smith, George F. 2,805,636.
- Smith, Lloyd B.: *See*—
- Bullock, Ellis W., and Smith. 2,804,163.
- Smith, Lloyd B. Centrifugal dust collector. 2,779,434, 1-29-57, Cl. 183-76.
- Smith, Lloyd B., and L. M. Leathers, to L. M. Leathers' Sons. Liquid dispenser. 2,785,836, 3-19-57, Cl. 222-146.
- Smith, Lloyd F.: *See*—
- Smith, Earl K. 2,790,490.
- Smith, Lloyd P., to Radio Corp. of America. Magnetron. 2,781,476, 2-12-57, Cl. 315-39.57.
- Smith and Loveless, Inc.: *See*—
- Weis, Frank G. 2,779,562.
- Weis, Frank G. 2,817,299.
- Smith, Lowell L., 50% to L. K. Smith. Lawn mower blade balancer. 2,803,964, 8-27-57, Cl. 73-484.
- Smith, Lucius N. Vehicle mounted apparatus for handling cut forage. 2,797,001, 6-25-57, Cl. 214-83.36.
- Smith, Lundy E., to G. B. Smith. Reciprocating motion transmitting mechanism. 2,783,652, 3-5-57, Cl. 74-110.
- Smith, Luther A. Indoor golf equipment. 2,793,037, 5-21-57, Cl. 273-87.2.
- Smith, Malcolm K., to The Baker Castor Oil Co. Production of lubricating greases from monohydric alcohol esters of hydroxy fatty acids. 2,801,220, 7-30-57, Cl. 252-36.
- Smith, Malcolm K., and L. Auer, to The Baker Castor Oil Co. Oxidative alkaline fusion of organic compounds. 2,782,215, 2-19-57, Cl. 260-413.
- Smith, Margaret W. Combination furniture. 2,778,034, 1-22-57, Cl. 5-2.
- Smith, Martin R.: *See*—
- McGrath, Henry G., and Smith. 2,787,583.
- Smith, Martin R., to McGraw-Edison Co. Protectors for electric circuits. 2,805,304, 9-3-57, Cl. 200-142.
- Smith, Mary B.: *See*—
- Bell, Dixon T., and Moser. 2,817,513.
- Smith-Meeker Engineering Co.: *See*—
- Lindley, Frederick A. 2,788,588.
- Smith, Melvin P. Warm air heating device. 2,800,069, 7-23-57, Cl. 98-40.
- Smith, Miles J., to Carolina Rubber Hose Co. Reel for dye beck machines. 2,796,169, 6-18-57, Cl. 203-355.
- Smith, Milton W., to the American Aviation, Inc. Magnetic frequency divider. 2,787,755, 4-2-57, Cl. 321-68.
- Smith, Nathan H. Garden tool. 2,787,203, 4-2-57, Cl. 97-61.
- Smith, Neal J., to California Research Corp. Seismic prospecting method and apparatus. 2,798,211, 7-2-57, Cl. 340-17.
- Smith, Norman J., to American Meter Co., Inc. Gas densitometer. 2,783,641, 3-5-57, Cl. 73-30.
- Smith, Norman P.: *See*—
- Ross, Rupert C., Smith, and Spence. 2,786,622.
- Smith, Oakley. Device for determining nutritional factors. 2,818,278, 12-31-57, Cl. 281-1.
- Smith, Oliver D., to Smith Bros. & Webb Ltd. Cutting-off machine. 2,787,092, 4-2-57, Cl. 51-98.
- Smith, Oliver R. Pipe reforming clamp. 2,800,867, 7-30-57, Cl. 113-102.
- Smith, Orville R.: *See*—
- Reesby, Carl E., and Smith. 2,795,856.
- Smith, Oscar H., Jr.: *See*—
- Hollingsworth, Teddy E., Matter, and Smith. 2,786,003.
- Smith, Otto W. Spring suspension for a tandem trailer device. 2,782,051, 2-19-57, Cl. 280-124.
- Smith, Otto T., and G. A. Butter, Jr., to Powers Chemo, Inc. Photoengraver's powdering cabinet. 2,818,043, 12-31-57, Cl. 118-11.
- Smith, P. Gene, to Sperry Rand Corp. Folded hybrid junction. 2,792,551, 5-14-57, Cl. 333-11.
- Smith, Paul C., to Strolee of California, Inc. Adjustable baby stroller. 2,798,730, 7-9-57, Cl. 280-36.
- Smith, Paul N.: *See*—
- Stichler, Hoy L., and Smith. 2,795,392.
- Smith, Paul V., Jr.: *See*—
- Bartlett, Jeffrey H., Brodkey, and Smith. 2,814,639.
- Koifenbach, John J., Morway, and Smith. 2,782,166.
- Smith, Paul V., Jr., to Esso Research and Engineering Co. Dibasic acid esters of glycols. Re. 24,287, 3-12-57, Cl. 260-485.
- Smith, Percy L.: *See*—
- Lanham, William M., and Smith. 2,810,757.
- Smith, Perry M., and J. H. Whitfield, to Decatur Iron & Steel Co. Operating and locking mechanism for prison doors. 2,792,917, 5-21-57, Cl. 189-7.
- Smith, Peter, to Imperial Chemical Industries Ltd. Production of aromatic compounds. 2,777,880, 1-15-57, Cl. 260-592.
- Smith, Peter, to Imperial Chemical Industries Ltd. Production of terephthalic acid and esters. 2,782,224, 2-19-57, Cl. 260-475.
- Smith, Peter, to Imperial Chemical Industries Ltd. Production of metal alkyls. 2,794,819, 6-4-57, Cl. 260-448.
- Smith, Peter A., to Fisher Governor Co. Filler valve construction. 2,813,401, 11-19-57, Cl. 62-1.
- Smith, Philip A. Manufacture of shot. 2,811,748, 11-5-57, Cl. 18-47.2.
- Smith, Philip J., to General Electric Co. Wave propagation mode converter. 2,797,391, 6-25-57, Cl. 333-21.
- Smith, Philip N., to Deering Milliken Research Corp. Control device for strand handling machine. 2,787,044, 4-2-57, Cl. 28-51.
- Smith, Randolph E.: *See*—
- Hood, George C., and Smith. 2,818,372.
- Smith, Raymond C. Toe hoe. 2,802,264, 8-13-57, Cl. 30-297.
- Smith, Raymond E., to The A. C. Gilbert Co. Vibrator excited loud speaker for toys. 2,791,972, 5-14-57, Cl. 104-150.
- Smith, Raymond E., to The A. C. Gilbert Co. Tilttable oscillating fan. 2,813,673, 11-19-57, Cl. 230-256.
- Smith, Raymond E., and J. J. Baltrush, Jr., to The A. C. Gilbert Co. Therapeutic electromagnetic vibrator. 2,809,631, 10-15-57, Cl. 128-41.
- Smith, Raymond H., to the United States of America as represented by the Secretary of the Navy. Gated pulse generator. 2,806,949, 9-17-57, Cl. 250-27.
- Smith, Raymond T.: *See*—
- Peterson, Albert C., and Smith. 2,783,724.
- Smith, Rex L., to the United States of America as represented by the Secretary of the Navy. Squib. 2,801,585, 8-6-57, Cl. 102-28.
- Smith, Robert A. Musical instrument. 2,785,595, 3-19-57, Cl. 84-402.
- Smith, Richard A., to The M. W. Kellogg Co. Perfluorochloroolefin homopolymer plasticized with perchloroolefin copolymers. 2,789,959, 4-23-57, Cl. 260-45.5.
- Smith, Richard A., to The M. W. Kellogg Co. Perfluorochloroolefin polymers plasticized with perfluorochloroolefin copolymers. 2,789,960, 4-23-57, Cl. 260-45.5.
- Smith, Richard A., and F. W. West, to The M. W. Kellogg Co. Heat sealing thermoplastic polymers. 2,785,729, 3-19-57, Cl. 154-42.
- Smith, Richard F.: *See*—
- Chapin, Earl C., and Smith. 2,817,651.
- Smith, Richard M. Wall paper hanging, pasting, and trimming device. 2,794,566, 6-4-57, Cl. 216-6.
- Smith, Robert A. Tree surrounding ring. 2,782,561, 2-26-57, Cl. 47-25.
- Smith, Robert C., Jr.: *See*—
- Jefferson, Edward G., Smith, and Stiles. 2,776,315.
- Smith, Robert E. Torpedo exploder. 2,779,277, 1-29-57, Cl. 102-16.
- Smith, Robert F., to The Worthington Ball Co. Method of making plastic covered golf balls. 2,787,024, 4-2-57, Cl. 18-59.
- Smith, Robert F. Automobile door lock control mechanism. 2,802,357, 8-13-57, Cl. 70-283.
- Smith, Robert K.: *See*—
- Pohorilla, Michael J., and Smith. 2,815,325.
- Smith, Robert K. Inside pipe and tube cutter. 2,814,105, 11-26-57, Cl. 30-105.
- Smith, Robert L., and R. E. Kittredge, to Link Aviation, Inc. Rough air simulating means for grounded aviation trainers. 2,787,842, 4-9-57, Cl. 35-12.
- Smith, Robert O. Storage drawer for pricing system. 2,796,171, 6-18-57, Cl. 206-73.
- Smith, Robert R., to American Viscose Corp. Liquid extractor for filamentary material. 2,816,430, 12-17-57, Cl. 68-244.
- Smith, Robert V., to Raytheon Mfg. Co. Heating devices. 2,813,185, 11-12-57, Cl. 219-10.55.
- Smith, Robert W., to General Motors Corp. Sealed tip thermocouples. 2,794,059, 5-28-57, Cl. 136-4.
- Smith, Robert W., to The T. L. Smith Co. Transit mixer for improved discharge of low slump concrete. 2,805,053, 9-3-57, Cl. 259-169.
- Smith, Robert W., and K. Schwartzwalder, to General Motors Corp. Resistor. 2,786,819, 3-26-57, Cl. 252-519.
- Smith, Roland H. Tilttable wheel assembly for motor vehicles. 2,798,566, 7-9-57, Cl. 180-22.
- Smith, Ronald V., to J. E. Lonergan Co. Liquid relief valve. 2,792,015, 5-14-57, Cl. 137-469.
- Smith, Ronald V., to J. E. Lonergan Co. Pressure relief valve. 2,815,040, 12-3-57, Cl. 137-469.
- Smith, Roscoe S.: *See*—
- Potts, Ralph H., and Smith. 2,808,426.
- Smith, Roy R., and D. E. Williams; said Smith assor. to said Williams. Card rack. 2,805,502, 9-10-57, Cl. 40-72.
- Smith, Russell B. Universal-opening tail gate. 2,806,735, 9-17-57, Cl. 296-51.
- Smith, Russell G., to The Wm. Powell Co. Pressure seal. 2,810,494, 10-22-57, Cl. 220-46.
- Smith, Samuel: *See*—
- Ahlbrecht, Arthur H., Brown, and Smith. 2,803,615.
- Smith, Samuel H., to Borg-Warner Corp. Combination heater and air-conditioner. 2,813,406, 11-19-57, Cl. 62-140.
- Smith, Schuyler K. Cigarette holder. 2,785,685, 3-19-57, Cl. 131-182.
- Smith, Seymour, & Son, Inc.: *See*—
- Smith, Harold H. 2,807,087.
- Smith, Justin L. 2,798,291.
- Smith, Sidney R., Jr., to General Electric Co. Fuse testing meter. 2,809,350, 10-8-57, Cl. 324-158.
- Smith, Sidney T.: *See*—
- Hansen, Siegfried, Koda, and H. M. and S. T. Smith. 2,798,185.

- Smith, Sidney T., and L. L. Vant-Hull, to Hughes Aircraft Co. Multi-color storage tube. 2,818,524, 12-31-57, Cl. 315-12.
- Smith, Stanley, to E. M. B. Co. Ltd. Speed control of actuating element in die casting and injection moulding machines. 2,792,915, 5-21-57, Cl. 188-97.
- Smith, Stanley J. Windshield wiper. 2,787,018, 4-2-57, Cl. 15-255.
- Smith, Sverre, to Aktiebolaget Eksjoeverkan. Device in electrical rail brakes. 2,782,873, 2-26-57, Cl. 188-41.
- Smith, T. L. Co., The: See—
- Smith, Robert W. 2,805,053.
- Smith, Telford L. Armored gasket for pipe repair clamp and the like. 2,776,153, 1-1-57, Cl. 288-2.
- Smith, Telford L. Axially and radially sealed divided sleeve type pipe clamp. 2,778,662, 1-22-57, Cl. 285-343.
- Smith, Telford L. Saddle clamp with fluid pressure seal. 2,795,439, 6-11-57, Cl. 285-110.
- Smith, Theodore W., A. J. Heger, and K. F. McConnell, to The W. E. Isie Co. and/or The Knit-Rite Co. Cervical collar. 2,818,063, 12-31-57, Cl. 128-87.
- Smith, Tom F., to Autoscope, Inc. Outdoor drive-in theatre and projection means with a plurality of viewing screens. 2,779,237, 1-29-57, Cl. 88-24.
- Smith, Thomas P. Sound producing fish lure. 2,784,399, 3-5-57, Cl. 340-394.
- Smith, Thomas R., to The Maytag Co. Rotatable tub construction for washing machines. 2,789,698, 4-23-57, Cl. 210-382.
- Smith, Thomas R., and W. F. Scott, to The Maytag Co. Washing machine vapor seal. 2,777,314, 1-15-57, Cl. 68-23.
- Smith, Traver J.: See—
- Magnuson, Roy M., and Smith. 2,781,995.
- Smith, Traver J., and R. K. Daugherty, to Oregon Saw Chain Corp. Stud driving tool. 2,787,000, 4-2-57, Cl. 1-106.
- Smith, Verity C., to Barnstead Still and Sterilizer Co. Water distillation. 2,816,064, 12-10-57, Cl. 202-40.
- Smith, Vernon C., and R. I. Searcy. Lamp shade. 2,785,293, 3-12-57, Cl. 240-108.
- Smith, Vernon L.: See—
- Owren, Harvey M., and Smith. 2,776,368.
- Smith, Vincent J.: See—
- Kuttner, Warner L., Collins, Thomson, and Smith. 2,786,720.
- Smith, Vivian J.: See—
- Smith, Delbert C., and V. J. 2,791,789.
- Smith, Wallace L.: See—
- Ibelle, Howard D., and Smith. 2,810,409.
- Smith, Walter J., and R. W. James, to the United States of America as represented by the United States Atomic Energy Commission. Method of making filter media. 2,797,163, 6-25-57, Cl. 92-21.
- Smith, Warren H., to General Motors Corp. Internal combustion engine. 2,792,817, 5-21-57, Cl. 123-65.
- Smith, Warren L.: See—
- Potts, Mack F., Hudson, and Young. 2,776,975.
- Smith, Warren M.: See—
- Johnson, Frank B., Smith, and Moise. 2,778,859.
- Smith, Webster D. Threaded-closure-turning tool. 2,810,311, 10-22-57, Cl. 81-34.
- Smith, Wendell V., to United States Rubber Co. Method of toughening golf ball covers. 2,805,072, 9-3-57, Cl. 273-235.
- Smith, Wesley A., to Tilt-A-Door Corp. Rail structure for a garage door. 2,790,213, 4-30-57, Cl. 20-69.
- Smith, Wilder, and E. Sable. Weather information display device. 2,808,671, 10-8-57, Cl. 40-133.
- Smith, Wilfred I., to Noble Mfg. Co., Inc. Lever-operated rifle with integral breech-bolt and magazine. 2,785,492, 3-19-57, Cl. 42-17.
- Smith, Will O.: See—
- Smith, Elizabeth E. and W. O. 2,794,442.
- Smith, Willard H. Glove testing apparatus. 2,800,788, 7-30-57, Cl. 73-40.
- Smith, Willard P., 1/2 to F. F. Mosley. Reproducing-and-folding apparatus. 2,807,463, 9-24-57, Cl. 270-20.
- Smith, William G., to Stainless Metal Products, Inc. Barbecue grill and oven. 2,806,463, 9-17-57, Cl. 126-25.
- Smith, William I., to The Hettrick Mfg. Co. Mounting for awnings. 2,789,634, 4-23-57, Cl. 160-58.
- Smith, William J., to S & S Vending Machine Co. Gravity-fed vending machine. 2,796,181, 6-18-57, Cl. 214-59.
- Smith, William J., to The Jeffrey Mfg. Co. Jig and material feeding means therefor. 2,797,810, 7-2-57, Cl. 209-497.
- Smith, William M.: See—
- Lehane, Timothy J., and Smith. 2,791,381.
- Smith, William M., Jr.: See—
- Reid, Robert J., and Smith. 2,802,803.
- Reid, Robert J., Smith, and Werner. 2,802,802.
- Smith, William O.: See—
- Nethery, Stanton K., Jr., and Smith. 2,809,680.
- Smith, William R.: See—
- Cohrs, Fred R., and Smith. 2,791,317.
- Cookson, Leonard T., and Smith. 2,801,025.
- Smith, William R., to The A. C. Gilbert Co. Vibratory impulsed circuits with booster. 2,792,409, 5-14-57, Cl. 104-150.
- Smith, William R. Power mower with rotating cutter bar and reversing means. 2,795,914, 6-18-57, Cl. 56-25.4.
- Smith, William R., and C. C. Sperry, to The Upjohn Co. Timing and actuating mechanism. 2,781,483, 2-12-57, Cl. 318-102.
- Smith, William R., and G. R. Monaco, to The A. C. Gilbert Co. Toy railway car with traveling figurettes. 2,794,297, 6-4-57, Cl. 46-218.
- Smith, William V. Gauge for lawn mower sharpening machine. 2,793,474, 5-28-57, Cl. 51-48.
- Smith, Winfield F.: See—
- Hinson, Arthur L., and Smith. 2,788,002.
- Smith, Winfield F., to Owens-Illinois Glass Co. Tamper-proof closures for containers. 2,808,954, 10-8-57, Cl. 215-38.
- Smithburn, George E. Self-propelled garden cultivator. 2,803,183, 8-20-57, Cl. 97-40.
- Smithe, F. L., Machine Co., Inc.: See—
- Novick, Abraham. 2,782,898.
- Novick, Abraham. 2,787,468.
- Novick, Abraham. 2,799,497.
- Novick, Abraham. 2,805,715.
- Novick, Abraham. 2,815,810.
- Smithe, F. S., Machine Co., Inc.: See—
- Novick, Abraham. 2,809,695.
- Smithers, V. L., Mfg. Co., The: See—
- Smithers, Vernon L. 2,781,902.
- Smithers, Vernon L., to The V. L. Smithers Mfg. Co. Special package. 2,781,902, 2-19-57, Cl. 206-65.
- Smithers, Wayne F. Leg lock for folding tables. 2,800,379, 7-23-57, Cl. 311-99.
- Smith-Johannsen, Robert to S-J Chemical Co. Method of coating articles with heat-resistant electrically conducting compositions. 2,803,566, 8-20-57, Cl. 117-216.
- Smiths America Corp.: See—
- Jenkins, Rhonald F., and Desmond. 2,816,592.
- Steadman, Clifford S., and Skinner. 2,794,601.
- Smithuysen, Wilhelm C. B.: See—
- Van Eck, Constantijn L. V. P. B., and Smithuysen. 2,789,116.
- Smithvale Engineering and Mfg. Corp.: See—
- Vale, Verner D. 2,779,621.
- Smits, Wytze B., to Smitsvonnk N. V. Research Laboratory, Comp. Starting device for internal combustion engines. 2-779,898, 1-29-57, Cl. 315-212.
- Smits, Wytze B., to Smitsvonnk N. V. Ignition system for combustion engines. 2,783,289, 2-26-57, Cl. 123-148.
- Smits, Wytze B., to Smitsvonnk N. V. Ignition system for boilers fired with liquid fuel. 2,789,632, 4-23-57, Cl. 158-28.
- Smits, Wytze B., to Smitsvonnk N. V. Research Laboratory, Comp. Surface discharge spark plug and method for making such a spark plug. 2,790,104, 4-23-57, Cl. 313-131.
- Smits, Wytze B. Ignition system for jet engines and the like. 2,810,866, 10-22-57, Cl. 317-83.
- Smits, Wytze B., to Smitsvonnk N. V. Jet engine or gas turbine with electric ignition. 2,811,676, 10-29-57, Cl. 317-83.
- Smits, Wytze B., to Smitsvonnk N. V. Low voltage ignition system. 2,814,659, 11-26-57, Cl. 123-148.
- Smitsvonnk N. V.: See—
- Smits, Wytze B. 2,783,289.
- Smits, Wytze B. 2,789,632.
- Smits, Wytze B. 2,811,676.
- Smits, Wytze B. 2,814,659.
- Smitsvonnk N. V. Research Laboratory, Comp.: See—
- Smits, Wytze B. 2,779,898.
- Smits, Wytze B. 2,790,104.
- Smitzer, Louis A., to Ditto, Inc. Moistening means for duplicating machines. 2,802,445, 8-13-57, Cl. 118-70.
- Smitzer, Louis T., to Ditto, Inc. Drum stop mechanism for rotary duplicating machines. 2,812,047, 11-5-57, Cl. 192-142.
- Smog Co.: See—
- Gallun, Hugo R. 2,793,001.
- Smoker, Chet, to Elkhart Heater Corp. Gas burner. 2,799,329, 7-16-57, Cl. 158-105.
- Smola, Robert E., and F. A. Hoffman, Jr., to Republic Steel Corp. Bracket for metal shelving. 2,803,352, 8-20-57, Cl. 211-147.
- Smolenski, Edward B. Stake-type support for awning posts. 2,783,767, 3-5-57, Cl. 135-15.
- Smolin, Seymour. Automatic fish feeder. 2,785,831, 3-19-57, Cl. 222-70.
- Smoll, Richard M.: See—
- Cardwell, Harland W., and Smoll. 2,805,744.
- Smoot, Charles H., to Republic Flow Meters Co. Pressure transmitters. 2,783,768, 3-5-57, Cl. 137-85.
- Smoot, Charles H., to Republic Flow Meters Co. Control system for a supercritical pressure boiler. 2,804,851, 9-3-57, Cl. 122-448.
- Smoot, John H., to Becton, Dickinson and Co. Injection apparatus. 2,800,903, 7-30-57, Cl. 128-173.
- Smoot, Warren L., and W. R. Donsbach, to Westinghouse Electric Corp. Remote control system. 2,788,517, 4-9-57, Cl. 340-226.
- Smous, Leo E., 1/2 to H. J. Bowman. Nozzle and sprue bushing for injection molding apparatus. 2,803,854, 8-27-57, Cl. 18-30.
- Smout, Willem C. P. Process and apparatus for the production of mineral and slag wool. 2,810,158, 10-22-57, Cl. 18-2.5.

- Snmucker, Robert E., to Crown Machine and Tool Co. Plastic containers and packaging thereof. 2,805,790, 9-10-57, Cl. 220-97.
- Smull, William P. Multipoint moistener for gummed labels and the like. 2,793,610, 5-28-57, Cl. 118-259.
- Smutz, Walter D., to E. I. du Pont de Nemours and Co. Process for aromatic isocyanate manufacture. 2,795,597, 6-11-57, Cl. 260-453.
- Smyth, John R., to The Electric Storage Battery Co. Electrolyte level control. 2,809,227, 10-8-57, Cl. 136-177.
- Smyth Mfg. Co., The: *See*—
Schramm, Carl. 2,785,812.
Schramm, Carl. 2,791,421.
Schramm, Carl. 2,799,029.
Schramm, Carl. 2,800,095.
- Smythe, Carl V.: *See*—
Huang, Hsing T., and Smythe. 2,798,839.
- Snape, Leonard W., to The Gillette Co. Apparatus for degreasing strip metal stock. 2,788,540, 4-16-57, Cl. 15-306.
- Snap-On Tools Corp.: *See*—
Knudsen, Raymond G. 2,776,470.
Knudsen, Raymond G., and Arnold. 2,817,151.
Larson, Kenneth R., and Walraven. 2,792,734.
Preslan, Floyd W. 2,814,221.
Walraven, George M., and Adams. 2,792,733.
- Snapp, Edward A., Jr., Supporting and adjusting means for parallel bars. 2,808,873, 10-8-57, Cl. 155-22.
- Snare, Frederick, Corp.: *See*—
Stubbs, Henry F. 2,817,212.
- Snawder, James F., and G. S. Severson. Child immobilizer for X-ray procedures. 2,790,083, 4-23-57, Cl. 250-50.
- Sneddon, George, Jr.: *See*—
Bodie, Chester A., and Sneddon. 2,798,297.
- Sneddon, George, Jr., to United States Steel Corp. Apparatus for cleaning seam edges for welding. 2,782,451, 2-26-57, Cl. 15-304.
- Snedeker, Marion L.: *See*—
Lannan, Patrick E., and Snedeker. 2,804,544.
- Snell, Arthur H.: *See*—
Levinger, Joseph S., Sampson, Snell, and Wilkinson. 2,781,309.
- Snell, Arthur H., to the United States of America as represented by the United States Atomic Energy Commission. Fast neutron reactor. 2,815,319, 12-3-57, Cl. 204-154.2.
- Snell, Francis A., to the United States of America as represented by the Secretary of the Air Force. Variable displacement pump. 2,792,687, 5-21-57, Cl. 60-54.6.
- Snell, Francis A., to Bryant Chucking Grinder Co. Magnetic chuck. 2,812,185, 11-5-57, Cl. 279-1.
- Snell, James H., Jr., to General Electric Co. Spark gap device. 2,805,355, 9-3-57, Cl. 313-308.
- Snell, Maurice S., to Dowty Equipment Ltd. Electrically operated indicating instruments. 2,779,016, 1-22-57, Cl. 340-378.
- Snelling, Leonard C. Bottling machines. 2,813,553, 11-19-57, Cl. 141-48.
- Sniadanko, Julian W. Newspaper holder. 2,807,266, 9-24-57, Cl. 129-36.
- Snider, Joseph W. Sign holder for automobiles. 2,780,880, 2-12-57, Cl. 40-129.
- Snodderly, Gerald H.: *See*—
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,817,530.
- Snoddy, Leland B.: *See*—
Mann, Alfred K., Ney, and Snoddy. 2,781,743.
- Snodgrass, George E., Boat propelling pole. 2,787,795, 4-9-57, Cl. 9-24.
- Snodgrass, Reuben P., to Sperry Rand Corp. Safety device for instrument approach systems. 2,796,604, 6-18-57, Cl. 343-108.
- Snodgrass, Reuben P., to Sperry Rand Corp. Constant lift flight path controller. 2,816,724, 12-17-57, Cl. 244-77.
- Snook, Walter B., to H. G. Hardy. Bottle suspension means. 2,795,454, 6-11-57, Cl. 294-31.2.
- Snorek, Stanley J., to Western Electric Co., Inc. Device for slotting tubular parts. 2,783,840, 3-5-57, Cl. 164-46.
- Snover, Melvin W.: *See*—
Williamson, Donald G., Snover, and H. A. and R. H. Andresen. 2,787,242.
- Snow, Adolph I.: *See*—
Teter, John W., and Snow. 2,781,295.
- Snow, Donald L.: *See*—
Varian, Sigurd F., and Snow. 2,789,250.
- Snow, Edward: *See*—
Bashlow, Archie, and Snow. 2,794,353.
- Snow, Eugene A. Gauge for cut-off saw tables and the like. 2,779,360, 1-29-57, Cl. 143-174.
- Snow, F. H., Canning Co., Inc., The: *See*—
Snow, Harold F. 2,808,612.
Snow, Harold F. 2,808,615.
- Snow, Floyd E., and J. O. York, to Coast Pro-Seal Mfg. Co. Applicator and mixer for viscous materials. 2,814,827, 12-3-57, Cl. 18-2.
- Snow, Frederick O., Jr., to McKiernan-Terry Corp. Continuous rope unloading system. 2,776,758, 1-8-57, Cl. 212-81.
- Snow, Frederick O., Jr., to McKiernan-Terry Corp. Unloading tower. 2,792,128, 5-14-57, Cl. 212-81.
- Snow, George E., and A. T. McCord, to The New Jersey Zinc Co. Production of metallic titanium. 2,780,593, 2-5-57, Cl. 204-64.
- Snow, Gerald A., to Whitin Machine Works. Transfer mechanism operable between successive bobbin conveyors. 2,794,532, 6-4-57, Cl. 198-21.
- Snow, Harold F., to The F. H. Snow Canning Co., Inc. Apparatus for use in washing clam meats. 2,808,612, 10-8-57, Cl. 17-6.
- Snow, Harold F., to The F. H. Snow Canning Co., Inc. Method of washing clam meats. 2,808,615, 10-8-57, Cl. 17-45.
- Snow, Harry V.: *See*—
Murphy, William J., Snow, and Zich. 2,786,405.
- Snow, Henry J.: *See*—
Slayter, Games, Snow, and Philipps. 2,785,728.
- Snow, John E. Friction energy absorber. 2,814,365, 11-26-57, Cl. 188-151.
- Snow, John E., to Heyden Newport Chemical Corp. Preparation of pentaerythritol and thermal reduction of formaldehyde content. 2,818,442, 12-31-57, Cl. 260-635.
- Snow, Kenneth T.: *See*—
Olson, Raymond G. 2,794,545.
- Snow, Raymond M. Blower guard. 2,800,369, 7-23-57, Cl. 302-23.
- Snow, Thomas W.: *See*—
Severy, Lawrence A., and Snow. 2,807,036.
- Snyder, Burton K.: *See*—
Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,803,932.
- Snyder, Clifford H., to The Colmol Co. Boring type mining head' having eccentric wedge. 2,776,123, 1-1-57, Cl. 262-7.
- Snyder, Donald J.: *See*—
Jett, John H., and Snyder. 2,787,806.
- Snyder, Edward C., to Corn Products Refining Co. Process for destarching wet milling fractions. 2,776,228, 1-1-57, Cl. 127-38.
- Snyder, Ellery P., to Aviation Engineering Division, Avien-Knickerbocker, Inc. Torsion oscillator mechanical switch. 2,816,975, 12-17-57, Cl. 200-92.
- Snyder, Emerson R.: *See*—
Prete, Ernest, Jr., and Snyder. 2,816,339.
- Snyder, Eugene L., to The Hoover Co. Fluid blenders. 2,800,310, 7-23-57, Cl. 259-108.
- Snyder, Francis H., to Dendrol, Inc. Synthetic resins derived from hydroxymethylfurfural and phenols. 2,776,948, 1-8-57, Cl. 260-54.
- Snyder, Francis H., to Dendrol, Inc. Synthetic resins derived from hydroxymethylfurfural and para-toluene sulfonamid. 2,804,445, 8-27-57, Cl. 260-72.
- Snyder, George H. Seed separating machines. 2,788,897, 4-16-57, Cl. 209-112.
- Snyder, George L.: *See*—
Funk, William H., Snyder, and White. 2,797,899.
- Snyder, Gerson, to Snyder Mfg. Co. Replaceable antenna staff. 2,808,278, 10-1-57, Cl. 287-20.
- Snyder, Harold R., and J. A. MacDonald, to Merck & Co., Inc. Process of producing N-acyl-tryptophan. 2,810,727, 10-22-57, Cl. 260-319.
- Snyder, Howard C., and S. W. Pollock, to Dexco, Inc. Reversing switch. 2,804,527, 8-27-57, Cl. 200-153.
- Snyder, Howard E., to Boeing Airplane Co. Methods of manufacturing fingered joint plates and tube skin joints therewith. 2,807,875, 10-1-57, Cl. 29-423.
- Snyder, Jack A., to E. I. du Pont de Nemours and Co. Carbamyl pseudourea herbicidal composition and a method for killing weeds therewith. 2,780,535, 2-5-57, Cl. 71-2.6.
- Snyder, Jacob R. Rehabilitation of enlarged spike holes in rail fastenings. 2,777,641, 1-15-57, Cl. 238-366.
- Snyder, James E.: *See*—
Pike, Charles O., and Snyder. 2,790,285.
- Snyder, James E., to The Goodyear Tire & Rubber Co. Secondary closures. 2,790,286, 4-30-57, Cl. 53-41.
- Snyder, James E., R. J. Swartz, and I. Collins, to The Goodyear Tire & Rubber Co. Container for oil and the like. 2,781,900, 2-19-57, Cl. 206-46.
- Snyder, James S. Retainer post assembly for paper grain door for box cars. 2,792,882, 5-21-57, Cl. 160-368.
- Snyder, John A.: *See*—
Finlay, Walter L., Clark, and Snyder. 2,787,541.
- Snyder, Joseph A. Gable runner. 2,811,778, 11-5-57, Cl. 33-85.
- Snyder, Lew C. Photographic printing apparatus. 2,791,162, 5-7-57, Cl. 95-4.5.
- Snyder, Mahlon C. Bleacher seating structure. 2,802,242, 8-13-57, Cl. 20-1.126.
- Snyder Mfg. Co.: *See*—
Snyder, Gerson. 2,808,278.
- Snyder, Ralph H., to General Electric Co. Component parts placement. 2,809,373, 10-15-57, Cl. 1-2.
- Snyder, Richard C. Animated caricature. 2,795,896, 6-18-57, Cl. 46-154.
- Snyder, Robert F.: *See*—
Webster, Carl M., and Snyder. 2,782,030.
- Snyder, Robert F., to The Goodyear Tire & Rubber Co. Width measuring device. 2,810,316, 10-22-57, Cl. 88-14.
- Snyder, Robert H.: *See*—
Newby, Thomas H., Snyder, and Hageman. 2,793,231.
- Snyder, Robert H., to United States Rubber Co. Thermoplastic composition comprising vinyl chloride polymer and diolefin-dialkyl fumarate copolymer. 2,779,748, 1-29-57, Cl. 260-45.5.
- Snyder, Robert H., to United States Rubber Co. N-carbamylimides. 2,788,349, 4-9-57, Cl. 260-326.3.

- Snyder, Robert P. Football helmet face guard. 2,785,405, 3-19-57, Cl. 2—9.
- Snyder, Verne D., to Sylvania Electric Products Inc. Black grid wire coating, and a method and device for producing it. 2,811,472, 10-29-57, Cl. 148—63.
- Snyder, Wesley J., M. Roth, J. Dillingham, and K. S. Jensen, to Preway, Inc. Space heater. 2,808,823, 10-8-57, Cl. 126—93.
- Snyder, William T.: *See—*
Mihalakis, Agis I. 2,804,801.
- Soave, John G., to Waldes Kohinoor, Inc. Slide fastener manufacture. 2,796,649, 6-25-57, Cl. 24—205.16.
- Soave, John G., to Waldes-Kohinoor, Inc. Slide fasteners. 2,804,669, 9-3-57, Cl. 24—205.16.
- Sobek, Alfred S., to Loftus Engineering Corp. Liquid-jet descaler for forging blanks. 2,790,230, 4-30-57, Cl. 29—81.
- Sobel, Albert B. Aqueous dispersions of fat soluble vitamins. 2,816,855, 12-17-57, Cl. 167—81.
- Sobel, Henry I.: *See—*
Rothgart, Albert, and Sobel. 2,782,686.
- Soberman (Societe de Brevets d'Etudes et de Recherches pour le Magnesium): *See—*
Camescasse, Pierre L. 2,805,935.
Camescasse, Pierre, and Petit. 2,781,189.
- Sobin, Ben A., A. R. English, T. M. Lees, and J. B. Routien, to Chas. Pfizer & Co., Inc. Process of producing antibiotic P. A. 114. 2,787,580, 4-2-57, Cl. 195—80.
- Sobisch, Johannes, and A. Krüger, to Anker-Werke A. G. Print device shifting means for effecting interspersed printing. 2,787,953, 4-9-57, Cl. 101—93.
- Sobol, Charles J., to Croname, Inc. Decorating anodized aluminum. 2,778,790, 1-22-57, Cl. 204—58.
- Sobota, John T., to Fort Howard Paper Co. Art of testing softness of paper products. 2,786,352, 3-26-57, Cl. 73—159.
- Sobotka, Harry, and J. D. Chanley, to Mount Sinai Hospital Research Foundation, Inc. Ortho-carboxy-substituted aromatic phosphates and method of preparing same. 2,810,741, 10-22-57, Cl. 260—461.
- Soc. Coll. Adriano Gardella & F.lli.: *See—*
Mulatti, Ivano, and Cremonini. 2,801,649.
- Soc. R. L. Elchim (Selchim): *See—*
De Götzen, Giuseppe. 2,809,390.
- Socapex-Ponsot: *See—*
Bonnaffous, Maurice. 2,790,038.
- Socac, Edmund M. Insect repellent. 2,792,328, 5-14-57, Cl. 167—24.
- Societa Applicazioni Gomma Antivibranti S. A. G. A. Societa per Azioni: *See—*
Boschi, Antonio. 2,800,357.
Boschi, Antonio. 2,818,249.
Via, Carlo. 2,781,990.
- Società Farmaceutici Italia: *See—*
Sollazzo, Renato, and Vercellone. 2,811,563.
- Società Generale per la Fosfatazione S. p. A.: *See—*
De Pretto, Erminio. 2,787,565.
- Società Italiana Prodotti Schering: *See—*
Galimberti, Paolo, and Gerosa. 2,813,105.
- Societa Nazionale d'Etude et de Construction de Moteurs d'Aviation: *See—*
Meulien, Henri L. P., Bertin, and Kadosch. 2,807,137.
- Società per Azioni Fabbriche Fiammiferi ed Affini: *See—*
Molla, Pietro. 2,814,332.
- Societe a responsabilitè limitee Etablissements Elwor: *See—*
Charbonnier, Roger, and Decalon. 2,812,171.
- Société à responsabilitè limitee: "Etablissements Giroud Frères, les Successeurs de Hugues Giroud & Cie: *See—*
Jacquet, Camille. 2,792,051.
- Societe a Responsabilitè Limitee dite: Gambia & Cie: *See—*
Chauvel, Raymond G. 2,804,359.
- Societe a Responsabilitè Limitee dite: Gambin & Co.: *See—*
Chauvel, Raymond G. 2,787,144.
- Societe a Responsabilitè Limitee dite Laboratories R. Der-
veaux: *See—*
Crovella, Christian C. 2,816,158.
- Societe a Responsabilitè Limitee dite: Qualitex, Dunod & Cie: *See—*
Martin, Albert. 2,792,109.
- Societe a responsabilitè limitee Gevarm: *See—*
Jourdat, Marc. 2,785,605.
- Societe a responsabilitè limitee Recherches Etudes Produc-
tion R. E. P.: *See—*
Lucien, Rene. 2,814,366.
- Societe Alsacienne de Constructions Mecaniques: *See—*
Pages, André P. 2,786,146.
Ville, Jean A., and Blondé. 2,803,702.
- Societe Anonyme Adolphe Saurer: *See—*
Brunner, Niklaus. 2,778,383.
Portmann, August. 2,787,987.
Rzepecki, Josef. 2,798,466.
- Societe Anonyme Andre Citroen: *See—*
Brueder, Antoine. 2,782,679.
Brueder, Antoine. 2,787,474.
Brueder, Antoine. 2,806,998.
Brueder, Antoine. 2,807,457.
Brueder, Antoine. 2,815,961.
- Societe Anonyme: Ateliers de Construction Lavalette: *See—*
Schmitt, Désiré. 2,793,514.
- Societe Anonyme Belge de Mecanique et d'Armement: *See—*
Brandt, Edgar W. 2,778,137.
Brandt, Edgar W. 2,787,958.
- Societe Anonyme de Machines Electrostatiques: *See—*
Felici, Noel, and Point. 2,818,513.
Felici, Noel, Point, and Morel. 2,797,345.
Morel, Roger. 2,785,320.
Morel, Roger. 2,799,002.
- Societe Anonyme de Telecommunications: *See—*
Parcé, Leon J. 2,792,442.
- Société Anonyme des Anciens Etablissements Charles
Berthiez: *See—*
Berthiez, Gilbert. 2,802,377.
Gilbert Berthiez, Frederick C. 2,811,860.
- Societe Anonyme des Anciens Etablissements Panhard &
Levassor: *See—*
Panhard, Paul. 2,784,609.
- Societe Anonyme des Etablissements Neu: *See—*
Sallou, Jean. 2,814,978.
- Societe Anonyme des Manufactures des Glaces et Produits
Chimiques de Saint-Gobain, Chauny & Cirey: *See—*
Arbet, Pierre. 2,780,891.
Borel, Edouard V. 2,796,592.
Cardot, Jean, and Le Corre. 2,790,994.
Cardot, Jean, and Le Corre. 2,792,591.
Courtier, Armand J. 2,816,077.
Kantzer, Michel. 2,801,183.
Kirchheim, Jean J. 2,795,824.
Lambert, Roger E. 2,808,446.
Lambert, Roger E., and Dubesset. 2,817,928.
Lamesch, Armand. 2,807,479.
Pappens, René, and Schrader. 2,798,336.
Peyches, Ivan. 2,787,100.
Richard, Antoine P. 2,776,273.
Touvy, Robert. 2,788,619.
Viard, Marcel J. 2,798,877.
- Societe Anonyme des Usines Chausson: *See—*
Chausson, André. 2,786,340.
Chausson, Gaston. 2,775,874.
- Societe Anonyme dite: Compagnie Electro Mecanique: *See—*
Herbrecht, Rene. 2,814,096.
Polard, Jean, and Herbrecht. 2,815,564.
- Societe Anonyme Dite: Comptoir Industriel d'Etrirage et
Profilage de Metaux: *See—*
Sejournet, Jacques, and Buffet. 2,810,478.
- Societe Anonyme dite: Constructions Industrielles de Preci-
sion: *See—*
Total, Henri. 2,809,009.
- Societe Anonyme dite: Cri-Dan: *See—*
Renoux, Pierre E. 2,778,037.
Renoux, Pierre E. 2,797,601.
Renoux, Pierre E. 2,803,226.
- Société Anonyme dite: Fromageries Bel: *See—*
Vrignaud, Yves. 2,794,778.
- Société Anonyme dite: Societe d'Electro-Chimie, d'Electro
Metallurgie et des Acieries Electriques d'Ugine: *See—*
Tombs, Nigel C. 2,783,207.
- Societe Anonyme dite: Societe des Brevets Logabax: *See—*
Campos, Francisco. 2,777,560.
- Societe Anonyme dite: Societe des Piles Wonder: *See—*
Paillet, Robert. 2,814,661.
- Societe Anonyme Dite: Societe Nouvelle de Construction de
Machines-Outils et d'Outillage Procèdes C. W. B.: *See—*
Berthiez, Charles W. 2,793,570.
- Societe Anonyme dite: Stenotype Grandjean: *See—*
Segui, Jean. 2,776,738.
Segui, Jean. 2,787,357.
Segui, Jean. 2,805,829.
- Societe Anonyme H. Ernault-Batignolles: *See—*
Le Lan, Armand M. 2,801,617.
- Societe Anonyme "Normacem": *See—*
Loutrel, Maurice. 2,817,780.
- Societe Anonyme pour les Applications de l'Electricite et des
Gaz Rares Etablissements Claude-Paz & Silva: *See—*
Gomonet, Edouard. 2,781,471.
Lemaigre-Voreaux, Pierre. 2,794,932.
Rasemont, Pierre. 2,798,828.
- Société Anonyme pour l'Industrie de l'Aluminium: *See—*
De la Breteque, Pierre. 2,793,179.
De la Breteque, Pierre. 2,798,845.
- Societe Anonyme Preparation Industrielle des Combustibles:
See—
Kling, Maurice. 2,812,591.
- Societe Belge de l'Azote et des Produits Chimiques du Marly:
See—
Braconier, Frederic F. A., and Godart. 2,779,804.
- Societe Chimique de la Grande Paroisse Azote et Produits
Chimiques: *See—*
Carton, Pierre, and Gosselin. 2,801,159.
Housset, Jean R., and Jean. 2,806,003.
- Societe d'Appareils de Controle et d'Equiptement des Moteurs
S. A. C. E. M.: *See—*
Mennesson, Bernard. 2,794,510.
Mennesson, Bernard. 2,817,777.
Mennesson, Bernard B. 2,812,458.
- Société d'Application Technique d'Emballages Modernes
(S. A. T. E. M.): *See—*
Patin, Claude. 2,803,933.
- Societe d'Applications Generales d'Electricite & de Mecani-
que: *See—*
Jacob, Raymond, and Masson. 2,811,986.
Rabeux, Jean, and Jacob. 2,813,547.
Thibaut, Moïse, and Berquier. 2,792,027.

- Societe de la Viscose Suisse : *See—*
 Studer, Martin. 2,796,319.
 Studer, Martin. 2,805,119.
- Societe de l'Electronique Francaise : *See—*
 Blond, Joseph E. M., and Nasicca. 2,799,759.
- Societe de l'Usine de la Marque : *See—*
 Francois, Marcel. 2,793,600.
- Societe de Personnesa responsabilitie limitee : Cothara : *See—*
 Thuillier, Jean. 2,785,201.
- Societe de Produits Chimiques des Terres Rares : *See—*
 De Rohden, Charles, and Peltier. 2,783,125.
- Societe de Prospection Electrique Proceses Schlumberger : *See—*
 Schneersohn, Boris. 2,799,474.
 Schneersohn, Boris. 2,805,041.
 Schneersohn, Boris, and Sirven. 2,809,807.
- Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine : *See—*
 Graff, Willy, and Boulitrop. 2,797,192.
 Guérin, Jean. 2,786,816.
 Morize, Pierre. 2,783,991.
 Perrin, Rene, and Lamberton. 2,794,730.
- Societe d'Electronique et d'Automatisme : *See—*
 Gloess, Paul F. M. 2,790,599.
 Raymond, Francois H. 2,799,746.
 Raymond, Francois H., and Dussine. 2,808,205.
 Raymond, Francois H., and Sokoloff. 2,805,823.
- Societe d'Equipements Industriels et Laitiers : *See—*
 Nanz, Ernst. 2,791,834.
- Societe des Accumulateurs Fixes et de Traction : *See—*
 Salauze, Jean. 2,794,904.
- Societe des Accumulateurs Fixes et de Traction (Societe Anonyme) : *See—*
 Lapuyade, Robert H. 2,802,980.
- Societe des Acieries de Longwy (Societe Anonyme) : *See—*
 Burstein, Eugene M. 2,782,147.
- Societe des Blancs de Zinc de la Mediterranee, Eugene Chaubary, Pierre Gindre & Cie : *See—*
 Gregoire, Ferdinand A. A. 2,814,557.
- Societe des Brevets Wagner : *See—*
 Gerentes, Jean. 2,793,305.
 Gerentes, Jean. 2,807,769.
- Societe des Forges et Ateliers du Creusot : *See—*
 Corbiere, Robert L. 2,783,392.
 Fieux, Jean. 2,783,004.
- Societe des Hauts-Fourneaux et Forges d'Allevard : *See—*
 Saives, Leon. 2,791,014.
 Saives, Leon. 2,795,827.
 Saives, Leon. 2,804,666.
- Societe des Laboratories Laboz : *See—*
 Dechamps, Georges J. L., and Binon. 2,812,351.
- Societe des Produits Azotes : *See—*
 Vialaron, André C. 2,778,828.
- Societe des Usines Chimiques Rhone-Poulenc : *See—*
 Fluchaire, Maurice L. A., and Phelisse. 2,777,825.
 Gailliot, Paul, and Gaudechon. 2,809,968.
 Gailliot, Paul, and Robert. 2,811,520.
 Jacob, Robert M., and Robert. 2,785,160.
 Jacob, Robert M., and Liakhoff. 2,792,401.
 Jacob, Robert M., Robert, and Liakhoff. 2,816,893.
 Metivier, Jean. 2,778,767.
 Metivier, Jean. 2,793,284.
 Metivier, Jean. 2,803,580.
 Metivier, Jean. 2,811,476.
 Pacoud, Andre, and Roland. 2,811,552.
 Poizat, Louis, and Ortolli. 2,811,530.
 Roland, Pierre. 2,806,894.
 Sannie, Charles, and Panouse. 2,811,558.
 Serey, Roger H. B., and Peyrot. 2,807,554.
- Society d'Etudes Chimiques pour l'Industrie et l'Agriculture : *See—*
 Hulot, Georges, and Birman. 2,782,093.
- Societe d'Etude de sa Propulsion par Reaction : *See—*
 Traverse, Georges. 2,775,863.
- Societe d'Etude et d'Exploitation Chimie et Mecanique E. C. E. M. (Societe a Responsabilite Limitee) : *See—*
 Pouzoulet, André A. E. 2,813,562.
- Societe d'Etudes et de Brevets, S. A. : *See—*
 Bergonzo, Giovanni. 2,796,298.
- Societe d'Etudes et de Constructions Aero-Navales : *See—*
 Mercier, Pierre. 2,805,853.
- Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A. : *See—*
 Horgen, Helge. 2,783,750.
 Huber, Robert. 2,779,156.
 Huber, Robert. 2,795,927.
- Societe d'Etudes Ferroviaires : *See—*
 Glrod-Eymery, Henri. 2,815,201.
- Societe d'Exploitation des Plastiques : *See—*
 Thiebault, Bernard, and Gohin. 2,787,264.
- Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M. : *See—*
 Lucien, René. 2,803,312.
 Lucien, René, and Tetart. 2,801,166.
- Societe dite : Appareils & Evaporateurs Kestner : *See—*
 Duval, Jean J. E. 2,807,520.
- Societe dite : Societe Civile d'Etudes pour Materiel de Fonderie : *See—*
 Fouron, Pierre, and Bourret. 2,808,628.
- Societe d'Optique et de Mecanique de Haute Precision : *See—*
 Baboz, Jean E. 2,803,992.
 Raymond, Lucien. 2,778,272.
- Societe Du Carburateur Zenith : *See—*
 Demtchenko, Basile. 2,803,233.
- Societe du Surbouchage, "Astra" : *See—*
 Chelle, Paul L. 2,785,520.
- Societe Financiere d'Expansion Commerciale et Industrielle S. A. "SFINDIX" : *See—*
 Schnellmann, Ferdinand. 2,791,971.
- Societe Francaise de Maroquinerie Sans Couture "Le Tanneur" & "Tanneries du Bugey" : *See—*
 Weisz, Thibaud. 2,800,156.
- Societe Francaise Radio-Electrique : *See—*
 Vasseur, Jean P. 2,807,783.
- Societe Generale de Mecanique et de Metallurgie : *See—*
 Merel, Andre. 2,792,694.
- Societe Generale d'Electronique, Societe Anonyme : *See—*
 Auphan, Michel. 2,815,462.
- Societe Generale Metallurgique de Hoboken : *See—*
 De Merre, Marcel. 2,803,537.
 De Merre, Marcel. 2,818,377.
- Societe Genevoise d'Instruments de Physique : *See—*
 Mottu, Andre. 2,812,671.
- Societe Industrielle de Liaisons Electriques : *See—*
 Noirclerc, Andre. 2,801,400.
- Societe Industrielle de Produits Africains : *See—*
 Bloch, Jeanne C. L. 2,780,549.
- Societe : Maglum : *See—*
 Courtot, René C. 2,804,331.
- Societe Mediterraneeenne, Miniere, Metallurgique et Commerciale : *See—*
 Badin, Ferdinand E. 2,813,606.
- Societe Metrostatie S. A. : *See—*
 Tiberghien, Etienne. 2,797,038.
- Societe Moderne d'Appareils Menagers Conord : *See—*
 Conord, André. 2,779,445.
- Societe Nationale de Constructions Aeronautiques du Sud-Est : *See—*
 Hereil, Georges J. B. V., and Jakimiuk. 2,779,558.
 Jakimiuk, Wsiewolod J., and Hereil. 2,779,557.
- Societe Nationale de Constructions Aeronautiques du Sud-Ouest (S. N. C. A. S. O.) : *See—*
 Fandoux, Paul G. 2,810,534.
 Servanty, Lucien. 2,797,882.
- Societe Nationale d'Etude et de Construction de Moteurs d'Aviation : *See—*
 Kadosch, Marcel, and Bertin. 2,801,515.
 Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,493.
 Kadosch, Marcel, Paris, Bertin, and Marchal. 2,793,494.
 Kadosch, Marcel, Paris, Bertin, and Marchal. 2,812,636.
 Kadosch, Marcel, Paris, Bertin, and Marchal. 2,812,980.
 Le Foll, Jean. 2,795,931.
 Le Foll, Jean, and Bertin. 2,812,635.
 Marchal, Raymond H., Maunoury, Turinetti, Kadosch, and Bertin. 2,797,548.
 Meulien, Henri, and Bertin. 2,805,655.
 Meulien, Henri L. P., Baraut, and Le Foll. 2,814,930.
 Meulien, Henri L. P., Bauger, and Turinetti. 2,797,547.
- Societe Nouvelle de l'Outilage R. B. V. et de la Radio-Industrie (R. B. V. R. I.) : *See—*
 De France, Henri. 2,786,887.
 Mandel, Paul. 2,791,687.
- Societe Nouvelle des Anciens Etablissements F. Wenger : *See—*
 Grosbois, Lucien. 2,794,453.
- Societe Nouvelle des Etablissements Brandt : *See—*
 Jasse, Joseph R. 2,780,964.
 Jasse, Joseph R. 2,793,591.
- Societe Preparation Industrielle des Combustibles : *See—*
 Douy, André. 2,795,331.
 Lagarde, Auguste E. 2,786,573.
 Louis, Jean A., and Kling. 2,794,267.
 Louis, Jean A., and Kling. 2,794,268.
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- Societe "Rhodiacta" : *See—*
 Clevy, Roland, and Robin. 2,778,820.
 Clevy, Roland, and Robin. 2,801,237.
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- Societe Sovel-Vehicules Electriques Industriels : *See—*
 Pellat-Finet, Jean. 2,807,377.
- Societe Stephanoise de Constructions Mecaniques : *See—*
 Yarmak, Julius. 2,800,857.
- Society Brevets Aero-Mecaniques, S. A. : *See—*
 Weiss, Willi. 2,806,428.
- Society "Brevin A. G." : *See—*
 Schneider, Werner. 2,792,756.
- Society For Visual Education, Inc. : *See—*
 Kleerup, Bertel J. 2,788,970.
 Kleerup, Bertel J. 2,812,177.
- Society S.E.R.A.M. : *See—*
 Tercé, Paul J. J. 2,791,962.
- Society "Silto" : *See—*
 Bessiere, Pierre E. 2,818,516.
- Society Sirelec : *See—*
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- Society Thermo-Mecanique, The : *See—*
 Brola, Gabriel. 2,806,516.

- Socke, John E., to American Can Co. Sheet feeding mechanism with rotary feed fingers and magnetic elevating means. 2,801,103, 7-30-57, Cl. 271-51.
- Socke, John E., to American Can Co. Carrying device for containers. 2,809,861, 10-15-57, Cl. 294-87.2.
- Socoyn Mobil Oil Co., Inc.: See—
- Bergstrom, Eric V. 2,783,099.
- Bergstrom, Eric V. 2,808,367.
- Bergstrom, Eric V., and Shea. 2,783,189.
- Bergstrom, Eric V., and Sorf. 2,789,889.
- Bowles, Vernon O., and Evans. 2,776,876.
- Bradley, John S., V., and Giammaria. 2,792,374.
- Bourguet, Jean M. 2,813,756.
- Broding, Robert A., and Allen. 2,794,951.
- Brooks, John W., and Otto. 2,783,205.
- Coonradt, Harry L., and Leaman. 2,786,876.
- Coonradt, Harry L., Leaman, and Rope. 2,795,633.
- Coonradt, Harry L., Plank, and Rope. 2,805,267.
- Dalton, Swanton D. 2,778,717.
- Davis, John B. 2,777,799.
- Dobres, Robert M. 2,807,593.
- Drew, Robert D. 2,795,533.
- Drew, Robert D. 2,799,625.
- Eastwood, Sylvander C. 2,783,133.
- Eastwood, Sylvander C. 2,783,186.
- Eastwood, Sylvander C. 2,791,544.
- Eastwood, Sylvander C. 2,798,029.
- Elliott, Kenneth M. 2,796,390.
- Evans, Louis P. 2,791,543.
- Evans, Louis P. 2,793,915.
- Evans, Louis P. 2,794,771.
- Francis, Alfred W. 2,776,327.
- Garwood, William E., and Hamilton. 2,800,467.
- Giammaria, John J. 2,790,767.
- Groenendyke, Goethe M. 2,791,694.
- Haddad, James H. 2,801,136.
- Hartough, Howard D., and Murray. 2,784,174.
- Jenkins, Rodman. 2,800,183.
- Koch, Robert L. 2,818,117.
- Koft, Emil, Jr., and Schick. 2,779,737.
- Lang, Ernst. 2,811,489.
- Lee, John A., Barclay, and Johnson. 2,776,014.
- McCarty, Malcolm D. 2,794,966.
- Moore, Robert A. 2,793,943.
- Mueller, William F., and Rust. 2,802,172.
- Mullin, William B., and Painter. 2,780,308.
- Murphy, John, Gourney, and Johnson. 2,794,338.
- Nelson, Murrell D., Jr., and Messenger. 2,798,851.
- Otto, Ferdinand P. 2,790,766.
- Otto, Ferdinand P., and Flynn. 2,790,765.
- Overton, William C., Jr. 2,784,796.
- Payne, John W. 2,781,301.
- Payne, John W., and Penick. 2,813,352.
- Payne, John W., and Stapleford. 2,813,755.
- Penick, Joe E., and Stapleford. 2,817,692.
- Phenix, Bruce C., Jr. 2,796,385.
- Reichertz, Paul P., Sandberg, Connally, and Pollard. 2,784,677.
- Richards, David C. 2,781,502.
- Savoca, Joseph I., and Shea. 2,794,772.
- Schwartz, Albert B. 2,796,409.
- Stripling, Allen A. Re. 24,280.
- Swegler, Ernest E. 2,814,598.
- Updegraff, David M. 2,790,763.
- Updegraff, David M. 2,807,570.
- Updegraff, David M. 2,813,821.
- Watkins, Thomas E. 2,816,071.
- Watkins, Thomas E. 2,816,072.
- Weisz, Paul B. 2,786,144.
- Woolley, Richard P. 2,813,425.
- Yost, William J. 2,794,965.
- Zimmerman, Carl W., Reichertz, and Skinner. 2,781,488.
- Soda Dispenser Inc.: See—
- Albert, Irwin J. 2,813,662.
- Soddy, Thomas C., to Chicago Railway Equipment Co. Railway brake beam bottom connection guard. 2,795,300, 6-11-57, Cl. 188-210.
- Soden, Robert M. Means for removing material in liquid form from tanks and the like. 2,798,697, 7-9-57, Cl. 259-8.
- Soderberg, Gustaf A., 33 $\frac{1}{3}$ % to H. M. Ahlberg, and 33 $\frac{1}{3}$ % to S. J. Ullmann. Control for posture chairs. 2,778,409, 1-22-57, Cl. 155-152.
- Soderberg, Gustaf A., 33 $\frac{1}{3}$ % to H. M. Ahlberg and 33 $\frac{1}{3}$ % to S. J. Ullmann. Control for tilting seat and back of posture chairs. 2,784,767, 3-12-57, Cl. 155-77.
- Soderberg, Gustaf A., 33 $\frac{1}{3}$ % to H. M. Ahlberg and 33 $\frac{1}{3}$ % to S. J. Ullmann. Height adjusting support for swivel chair. 2,812,799, 11-12-57, Cl. 155-93.
- Soderberg, Walter E. Mallet for playing xylophones and the like. 2,791,930, 5-14-57, Cl. 84-422.
- Soderhamn Machine Mfg. Co.: See—
- Dillingham, Frederick L. 2,795,320.
- Dillingham, Frederick L. 2,799,382.
- Soderhamns Verkstad AB: See—
- Brundell, Per G., and Jonsson. 2,785,715.
- Brundell, Per G., and Jonsson. 2,788,034.
- Von Sneldern, Arne A. 2,788,033.
- Von Sneldern, Arne A. 2,816,582.
- Soderhamns Verkstad AB Aktiebolag: See—
- Brundell, Per G., and Jonsson. 2,786,499.
- Soderman, George W., to Western Electric Co., Inc. Punch and die. 2,776,008, 1-1-57, Cl. 164-118.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Diaphragm operating mechanism for tire shaping and vulcanizing presses. 2,775,789, 1-1-57, Cl. 18-17.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Press for shaping and vulcanizing pneumatic tires. 2,808,618, 10-8-57, Cl. 18-17.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Press for shaping and vulcanizing pneumatic tires. 2,812,544, 11-12-57, Cl. 18-17.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Press for shaping and vulcanizing pneumatic tires. 2,812,545, 11-12-57, Cl. 18-17.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Apparatus for curing pneumatic tires. 2,812,546, 11-12-57, Cl. 18-17.
- Soderquist, Leslie E., to The McNeil Machine and Engineering Co. Apparatus for the shaping of hollow distensible structure. 2,814,072, 11-26-57, Cl. 18-17.
- Soehngen, Erich E. Micromanometer. 2,817,238, 12-24-57, Cl. 73-401.
- Soete, George W., to United States of America as represented by the Secretary of the Navy. Pressure operated control mechanism. 2,780,111, 2-5-57, Cl. 74-522.
- Soffa, Albert, to Wolf Brothers, Inc. Carry bag. 2,781,162, 2-12-57, Cl. 229-68.
- Soffel, Robert O., to Bell Telephone Laboratories, Inc. Pulse modulation circuit. 2,804,595, 8-27-57, Cl. 332-9.
- Soffer, Jack W., to Development Research, Inc. Dispensing valves. 2,779,516, 1-29-57, Cl. 222-394.
- Soffer, Jack W., to Development Research, Inc. Beaded-stem dispensing valve for gas-pressure containers. 2,788,924, 4-16-57, Cl. 222-394.
- Sogaro, Louis S. Plastic building and construction unit. 2,816,329, 12-17-57, Cl. 20-2.
- Sogn, Allen W., to Allied Chemical & Dye Corp. Method of reducing aromatic nitrogen compounds. 2,794,046, 5-28-57, Cl. 260-569.
- Sogn, Allen W., to Allied Chemical & Dye Corp. Reduction of aromatic nitrogen compounds. 2,794,047, 5-28-57, Cl. 260-569.
- Sogn, Harold J., $\frac{1}{2}$ to O. J. Suendermann. Ball cock valve assembly for flush mechanisms. 2,788,018, 4-9-57, Cl. 137-400.
- Soguel, René. Crown for waterproof watches. 2,779,153, 1-29-57, Cl. 58-90.
- Sohlberg, Carl O., to Telefonaktiebolaget L M Ericsson. Speed governor particularly for dials. 2,779,444, 1-29-57, Cl. 188-184.
- Sohlemann, Just: See—
- Roesch, Adolf, and Sohlemann. 2,810,615.
- Sohlgren, Carl E.: See—
- Fisher, Walter W., and Sohlgren. 2,782,408.
- Sohlman, Nils F., H. Mullen, and H. C. Dohrmann, to Buell Engineering Co., Inc. Electrostatic precipitator and a collecting electrode therefor. 2,812,035, 11-5-57, Cl. 183-7.
- Sohn, Allen O. Label imprinter. 2,791,175, 5-7-57, Cl. 101-228.
- Sohn, Harry, to The Glenn L. Martin Co. Target image projector for gunnery trainers. 2,795,057, 6-11-57, Cl. 35-25.
- Sokol, Herman, and R. P. Popino, to American Cyanamid Co. Process of making dihydrostreptomycin. 2,784,181, 3-5-57, Cl. 260-210.
- Sokol, Leo. Power line insulator clamp. 2,779,815, 1-29-57, Cl. 174-169.
- Sokolik, Edward. Air processing apparatus. 2,777,759, 1-15-57, Cl. 23-284.
- Sokolik, Edward. Device for holding casting rods. 2,801,488, 8-6-57, Cl. 43-17.
- Sokoloff, Boris A.: See—
- Raymond, Francois H., and Sokoloff. 2,805,823.
- Sola Electric Co.: See—
- Hjermstad, Hans U. 2,804,588.
- Hjermstad, Hans U., and Elias. 2,801,349.
- Sola, Joseph G. 2,806,199.
- Sola, Joseph G., to Sola Electric Co. Transformer. 2,806,199, 9-10-57, Cl. 323-60.
- Solanas, Ramon B. Drawing mechanism for textile machines. 2,787,025, 4-2-57, Cl. 19-135.
- Solar Aircraft Co.: See—
- Greene, Joseph R. 2,788,803.
- Karen, H. Peter. 2,780,915.
- Karen, H. Peter. 2,798,166.
- Kress, Ralph. 2,811,827.
- Kress, Ralph. 2,813,396.
- Nelson, Morris E. 2,814,350.
- Prince, Jack H., and Ve Zain. 2,783,793.
- Russell, Leslie W. 2,781,075.
- Stetson, Alvin R., and Pyle. 2,802,762.
- Wosika, Leon R. 2,809,491.
- Wosika, Leon R., Pitt, and Hodgson. 2,801,518.
- Wosika, Leon R., and Zakarian. 2,780,174.
- Yeager, Robert N. 2,806,349.
- Ziebold, Eugene H. 2,797,112.
- Solar Mfg. Corp.: See—
- Das Gupta, Asru K. 2,801,181.
- Solar Cañas, Eduardo de J. Tool and knife sharpener devices. 2,790,282, 4-30-57, Cl. 51-241.

- Solari, Archie J., to Crane Packing Co. Rotary mechanical seal with ceramic seat. 2,785,913, 3-19-57, Cl. 286-11.14.
- Solbakken, Age. Process for producing porous plastics from unsaturated fats and oils and their derivatives. 2,810,654, 10-22-57, Cl. 106-122.
- Solecki, John E.: *See*—
- Dazey, Russell L., and Solecki. 2,813,614.
- Hauschild, William E., and Solecki. 2,794,535.
- Solenberger, Dean M., to Simplex Piston Ring Mfg. Co. Multiple parting-off tool. 2,789,641, 4-23-57, Cl. 164-36.
- Solox S. A.: *See*—
- Mennesson, André L. 2,786,659.
- Solheim, Peder: *See*—
- Onarheim, Thor, and Solheim. 2,817,287.
- "Solida" Textil- und Netzwaren-Manufaktur Ruthard Dietze K. G.: *See*—
- Dietze, Willy. 2,798,500.
- Sollie, Harold L. Apparatus for filling bottles. 2,788,029, 4-9-57, Cl. 141-86.
- Sollis Bonilla, Samuel R. Bookmark. 2,778,331, 1-22-57, Cl. 116-119.
- Solisch, Rudolf: *See*—
- Zöllner, Harry, and Solisch. 2,793,565.
- Sollars, Clyde E., and F. E. Portable dipping apparatus for animals. 2,808,031, 10-1-57, Cl. 119-158.
- Sollars, Francis E.: *See*—
- Sollars, Clyde E., and F. E. 2,808,031.
- Sollars, Paul R.: *See*—
- Cook, Paul E., II, and Sollars. 2,797,896.
- Sollazzo, Renato, and A. Vercellone, to Società Farmaceutici Italia. New method of oxidizing β -chloro-allyl alcohol to β -chloro acrolein. 2,811,563, 10-29-57, Cl. 260-603.
- Sollé, William N. Support for a dental drill. 2,801,469, 8-6-57, Cl. 32-25.
- Sollenberger, Lester D., to Miller Meter's, Inc. Coin handling apparatus. 2,815,166, 12-3-57, Cl. 232-16.
- Solley, Douglas A., Jr., to General Electric Co. Refrigerator cabinet. 2,783,030, 2-26-57, Cl. 257-9.
- Solley, Douglas A., Jr., to General Electric Co. Refrigerator cabinet structure having a variable thermal conductivity insulating wall. 2,801,526, 8-6-57, Cl. 62-6.
- Solley, Douglas A., Jr., and F. A. Schumacher, to General Electric Co. Evaporator circuit. 2,779,170, 1-29-57, Cl. 62-126.
- Solley, Douglas A., Jr., and J. B. Horvay, to General Electric Co. Illuminated refrigerator compartment. 2,795,691, 6-11-57, Cl. 240-4.
- Sollich, Robert, to Baker Perkins Ltd. Heat treatment of flowable masses, more particularly chocolate. 2,808,235, 10-1-57, Cl. 257-4.
- Sollman, Paul B.: *See*—
- Dodson, Raymond M., and Sollman. 2,806,041.
- Dodson, Raymond M., and Sollman. 2,806,042.
- Sollo, Frank W., Jr.: *See*—
- Sanders, Marion D., and Sollo. 2,796,899.
- Solo Cup Co.: *See*—
- Treff, Alfred. 2,795,120.
- Solomon, Benjamin and S. Movable luggage holder for automobile trunk compartments. 2,792,137, 5-14-57, Cl. 214-83.34.
- Solomon, Charles B., to George B. H. Macomber Co. Struts. 2,817,422, 12-24-57, Cl. 189-34.
- Solomon, Earl A., to Electro Refractories & Abrasives Corp. Lined crucibles. 2,817,509, 12-24-57, Cl. 266-43.
- Solomon, Frank: *See*—
- Brill, Otto H., and Solomon. 2,810,776.
- Mendelsohn, Meyer, and Solomon. 2,812,379.
- Solomon, Frank, to Yardney International Corp. Electrode for electric battery. 2,818,462, 12-31-57, Cl. 136-21.
- Solomon, Howard D. Balloon projecting toy device. 2,810,379, 10-22-57, Cl. 124-16.
- Solomon, Julius L.: *See*—
- Sciaky, David, and Solomon. 2,813,199.
- Solomon, Leonard, and M. J. Gordon, to M. J. and S. Z. Gordon, and N. G. Stone. Construction of ladies hosiery. 2,780,084, 2-5-57, Cl. 66-187.
- Solomon, Myer M., to General Electric Co. Tin compound as a curing agent for organo-polysiloxanes. 2,803,614, 8-20-57, Cl. 260-29.4.
- Solomon, Nathan L. Hair curlers. 2,788,788, 4-16-57, Cl. 132-40.
- Solomon, Nathan L. Plastic curlers. 2,800,911, 7-30-57, Cl. 132-33.
- Solomon, Nathan L. Hair holding band. 2,805,673, 9-10-57, Cl. 132-47.
- Solomon, Nathan L. Split cylinder hair curlers. 2,809,646, 10-15-57, Cl. 132-42.
- Solomon, Ralph E. Flue gas sealing means for appliances having a wall vent. 2,808,825, 10-8-57, Cl. 126-307.
- Solomon, Samuel: *See*—
- Solomon, Benjamin and S. Solomon. 2,792,137.
- Solomon, Samuel S. Beverage preparation and serving device. 2,796,823, 6-25-57, Cl. 99-322.
- Solomon, William H., to Oliver Machinery Co. Bread slicing machine. 2,789,606, 4-23-57, Cl. 146-151.
- Solomons, Isalah A., III: *See*—
- Bogert, Virgil V., and Solomons. 2,800,469.
- Solow, Benjamin. Cutting mechanism. 2,803,205, 8-20-57, Cl. 112-118.
- Solow, Benjamin. Cutting mechanism. 2,803,206, 8-20-57, Cl. 112-124.
- Soloway, Samuel B.: *See*—
- Bluestone, Henry, Soloway, Hyman, and Lidov. 2,782,238.
- Soltam Ltd.: *See*—
- Donner, Hans O. 2,788,744.
- Solter, Myron W. Electric trawling system. 2,789,383, 4-23-57, Cl. 43-17.1.
- Soltesz, Pablo: *See*—
- Tannenbaum, Miklos, Kun, Soltesz, and Brück. 2,789,667.
- Soltysik, Zeno. Method of forming a well in light bulbs. 2,816,399, 12-17-57, Cl. 49-78.
- Solvay & Cie.: *See*—
- Deprez, Charles. 2,784,157.
- Deprez, Charles. 2,786,023.
- Pirlot, Georges. 2,798,803.
- Solway, George. Horticultural and agricultural implement. 2,791,462, 5-7-57, Cl. 294-104.
- Solzman, Isel I. Air exhauster. 2,777,382, 1-15-57, Cl. 98-43.
- Soman, Robert, W. E. Parker, and C. L. Loucks, to The Federal Machine & Welder Co. Fluid cylinders. 2,815,254, 12-3-57, Cl. 309-6.
- Somatex, Inc.: *See*—
- Rose, Werner P., and Kuhn. 2,792,587.
- Somers, Brock A.: *See*—
- Hoover, Walter S., and Somers. 2,802,367.
- Somers, Charles H., to The Fyr-Fyter Co. Fire extinguisher cap. 2,796,940, 6-25-57, Cl. 169-30.
- Somers, Melvin L.: *See*—
- Lowman, Henry C. J., Murphy, Musgrave, and Somers. 2,799,739.
- Somers, Paul C., and A. W. Robinson. Darning attachment for sewing machines. 2,790,404, 4-30-57, Cl. 112-121.
- Somers, Richard I., and J. Rotsko, to Parker Rust Proof Co. Method for coating iron or zinc with phosphate composition and aqueous solution therefor. 2,813,812, 11-19-57, Cl. 148-6.15.
- Somers, Richard M.: *See*—
- Dann, Charles W., and Somers. 2,811,364.
- Somers, William P., to General Electric Co. Latching relay. 2,811,601, 10-29-57, Cl. 200-87.
- Somerville, Albert A., to R. T. Vanderbilt Co., Inc. Synergistic zinc mercaptobenzothiazole and zinc dimethyl dithiocarbamate fungicidal composition. 2,776,922, 1-8-57, Cl. 167-33.
- Somerville, Albert A., and W. S. Taylor, to R. T. Vanderbilt Co., Inc. Chloroprene stabilized with a mixture of zinc dimethyl dithiocarbamate and the zinc salt of mercaptobenzothiazole. 2,802,811, 8-13-57, Cl. 260-45.75.
- Somerville, Alexander. Calculating apparatus. 2,781,969, 2-19-57, Cl. 235-61.
- Somerville, Gareth G., to General Electric Co. Magnetic core construction. 2,780,787, 2-5-57, Cl. 336-234.
- Somerville, Gareth G., to General Electric Co. Magnetic core for stationary electrical induction apparatus. 2,812,505, 11-5-57, Cl. 336-5.
- Somerville Ltd.: *See*—
- Barrington, William F., and Skillen. 2,809,776.
- Mires, Joseph E. 2,782,981.
- Somerville, Thomas, III: *See*—
- White, William E., and Clark. 2,781,901.
- Sommer, Leo H., to Dow Corning Corp. Organosilyl substituted furans. 2,803,633, 8-20-57, Cl. 260-347.3.
- Sommer & Maca Glass Machinery Co.: *See*—
- Meter, Raymond. 2,796,707.
- Sommer, Peter J., Jr., to Size Control Co., a division of American Machine & Gauge Co. Lap grinding machine. 2,810,237, 10-22-57, Cl. 51-103.
- Sommeria, Marcel R., to Welding Research, Inc. Welding system. 2,776,399, 1-1-57, Cl. 323-18.
- Sommeria, Marcel R., to Welding Research, Inc. Welding system. 2,776,401, 1-1-57, Cl. 323-58.
- Sommers, Donald J., to Sanders Associates, Inc. Transmission line. 2,812,501, 11-5-57, Cl. 333-95.
- Sommers, Henry S., Jr., and R. D. O'Neal, to the United States of America as represented by the Secretary of the Navy. Method of adjusting radar tracking apparatus. 2,802,207, 8-6-57, Cl. 343-17.7.
- Sommers, Victor L. Sun visor. 2,795,793, 6-18-57, Cl. 2-13.
- Sommers, Warren J. Amusement ride. 2,797,099, 6-25-57, Cl. 272-33.
- Somoza, Julius. Liquid dispensing system. 2,795,355, 6-11-57, Cl. 222-25.
- "Sonapar" Societe de Participation, S. A.: *See*—
- Marcerou, Paul. 2,780,452.
- Sonbergh, Gilbert R., to Electro-Card, Inc. Electronic lock. 2,779,874, 1-29-57, Cl. 250-36.
- Sondheimer, Franz: *See*—
- Djerassi, Carl, Rosenkranz, and Sondheimer. 2,788,352.
- Djerassi, Carl, Sondheimer, Mancera, and Rosenkranz. 2,802,840.
- Djerassi, Carl, Sondheimer, and Rosenkranz. 2,781,365.
- Djerassi, Carl, Sondheimer, and Rosenkranz. 2,790,799.
- Ringold, Howard J., Sondheimer, and Rosenkranz. 2,802,839.
- Ringold, Howard J., Sondheimer, and Rosenkranz. 2,806,030.
- Sondheimer, Franz, and G. Rosenkranz, to Syntex S. A. Cyclopentanophenanthrene derivatives and process for the production thereof. 2,783,253, 2-26-57, Cl. 260-397.4.

- Sondheimer, Franz, and G. Rosenkranz, to Syntex S. A. Oxidation of Δ^4 -3,6-dihydroxy steroids to Δ^4 -3-keto-6-hydroxy steroids. 2,786,855, 3-26-57, Cl. 260—397.4.
- Sonelco : *See*—
James, William J. 2,811,400.
- Sonesson, Georg, to Allmanna Svenska Elektriska Aktiebolaget. Arrangement in parallel operation of transducers. 2,795,754, 6-11-57, Cl. 323—89.
- Song, John, to American Cyanamid Co. Preparation of 2-amino-5-alkyl-1,3,4-thiadiazoles. 2,799,683, 7-16-57, Cl. 260—306.8.
- Sonic Research Corp. : *See*—
Horsley, Caperton B., and Seavey. 2,800,228.
Seavey, Gordon C. 2,813,181.
- Sonich, Charles J. : *See*—
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- Sonnenstine, Edgar H., Jr., and R. H. Granzow, to The National Cash Register Co. Control circuit for sequentially operated device. 2,789,644, 4-23-57, Cl. 164—115.
- Sonnberger, Heinrich, and H. Utz, to C. Zeiss. Automatic rectification instrument for projection plotting of maps. 2,785,599, 3-19-57, Cl. 88—24.
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- Sonneborn, Ralph H., and T. E. Phillips, to Owens-Corning Fiberglass Corp. Bonded fibrous products and method of manufacture. 2,790,741, 4-30-57, Cl. 154—101.
- Sonnenfeld, Richard J., and L. A. Mitchell, to Phillips Petroleum Co. Stable latices of acidic and basic copolymers and process of preparing them. 2,807,597, 9-24-57, Cl. 260—29.7.
- Sonnenfeldt, Richard W., to Radio Corp. of America. Oscillator synchronizing circuit. 2,801,282, 7-30-57, Cl. 178—69.5.
- Sonnenfeldt, Richard W., to Radio Corp. of America. Dynamic electron beam control systems. 2,801,363, 7-30-57, Cl. 315—22.
- Sonnenfeldt, Richard W., to Radio Corp. of America. Oscillator control system. 2,802,899, 8-13-57, Cl. 178—69.5.
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- Sonntag, Bernhard : *See*—
Kurt Ziesche, and Sonntag. 2,812,979.
- Sonntag, Norman O. V., to Colgate-Palmolive Co. Preparation of aliphatic esters. 2,801,256, 7-30-57, Cl. 260—410.9.
- Sonoca Products Co. : *See*—
Martin, John H., and Reid. 2,798,510.
- Sonotone Corp. : *See*—
Carlisle, Richard W. 2,786,899.
Gage, Franklin A. 2,789,160.
Knauer, William F. 2,808,468.
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Sabot, Richard W. 2,798,120.
- Sontag, Joseph. Engine starting means. 2,775,962, 1-1-57, Cl. 123—179.
- Sontheimer, Carl G., to C. G. S. Laboratories, Inc. Signal generating apparatus. 2,811,639, 10-29-57, Cl. 250—36.
- Sontheimer, Carl G., to C. G. S. Laboratories, Inc. Measuring device. 2,817,810, 12-24-57, Cl. 324—57.
- Sontheimer, Carl G., to C. G. S. Laboratories, Inc. Impedance measuring method. 2,817,811, 12-24-57, Cl. 324—57.
- Sookne, Arnold M. : *See*—
Phillips, John K., and Sookne. 2,809,089.
- Soomil, Edward Y., to Westinghouse Electric Corp. Automatic pilot for hollow-jet valves. 2,784,730, 3-12-57, Cl. 137—221.
- Soper, Gilbert V. : *See*—
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- Soper, Glenn T. : *See*—
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- Soper, Vernard. Electric fence controller. 2,806,965, 9-17-57, Cl. 307—132.
- Soprotec Societe de Promotion Technique Luxembourg : *See*—
Bosman, Gustave L. 2,782,326.
- Sorber, Adelbert P., deceased : G. P. Sorber, administrator. Helical variable resistors. 2,813,956, 11-19-57, Cl. 201—56.
- Sorber, Gordon P. : *See*—
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- Sorby, Anthony J., to The Cleveland Electric Motor Co. Fast-acting brake for motors and the like. 2,802,121, 8-6-57, Cl. 210—77.
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- Soreng, Edgar M., to Controls Co. of America. Electrical connection and method of making the same. 2,789,278, 4-16-57, Cl. 339—276.
- Sorensen, Andrew J. : *See*—
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- Sorensen, Andrew J., to Westinghouse Air Brake Co. Checking equipment for electric brake circuit. 2,785,392, 3-12-57, Cl. 340—213.
- Sorensen, Carl P., $\frac{1}{2}$ to J. B. Lindecker. Method of sealing metallic closures for bottles. 2,800,569, 7-23-57, Cl. 219—85.
- Sorensen & Co., Inc. : *See*—
Comins, James S., and Gallagher. 2,801,383.
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Levy, Ernest, Jr. 2,785,370.
Silver, Nathaniel. 2,809,341.
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- Sorensen, Emil, to Maschinenfabrik Augsburg-Nürnberg A. G. Parts for machinery. 2,783,966, 3-5-57, Cl. 253—77.
- Sorensen, Helge B., to Studebaker-Packard Corp. Eccentrically mounted spark plug. 2,803,228, 8-20-57, Cl. 123—32.
- Sorensen, Knud B., and H. R. Lindstrom, to Deere & Co. Finder wheel drive. 2,785,525, 3-19-57, Cl. 56—121.4.
- Sorenson, Aage. Switch lever assemblies. 2,807,691, 9-24-57, Cl. 200—172.
- Sorenson, Perc C. : *See*—
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- Sorenson, William B., and A. G. Laceyfield. Drilling engine auxiliary lubricating system. 2,784,807, 3-12-57, Cl. 184—6.
- Sorez, Eugene J. : *See*—
Guimbretiere, Louis F., and Sorez. 2,784,905.
- Sorf, Edward R. J. : *See*—
Bergstrom, Eric V., and Sorf. 2,789,889.
- Sorflaten, Chester G., and G. R. Whiteside. Wire or line clamp. 2,787,775, 4-2-57, Cl. 339—265.
- Sorg, Harold E., and D. F. Drieschman, to Eitel-McCullough, Inc. Ceramic tetrode. 2,794,933, 6-4-57, Cl. 313—245.
- Sorg, Leonard V. : *See*—
Offutt, Elmer B., and Sorg. 2,800,397.
- Soriente, Alfonso J. : *See*—
Kunz, Robert H., and Soriente. 2,783,891.
- Soroban Engineering, Inc. : *See*—
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- Soroka, Theodore J., to General Motors Corp. Latch mechanism. 2,797,947, 7-2-57, Cl. 292—11.
- Sorrell, Richard A., to Copar, Inc. Reversing drive. 2,780,107, 2-5-57, Cl. 74—203.
- Sortland, Samson : *See*—
Olson, John W., and Sortland. 2,782,138.
- Sosin, Boleslaw M., to Marconi's Wireless Telegraph Co. Ltd. High frequency filter, combiner and like arrangements. 2,779,000, 1-22-57, Cl. 333—6.
- Soski, Walter H., and N. Zadorkin. Revolver safety combined with a holster. 2,803,909, 8-27-57, Cl. 42—66.
- Sorkin, Morris : *See*—
Haskin, Lawrence H., Jr., and Sorkin. 2,812,938.
- Sornberger, George E., to Moore Business Forms, Inc. Forms decollator. 2,805,855, 9-10-57, Cl. 271—2.1.
- Sorrells, John R., to the United States of America as represented by the Secretary of Commerce. Multichannel tape system of storage. 2,817,073, 12-17-57, Cl. 340—174.
- Soss, Arthur. Automatic beef splitting table. 2,789,310, 4-23-57, Cl. 17—23.
- Sotier, Alfred L. : *See*—
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- Soto, Ricardo H. Finger printing apparatus. 2,782,543, 2-26-57, Cl. 41—4.
- Sotzky, Bernard. Electro-mechanical transmission system for sewing machine. 2,803,207, 8-20-57, Cl. 112—158.
- Soubier, Leonard D., and E. C. Shuman, to Owens-Illinois Glass Co. Fire resistant structural units. 2,787,345, 4-2-57, Cl. 189—34.
- Soubrier, Maurice. Method and means for recording chiefly on magnetic carriers. 2,805,862, 9-10-57, Cl. 274—4.
- Soucy, Armand J. Vehicle rainshield with suction cup attaching strip. 2,785,001, 3-12-57, Cl. 296—95.
- Soule Mill : *See*—
Dancewicz, Joseph A. 2,804,120.
- Souler, Benjamin K., to Bristol Laboratories Inc. Repository penicillin products. 2,793,156, 5-21-57, Cl. 167—65.
- Soulet, Armand. Valve seat grinder. 2,809,482, 10-15-57, Cl. 51—241.
- Sound Inc. : *See*—
Tiger, Emil. 2,781,019.
- Soundscriber Corp., The : *See*—
Balmer, Donald F., and Burns. 2,786,101.
De Napoli, Anthony C. Jr. 2,803,466.
Hickey, David H. 2,799,894.
Lyon, William H. 2,803,413.
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Hilbert, Richard G., Soussloff, and Tata. 2,791,086.
- Soussloff, Dimitri G., and B. Andrews, to Universal Winding Co. Vertical redraw. 2,778,579, 1-22-57, Cl. 242—45.
- South Bend Bait Co. : *See*—
Macy, John M. 2,780,883.
Macy, John M., Rodgers, and Gilmore. 2,778,404.
- South Bend Tackle Co., Inc. : *See*—
Macy, John M. 2,787,484.
Pineider, Paul. 2,811,942.
- South Bend Toy Mfg. Co. : *See*—
Schricker, George W. 2,776,165.
- Southeastern Engineering, Inc. : *See*—
Stokes, Richard C., III, and Holliday. 2,799,117.
- Southeastern Tool & Die Co. : *See*—
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- Southerland, Hetsel A. Trailer boat. 2,784,424, 3-12-57, Cl. 9—1.

- Southern Air Conditioning Corp.: *See*—
Wilson, Broadus, and Hincz. 2,778,206.
- Southern Electronics Co.: *See*—
Schwartz, Norman. 2,799,816.
- Southern Saw Service, Inc.: *See*—
Bennett, Clifford B. 2,817,938.
- Southern Spring Bed Co.: *See*—
Rocker, William P., and Schwab. 2,815,800.
- Southern Textile Machinery Co., Inc.: *See*—
De Spain, Thomas H. 2,805,804.
De Spain, Thomas H. 2,818,205.
- Southern United Telephone Cables Ltd.: *See*—
Meadows, Stanley G., Hallas, Coppard, and King. 2,805,391.
- Searles, Edward. 2,818,321.
- Southern Zonolite Co.: *See*—
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- Southern States Equipment Corp.: *See*—
Carmichael, Robert D. 2,799,056.
Carmichael, Robert D., and Burdeshaw. 2,810,799.
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Curtis, Thomas E., and Gussow. 2,803,967.
Hansen, Johannes P., and Waldrop. 2,791,305.
- Southerick, Harold I.: *See*—
Traupmann, Raymond J., and Southerwick. 2,800,376.
- Southerwick, Harold I., to Blackhawk Mfg. Co. Piston packing. 2,814,540, 11-26-57, Cl. 309-34.
- South Texas Truck Equipment Co., Inc.: *See*—
Kimbro, Albert M., and Tunkis. 2,779,602.
- South Wales Switchgear Ltd.: *See*—
Nicholas, Alfred J., and Buttrely. 2,814,002.
- Southwest Welding & Mfg. Co.: *See*—
Edens, Robert S. 2,803,371.
- Southwell, James M., and O. B. Bussell. Pleated drapery. 2,809,694, 10-15-57, Cl. 160-348.
- Southwest Industrial Products, Inc.: *See*—
Entz, Gerhard B. 2,811,950.
- Southwest Products Co.: *See*—
Tracy, Ward D. 2,804,679.
Tracy, Ward D., Mager, and Dasney. 2,813,731.
- Southwestern Graphite Co.: *See*—
Dorenfeld, Adrian C. 2,787,528.
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Erath, Louis W., Madeley, and Hatchl. 2,776,560.
Pittman, Robert R. 2,783,426.
- Southwestern Petroleum Co., Inc.: *See*—
Hooks, Robert M. 2,804,398.
- Southwick, Charles A., Jr., to The B. F. Perkins & Son, Inc. Apparatus for testing coated porous material. 2,799,156, 7-16-57, Cl. 73-38.
- Southwick, Hillman. Beverage can holder. 2,784,578, 3-12-57, Cl. 65-61.
- Southworth, Herbert L., to S. G. Anderson. Door structure for refrigerators. 2,809,402, 10-15-57, Cl. 20-35.
- Southworth, Homer O. Indexable work holder for bending machine. 2,805,698, 9-10-57, Cl. 153-40.
- Souval, Mari, Envelope. 2,794,589, 6-4-57, Cl. 229-68.
- Souza, Seabra & Cia. Ltda.: *See*—
Seabra, Paulo. 2,790,746.
- Sovatzkin, Edward J., and R. G. Bates, to J. Sklar Mfg. Co., Inc. Holders for suture needles. 2,795,225, 6-11-57, Cl. 128-240.
- Sovinsky, Eugene, to the United States of America as represented by the Secretary of the Army. Respirator. 2,775,967, 1-1-57, Cl. 128-141.
- Sowards, Edward W. Automatic compensating roller for belts. 2,783,874, 3-5-57, Cl. 198-202.
- Sowden, Parkin T., Jr., to Phillips Petroleum Co. Production of aromatics. 2,779,806, 1-29-57, Cl. 260-673.
- Sowers, George H.: *See*—
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- Sowerwine, Elbert O., Jr., to Wigton-Abbott Corp. Preparation of nickel oxide desulfurizing catalyst and utilization thereof for desulfurizing. 2,776,244, 1-1-57, Cl. 196-28.
- Sowerwine, Elbert O., Jr., to Wigton-Abbott Corp. Preparation of nickel carbonate catalysts and utilization thereof for desulfurization. 2,776,245, 1-1-57, Cl. 196-28.
- Sowle, Theo J. Face guard. 2,790,175, 4-30-57, Cl. 2-9.
- Sowle, Theo J. Combination hip and body protector. 2,805,418, 9-10-57, Cl. 2-2.
- Sowler, Anthony B., to The General Electric Co Ltd. Opening means. 2,792,145, 5-14-57, Cl. 220-54.
- Söyland, Einar. Combined tying and filler frame for page form of types. 2,815,712, 12-10-57, Cl. 101-404.
- Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Antioxidant for rubber. 2,801,980, 8-6-57, Cl. 260-4.
- Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Polymerized tertiary alkylated allyl phenols and rubber compositions. 2,801,981, 8-6-57, Cl. 260-4.
- Spack, Edward G., to Bell Telephone Laboratories, Inc. Telephone ring-up circuit. 2,802,059, 8-6-57, Cl. 179-84.
- Spades, Joseph F., and A. W. Carlson, to the United States of America as represented by the Secretary of the Air Force. Transistor regenerative pulse amplifier for power applications. 2,806,964, 9-17-57, Cl. 307-88.5.
- Spaenig, Hermann: *See*—
Pasedach, Heinrich, Seefelder, Spaenig, and Weickmann. 2,808,437.
- Spaeth, Irvin J., and R. Bedell, to Chicago Railway Equipment Co. Railway brake gear safety structure. 2,788,869, 4-16-57, Cl. 188-210.
- Spahr, Hans. Apparatus for attaching flexible tie elements to the edge of thin sheets or web structures. 2,781,009, 2-12-57, Cl. 112-169.
- Spahr, Robert H., Jr.: *See*—
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- Spainhour, Carroll D., to Western Electric Co., Inc. Adjustable fixture for positioning and supporting a work piece in an impact delivering machine. 2,779,275, 1-29-57, Cl. 101-407.
- Spake, Robert W., to L. A. Dreyfus Co. Packaged thermoplastics. 2,806,595, 9-17-57, Cl. 206-84.
- Spalding, A. G., & Bros., Inc.: *See*—
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Brandon, Thomas O. 2,784,969.
- Spandöck, Friedrich, and E. Gillitzer, to Siemens & Halske Aktiengesellschaft. Directional microphone system. 2,810,786, 10-22-57, Cl. 179-1.
- Spanel, Lois A., H. A. Owen, and H. J. Barth, to International Latex Corp. Preformed latex brassiere. 2,797,415, 7-2-57, Cl. 2-42.
- Spang, Carl F., and W. E. Lazott, to Needham Mfg. Co., Inc. Hamburg patty making machine. 2,784,448, 3-12-57, Cl. 17-32.
- Spang, Carl F., and C. E. Clarke, to Needham Mfg. Co., Inc. Hamburg patty making machine. 2,795,816, 6-18-57, Cl. 17-32.
- Spang & Co.: *See*—
Spang, Ferdinand J. 2,815,687.
- Spang, Ferdinand J., to Spang & Co. Die blocks for forging a cable tool drill bit. 2,815,687, 12-10-57, Cl. 76-95.
- Spang, William F., to Needham Mfg. Co., Inc. Hamburg patty making machine. 2,810,155, 10-22-57, Cl. 17-32.
- Spang, William F., and W. E. Lazott, to Needham Mfg. Co., Inc. Extruding apparatus. 2,817,873, 12-31-57, Cl. 17-32.
- Spangenberg, Willy, and K. Culemeyer, to Willy Spangenberg & Co. Pesticidal composition. 2,789,060, 4-16-57, Cl. 106-15.
- Spangenberg, Willy, & Co.: *See*—
Culemeyer, Karl. 2,781,386.
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- Spangler, Lester H. Electrical wire lug and terminal crimper. 2,801,560, 8-6-57, Cl. 81-15.
- Spangler, William B., to the United States of America as represented by the Secretary of the Army. Portable structural assembly and interlocking units for constructing the same. 2,806,561, 9-17-57, Cl. 189-34.
- Spanhel, Walter, and J. Y. Crommens. Pressure head assembly having individual pressure elements. 2,815,051, 12-3-57, Cl. 144-289.
- Spanjer, David L., to The Einco Corp. Detachable track assembly. 2,813,760, 11-19-57, Cl. 305-10.
- Spannhake, Ernst W., to LeTourneau-Westinghouse Co. Closed hydraulic system. 2,780,065, 2-5-57, Cl. 60-52.
- Spannuth, Hiram T.: *See*—
Edgar, Albert C., and Spannuth. 2,800,410.
- Spanos, John, to the United States of America as represented by the Secretary of the Navy. Method of masking during semiconductor etching. 2,813,782, 11-19-57, Cl. 41-43.
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- Sparer, Isadore. Pickle slicing apparatus. 2,789,605, 4-23-57, Cl. 146-113.
- Sparkes, Julian G., to P. R. Mallory & Co., Inc. Electrolytic capacitor. 2,798,988, 7-9-57, Cl. 317-230.
- Sparklin, Charles H., to Whirlpool Corp. Vacuum cleaner. 2,806,242, 9-17-57, Cl. 15-351.
- Sparks, George C. Container and separable information tag. 2,792,167, 5-14-57, Cl. 229-40.
- Sparks, Hubert A. Drum movement indicator. 2,776,614, 1-8-57, Cl. 254-150.
- Sparks, James H.: *See*—
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- Sparks, John L., Sr. Filter liner for oil wells or the like. 2,806,537, 9-17-57, Cl. 166-196.
- Sparks, Roby R. Protractor with level and arm. 2,805,480, 9-10-57, Cl. 33-88.
- Sparks, William J., F. P. Baldwin, and R. G. Newberg, to Esso Research and Engineering Co. Packaging tacky butadiene-styrene rubber in film of compatible styrene-isobutylene copolymer. 2,791,326, 5-7-57, Cl. 206-84.
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- Sparling, Arthur J., to Litton Industries, Inc. Magnetic system for microwave components. 2,776,412, 1-1-57, Cl. 333-98.
- Sparr, Albert E., to Talon, Inc. Toggle switch. 2,790,967, 4-30-57, Cl. 200-67.
- Sparrow, Ephraim M.: *See*—
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- Sparrow, Hubert T., to Minneapolis-Honeywell Regulator Co. Apparatus for anticipating the effect of changes in solar radiation. 2,782,996, 2-26-57, Cl. 236-91.
- Sparrow, Hubert T., to Minneapolis-Honeywell Regulator Co. Temperature control apparatus for plural zones. 2,805,026, 9-3-57, Cl. 236-9.

- Sparrow, Perry W. Distance measuring device. 2,777,206, 1-15-57, Cl. 33-141.
- Spartz, Ralph. Reel. 2,817,177, 12-24-57, Cl. 43-18.
- Spase, Charles B., to Lipe-Rollway Corp. Friction clutch. 2,801,722, 8-6-57, Cl. 192-68.
- Spase, Charles B., and R. S. Root, to Lipe-Rollway Corp. Clutch release mechanism. 2,788,876, 4-16-57, Cl. 192-99.
- Späth, Hans, to Agfa Camera-Werk Aktiengesellschaft. Photographic illuminator unit. 2,777,939, 1-15-57, Cl. 240-1.3.
- Spatz, Walter B., to Paper Mate Mfg. Co. Ball point pen. 2,776,646, 1-8-57, Cl. 120-42.03.
- Spaulding, Charles A., Jr. Automatic water softener. 2,800,229, 7-23-57, Cl. 210-142.
- Spaulding, Lucian B.: See—
- Coleman, Lester L., and Spaulding. 2,797,184.
- Spaulding, Robert A.: See—
- Chambers, Clarence G., and Spaulding. 2,791,516.
- Speake, Sumpter M., and W. E. Mazur, to the United States of America as represented by the Secretary of the Army. Device for purging guns. 2,791,940, 5-14-57, Cl. 89-1.
- Speakman Co.: See—
- Fraser, James. 2,786,210.
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- Spear, Robert L., to H. R. Alexander. Apparatus and method for controlling camera keylights. 2,802,144, 8-6-57, Cl. 315-159.
- Spear, Walter A., to NuTone, Inc. Ventilator unit. 2,800,849, 7-30-57, Cl. 98-43.
- Spear, Walter A., to NuTone, Inc. Automatic shutter for ventilators. 2,800,853, 7-30-57, Cl. 98-116.
- Spear, Walter A., and L. H. Sprague, to NuTone, Inc. Knife sharpener. 2,798,345, 7-9-57, Cl. 51-241.
- Spearman, Eugene L., Jr.: See—
- Davie, Robert P., Jr., and Spearman. 2,776,562.
- Spearow, Ralph. Single packer oil production method. 2,785,753, 3-19-57, Cl. 166-42.
- Spearow, Ralph. Water based oil formation production method. 2,811,205, 10-29-57, Cl. 166-10.
- Spears, Douglas E. Prompting device. 2,817,705, 12-24-57, Cl. 179-1.
- Specht, Edward H.: See—
- Neuman, Andrew, Neher, and Specht. 2,778,848.
- Specht, Gordon D.: See—
- Bridger, Grover L., and Specht. 2,799,377.
- Specht, Merle E. Auxiliary cutter attachment for lawn mowers. 2,782,586, 2-26-57, Cl. 56-238.
- Specht, Walter, and W. E. Schultheis, to Ultra-Technik G. m. b. H. Beer brewing process. 2,816,031, 12-10-57, Cl. 99-50.5.
- Special Equipment Co.: See—
- Skog, Henry A. 2,788,818.
- Skog, Henry A. 2,788,818.
- Special Textiles, Inc.: See—
- McMurry, Arthur A. 2,779,035.
- Specialties Development Corp.: See—
- Daley, Horace S., and Wentz. 2,792,324.
- Diquattro, Robert G., and Towle. 2,812,633.
- Fleming, William T. 2,780,433.
- Fleming, William T. 2,790,873.
- Hall, Cyril C. 2,791,932.
- Hebenstreit, Lester V. 2,802,924.
- Grant, Harry C., Jr. 2,781,505.
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- Heigis, Henry E. 2,780,296.
- Helsper, Robert G. 2,790,872.
- MacIntyre, Ronald, and Scott. 2,785,142.
- Mapes, Daniel. 2,776,475.
- Orsini, Anthony, and Kirkup. 2,786,536.
- Parsons, Floyd B. 2,803,310.
- Scott, Raymond E., and Towle. 2,792,568.
- Seid, Bernard, and Sheffer. 2,804,881.
- Stern, George T. 2,777,458.
- Sylvester, Walter G., and Anthony. 2,776,942.
- Thomsen, William A. V. 2,791,123.
- Towle, Robert G. 2,790,863.
- Towle, Robert G., Jones, and Ganther. 2,793,261.
- Towle, Robert G., and Uhl. 2,784,356.
- Warwick, John. 2,801,307.
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- Speck, Rhoads M., to Hercules Powder Co. Method of preparing organic dithiophosphoric acid compounds. 2,815,350, 12-3-57, Cl. 260-327.
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- Abbott, Harold W. 2,810,117.
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- Spence, Thomas C.: *See*—
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- Spero, George B., to The Upjohn Co. Process for preparing corticosterone. 2,802,841, 8-13-57, Cl. 260—397.45.
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- Sperry Corp.-Ford Instrument Co., The: *See*—
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- Spielman, James F., to Reconstruction Finance Corp. Turntable seats. 2,781,821, 2-19-57, Cl. 155-96.
- Spielman, Marvin A.: *See—*
- Geiszler, Adolph O., and Spielman. 2,806,053.
- Spies, William G., $\frac{1}{2}$ to E. Pusinelli. Frankfurter cooking and filling apparatus. 2,782,707, 2-26-57, Cl. 99-355.
- Spieser, Walter: *See—*
- Handschin, Max G., and Spieser. 2,782,255.
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- Spieß, Gustav, to Inventio Aktiengesellschaft. Device on elevators for stopping exactly at floor level. 2,804,943, 9-3-57, Cl. 187-29.
- Spieß, Newton E., Jr.: *See—*
- Henze, Henry L., Spiess, Carnish, and Kennelly. 2,792,028.
- Spiehl, Charles W., H. M. Wright, and A. L. Clark, to Beech Aircraft Corp. High nesting sectional fuel tank. 2,781,935, 2-19-57, Cl. 220-5.
- Spiehl, Rudolf. Resilient chuck. 2,801,858, 8-6-57, Cl. 279-2.
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- Spilling, Heinz E. Piston rod seal. 2,804,050, 8-27-57, Cl. 121-1.
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- Jud, Arthur. 2,795,562.
- Spillmann, Walter. Charge forming device. 2,811,146, 10-29-57, Cl. 123-25.
- Spindel, Motoren und Maschinenfabrik A. G.: *See—*
- Beerli, Karl. 2,777,739.
- Spindler, Marvin B.: *See—*
- Carr, Kelly B., and Spindler. 2,814,471.
- Spinks, Alfred, and E. H. P. Young, to Imperial Chemical Industries Ltd. New quinazoline derivatives. 2,794,018, 5-28-57, Cl. 260-256.4.
- Spinks, Willard A.: *See—*
- Gibson, Colin C., and Spinks. 2,814,391.
- Spinner, Frank C., Jr. Washing apparatus for automobile laundries. 2,807,271, 9-24-57, Cl. 134-45.
- Spinner, Isidore. Roller perforating device. 2,781,095, 2-12-57, Cl. 164-99.
- Spinsava Corp.: *See—*
- Hewitt, Woodrow W. 2,799,356.
- Spire, Etienne, to L'Air Liquide, Societe Anonyme pour l'Etudes et L'Exploitation des Procèdes Georges Claude. Device for insufflating gas into a mass of molten metal. 2,811,346, 10-29-57, Cl. 266-34.
- Spiri, Willy H., to Abegg & Reinhold Co. Rotary table master bushings. 2,797,895, 7-2-57, Cl. 255-23.
- Spiro, Irving J., and L. E. Marlow, to Borman Engineering, Inc. Telephone illuminator. 2,777,940, 1-15-57, Cl. 240-217.
- Spiro, Peter: *See—*
- Cowle, Walter, Mansfield, Spiro, and Wood. 2,802,779.
- Spiro, Roman: *See—*
- Dalinda, Joseph Z., and Spiro. 2,816,735.
- Spiro, Sam. Shirt collar. 2,801,422, 8-6-57, Cl. 2-138.
- Spirit, Milton, and J. Goldman; said Goldman assor. to said Spirit. Folding outdoor antenna. 2,803,010, 8-13-57, Cl. 343-818.
- Splitter, Clem H., to Curtis Automotive Devices, Inc. Power operated tail gate assembly. 2,787,388, 4-2-57, Cl. 214-75.
- Splitter, Clem H., to Master Vibrator Co. Concrete vibrator. 2,808,238, 10-1-57, Cl. 259-1.
- Spitz, Albert W., to Deruss Machine Products Co., Inc. Mixing valve. 2,794,447, 6-4-57, Cl. 137-604.
- Spitz, Peter H., and D. S. Borey, to Esso Research and Engineering Co. Size reduction apparatus. 2,776,799, 1-8-57, Cl. 241-40.
- Spitz, Peter H., T. A. Retter, and R. E. Whall, to Esso Research and Engineering Co. Quench-elutriator vessel. 2,779,719, 1-29-57, Cl. 202-37.
- Spitz, Raymond F. Snap on sectional furniture. 2,793,685, 5-28-57, Cl. 155-196.
- Spitz, Samuel, to Electronic Oil Well Heater Co. Oil well heater. 2,808,110, 10-1-57, Cl. 166-61.
- Spitzer, Penn F., Jr., to American Cyanamid Co. Process for arylamides. 2,816,924, 12-17-57, Cl. 260-560.
- Spitzig, Charles L. Phonograph record file. 2,804,212, 8-27-57, Cl. 211-40.
- Spitzmueller, Kurt H.: *See—*
- Ohlson, John L., and Spitzmueller. 2,791,607.
- Spivack, John D., to Tidewater Oil Co. Turbine lubricating oil compositions. 2,779,739, 1-29-57, Cl. 252-49.8.
- Spivack, John D., W. J. Lennon, and H. Kroll, to Geigy Chemical Corp. Diamidocarboxylic acids and certain salts thereof. 2,781,385, 2-12-57, Cl. 260-404.5.
- Spivack, John D., and H. Kroll, to Geigy Chemical Corp. Rust preventive compositions containing amidodicarboxylic acids. 2,790,778, 4-30-57, Cl. 252-392.
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- Spivey, Billy C.: *See—*
- Lee, Wesley B. 2,780,163.
- Spivey, Lawrence, Jr.: *See—*
- Lee, Wesley B. 2,780,163.
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- Splawn, Virgil B. Loom temple rolls. 2,815,045, 12-3-57, Cl. 139-296.
- Spo, Inc.: *See—*
- Young, Lester C. 2,778,078.
- Spodig, Heinrich, and A. Schirp. Filter. 2,804,162, 8-27-57, Cl. 183-7.
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- Procházka, Zelimir. 2,789,986.
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- Spofa, spojene farmaceuticke zavody: *See—*
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- Spohn, Hubert L. Toy vehicle in the nature of a rocking horse. 2,785,905, 3-19-57, Cl. 280-1192.
- Spokes, Ray E.: *See—*
- Smith, Francis H., and Spokes. 2,781,107.
- Spong, Carl B.: *See—*
- Lambert, Harry L., and Spong. 2,808,144.
- Spooner, Charles H. Exercising device. 2,806,899, 9-17-57, Cl. 272-83.
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- Seville, John R. 2,816,605.
- Spooner, Laurence W., and G. A. Joyner, Jr., to General Electric Co. Method of making asbestos insulating material with improved electrical properties. 2,804,908, 9-3-57, Cl. 154-2.6.
- Spooner, Robert J. Alarm systems. 2,814,795, 11-26-57, Cl. 340-213.
- Sporar, Lorraine: *See—*
- Kaiser, Emil, and Sporar. 2,812,336.
- Sporlan Valve Co., Inc.: *See—*
- Lange, Harold T. 2,786,336.
- Spotz, Donald R., and R. E. Elbel, to Thompson Products, Inc. Turbine supercharger. 2,801,043, 7-30-57, Cl. 230-116.
- Spracklen, John G., to Zenith Radio Corp. Controllable reactive current systems. 2,781,492, 2-12-57, Cl. 332-24.
- Spracklen, John G., to Zenith Radio Corp. Single stage amplifier-detector-amplifier. 2,785,299, 3-12-57, Cl. 250-20.
- Spracklen, John G., to Zenith Radio Corp. Wave-signal translating apparatus. 2,785,300, 3-12-57, Cl. 250-20.
- Spracklen, John G., to Zenith Radio Corp. Television receiver scanning system. 2,811,581, 10-29-57, Cl. 178-7.5.
- Sprague, Basil S., M. N. Carroll, and R. H. Roughsedge, to Celanese Corporation of America. Process of stabilizing thermoplastic knitted fabric containing cellulose ester yarns with superheated steam. 2,777,750, 1-15-57, Cl. 8-131.
- Sprague Devices, Inc.: *See—*
- Nichols, Elton F. 2,777,427.
- Sprague Electric Co.: *See—*
- Allison, William M. 2,785,951.
- Brafman, Harold E. 2,777,976.
- Davis, Howard A. 2,798,990.
- Geroulo, Michael J., and Yil. 2,800,625.
- Kahan, George J. 2,786,925.
- Kodama, George T. 2,777,110.
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- Lamphier, Walter C. 2,806,985.
- Lamphier, Walter C., and Netherwood. 2,808,357.
- Lehovec, Kurt. 2,779,877.
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- May, Harold V. 2,812,381.
- Netherwood, Paul H. 2,785,352.
- Peck, David B. 2,776,235.
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- Robinson, Preston. 2,786,088.
- Robinson, Preston. 2,788,383.
- Robinson, Preston. 2,798,037.
- Robinson, Preston. 2,801,221.
- Robinson, Preston. 2,805,965.
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- Robinson, Preston, and St. Denis. 2,793,334.
- Ross, Sidney D. 2,786,165.
- Ross, Sidney D., and Allison. 2,788,327.
- Ross, Sidney D., and Markarian. 2,799,694.
- Sproull, Reavis C., and Hard. 2,786,398.
- Tierman, Melvin, and Dorst. 2,802,896.
- Whitby, Harvie W. 2,786,172.
- Sprague, Enoch K., and G. Tatoi, to The Patent Button Co. Sealing arrangement for flame photometer. 2,805,598, 9-10-57, Cl. 88-14.

- Sprague, Lindol H. : *See*—
Corbett, Joseph R., and Sprague. 2,798,700.
Spear, Walter A., and Sprague. 2,798,345.
- Sprague Meter Co. : *See*—
Stewart, Charles W. 2,784,590.
Stewart, Charles W. 2,800,977.
- Sprague of Wisconsin, Inc. : *See*—
Ehlers, George M. 2,793,333.
Rubinstein, Harry W. 2,808,544.
- Sprague, Owen F., to the United States of America as represented by the Secretary of the Army. Preparation of zirconium tetrafluoride. 2,789,882, 4-23-57, Cl. 23-88.
- Sprague, Richard C. : *See*—
Bosomworth, George P., Sprague, and King. 2,802,239.
- Sprague, Robert M., to Raytheon Mfg. Co. Relay stations for microwave communication systems. 2,789,211, 4-16-57, Cl. 250-15.
- Sprague, Theodore S. : *See*—
Grossman, Paul R., and Sprague. 2,801,158.
- Sprague, Theodore S., and C. L. Marquez, Jr., to The Babcock & Wilcox Co. Synthesis gas generator. 2,815,007, 12-3-57, Cl. 122-343.
- Sprague, William H. Unloading vehicle. 2,791,339, 5-7-57, Cl. 214-83.
- Sprando, Anthony E., to Iron Fireman Mfg. Co. Hermetically sealed motor. 2,781,463, 2-12-57, Cl. 310-71.
- Sprando, Anthony E., to Iron Fireman Mfg. Co. Motor and end bell therefor. 2,810,084, 10-15-57, Cl. 310-60.
- Sprang, Harold R. Hitching device for trailers or the like. 2,818,276, 12-31-57, Cl. 280-482.
- Spraragen, Louis, to Automatic Locking Devices, Inc. Locking and control means for shafts. 2,787,353, 4-2-57, Cl. 192-8.
- Spra-Rite Distributing Co. : *See*—
Phillips, Willis J. 2,812,977.
- Sprau, William J., to National Gypsum Co. Pulp screening apparatus. 2,796,809, 6-25-57, Cl. 92-34.
- Sprauer, Jerome W. : *See*—
Hinegarner, Wilbie S., and Sprauer. 2,779,807.
- Sprauer, Jerome W., to E. I. du Pont de Nemours and Co. Preparation of platinum metal catalysts. 2,802,794, 8-13-57, Cl. 252-466.
- Sprayberry, Martin V. B., to West Point Mfg. Co. Positive doffing mechanism for automatic winding machines. 2,801,807, 8-6-57, Cl. 242-41.
- Spraying Systems Co. : *See*—
O'Brien, Edward J. 2,815,248.
Wahlin, Fred W. 2,779,478.
- Spreckley, Frank : *See*—
Cran, William B. G., Ireland, Pritchard, and Spreckley. 2,811,350.
- Spreed-Air, Inc. : *See*—
Seltzer, Robert E. 2,778,585.
Seltzer, Robert E. 2,778,540.
- Spreiregen, Jacques H. Head coverings. 2,811,722, 11-5-57, Cl. 2-195.
- Spriestersbach, David R. : *See*—
Smith, Fred, and Priestersbach. 2,813,810.
- Sprigg, Edward A., and R. T. Venner, Jr. Sandblast nozzle assembly. 2,792,671, 5-21-57, Cl. 51-11.
- Spriggs, George E., to British Sugar Corp. Ltd. Packaging machine. 2,810,999, 10-29-57, Cl. 53-188.
- Spriggs, John D., to Nylacore Corp. Bearing liner. 2,815,253, 12-3-57, Cl. 308-238.
- Spriggs, John S. : *See*—
Houtman, Thomas, Jr., Zurawic, and Spriggs. 2,779,721.
- Sprinchorn, Douglas S. Equalizer duct system. 2,801,581, 8-6-57, Cl. 98-33.
- Spring Cover Mfg. Co., Inc. : *See*—
Kriebel, John E., Jr. 2,796,254.
- Spring Machinery Co. : *See*—
Wafel, Charles C. 2,798,547.
- Spring, Theodore L., to Leitner Equipment Co. Salad refrigerator. 2,786,337, 3-26-57, Cl. 62-89.
- Springer, Berthold, to Landis & Gyr, A. G. Alternating current measuring bridge. 2,784,374, 3-5-57, Cl. 324-57.
- Springer, Hans : *See*—
Phaneuf, Edgar A., Springer, and Enochs. 2,818,518.
- Springer, Henry A. Hypodermic needle sharpening devices. 2,805,523, 9-10-57, Cl. 51-102.
- Springer, John. Toothbrush holder. 2,779,560, 1-29-57, Cl. 248-111.
- Springfield Boiler Co. : *See*—
Rehm, Gustav A. 2,796,050.
Rehm, Gustav A. 2,807,243.
- Springs Cotton Mills, The : *See*—
Martin, Furman H. 2,785,423.
- Sprinkel, George H. Scaffold bracket. 2,790,684, 4-30-57, Cl. 304-30.
- Sprinkman, W. M., Corp. : *See*—
O'Meara, James P. 2,808,937.
- Spritz, Frederick : *See*—
Jackson, William K. 2,783,450.
- Sprout, Nolte V., to Automatic Steel Products, Inc. Centrifugal clutch construction. 2,801,724, 8-6-57, Cl. 192-105.
- Sproule, Lorne W., and J. L. Tiedje, to Esso Research and Engineering Co. Rust preventive composition. 2,791,510, 5-7-57, Cl. 106-14.
- Sproull, Reavis C., and H. G. Hard, Jr., to Sprague Electric Co. Apparatus and process for producing an extremely thin paper web. 2,786,398, 3-26-57, Cl. 92-44.
- Sprouse, Clifton. Figured roundabout toy. 2,789,395, 4-23-57, Cl. 46-118.
- Sprouse, Lowell E., to Vernco Corp. Two piece blower wheel. 2,785,850, 3-19-57, Cl. 230-134.
- Sprouse, Verner E., to Vernco Corp. Convex back plate blower wheel. 2,803,398, 8-20-57, Cl. 231-134.
- Sproust, Waldron & Co., Inc. : *See*—
Fisher, Chester D. 2,798,628.
- Sproh, James H., to Westinghouse Electric Corp. Interlocking mechanism. 2,780,685, 2-5-57, Cl. 200-50.
- Sproh, James H., to Westinghouse Electric Corp. Snap action operating mechanism for switches. 2,784,602, 3-12-57, Cl. 74-97.
- Sprohls, Willard R., to The Baker Castor Oil Co. Oxidative alkaline fusion of sulfur-containing organic compounds. 2,782,214, 2-19-57, Cl. 260-413.
- Sprules, Francis J., and H. C. Marks, to Wallace & Tiernan Inc. Polyvinyl ester resin plasticized with an epoxy stearic acid ester. 2,802,800, 8-13-57, Cl. 260-30.4.
- Spugios, Aristos G. : *See*—
Marshall, William P., and Spugios. 2,794,288.
- Spumalit-Anstalt : *See*—
Viel, Otto. 2,813,780.
- Spurlin, Harold M. : *See*—
Bruce, David S., and Spurlin. 2,776,880.
- Spurlin, William V., to Syntron Co. Vibratory bowl feeder with monorail discharge for feeding bifurcated parts. 2,790,534, 4-30-57, Cl. 198-33.
- Spurlin, William V., to Syntron Co. Vibratory feeder bowl having an inwardly sloping track with an overhanging fence. 2,799,383, 7-16-57, Cl. 198-33.
- Spurlin, William V., to Syntron Co. Diesel hammer starting device. 2,804,856, 9-3-57, Cl. 123-7.
- Spurlino, Pascal, R. S. Hull, and M. D. Frost, to The National Cash Register Co. Accounting machine with totalizer controlled, differentially positionable, bookkeeping chart. 2,805,821, 9-10-57, Cl. 235-2.
- Spurlock, William H., H. A. Edmonds, and C. E. Evanson, to Leaf Brands, Inc. Comestible handling and packaging apparatus. 2,810,997, 10-29-57, Cl. 53-159.
- Spychala, Henryk. Console for key actuated musical instruments and in particular electrical organs. 2,799,200, 7-16-57, Cl. 84-424.
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Allen, Wallace T., and Woods. 2,814,693.
Anger, Ernest G. 2,786,975.
Billante, Charles A. 2,804,585.
Duvall, Harold A., and Esler. 2,789,169.
Jones, Clifford W. 2,806,920.
Lister, Charles A. 2,790,878.
Mierendorf, Robert C., and Porter. 2,783,375.
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Pettit, Dorn L. 2,805,377.
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Schurr, Charles A., and Mannors. 2,817,053.
- Squassoni, Gino F. : *See*—
Rossetto, Louis, Squassoni, Rice, and Robbins. 2,816,609.
- Squassoni, Gino F., to Mergenthaler Linotype Co. Photo-composing machine. 2,808,768, 10-8-57, Cl. 95-4.5.
- Squibb, George R., and D. A. Urquhart, to General Motors Corp. Process and apparatus for grinding piston rings and product thereof. 2,803,509, 8-20-57, Cl. 309-44.
- Squier, Robert C. : *See*—
Barry, John F., Squier, and Billingsley. 2,789,741.
- Squiller, Samuel. Fluid-actuated chuck. 2,801,110, 7-30-57, Cl. 279-43.
- Squire, Edward N., to E. I. du Pont de Nemours and Co. Phenol-modified glass fiber reinforced amine-urea-formaldehyde composition and process for same. 2,806,826, 9-17-57, Cl. 260-17.2.
- Squire, Herbert D., to Midwest Mfg. Corp. Door lock. 2,812,204, 11-5-57, Cl. 292-334.
- Squire, John R., and H. A. Ortegren, to Federal-Mogul-Bower Bearings, Inc. Simultaneous external and internal centerless grinding machine. 2,807,916, 10-1-57, Cl. 51-88.
- Squires, William K., to Sylvania Electric Products, Inc. Vertical deflection system for television receivers. 2,801,365, 7-30-57, Cl. 315-27.
- Squires, William K., to Sylvania Electric Products, Inc. Television receiver. 2,810,014, 10-15-57, Cl. 178-5.8.
- Squires, William K., to Sylvania Electric Products, Inc. Horizontal deflection and audio output circuit. 2,816,953, 12-17-57, Cl. 178-5.8.
- Sramek, Elmer D. : *See*—
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Engleson, Harry E., and Sramek. 2,815,112.
- Sreb, Jules H. : *See*—
Dell, Albert H., Kuck, and Sreb. 2,775,942.
- Srensen, Harald M. : *See*—
Krabbe, Ulrik H., and Srensen. 2,777,978.
- Staaf, Werner I. Gas turbine construction. 2,803,945, 8-27-57, Cl. 60-39.36.
- Staak, Julius H., to General Electric Co. Flame arrestor for dynamoelectric machines. 2,789,238, 4-16-57, Cl. 310-88.

- Staak, Julius H., to General Electric Co. Dynamoelectric machine construction. 2,815,458, 12-3-57, Cl. 310-40.
- Staak, Louis E., to General Electric Co. Centrifugal mechanism. 2,788,206 4-9-57, Cl. 264-15.
- Staak, Louis E., to General Electric Co. Sump pump liquid level control switch. 2,804,516, 8-27-57, Cl. 200-83.
- Staak, Louis E., and G. D. Willits, to General Electric Co. Dust proof switch mechanism. 2,816,199, 12-10-57, Cl. 200-168.
- Staats, James E.: *See*—
Loewenthal, Henry J., and Staats. 2,783,723.
- Staats, Louis T., Sr. Apparatus for soil preparation. 2,785,613, 3-19-57, Cl. 97-10.
- Staatsbedrijf der Posterijen, Telegrafie en Telefonie: *See*—
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Bevoort, Cornelis, and Baudet. 2,817,014.
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- Stabenau, Robert: *See*—
Wüsteney, Herbert, and Stabenau. 2,795,647.
- Stableford, John L. Golf bag carriage and stand. 2,793,871, 5-28-57, Cl. 280-42.
- Stace, Walter L., and J. S. Allen. Fluid-actuated chuck. 2,784,002, 3-5-57, Cl. 279-4.
- Stachel, Adolf: *See*—
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- Stachura, Edward J. Door holding device. 2,807,490, 9-24-57, Cl. 292-288.
- Stack, Aaron, and E. G. Shaver, to The Sherwin-Williams Co. Phthalic esters of improved color and method. 2,802,858, 8-13-57, Cl. 260-475.
- Stack, Aaron, and E. G. Shaver, to The Sherwin-Williams Co. Method of manufacture of phthalic esters of anomic character. 2,802,860, 8-13-57, Cl. 260-475.
- Stack, Alex.: *See*—
Moore, Edward B., and Stack. 2,792,103.
- Stack, Emmet G. Flush doors. 2,799,059, 7-16-57, Cl. 20-35.
- Stackbin Corp.: *See*—
Shaw, Richard A. 2,801,753.
- Stackhouse, Wells, to American Locker Co., Inc. Baggage truck. 2,792,233, 5-14-57, Cl. 280-47.28.
- Stackpole Carbon Co.: *See*—
Lynn, Clarence, and Dobson. 2,780,841.
- Stacy, Thomas F., to The French Oil Mill Machinery Co. Swinging head presses. 2,812,543, 11-12-57, Cl. 18-16.
- Stader, William J. Automatic sanding device for vehicles. 2,803,475, 8-20-57, Cl. 291-32.
- Stadler, Albert: *See*—
Radatz, Minnie R. 2,798,329.
- Stadler, Hurter & Co.: *See*—
Attundu, Andre C. 2,778,674.
- Stadler, Walter L. Valve reseater. 2,787,196, 4-2-57, Cl. 90-12.3.
- Stadnyk, Peter J.: *See*—
Adams, Guy E., Sr., and Stadnyk. 2,802,916.
- Stadthaus, Alfred C., to Mayville Metal Products Co. Flexible welded sput. 2,788,232, 4-9-57, Cl. 285-201.
- Stadum, Clarence B.: *See*—
Large, William E., Stadum, and Hartwig. 2,792,528.
- Staebler, Lloyd A., and E. W. Zearfoss, Jr., to Philco Corp. Defrosting refrigeration system. 2,783,621, 3-5-57, Cl. 62-117.55.
- Staeger, Werner, to Firma Kugelfischer Georg Schäfer & Co. Injection pumps. 2,808,003, 10-1-57, Cl. 103-40.
- Staeger, Rudolf: *See*—
Schlecht, Leo, and Staeger. 2,817,583.
- Staehelin, Alexander: *See*—
Druey, Jean, Hueni, Ringier, and Staehelin. 2,798,869.
Druey, Jean, Meier, and Staehelin. 2,786,840.
Druey, Jean, and Staehelin. 2,792,396.
- Staehle, Henry C., to Eastman Kodak Co. Waterproof photographic paper and method of making same. 2,776,236, 1-1-57, Cl. 154-120.
- Stafford, George R.: *See*—
McInnes, Henry S., and Stafford. 2,810,477.
- Stafford, Jesse J., 1/2 to H. W. Sanborn. Fishing apparatus. 2,792,658, 5-21-57, Cl. 43-4.
- Stafford, Robert W.: *See*—
Davis, Gerald M., and Stafford. 2,809,121.
- Stafford, Veronica H.: *See*—
McInnes, Henry S., and Stafford. 2,810,477.
- Stafford, Walter L., and E. T. White, Jr. Portable truck dump. 2,777,667, 1-15-57, Cl. 254-4.
- Sta-Firm Chair Corp.: *See*—
Sill, George A. 2,782,870.
- Stageberg, Sterling O. Curtain type valves. 2,784,740, 3-12-57, Cl. 137-625.44.
- Stageberg, Sterling O. Method of and machine for mechanically curling hair. 2,808,838, 10-8-57, Cl. 132-7.
- Stageberg, Wilfred E.: *See*—
Ashton, George H., and Stageberg. 2,794,485.
- Stagg, Morey: *See*—
Hafekost, Frederick. 2,776,482.
- Staggs, Jesse D. Battery-charging apparatus. 2,802,164, 8-6-57, Cl. 320-12.
- Sta-Hi Corp.: *See*—
Satre, Leland H., and Baker. 2,786,365.
- Stahl, Alfred R., to General Electric Co. Work indexing arrangement. 2,789,683, 4-23-57, Cl. 198-110.
- Stahl, Chester W. Terminal block and connector for power cables and load leads. 2,786,190, 3-19-57, Cl. 339-198.
- Stahl, Edward H., and J. H. Ferguson. Clamping device. 2,818,095, 12-31-57, Cl. 144-290.
- Stahl, Florence L.: *See*—
Loomis, Glenn L. 2,780,294.
- Stahl, Gerald E.: *See*—
Breskin, Charles A., and Stahl. 2,804,183.
- Stahl, Hans-Joachim, and B. Zeller, to Firma Wilhelm Breitenbach, G. m. b. H. Winding apparatus. 2,796,220, 6-18-57, Cl. 242-25.
- Stahl, John: *See*—
Loomis, Glenn L. 2,780,294.
- Stahl, Milton F. Selective two-speed hand tool. 2,817,988, 12-31-57, Cl. 81-73.
- Stahl, Philip D., to Presto Recording Corp. Frequency standard. 2,785,308, 3-12-57, Cl. 250-36.
- Stahl, Raymond T., to Swift & Co. Method of severing Italian cheeses. 2,782,502, 2-26-57, Cl. 31-5.
- Stahl, Robert J., to Color Television Inc. Color television camera stabilizing circuit. 2,779,817, 1-29-57, Cl. 178-5.4.
- Stahl, Robert J., and G. R. West, to Color Television Inc. Multiple shaft coupling. 2,781,649, 2-19-57, Cl. 64-1.
- Stahl, Robert J., and N. L. Heikes, to California Technical Industries. Color television camera control. 2,787,655, 4-2-57, Cl. 178-5.4.
- Stahl, William F.: *See*—
Hoffstedt, Nels P. 2,781,985.
- Stahl, William F. Method of making paint rollers. 2,789,075, 4-16-57, Cl. 154-83.
- Stahl, William L.: *See*—
Applegate, Vernon C., Stahl, and Smith. 2,778,140.
Vogele, Clyde E., Jr., and Stahl. 2,783,378.
- Stahl, Woodrow W.: *See*—
Haase, Bartholomew, McWhorter, Dale, and Stahl. 2,797,659.
- Stahlecker, Wilhelm, and H. Grill. Centerless grinding machine. 2,778,165, 1-22-57, Cl. 51-103.
- Stähler, Gerhard: *See*—
Scherer, Otto, Stähler, and Frensch. 2,795,598.
- Stähli, Gustav, to Actiengesellschaft Joh. Jacob Rieter & Cie. Spinning ring. 2,798,357, 7-9-57, Cl. 57-119.
- Stahmann, Mark A., T. C. Allen, J. E. Casida, and R. K. Chapman, to Wisconsin Alumni Research Foundation. Organophosphoramidate N-oxide pesticide product and process for making it. 2,814,636, 11-26-57, Cl. 260-461.
- Stahr, Rudolf, to Jagenberg-Werke Akt.-Ges. Apparatus for feeding and coating labels. 2,814,269, 11-26-57, Cl. 118-236.
- Staib, John H.: *See*—
Stewart, Joseph, Staib, and Knoth. 2,810,748.
- Staib, John H., to Esso Research and Engineering Co. Separation of sec-butyl ether from polymeric hydrocarbons. 2,809,927, 10-15-57, Cl. 202-67.
- Staib, John H., and E. Arundale, to Esso Research and Engineering Co. Process for improving alcohol quality. 2,806,816, 9-17-57, Cl. 202-39.5.
- Staiger, Eugene L.: *See*—
Hollien, Richard R., and Staiger. 2,808,085.
- Staiger, Kurt, to Stewart-Warner Corp. Purge gas system for aircraft. 2,787,530, 4-2-57, Cl. 23-281.
- Staimbrook, Harry D.: *See*—
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- Stainer, Andrew F.: *See*—
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- Stainless Metal Products, Inc.: *See*—
Smith, William G. 2,806,463.
- Stair, Robert H., to Allied Chemical & Dye Corp. Process for preparing dichlorodiphenyldichloroethane. 2,788,374, 4-9-57, Cl. 260-649.
- Stairwalt, Frederick W. Demountable and collapsible rack. 2,791,336, 5-7-57, Cl. 211-149.
- Stalcup, Ernest F., to Westinghouse Electric Corp. Evaporator apparatus. 2,782,150, 2-19-57, Cl. 202-185.
- Stalego, Charles J., to Owens-Corning Fiberglas Corp. Apparatus for forming mineral fibers. 2,775,850, 1-1-57, Cl. 49-55.
- Stalego, Charles J., to Owens-Corning Fiberglas Corp. Fiber forming apparatus. 2,783,590, 3-5-57, Cl. 49-17.
- Stalego, Charles J., to Owens-Corning Fiberglas Corp. Apparatus for handling and processing mineral materials having high fusing temperatures. 2,790,019, 4-23-57, Cl. 13-35.
- Stalego, Charles J., to Owens-Corning Fiberglas Corp. Combustion burner and nozzle construction. 2,806,522, 9-17-57, Cl. 158-116.
- Stalemark, Fritz R. V., and D. B. H. Lundvall, to Telefonaktiebolaget L M Ericsson. Automatic control system. 2,782,258, 2-19-57, Cl. 179-15.
- Staley, A. E., Mfg. Co.: *See*—
Etheridge, Oliver R. 2,805,966.
Foley, Marion B. 2,784,161.
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Hayes, Lester P., and Wolff. 2,792,411.
- Staley Elevator Co., Inc.: *See*—
Kramer, Karl Adolf. 2,805,735.
- Staley, Elizabeth. Peforating device. 2,782,856, 2-26-57, Cl. 164-120.
- Staley Milling Co.: *See*—
Leker, James E. 2,806,788.
- Staley, Thomas G. Outboard motor mounting apparatus. 2,782,744, 2-26-57, Cl. 115-41.

- Stalhandske, David G., and E. A. Johnson. Gauge for measuring internal dimensions. 2,781,585, 2-19-57, Cl. 33—174.
- Stalker Development Co., The: *See—*
- Clarke, Daniel J. 2,802,619.
- Stalker, Edward A. 2,783,023.
- Stalker, Edward A. 2,787,049.
- Stalker, Edward A. 2,788,172.
- Stalker, Edward A. 2,788,569.
- Stalker, Edward A., to The Stalker Development Co. Fluid rotor having damping means. 2,783,023, 2-26-57, Cl. 253—77.
- Stalker, Edward A. Compressor employing radial diffusion. 2,785,849, 3-19-57, Cl. 230—122.
- Stalker, Edward A., to Stalker Development Co. Process of fabricating blades for turbines, compressors and the like. 2,787,049, 4-2-57, Cl. 29—156.8.
- Stalker, Edward A., to The Stalker Development Co. Bladed structures for axial flow compressors. 2,788,172, 4-9-57, Cl. 230—120.
- Stalker, Edward A., to The Stalker Development Co. Fabrication of sheet stock blades for fluid flow machines. 2,788,569, 4-16-57, Cl. 29—156.8.
- Stalker, Edward A. Axial flow compressors with adjustable stages. 2,792,983, 5-21-57, Cl. 230—114.
- Stalker, Edward A. Axial flow machine for increasing the pressure of an elastic fluid. 2,796,214, 6-18-57, Cl. 230—122.
- Stalker, Edward A. Radial diffusion compressors. 2,806,645, 9-17-57, Cl. 230—120.
- Stallcup, Otis M. Continuous-flow attachment for soft-cream freezers and method employing the same. 2,784,563, 3-12-57, Cl. 62—114.
- Staller, Charles. Thimble type hose coupling with plural gripping rings. 2,787,480, 4-2-57, Cl. 285—238.
- Staller, Karel J.: *See—*
- Svec, Emil F., and Staller. 2,780,261.
- Stallings, John A., to General Motors Corp. Seal. 2,804,324, 8-27-57, Cl. 288—3.
- Stallworthy, Frank A., and P. W. Hicks, to Siemens Edison Swan Ltd. Telephone trunk supervisory signalling system. 2,814,674, 11-26-57, Cl. 179—27.
- Stalmer, Reginald G. Portable door lock. 2,786,705, 3-26-57, Cl. 292—297.
- Stalmer, Reginald G. Container construction. 2,810,515, 10-22-57, Cl. 232—28.
- Stam, Stephen A., to the United States of America as represented by the Secretary of the Army. Lightweight cradle rocket launcher mount. 2,779,244, 1-29-57, Cl. 89—37.
- Stam, Stephen A., to the United States of America as represented by the Secretary of the Army. Semi-automatic repeating rocket launcher. 2,787,192, 4-2-57, Cl. 89—1.7.
- Stambaugh, Clayton E.: *See—*
- Riley, Joseph J., and Stambaugh. 2,800,624.
- Stambaugh, Robert P.: *See—*
- Watts, Willie H., and Stambaugh. 2,807,282.
- Stambaugh, Robert P., and W. H. Watts, to Union Carbide and Carbon Corp. Reinforced pipe joint. 2,782,806, 2-26-57, Cl. 138—76.
- Stambaugh, Russell W. Flush valve assembly. 2,801,425, 8-6-57, Cl. 4—57.
- Stamberg, Olof E., to Consolidated Products Co. Gelled condensed whey and process. 2,780,548, 2-5-57, Cl. 99—4.
- Stamco, Inc.: *See—*
- Bruns, Elton W. 2,786,527.
- Bruns, Elton W. 2,792,060.
- Stamford Trust Co., The: *See—*
- Pike, Robert D. 2,780,520.
- Pike, Robert D. 2,792,282.
- Pike, Robert D. 2,798,790.
- Pike, Robert D. 2,800,392.
- Pike, Robert D. 2,804,383.
- Stamcarbon N. V.: *See—*
- Claessen, Antonius F. M. 2,776,740.
- De Heer, Henri J. 2,780,414.
- Dijksman, Cornelis, and Fontein. 2,800,459.
- Fontein, Freerk J. 2,781,906.
- Fontein, Freerk J. 2,781,907.
- Fontein, Freerk J., and Dijksman. 2,798,011.
- Fontein, Freerk J., and Dreissen. 2,814,388.
- Gardeniers, Paulus P., Klaassen, and Kollöffel. 2,793,914.
- Hallie, Gerardus, and Hoogendonk. 2,793,398.
- Kampschmidt, Leonard W. F. 2,786,052.
- Kampschmidt, Leonard W. F. 2,817,661.
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- Koopal, Sieds, Smit, and van Loon. 2,776,885.
- Krapels, Johannes G. 2,786,662.
- Krapels, Johannes G. 2,808,252.
- Leeman, Jan N. J., and Fontein. 2,817,441.
- Lubberhuizen, Jan C. 2,812,456.
- Revallier, Leonardus J. 2,813,833.
- Van Hardefeld, Andries, and van Tillo. 2,804,208.
- Van Loon, Willem. 2,814,478.
- Van Loon, Willem, and Koopal. 2,794,706.
- Vegter, Herman J. 2,778,752.
- Zeegers, Jan J. 2,804,193.
- Zeegers, Jan J. 2,810,470.
- Zeegers, Jan J. 2,810,564.
- Stamcarbon N. V. (Stamcarbon, Ltd.): *See—*
- Herkenhoff, Earl C. 2,793,748.
- Stamler, W. R., Corp., The: *See—*
- Miller, Labron W., and Stamler. 2,788,134.
- Stamler, William R.: *See—*
- Miller, Labron W., and Stamler. 2,788,134.
- Stamm, Alexander F., to Chrysler Corp. Positive drive differential. 2,817,251, 12-24-57, Cl. 74—711.
- Stamm, John G., Jr. Rifle barrel cleaning device. 2,800,289, 7-23-57, Cl. 242—107.3.
- Stamos, Chris, to The United Electric Coal Companies. Suspension means for conveyor belt. 2,798,591, 7-9-57, Cl. 198—192.
- Stampe, Gerhard K. E. H., to O. H. Drager. Apparatus for sampling the human breath. 2,795,223, 6-11-57, Cl. 128—2.
- Stampe, Gerhard K. E. H., to Dr. O. H. Drager. Dust filters. 2,804,936, 9-3-57, Cl. 183—49.
- Stampe, Gerhard K. E. H., to Firma Dragerwerk, Heiner, & Bernh. Drager. Mask with dust filter. 2,811,967, 11-5-57, Cl. 128—146.
- Stamper, Furman H.: *See—*
- Stamper, Hamilton A. and F. H. 2,777,070.
- Stamper, Hamilton A. and F. H., to Bendix Aviation Corp. Servo compass. 2,777,070, 1-8-57, Cl. 250—233.
- Stamper, Hamilton A., and E. Woodbury, to Bendix Aviation Corp. Servo compass. 2,790,913, 4-30-57, Cl. 250—233.
- Stamps, George M.: *See—*
- Deuth, Albert F., and Stamps. 2,792,448.
- Stamps, George M., to Faximile, Inc. Facsimile apparatus. 2,815,397, 12-3-57, Cl. 178—6.6.
- Stancifft, Ray J., Jr., A. L. Draper, and L. H. Jenks, to Esso Research and Engineering Co. Process for overcoming water blocking of a petroleum producing well. 2,776,714, 1-8-57, Cl. 166—42.
- Standard Brands Inc.: *See—*
- Barch, William E. 2,817,588.
- Reich, Ismar M., and Johnston. 2,788,276.
- Reich, Ismar M., Redfern, Lenney, and Schimmel. 2,801,920.
- Standard Button Machine Co., Inc.: *See—*
- Ostrow, Milan R. 2,781,676.
- Standard Car Truck Co.: *See—*
- Barber, Franklin D. 2,797,914.
- Sale, William H. 2,803,354.
- Williams, Ray C. 2,797,915.
- Williams, Ray C. 2,808,276.
- Standard Coil Products Co., Inc.: *See—*
- Bull, Richard W. 2,777,056.
- Eland, Robert C. A. 2,818,472.
- Gossard, Thomas F. 2,791,124.
- Gossard, Thomas F. 2,796,470.
- Gossard, Thomas F. 2,798,954.
- Hannon, Robert J. 2,777,062.
- Hannon, Robert J. 2,799,736.
- Hannon, Robert J. 2,811,640.
- Meyer, Walter. 2,795,694.
- Nelson, Edwin K. 2,786,901.
- O'Brien, John P. 2,811,637.
- Scandurra, Aldo M. 2,785,297.
- Scandurra, Aldo M., and Hannon. 2,795,655.
- Thias, Edwin P. 2,777,039.
- Standard Dayton Corp.: *See—*
- Duckro, John E. 2,812,051.
- Standard Electric Time Co., The: *See—*
- Korabowski, Adam S. 2,789,188.
- Standard Electrical Products Co.: *See—*
- Jordan, Stanley R. 2,795,749.
- Standard Electrical Tool Co.: *See—*
- Falls, John J. 2,791,067.
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- Corcoran, Thomas M. 2,788,038.
- De Angelis, Angelo C. 2,811,794.
- De Angelis, Angelo C., and Butterfield. 2,812,166.
- Minnich, Edward L. 2,807,731.
- Minnich, Edward L., and Mann. 2,814,741.
- Smith, Harry R., and Taylor. 2,793,289.
- Standard Gage Co., Inc.: *See—*
- Aldeborgh, Erik, and Croshier. 2,785,471.
- Aldeborgh, Erik H., and Czaplinski. 2,784,494.
- Croshier, Walter J. 2,784,495.
- Standard, Louis G. Signs. 2,795,068, 6-11-57, Cl. 40—126.
- Standard Machinery Co., The: *See—*
- Davis, Benjamin H. 2,789,314.
- Davis, Benjamin H. 2,794,213.
- Davis, Benjamin H. 2,807,832.
- Standard Oil Co., (Indiana): *See—*
- Beretvas, Helen S. 2,818,429.
- Beverly, Jarvis B. 2,784,098.
- Bland, Julius. 2,815,436.
- Brehm, Allen E., and Lindert. 2,796,408.
- Brunstrom, Lawrence C., and Borg. 2,782,630.
- Brunstrom, Lawrence C., and Borg. 2,794,339.
- Bulkley, William L., Harban, Krebs, and Ryant. 2,814,070.
- Cafcas, Thomas H. 2,780,598.
- Carmody, Don R., and Zietz. 2,778,188.
- Carmody, Don R., and Zietz. 2,778,189.
- Carmody, Don R., Maverville, and Zietz. 2,810,257.
- Crowley, Michael S., Birkness, and Wygant. 2,792,152.
- Dieman, Edgar A., and Brehm. 2,796,353.
- Dinerstein, Robert A. 2,804,451.
- Fainman, Morton. 2,790,770.
- Feller, Morris, and Field. 2,791,575.
- Feller, Morris, and Field. 2,795,574.
- Feller, Morris, and Field. 2,802,814.
- Fied, Edmund, and Feller. 2,780,660.

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- Field, Edmund, and Feller. 2,791,576.
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 Gunness, Robert C. 2,780,663.
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 Hengstebeck, Robert J. 2,800,428.
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 Hoff, Melvern C., and Burney. 2,795,634.
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 John, George S., and Brooks. 2,805,206.
 Junk, William A., Jr., Schmidt, and Seelig. 2,800,427.
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 Kalinowski, Mathew L., and Crews. 2,812,339.
 Liehe, Hubert J. 2,812,306.
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 Lien, Arthur P., and McCaulay. 2,784,242.
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 Lindert, Albert W. 2,792,346.
 Mayernik, Stephen G. 2,802,384.
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 McKeague, Edward D., and Kenyon. 2,776,930.
 Mecklin, Robert W., and Voreck. 2,805,773.
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 Seelig, Herman S., and Weck. 2,815,357.
 Stein, Norman. 2,803,686.
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 Twaddle, Warren W., Burney, and Liao. 2,813,137.
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- Alford, Harvey E., and Bartleson. 2,809,934.
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 Fink, Melvin M. 2,780,094.
 Foreman, Robert W. 2,780,665.
 Foreman, Robert W. 2,807,525.
 Foreman, Robert W. 2,807,526.
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 Hellmann, Frank R., Jr. 2,780,359.
 Hughes, Everett C. 2,800,400.
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 Hughes, Everett C., and Stine. 2,790,772.
 Hughes, Everett C., and Stine. 2,790,775.
 Hughes, Everett C., Stine, Darling, and Liao. 2,790,774.
 Hughes, Everett C., and Strecker. 2,783,134.
 Hughes, Everett C., and Strecker. 2,813,114.
 Hughes, Everett C., Strecker, and Jones. 2,783,185.
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- Jones, Arthur L. 2,790,660.
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 Stine, Harrison M. 2,779,712.
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 Veatch, Franklin. 2,804,393.
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 Vermilion, Willas L., Jr. 2,805,979.
 Visnapuu, Naima. 2,793,181.
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 Wells, Elwood D., and Paris. 2,786,775.
 Wishart, James S. 2,789,089.
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 Zimmerman, Marlin U., Jr. 2,778,621.
 Standard Packaging Corp. : *See*—
 Mahaffy, Reid A., Young, and Harder. 2,778,177.
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 Standard Paper Box Corp. : *See*—
 Petter, Noel A. 2,804,258.
 Standard Pressed Steel Co. : *See*—
 Kull, Francis R. 2,806,494.
 Wilson, Charles A. 2,803,377.
 Standard Products Co., The : *See*—
 Friderici, Wayne J. 2,793,611.
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 Standard Railway Equipment Mfg. Co. : *See*—
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 Standard Register Co., The : *See*—
 Brown, George C. 2,796,771.
 Davidson, John T. 2,775,932.
 Davidson, John T. 2,777,516.
 Davidson, John T. 2,777,690.
 Davidson, John T. 2,779,272.
 Davidson, John T. 2,782,713.
 Davidson, John T. 2,782,714.
 Davidson, John T. 2,787,751.
 Davidson, John T. 2,801,584.
 Davidson, John T., and Briggs. 2,807,346.
 Davidson, John T., and Kroemer. 2,787,464.
 Dietz, Charles H., and Staneck. 2,776,007.
 Howard, Charles F. 2,795,417.
 Metzner, Albert W. 2,775,937.
 Metzner, Albert W. 2,782,894.
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 Standard Safety Equipment Co. : *See*—
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 Standard Screw Co. : *See*—
 Andrews, Allen R. 2,799,132.
 Andrews, Allen R., and Winslow. 2,781,628.
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 Standard Steel Corp. : *See*—
 Pitt, Norman. 2,810,968.
 Preeman, Marvin B. 2,805,052.
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 Gillespie, Joseph, and Cordill. 2,809,661.
 Standard Steel Spring Co. : *See*—
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 Standard Steel Works, Inc. : *See*—
 Compton, Arthur M. 2,784,981.
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 Compton, Arthur M. 2,798,735.
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 Baker, William E. 2,781,784.
 Bondurant, Carlton W., and Gravenstine. 2,811,349.
 Dirksen, Arnold D., and Elsner. 2,784,304.
 Frederick W. Hottenroth, Jr. 2,796,076.
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 Hottenroth, Frederick W., Jr. 2,813,681.
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 Kimm, Ewald J., and Early. 2,785,861.
 Wood, Charles W. 2,777,638.
 Wood, Charles W. 2,806,375.
 Wood, Charles W. 2,806,376.
 Wood, Thomas M. N. 2,796,109.
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 Woods, John E. 2,813,680.
 Standen, John H., to The B. F. Goodrich Co. Fortified animal feeds. 2,776,889, 1-8-57, Cl. 99-2.

- Standfuss, Ernest R., to The Burch Corp. Coupling device of the condition responsive type. 2,800,340, 7-23-57, Cl. 280-447.
- Standiford, Fred A., $\frac{1}{2}$ to E. Y. Jewers. Stuffing box gland structure. 2,809,058, 10-8-57, Cl. 286-33.
- Standley, Robert E., and E. S. Christoffersen. Wing joint breaker for poultry. 2,785,437, 3-19-57, Cl. 17-11.
- Standley, Wendell E.: See—
Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,803,932.
- Staneck, Robert W.: See—
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- Stanetzki, Lothar. Magnetic toys. 2,791,065, 5-7-57, Cl. 46-240.
- Stanford, Eric L. C., deceased; M. T. Stanford, executrix. Stump pulling device. 2,796,233, 6-18-57, Cl. 254-139.1.
- Stanford, Eric L. C., deceased; M. T. Stanford, executrix. Apparatus for making sandwiches. 2,810,359, 10-22-57, Cl. 107-1.
- Stanford, Marie T.: See—
Stanford, Eric L. C. 2,796,233.
Stanford, Eric L. C. 2,810,359.
- Stang, Ted, to The Tedd Co. Slidable outer jaw ratchet wrench with positionable handle. 2,804,794, 9-3-57, Cl. 81-177.8.
- Stanhope, Lawrence E. Greenhouse. 2,805,518, 9-10-57, Cl. 47-17.
- Stanley, Andrew F.: See—
Holt, William. 2,814,281.
- Staniloff, Seldon A., to the United States of America as represented by the Secretary of the Navy. Motor speed regulation. 2,814,008, 11-19-57, Cl. 318-138.
- Stanis, Alexander, to Studebaker-Packard Corp. Rubber bumpers. 2,813,712, 11-19-57, Cl. 267-63.
- Stankeiwich, Edward M., and J. Rosenfeld. Suspension means for accordion-type doors and the like. 2,806,525, 9-17-57, Cl. 160-84.
- Stanley, John E., to the United States of America as represented by the Secretary of the Air Force. Radio frequency oscillator-amplifier tuning unit. 2,782,265, 2-19-57, Cl. 179-171.
- Stanko, John T.: See—
Gochoel, Urban F. 2,795,493.
- Stanley Building Specialties Co.: See—
Blanchard, Donn C. 2,779,068.
Blanchard, Donn C. 2,792,088.
- Stanley, Charles N.: See—
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- Stanley, Eugene R.: See—
Hurford, Winslow L., and Stanley. 2,806,978.
- Stanley, Frederic R.: See—
Churchill, John A., and Stanley. 2,791,216.
- Stanley, Gordon W. Defrosting attachment for windshields. 2,779,067, 1-29-57, Cl. 20-40.5.
- Stanley, Harry W., and R. H., one-fifth to C. N. Stanley. Clamps for concrete forms. 2,803,055, 8-20-57, Cl. 29-286.
- Stanley Home Products, Inc.: See—
Le Febvre, Alfred L., and Bailey. 2,798,230.
Le Febvre, Alfred L., Johnson, and Small. 2,797,968.
Le Febvre, Alfred L., and Rice. 2,781,537.
- Stanley, John P.: See—
Palermo, Blasey T., and Stanley. 2,780,355.
- Stanley, Lester N.: See—
Baggenstoss, Alois C., and Stanley. 2,809,964.
Von Glahn, William H., and Stanley. 2,789,140.
- Stanley, Lester N., and A. C. Baggenstoss, to General Aniline & Film Corp. Method of producing stabilized diazonium salts. 2,809,189, 10-8-57, Cl. 260-141.
- Stanley, Malcolm N., to The Porta Co., Inc. Portable duck blind. 2,816,297, 12-17-57, Cl. 9-5.
- Stanley, Peter P., and V. E. Becker, to Reichel & Drews, Inc. Blender for roofing granules. 2,785,834, 3-19-57, Cl. 222-136.
- Stanley, Ralph H.: See—
Stanley, Harry W., and R. H. 2,803,055.
- Stanley, Robert F., and F. M. Day, to Pioneer Water Heater Corp. Safety gas control system for hot water heaters. 2,781,977, 2-19-57, Cl. 236-21.
- Stanley, Thomas H.: See—
Stewart, James C., Stanley, and Almgren. 2,817,018.
- Stanley, Thomas H., to T. S. Skillman and Co. Pty. Ltd. Receiver for carrier telephone systems. 2,816,960, 12-17-57, Cl. 179-15.5.
- Stanley, Thomas H., to T. S. Skillman and Co. Pty. Ltd. Steady-state signalling using alternating currents. 2,816,962, 12-17-57, Cl. 179-41.
- Stanley, Thomas O., to Radio Corp. of America. Semi-conductor signal amplifier circuit. 2,789,164, 4-16-57, Cl. 179-171.
- Stanley, Thomas O., to Radio Corp. of America. Efficient and stabilized semi-conductor amplifier circuit. 2,810,024, 10-15-57, Cl. 179-171.
- Stanley, William J. Vertically adjustable table. 2,792,268, 5-14-57, Cl. 311-39.
- Stanley, William L.: See—
Bills, John L., and Stanley. 2,788,367.
- Stanley, William N.: See—
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- Stanley Works, The: See—
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Ferguson, Paul R. 2,786,226.
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Robinson, David M. 2,786,231.
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- Stannard, Harry W.: See—
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- Stansbery, Ira C. Wagon hoist. 2,789,706, 4-23-57, Cl. 214-46.34.
- Stansbury, Burton J. Detachable pipe closure. 2,810,401, 10-22-57, Cl. 138-89.
- Stansbury, Harry A., Jr.: See—
Guest, Howard R., and Stansbury. 2,802,879.
Guest, Howard R., and Stansbury. 2,815,384.
Guest, Howard R., and Stansbury. 2,815,385.
- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide and Carbon Corp. Allyl hydroxy alkenoates. 2,786,073, 3-19-57, Cl. 260-484.
- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide and Carbon Corp. 3,4-dihydro-2H-pyran-2-yl-acyloxyacetone and process for their preparation. 2,786,853, 3-26-57, Cl. 260-345.8.
- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Heterobicyclic compounds and process for their preparation. 2,815,351, 12-3-57, Cl. 260-340.9.
- Stansbury, Roy E., and L. D. Goodhue, to Phillips Petroleum Co. Method of eradicating nematodes by applying thereto sulfenyl xanthates. 2,795,525, 6-11-57, Cl. 167-22.
- Stansell, Earl E.: See—
Bishop, Homer L. 2,782,474.
- Stant Mfg. Co., Inc.: See—
Friend, Dawson. 2,816,433.
- Stanton, August J. Hair curler. 2,811,159, 10-29-57, Cl. 132-43.
- Stanton, George W., T. B. Lefferdink, and T. C. Spence, to The Dow Chemical Co. Controlled coagulation of salt-spun polyacrylonitrile. 2,790,700, 4-30-57, Cl. 18-54.
- Stanton, Henry E., to the United States of America as represented by the United States Atomic Energy Commission. Neutron reactor having a Xe^{135} shield. 2,811,487, 10-29-57, Cl. 204-193.2.
- Stanton Instruments Ltd.: See—
Claridge, Frederick A., Hinton, and Whitcroft. 2,812,173.
Whitcroft, R. J., Hinton, and Claridge. 2,812,172.
- Stanton Ironworks Co. Ltd.: See—
Wilson, Percy H. 2,795,985.
- Stanton, Robert E. Process for making carbon disulfide. 2,788,261, 4-9-57, Cl. 23-206.
- Stanton, Robert H.: See—
Faler, John A., Allen, and Stanton. 2,815,614.
- Stanton, Robert J.: See—
Kainling, William C., Stanton, and Rudd. 2,818,489.
Rudd, Wallace G., and Stanton. 2,818,488.
- Stanton, Russell S.: See—
Yucht, George, and Stanton. 2,815,445.
- Stanton, Walter H., to Monsanto Chemical Co. Purification of ethylene. 2,805,733, 9-10-57, Cl. 183-115.
- Stanton, Walter H., and T. Breitmayer, to Monsanto Chemical Co. Vinyl acetate process. 2,794,827, 6-4-57, Cl. 260-498.
- Stanton, Warren N., to Vickers, Inc. Power transmission. 2,803,789, 8-20-57, Cl. 317-191.
- Stapleford, Carvel C.: See—
Payne, John W., and Stapleford. 2,813,755.
Penick, Joe E., and Stapleford. 2,817,692.
- Staples, Alfred T.: See—
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- Staples and Co. Ltd.: See—
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- Staples, Crawford E., to Westinghouse Air Brake Co. Coded track circuit apparatus with insulation breakdown protection. 2,783,370, 2-26-57, Cl. 246-34.
- Staples, Crawford E., to Westinghouse Air Brake Co. Polar coded track circuit railway signaling system. 2,802,934, 8-13-57, Cl. 246-34.
- Staples, Lynn W.: See—
Jones, John L., and Staples. 2,792,160.
- Staples, Lynn W., and S. H. Vasold, to Sugar Beet Products Co. Dispenser for viscous substances. 2,797,027, 6-25-57, Cl. 222-227.
- Staples, Marshall A.: See—
Abbott, Robert H. 2,797,064.
- Staples, Otis E., to The Cleveland Hobbing Machine Co. Gear checking apparatus. 2,777,209, 1-15-57, Cl. 33-179.5.

- Staples, Otis E., to The Fanner Mfg. Co. Work holder. 2,793,865, 5-28-57, Cl. 279-2.
- Stapleton, Clarence B.: *See*—
Beam, Albert S., and Stapleton. 2,810,965.
- Stapleton, Robert W., to General Motors Corp. Fluid coupling. 2,785,636, 3-19-57, Cl. 103-115.
- Star Cutter Co.: *See*—
Willingham, John R. 2,780,947.
- Star Porcelain Co., The: *See*—
Fenit, Robert D., Harman, and Wainer. 2,803,554.
- Star Radiator Co.: *See*—
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- Starbald, Roy A. Coolant tube. 2,792,848, 5-21-57, Cl. 138-17.
- Starbeck, Carl C.: *See*—
Bonsteel, Donald H., and Starbeck. 2,801,060.
- Starcher, Paul S.: *See*—
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Phillips, Benjamin, and Starcher. 2,785,185.
Phillips, Benjamin, and Starcher. 2,794,028.
Phillips, Benjamin, and Starcher. 2,794,029.
Phillips, Benjamin, and Starcher. 2,794,030.
Phillips, Benjamin, and Starcher. 2,794,812.
Phillips, Benjamin, Starcher, and Ash. 2,814,641.
Phillips, Benjamin, Starcher, and Heywood. 2,806,860.
- Starek, Arthur M., and W. E. Gency, to A. M. S. Corp. Removable window with sash balance. 2,778,069, 1-22-57, Cl. 20-52.2.
- Starek, Hans, and F. Schlenker, to Chemische Werke Albert. Epoxy resin compositions cured with metallic salts of enol-keto tautomeric compounds. 2,801,228, 7-30-57, Cl. 260-47.
- Starek, Hermann C., Aktiengesellschaft: *See*—
Haag, Heinz. 2,794,708.
- Starek, Jesse E., and R. Dow, to Metal & Thermit Corp. Chromium plating. 2,787,588, 4-2-57, Cl. 204-51.
- Starek, Jesse E., and R. Dow, to Metal & Thermit Corp. Chromium plating. 2,787,589, 4-2-57, Cl. 204-51.
- Starek, Jesse E., E. J. Seyb, Jr., and F. Passal, to Metal & Thermit Corp. Method of chromium plating. 2,800,436, 7-23-57, Cl. 204-37.
- Starek, Jesse E., and E. J. Seyb, Jr., to Metal & Thermit Corp. Chromium plating. 2,800,437, 7-23-57, Cl. 204-37.
- Starek, Jesse E., and E. J. Seyb, Jr., to Metal & Thermit Corp. Chromium plating. 2,800,438, 7-23-57, Cl. 204-41.
- Starek, Jesse E., E. J. Seyb, Jr., and F. Passal, to Metal & Thermit Corp. Method of chromium plating. 2,800,443, 7-23-57, Cl. 204-51.
- Starek, Jesse E., and R. Dow, to Metal & Thermit Corp. Method of preventing etching by chromic acid chromium plating baths. 2,812,297, 11-5-57, Cl. 204-34.
- Starek, Joseph J. Slingshot. 2,800,890, 7-30-57, Cl. 124-20.
- Stark, Albert C., to Detroit Stoker Co. Stoker apparatus. 2,794,406, 6-4-57, Cl. 110-32.
- Stark Ceramics, Inc.: *See*—
Stewart, John H., and Wack. 2,786,772.
- Stark, Conrad F., to The Air Preheater Corp. Heat transfer elements for rotary regenerative heaters. 2,795,400, 6-11-57, Cl. 257-1.
- Stark, Dorothy: *See*—
Stark, Nathan I. 2,807,369.
- Stark, Fortney H. Apparatus for the packaging of cheese and the like. 2,784,542, 3-12-57, Cl. 53-239.
- Stark, John B., and A. E. Goodban, to United States of America as represented by the Secretary of Agriculture. Recovery of sugar from sugar beets. 2,801,940, 8-6-57, Cl. 127-44.
- Stark, John L., to Allied Chemical & Dye Corp. Process for producing dry, free-flowing, thermosetting resin-coated sand granules. 2,807,556, 9-24-57, Cl. 117-100.
- Stark, Ludwig. Filter for tanks. 2,786,026, 3-19-57, Cl. 210-16.
- Stark, Nathan I., deceased; D. Stark, administratrix. Support for reading matter. 2,807,369, 9-24-57, Cl. 211-2.
- Stark, Richard J.: *See*—
Franck, John M., and Stark. 2,799,605.
- Stark, Robert J. Smoking pipe. 2,776,664, 1-8-57, Cl. 131-211.
- Stark, William M.: *See*—
Bird, Harold L., Jr., Stark, and Van Abeele. 2,806,024
- Starke, Willie L., Jr. Combination cigarette case, lighter and ash receiver. 2,777,569, 1-15-57, Cl. 206-38.
- Starkey, Donald A.: *See*—
Mitchell, David C., and Starkey. 2,813,041.
- Starkey, Lorin D. Chart holder. 2,814,138, 11-26-57, Cl. 40-10.
- Starkey, William A. (deceased), and E. M. Ransburg, to Ransburg Electro-Coating Corp. Apparatus for electrostatically coating articles. 2,794,417, 6-4-57, Cl. 118-51.
- Starks, Carl A.: *See*—
Strong, Harry H., Hatch, Winzeler and Starks. 2,789,245.
- Starks, Fred W., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,795,623, 6-11-57, Cl. 260-652.5.
- Starks, Fred W., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,818,446, 12-31-57, Cl. 260-652.5.
- Starks-Field, Alfred B., and R. A. Ward, to Marconi's Wireless Telegraph Co. Ltd. Cathode ray tube deflection systems. 2,799,800, 7-16-57, Cl. 315-27.
- Starline, Inc.: *See*—
Ferris, Robert G. 2,782,900.
Yuenger, Robert L. 2,782,899.
- Starling, Bengt, to Svenska Bromsbandfabriken Aktiebolag. Hydraulic braking system for vehicles including deceleration responsive means for automatically changing the ratio of braking between the front and rear wheels. 2,807,337, 9-24-57, Cl. 188-152.
- Starr, Arthur T., H. Grayson, R. A. G. Dunkley, and T. H. Walter, to International Standard Electric Corp. Electromagnetic switches. 2,802,170, 8-6-57, Cl. 323-92.
- Starr, Chauncey, to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for producing ions of vaporizable materials. 2,813,979, 11-19-57, Cl. 250-41.9.
- Starr, John H., to John Deere Van Brunt Co. Gearing. 2,791,127, 5-7-57, Cl. 74-385.
- Starr, Morton H. Vehicle load elevating and indicating mechanisms. 2,792,210, 5-14-57, Cl. 265-40.
- Starr, Norbert T., to Gar Wood Industries, Inc. Auxiliary compressing panel for refuse trucks. 2,813,641, 11-19-57, Cl. 214-83.3.
- Starrett, Delbert, to Phillips Petroleum Co. Convertible diaphragm operated valves. 2,815,037, 12-3-57, Cl. 137-271.
- Starrett, L. S., Co., The: *See*—
Hastings, James E. 2,783,542.
- Starry, Raymond A., to the United States of America as represented by the Secretary of the Navy. Jam-proof gun ammunition feed can. 2,776,599, 1-8-57, Cl. 89-34.
- Stary, Walter E. Pressure-tight window. 2,793,724, 5-28-57, Cl. 189-78.
- Stary, Walter E. Pressure switch. 2,800,548, 7-23-57, Cl. 200-82.
- Staskowski, Walter. Fuse boxes. 2,816,194, 12-10-57, Cl. 200-133.
- Stasny, Frank J., Jr.: *See*—
Stasny, Irene S. 2,811,285.
- Stasny, Irene S., 5% to R. G. Medlin, 5% to T. C. Eskridge, and 5% to F. J. Stasny, Jr. Liquid dispenser. 2,811,285, 10-29-57, Cl. 222-185.
- Stastny, Fritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of porous shaped articles true to shape and size from synthetic thermoplastic materials. 2,779,062, 1-29-57, Cl. 18-48.
- Stastny, Fritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of porous shaped articles from thermoplastic substances. 2,787,809, 4-9-57, Cl. 18-48.
- Stateman, Murray J., and H. R. Holloway, to the United States of America as represented by the United States Atomic Energy Commission. Non-destructive flaw detection apparatus. 2,817,060, 12-17-57, Cl. 324-37.
- State of Oregon, acting by and through the Oregon State Board of Forestry: *See*—
Macdonald, Mortimer D., and Cyrus. 2,810,930.
- Statham Laboratories, Inc.: *See*—
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Statham, Louis D. 2,778,623.
Statham, Louis D. 2,778,624.
Statham, Louis D. 2,778,905.
Statham, Louis D. 2,783,342.
Statham, Louis D. 2,789,190.
Statham, Louis D. 2,807,167.
Statham, Louis D. 2,811,599.
White, Gifford E. 2,789,192.
- Statham, Louis D.: *See*—
Epstein, Saul, and Statham. 2,785,470.
- Statham, Louis D., to Statham Laboratories, Inc. Angular accelerometer. 2,778,623, 1-22-57, Cl. 264-1.
- Statham, Louis D., to Statham Laboratories, Inc. Angular accelerometer. 2,778,624, 1-22-57, Cl. 264-1.
- Statham, Louis D., to Statham Laboratories, Inc. Motion sensing device. 2,778,905, 1-22-57, Cl. 201-48.
- Statham, Louis D., to Statham Laboratories, Inc. Electric transducer. 2,783,342, 2-26-57, Cl. 201-63.
- Statham, Louis D., to Statham Laboratories, Inc. Motion sensing device. 2,789,190, 4-16-57, Cl. 201-48.
- Statham, Louis D., to Statham Laboratories, Inc. Pressure gage with temperature compensation. 2,807,167, 9-24-57, Cl. 73-398.
- Statham, Louis D., to Statham Laboratories, Inc. Liquid pressure operated electrical switch. 2,811,599, 10-29-57, Cl. 200-83.
- Stattelman, Arthur J. Confessional signalling system. 2,793,358, 5-21-57, Cl. 340-258.
- Stau, Elvert H., and R. F. Kolec, to Olympic Screw and Rivet Corp. Riveting tool. 2,794,567, 6-4-57, Cl. 218-42.
- Staubach, Otto: *See*—
Koepe, Robert J. 2,794,196.
- Stauber, Robert B., to Allis-Chalmers Mfg. Co. Vibrating ball mill having baffle plate for preventing short circuiting of material through the mill. 2,789,773, 4-23-57, Cl. 241-47.
- Stäubli, Heinrich H., to Gebr. Stäubli & Co. Double lift lobby. 2,815,044, 12-3-57, Cl. 139-71.
- Stauch, Johanna E. V. N.: *See*—
Pieper, Josef H. F., and Stauch. 2,805,253.
- Staude, E. G., Mfg. Co., Inc.: *See*—
Newell, William H. 2,807,465.
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- Stauder, Edwin G., $\frac{1}{2}$ to O. B. Stauder. Stabilizing system for vehicular power steering. 2,798,567, 7-9-57, Cl. 180-79.2.
- Stauder, Olive B.: *See*—
- Stauder, Edwin G. 2,798,567.
- Staudermann, Wilhelm: *See*—
- Frensch, Heinz, Goebel, Staudermann, and Finkenbrink. 2,799,685.
- Staudt, Anthony. Safety lifeboat release gear. 2,800,667, 7-30-57, Cl. 9-45.
- Stauffer, Charles E.: *See*—
- Mathews, Martin B., and Stauffer. 2,785,134.
- Mathews, Martin B., and Stauffer. 2,785,135.
- Stauffer Chemical Co.: *See*—
- Bender, Harry, and Obrecht. 2,806,769.
- Dorman, Stephen C., and Lindquist. 2,791,605.
- Ellis, Warren C., Jr. 2,800,491.
- Fancher, Llewellyn W. 2,793,224.
- Haimsohn, Jerome N. 2,790,828.
- Hurlburt, Harvey Z. 2,789,035.
- Mohr, Albert C. 2,792,297.
- Pitt, Harold M. 2,800,747.
- Pitt, Harold M. 2,807,648.
- Wiseman, James V. 2,784,056.
- Stauffer, Harry C.: *See*—
- Henke, Alfred M., and Stauffer. 2,791,332.
- Stauffer, William R.: *See*—
- Toulmin, Harry A., Jr., and Stauffer. 2,802,796.
- Staut, Martin. Contra angle attachments for dental hand pieces. 2,791,835, 5-14-57, Cl. 32-27.
- Stauton, John J., Jr., to Coleman Instruments, Inc. Null indicator for pH meter. 2,802,174, 8-6-57, Cl. 324-30.
- Stauss, Henry E., F. E. Martin, and D. S. Billington. Apparatus for determining elastic constants. 2,782,633, 2-26-57, Cl. 73-67.2.
- Stavert, Harry, to Boeing Airplane Co. Locks for jet thrust reversers. 2,780,057, 2-5-57, Cl. 60-35.4.
- Stavich, Steve, to Campbell Sash Works, Inc. Storm sash mounting. 2,799,890, 7-23-57, Cl. 16-172.
- Stavis, Gus, to General Precision Laboratory Inc. Microwave duplexer. 2,818,501, 12-31-57, Cl. 250-13.
- Stavnes, Sigward A., and J. M. Wilson, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,801,826, 8-6-57, Cl. 257-3.
- Sta-Warm Electric Co.: *See*—
- Birkner, Hugo E., Jr. 2,778,922.
- Stayart, Clara F.: *See*—
- Stayart, Irving L. 2,792,696.
- Stayart, Irving L., deceased, by the Northern Trust Co., and C. F. Stayart, executors, to Kayware Corp. Training cup for babies. 2,792,696, 5-21-57, Cl. 65-13.
- Stayner, Richard D.: *See*—
- Stayner, Robert A. and R. D., and Dimpel. 2,786,745.
- Stayner, Richard D., to California Research Corp. Polyoxo-propylene glycol disulfate detergent compositions. 2,802,789, 8-13-57, Cl. 252-138.
- Stayner, Robert A. and R. D., and L. H. Dimpel, to California Research Corp. Fuel oil. 2,786,745, 3-26-57, Cl. 52-0.5.
- Staynes, William N.: *See*—
- Ringham, Gordon B., and Staynes. 2,796,681.
- Ste: *See*—
- Anciens Etablissements A Savy, Jeanjean & Cie: *See*—
- Dumas, Albert. 2,801,598.
- Ste: *See*—
- Baker Perkins Ltd.: *See*—
- Dumas, Albert. 2,801,598.
- Ste. Jaruza A. G. Chur: *See*—
- Dru, Marcel. 2,798,606.
- Steadman, Clifford S., and E. J. Skinner, to Smiths America Corp. Heating and ventilating systems for vehicles. 2,794,601, 6-4-57, Cl. 237-12.3.
- Steadman, Thomas R.: *See*—
- Gabbett, James F., Jr., and Steadman. 2,805,244.
- Robertson, Nat C., and Steadman. 2,811,546.
- Steadman, Thomas R., to Escambia Chemical Corp. Production of α -hydroxy isobutyric and methacrylic acids and their esters. 2,811,545, 10-29-57, Cl. 260-486.
- Steadman, Thomas R., and J. F. Gabbett, Jr., to Escambia Chemical Corp. Production of acrylonitrile. 2,780,639, 2-5-57, Cl. 260-465.3.
- Steadman, Thomas R., and J. F. Gabbett, Jr., to Escambia Chemical Corp. Hydration of acetylene and catalyst therefor. 2,810,764, 10-22-57, Cl. 260-605.
- Steagall, William F., to Sperry Rand Corp. Phase responsive bistable devices. 2,783,456, 2-26-57, Cl. 340-174.
- Steagall, William F., to Sperry Rand Corp. Pulse stretcher. 2,797,339, 6-25-57, Cl. 307-88.
- Stealey, Everett F.: *See*—
- Boehm, Joseph J., and Stealey. 2,818,021.
- Steam-Cote Corp.: *See*—
- Vessels, Theodore R. 2,795,406.
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- Stearns, Dick E. Spray head. 2,785,013, 3-12-57, Cl. 299-126.
- Stearns & Foster Co., The: *See*—
- Kaufman, Elbert L., and Spellmire. 2,788,547.
- Stearns, Harry C. Carburetor. 2,801,623, 8-6-57, Cl. 123-119.
- Stearns, Howard E. Side outlets for above-ground irrigation pipes. Re. 24,264, 1-8-57, Cl. 251-145.
- Stearns, Robert L.: *See*—
- Kubico, Michael A., MacDonald, Stearns, and Wolff. 2,810,708.
- Steatite Research Corp.: *See*—
- Kleppinger, Willis D. 2,796,843.
- Steber, Joseph F., 50% to M. M. Scharf. Machine for grading pickles or the like. 2,813,627, 11-19-57, Cl. 209-102.
- Stec, Anthony P., to M. A. Stec. Gravitational switch. 2,780,688, 2-5-57, Cl. 200-61.52.
- Stec, Mary A.: *See*—
- Stec, Anthony P. 2,780,688.
- Stech, William G. Switch unit. 2,799,785, 7-16-57, Cl. 307-112.
- Stecher, Karl. Hand tool. 2,813,278, 11-19-57, Cl. 7-14.1.
- Steck, Edgar A., to Sterling Drug Inc. 3,6-bis (di-lower-alkyl-amino) pyridazines and preparation thereof. 2,785,161, 3-12-57, Cl. 260-250.
- Steck, George L. Threadless nut with resiliently connected base portions. 2,798,405, 7-9-57, Cl. 85-36.
- Steck, George L. Slide fastener having resiliently connected base portions. 2,798,406, 7-9-57, Cl. 85-36.
- Stecker, Carl G. Automatic form tool holder for lathes. 2,811,885, 11-5-57, Cl. 82-24.
- Stecker, Walter J., to Wagner Electric Corp. Testing device for hollow articles. 2,806,371, 9-17-57, Cl. 73-49.2.
- Steckler, Robert: *See*—
- Werner, Jesse, Steckler, and Hessel. 2,809,953.
- Werner, Jesse, Steckler, and Hessel. 2,813,844.
- Steczynski, Myron E. Gauge for threads. 2,805,487, 9-10-57, Cl. 33-199.
- Stedfast Rubber Co.: *See*—
- Harrison, Raymond B., and Edwards. 2,780,879.
- Steding, Arthur, and H. Hartewig, to Didier-Kogag-Hinselmanna, Koksofenbau und Gasverwertung A. G. Regenerative coke oven structure. 2,781,302, 2-12-57, Cl. 202-141.
- Stedman, Donald F., to National Research Council. Composition for maintaining clear vision in windshields. 2,777,772, 1-15-57, Cl. 106-13.
- Stedman, Donald F., to National Research Council. Antifog materials and method of producing the same. 2,803,552, 8-20-57, Cl. 106-13.
- Stedman, Frances E., and R. C. Pocock, to Bendix Aviation Corp. Friction lining compositions. 2,784,105, 3-5-57, Cl. 106-36.
- Stedry, Paul J., to Minnesota Mining & Mfg. Co. Vulcanized fluoroacrylate polymers. 2,811,501, 10-29-57, Cl. 260-41.
- Steel Ceilings, Inc.: *See*—
- Kendall, Fred E., and Golar. 2,813,804.
- Kendall, Fred E., and Wagner. 2,813,805.
- Steel Co. of Ohio: *See*—
- Rader, Merrill E. 2,779,507.
- Steel Co. of Wales Ltd., The: *See*—
- Turpin, Geoffrey E. 2,778,616.
- Steel Heddle Mfg. Co.: *See*—
- Kaufmann, Frank H. 2,788,021.
- Kaufmann, John J. 2,796,083.
- Steelcase Inc.: *See*—
- Bullock, Earle C. 2,794,690.
- Steele, Alvin B. Combination door and latch control mechanism for motor vehicles. 2,787,461, 4-2-57, Cl. 268-3.
- Steele, Arthur B., to Union Carbide Corp. Process for the preparation of 1-(2-hydroxyethyl) imidazolidine-2. 2,812,333, 11-5-57, Cl. 260-309.7.
- Steele, Berlin M.: *See*—
- Walters, George F., and Steele. 2,780,394.
- Steele, Bruce B., and L. G. Schantz; said Schantz assor. to said Steele. Powder dispenser. 2,779,512, 1-29-57, Cl. 222-307.
- Steele, Carlton A., to Universal Winding Co. Apparatus for twisting and winding. 2,803,939, 8-27-57, Cl. 57-58.65.
- Steele, Edson B., deceased, by J. M. Steele, administratrix, to Joy Mfg. Co. Fluid operated shovel. 2,778,127, 1-22-57, Cl. 37-103.
- Steele, Edson B., deceased, by J. M. Steele, administratrix, to Joy Mfg. Co. Shovel loading mechanism for shuttle cars. 2,795,342, 6-11-57, Cl. 214-78.
- Steele, Floyd G., to Digital Control Systems, Inc. Correlation of flip-flop and diode gating circuitry. 2,807,716, 9-24-57, Cl. 250-27.
- Steele, Floyd G., to Digital Control Systems, Inc. Magnetic memory channel recirculating systems. 2,815,498, 12-3-57, Cl. 340-174.
- Steele, Henry B., Jr. Combination work bench and tool chest. 2,791,251, 5-7-57, Cl. 144-285.
- Steele, Horace M., to Model Engineering & Mfg., Inc. Hydraulic speed control valve. 2,777,426, 1-15-57, Cl. 121-46.5.
- Steele, John C. Static charge indicator. 2,784,376, 3-5-57, Cl. 324-62.
- Steele, Julia M.: *See*—
- Steele, Edson B. 2,778,127.
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- Steele, Laverne E., to R. D. and B. K. Huffman. Combination lunch box and purse. 2,801,666, 8-6-57, Cl. 150-34.
- Steele, Marie J. Industrial gas purifier. 2,793,847, 5-28-57, Cl. 261-89.
- Steele, Martin C., to Radio Corp. of America. Semiconductor null detector. 2,816,283, 12-10-57, Cl. 340-282.
- Steele, Maurice G., to Rome Cable Corp. Method and apparatus for joining wires by brazing. 2,796,511, 6-18-57, Cl. 219-85.
- Steele, Myra, L. Release device for gripping tools. 2,787,182, 4-2-57, Cl. 81-370.

- Steele, Owen S., to The British Thomson-Houston Co. Ltd. Arc furnace control system. 2,794,142, 5-28-57, Cl. 314-71.
- Steele, Owen S., and I. S. Robertson, to The British Thomson-Houston Co. Ltd. Electric arc furnaces. 2,809,319, 10-8-57, Cl. 314-75.
- Steele, Richard B., to Air Reduction Co., Inc. Method and apparatus for dynamic braking. 2,784,366, 3-5-57, Cl. 318-379.
- Steele, Richard B., R. E. Purkhiser, and N. E. Anderson, to Air Reduction Co., Inc. Method and apparatus for electric arc welding. 2,777,973, 1-15-57, Cl. 315-171.
- Steele, Richard G. Two piece shoe heel. 2,807,101, 9-24-57, Cl. 36-36.
- Steele, Richard E.: See—
Blackburn, Andrew R., Tucker, and Steele. 2,810,234.
- Steele, Roger C., and E. L. Rule, to California Reinforced Plastics Co., now by change of name Hexcel Products Inc. Method of expanding honeycomb. 2,790,207, 4-30-57, Cl. 18-56.
- Steele, Tracey F.: See—
Cyr, Howard M., Siller, and Steele. 2,796,340.
- Steele, Vernon P., to Kenco Products Corp. Lock means for pump chambers of fluid dispensing pumps. 2,797,849, 7-2-57, Cl. 222-340.
- Steele, William E. Nail side trimming devices. 2,801,640, 8-6-57, Cl. 132-75.4.
- Steelman Products Corp.: See—
Schultz, William L. 2,815,802.
- Steelman, Sanford L., to Armour and Co. Preparation of adrenocorticotropin and gonadotropins from pituitary material. 2,799,621, 7-16-57, Cl. 167-74.
- Steen, Carl A. Electric steam generating device. 2,791,672, 5-7-57, Cl. 219-40.
- Steen, Carl A. Electric steam boiler. 2,812,416, 11-5-57, Cl. 219-40.
- Steenek, Robert, to The Western Union Telegraph Co. Self-adjusting auxiliary bearing. 2,783,100, 2-26-57, Cl. 308-15.
- Steenland, Richard H. Display device. 2,783,564, 3-5-57, Cl. 40-96.
- Steep, Charles P. Artificial arms. 2,790,976, 5-7-57, Cl. 3-12.5.
- Steer, John C.: See—
Gaudet, Leo, Nesbitt, and Steer. 2,787,954.
- Stefan, Celestinus J.: See—
Howe, Jack E., and Stefan. 2,790,537.
- Stefan, Celestinus J. Hydraulic mechanism valve. 2,785,661, 3-19-57, Cl. 121-150.
- Stefan, Joseph P. Automatic transmissions. 2,792,722, 5-21-57, Cl. 74-688.
- Stefani, Don J.: See—
Tuomala, Leon A. 2,813,053.
- Stefani, Roy I.: See—
Tuomala, Leon A. 2,813,053.
- Stefanik, John. Salesmen's sample tray for ceramic and other fragile objects. 2,784,840, 3-12-57, Cl. 206-72.
- Steffanus, Emil E. Nail puller. 2,796,232, 6-18-57, Cl. 254-20.
- Steffen, Arnold M. Stereoscopic camera. 2,778,288, 1-22-57, Cl. 95-18.
- Steffen, Raymond A., to The Champion Paper and Fibre Co. Laminating method and apparatus. 2,800,946, 7-30-57, Cl. 154-37.
- Steffen, Vincent B. Base for steel storage bin. 2,818,009, 12-31-57, Cl. 98-55.
- Steffen, William F.: See—
Perkins, Origen S., and Steffen. 2,812,872.
- Steffenhagen, Lee C.: See—
Lorimer, James P., and Steffenhagen. 2,779,368.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Ophthalmoscope. 2,777,356, 1-15-57, Cl. 88-22.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Spectacle frame having combined metallic and non-metallic parts. 2,777,361, 1-15-57, Cl. 88-41.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Spectacle case. 2,777,489, 1-15-57, Cl. 150-1.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Device for attaching magnifiers to spectacles. 2,796,803, 6-25-57, Cl. 88-41.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Attaching clip for spectacle cases. 2,800,695, 7-30-57, Cl. 24-3.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Electrical connector. 2,801,396, 7-30-57, Cl. 339-97.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Ophthalmic lens demonstrator. 2,806,404, 9-17-57, Cl. 88-20.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Spectacle frames. 2,806,407, 9-17-57, Cl. 88-41.
- Stegeman, Werner G., to H. C. Christiansen. Arrangement for starting air cooled internal combustion engines. 2,799,264, 7-16-57, Cl. 123-179.
- Stegemeier, Richard J., and G. P. Maly, to Union Oil Co. of California. Indicating and plugging apparatus for oil wells. 2,814,947, 12-3-57, Cl. 73-155.
- Stegemeyer, Lou A.: See—
Aylesworth, Robert D., and Stegemeyer. 2,795,492.
- Stegemeyer, Lou A., to Emery Industries, Inc. Fatty acid mixtures and soaps derived therefrom. 2,792,347, 5-14-57, Cl. 252-108.
- Steger Products Mfg. Corp.: See—
Larsen, Harvey E. 2,780,041.
- Steger, Werner H. Coil winding machine. 2,780,246, 2-5-57, Cl. 140-92.2.
- Stegmann, Ernst, to Emil Schenker A. G. Method and apparatus for coiling thermoplastic material. 2,796,631, 6-25-57, Cl. 18-11.
- Stegmann, Ernst, to Emil Schenker A. G. Production of helical springs having face-ground ends. 2,810,993, 10-29-57, Cl. 51-105.
- Stegner, Albert L. Method for attaching an electrical conductor to a buried metal object. 2,816,354, 12-17-57, Cl. 29-407.
- Stehlik, William. Anti-glare shade for automobile windshields. 2,791,272, 5-7-57, Cl. 160-290.
- Steidley, Virgil K., to The Apex Electrical Mfg. Co. Operational cycle for dishwashers. 2,781,765, 2-19-57, Cl. 134-57.
- Steidley, Virgil K., to Gorman-Rupp Industries, Inc. Transfer valve assembly. 2,807,275, 9-24-57, Cl. 137-122.
- Steierman, Bernard L.: See—
Heer, William G. N., and Steierman. 2,793,472.
- Steiger, Fred H., and J. P. Shelley, to Rohm & Haas Co. Treated textile material and method of producing the same. 2,803,563, 8-20-57, Cl. 117-138.8.
- Steiger, Hermann. Mechanical regulator for clockwork. 2,808,698, 10-8-57, Cl. 58-116.
- Steiger, Norbert, to Hoffmann-La Roche Inc. 2-lower-alkyl-sulfinyl-6-lower alkoxy-benzothiazole. 2,777,852, 1-15-57, Cl. 260-306.
- Steiger, Norbert, to Hoffmann-La Roche Inc. Mercapto benzothiazole compounds. 2,777,853, 1-15-57, Cl. 260-306.
- Steigerwald, John R., to The Goodyear Tire & Rubber Co. Anti-skid brake system for aircraft landing gear. 2,799,462, 7-16-57, Cl. 244-111.
- Steigerwald, Karl H., to C. Zeiss. Drilling by electrons. 2,793,281, 5-21-57, Cl. 219-69.
- Steigerwald, Karl H., to C. Zeiss. Forming spherical bodies by electrons. 2,793,282, 5-21-57, Cl. 219-69.
- Steigman, Israel N. Synchronizing attachment for picture projectors and sound recorders. 2,782,677, 2-26-57, Cl. 88-16.2.
- Steil, Karl-Heinz: See—
Wolfram, Arthur, Steil, and Agunte. 2,790,822.
- Steimann, Hans. Small clock. 2,814,927, 12-3-57, Cl. 58-53.
- Steimel, Karl, to Telefunken Gesellschaft fuer drahtlose Telegraphie G. m. b. H. Magnetron tube structure. 2,817,789, 12-24-57, Cl. 315-39.53.
- Stein, A., & Co.: See—
Larson, Andrew D. 2,806,590.
- Stein, Albert L. Portable receptacle. 2,784,869, 3-12-57, Cl. 220-96.
- Stein Bros. Mfg. Co.: See—
Bishaf, Morris. 2,798,292.
Bishaf, Morris. 2,803,864.
Bishaf, Morris. 2,805,476.
Towne, Claude M. 2,794,251.
- Stein, Eberhard, H.-F. Rickert, and G. Pieper, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of titanium dichloride and zirconium dichloride. 2,816,817, 12-17-57, Cl. 23-87.
- Stein, Elmer L., to Eye-Beam Displays, Inc. Demountable display panel and easel combination. 2,805,504, 9-10-57, Cl. 40-125.
- Stein, Emanuel: See—
Thomas, Harry E., and Stein. 2,797,341.
- Stein, Emanuel, to International Telephone and Telegraph Corp. Waveform monitor. 2,817,043, 12-17-57, Cl. 315-23.
- Stein, Emanuel, and F. H. Numrich, to International Telephone and Telegraph Corp. Protective circuit. 2,810,858, 10-22-57, Cl. 315-20.
- Stein, Fred G.: See—
Baril, Samuel J., and Stein. 2,782,482.
- Stein, Frederick W., and E. L. Blair. Photoelectric attachment for scales and the like. 2,808,582, 10-1-57, Cl. 340-282.
- Stein, Harry J., to Atlantic Coast Line Railroad Co. Decks for freight vehicles. 2,794,403, 6-4-57, Cl. 105-422.
- Stein, Leonhard: See—
Ehrhart, Gustav, and Stein. 2,794,024.
- Stein, Louis E. Car tray. 2,807,513, 9-24-57, Cl. 311-22.
- Stein, Martin: See—
Siegel, Philip G., and Stein. 2,808,590.
- Stein, Norman, to Standard Oil Co. Process for producing ethylxylene and meta xylene. 2,803,686, 8-20-57, Cl. 260-674.
- Stein, Romar E.: See—
Weil, Frederick M., Ingalsbe, Stein, and McCann. 2,786,198.
Weil, Frederick M., Stein, and McCann. 2,800,657.
- Stein, Samuel F. Buckle. 2,783,516, 3-5-57, Cl. 24-176.
- Stein, Samuel F. Textiles. 2,793,370, 5-28-57, Cl. 2-243.
- Stein, Victor J.: See—
Nowogrodzki, Markus, and Stein. 2,788,490.
- Stein, Werner: See—
Raecke, Bernhard, Stein, and Schirp. 2,794,830.

- Stein, Werner, to Henkel & Cie, G. m. b. H. Method for the separation of water-insoluble dicarboxylic acids from their mixtures with other water-insoluble materials. 2,798,093, 7-2-57, Cl. 260—537.
- Stein, Werner, and H. Hartmann, to Henkel & Cie, G. m. b. H. Separation of high molecular organic compound mixtures. 2,800,493, 7-23-57, Cl. 260—419.
- Stein, Werner, and H. Hartmann, to Henkel & Cie, G. m. b. H. Process for the conversion of soaps of unsaturated into soaps of saturated fatty acid. 2,806,869, 9-17-57, Cl. 260—413.
- Stein, William B. Tool adjusting wrench. 2,817,258, 12-24-57, Cl. 81—71.
- Steinbach, Emil C., to C. P. Peirce. Expanding mandrel for recording belt. 2,800,332, 7-23-57, Cl. 274—40.
- Steinberg, David S., and H. A. Kusnetz, to Clark Equipment Co. Guide handle brake control for lift trucks. 2,788,093, 4-9-57, Cl. 188—119.
- Steinberg, Fritz: *See*—
Becker, Gottfried, and Steinberg. 2,791,517.
- Steinberg, Meyer. Multiple suction coaster for beverage glasses and the like. 2,782,948, 2-26-57, Cl. 215—100.5.
- Steinberg, Morris A., to Horizons Inc. Soldering flux composition and method of soldering with same. 2,817,894, 12-31-57, Cl. 29—495.
- Steinberg, Morris A., and E. Wainer, to Horizons Titanium Corp. Production of a mutual solid solution of TiC and TiO . 2,792,310, 5-14-57, Cl. 106—43.
- Steinberg, Morris A., and A. A. Topinka, to Horizons Titanium Corp. Production of titanium by fused salt electrolysis. 2,813,068, 11-12-57, Cl. 204—64.
- Steinberg, Richard K., to International Business Machines Corp. Carry circuit for parallel operated accumulator. 2,785,859, 3-19-57, Cl. 235—133.
- Steinbock, Edmund A.: *See*—
Steinbock, Edmund A., Jr., and Meiman. 2,777,177.
- Steinbock, Edmund A., Jr., and R. Meiman, to E. A. Steinbock. Investment mixer. 2,777,177, 1-15-57, Cl. 22—35.
- Steinbock, Edmund A., Jr. Sterilizer tray. 2,786,245, 3-26-57, Cl. 21—105.
- Steinbock, Edmund A., Jr. Sterilizer. 2,806,123, 9-10-57, Cl. 219—44.
- Steinbock G. m. b. H.: *See*—
Paul, Adolf. 2,798,729.
- Steinbright, John L.: *See*—
Hance, Richard J., Spengel, Vandeventer, and Steinbright. 2,815,500.
- Steinbuch, Karl, to International Standard Electric Corp. Circuit arrangement to change the characteristic curve of multi-electrical tubes. 2,806,154, 9-10-57, Cl. 307—88.5.
- Steinemann, Willy: *See*—
Grandjean, Philippe, Kappeler, Schneider, Steinemann, and Wehrli. 2,817,654.
- Grandjean, Philippe, Kehrler, Schneider, Steinemann, and Kappeler. 2,813,852.
- Steinemann, Willy, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Monoazo dyestuffs and metal complex compounds thereof. 2,813,853, 11-19-57, Cl. 260—145.
- Steinemann, Willy, and W. Wehrli, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Azo dyestuffs. 2,813,856, 11-19-57, Cl. 260—174.
- Steiner, Alois. Compacts, vanity cases and the like. 2,796,874, 6-25-57, Cl. 132—83.
- Steiner, Alois. Soldering mechanism. 2,808,015, 10-1-57, Cl. 113—61.
- Steiner, Carl J. Fishhook release implement. 2,781,599, 2-19-57, Cl. 43—53.5.
- Steiner, Fritz, and E. Dinstl, to International Standard Electric Corp. Operating mechanism. 2,780,105, 2-5-57, Cl. 74—10.7.
- Steiner, Harry, to Corde De Parie Corset Co., Inc. Brassiere and girdle construction. 2,786,206, 3-26-57, Cl. 2—42.
- Steiner, Helen J. Cube sugar process and product. 2,807,559, 9-24-57, Cl. 127—30.
- Steiner, Klaus: *See*—
Himmelheber, Max, Steiner, and Kull. 2,796,094.
- Steiner, Louis, to Mills Industries, Inc. Coin operated release mechanism and changemaker for freeing a selective dispensing device for operation. 2,777,554, 1-15-57, Cl. 194—2.
- Steiner, Phillip F., to International Harvester Co. Reversible drive for engine fans. 2,788,775, 4-16-57, Cl. 123—41.46.
- Steiner, Robert H.: *See*—
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- Steiner, Rudolf, to Mawera Maschinen-Werkzeuge-Apparate-G. m. b. H. Edge trimming attachment and fence adjusting means for planar tables. 2,782,817, 2-26-57, Cl. 144—117.
- Steiner, Rudolf, to Harry Williams Mfg. Co. Circuit breaker mechanism. 2,792,470, 5-14-57, Cl. 200—106.
- Steiner, Rudolf, to the United States of America as represented by the Secretary of the Navy. Circuit breaker. 2,810,802, 10-22-57, Cl. 200—87.
- Steinhardt, Irving H. Game boards. 2,779,598, 1-29-57, Cl. 273—132.
- Steinhauser, Armin H.: *See*—
Franer, Victor R., and Steinhauser. 2,785,087.
- Steinhilber, Norman, to Boyle-Midway Inc. Art of forming flakes. 2,803,906, 8-27-57, Cl. 41—34.
- Steiniger, Herman W., to The Bauer Bros. Co. Thrust bearing and seal. 2,779,638, 1-29-57, Cl. 308—187.
- Steinitz, Robert, to Borolite Corp. Brazing of molybdenum and tungsten and brazed structures produced thereby. 2,775,809, 1-1-57, Cl. 29—198.
- Steinitz, Robert, to Borolite Corp. Ternary metal boride compositions. 2,776,468, 1-8-57, Cl. 29—182.5.
- Steinitz, Robert, to Schwarzkopf Development Corp. Conveyor for high temperature furnaces. 2,779,579, 1-29-57, Cl. 263—8.
- Steinitz, Robert, to Schwarzkopf Development Corp. High temperature furnaces and their production. 2,779,580, 1-29-57, Cl. 263—41.
- Steinitz, Stephan, to Vickers, Inc. Power transmission. 2,807,753, 9-24-57, Cl. 315—259.
- Steinitz, Stephan, to Vickers, Inc. Power transmission. 2,807,754, 9-24-57, Cl. 315—259.
- Steinke, Carl J.: *See*—
Gustafson, Gilbert E., and Steinke. 2,796,601.
- Steinman, Leo E. Clutch controlling tractor hitch. 2,808,119, 10-1-57, Cl. 180—14.5.
- Steinman, Robert, and W. F. Eberz, to Alexander H. Kerr and Co., Inc. Process of coloring of glass fabrics. 2,778,746, 1-22-57, Cl. 117—76.
- Steinmann, Robert, to General Motors Corp. Journal boxes. 2,814,536, 11-26-57, Cl. 308—41.
- Steinmann, Wilhelm, to Ateliers de Constructions Mecaniques de Vevey S. A. Filter presses. 2,797,813, 7-2-57, Cl. 210—331.
- Steinmetz, Floyd, to Burke Mfg. Co. Slicing machine. 2,807,299, 9-24-57, Cl. 146—78.
- Steinmetz, Walter E., to National Aluminate Corp. Method of destroying vegetation. 2,789,044, 4-16-57, Cl. 71—2.7.
- Steinmuller, L. & C. G. m. b. H.: *See*—
Fikenscher, Friedrich. 2,803,439.
- Steinmueller, Ralph E.: *See*—
Dieter, Harry W., and R. E. and Steinmueller. 2,791,120.
- Steinschlaeger, Michael. Process for the manufacture of carbon black. Re. 24,315, 5-14-57, Cl. 23—209.4.
- Steirly, Albert R., deceased, by L. S. Rozzell, administratrix, to American Iron & Machine Works Co., Inc. Slush pump valve. 2,786,485, 3-26-57, Cl. 137—533.25.
- Steisslinger, Kurt A.: *See*—
Harter, Paul G., and Steisslinger. 2,780,348.
- Steitz, Alfred, Jr., to Stanolind Oil and Gas Co. Method for purification of alcohols. 2,783,190, 2-26-57, Cl. 202—39.5.
- Steitz, George, to Moloney Electric Co. Baffled header manifold for cooling systems of transformers. 2,811,217, 10-29-57, Cl. 183—2.5.
- Steller, John M. Outboard motor mountings. 2,808,218, 10-1-57, Cl. 248—4.
- Stelling, Per O., and I. G. M. Pereswetoff-Morath; said Pereswetoff-Morath assor. to said Stelling. Process of treating pulverulent iron oxides. 2,780,537, 2-5-57, Cl. 75—26.
- Stelling, Per O., and G. L. Flemmert, to Helsingborgs Gummi-fabriks Aktiebolag. Method for the production of finely divided silicon dioxide. 2,798,792, 7-9-57, Cl. 23—182.
- Stelljes, Charles R., to The Murray Corp. of America. Clutch with under cut teeth. 2,788,101, 4-9-57, Cl. 192—28.
- Stellmacher, Donald D., and O. B. Dutton, to Hoffman Electronics Corp. Pulse integrator and amplifier circuits or the like. 2,802,942, 8-13-57, Cl. 250—27.
- Stellmacher, Donald D., and R. C. Danta, to Hoffman Electronics Corp. Shutters for atomic radiation detectors or the like. 2,806,147, 9-10-57, Cl. 250—105.
- Stellpflug, August W., and W. E. Tait, to The Lionel Corp. Stereo-photographic methods and apparatus. 2,778,289, 1-22-57, Cl. 95—18.
- Stelma, Inc.: *See*—
Carver, Lawrence M. 2,808,457.
- Stelmak, John P., to Radio Corp. of America. Cathode and cathode connector. 2,810,852, 10-22-57, Cl. 313—332.
- Stelter, Francis C. W. Container for valuables with alarm system. 2,797,405, 6-25-57, Cl. 340—280.
- Stelzel, Roderick W.: *See*—
Troeger, Henry, and Stelzel. 2,807,342.
- Stelzer, Carl, to Kurt Korber & Co. K.-G. Conveyor mechanism for cigarette making machines. 2,781,886, 2-19-57, Cl. 198—33.
- Stelzer, Carl, to Kurt Korber & Co. K.-G. Machines for producing filter tip cigarettes. 2,808,059, 10-1-57, Cl. 131—94.
- Stelzer, Earl E.: *See*—
Parker, Edwin D., and Stelzer. 2,782,434.
- Parker, Edwin D., and Stelzer. 2,801,862.
- Stelzer, Roland B.: *See*—
Herzog, Gerhard, and Stelzer. 2,786,661.
- Loofbourrow, Robert J., Stelzer, and Scotty. 2,795,377.
- Stelzer, Roland B., and G. Herzog, to The Texas Co. Conductive barriers. 2,793,805, 5-28-57, Cl. 235—61.
- Stelzer, William. Control means for hydraulic elevators. 2,782,599, 2-26-57, Cl. 60—52.
- Stelzer, William. Moving stairways. 2,794,531, 6-4-57, Cl. 198—16.
- Stelzer, William. Booster brake mechanism. 2,796,154, 6-18-57, Cl. 188—152.
- Stelzer, William. Weighing scales. 2,796,252, 6-18-57, Cl. 265—48.

- Stelzer, William. Hydraulic elevators. 2,797,550, 7-2-57, Cl. 60-52.
- Stelzer, William, and W. Eickele, said Stelzer assignor to said Eickele. Dispensing faucets. 2,777,675, 1-15-57, Cl. 259-8.
- Stem, Donald E. Magnetic separators for ducts. 2,781,128, 2-12-57, Cl. 209-223.
- Stember, Bernard, to Aristocrat Leather Products, Inc. Handbag, purse or the like. 2,802,501, 8-13-57, Cl. 150-36.
- Stempel, Guido H., Jr., to The General Tire and Rubber Co. Nuclear disubstituted isopropenyl benzenes. 2,816,934, 12-17-57, Cl. 260-650.
- Stempel, Laszlo M., to John Waldron Corp. Rotary offset printing press roll support. 2,778,303, 1-22-57, Cl. 101-218.
- Stempel, Laszlo M., to John Waldron Corp. Printing blanket mounting and tensioning apparatus. 2,793,588, 5-28-57, Cl. 101-415.1.
- Sten, Adolph W. Cutting tool. 2,800,041, 7-23-57, Cl. 77-58.
- Sten, Leonard L. Leg attachment for bed springs. Re. 24,392, 11-19-57, Cl. 5-310.
- Sten, Leonard L. Leg attachment for bed springs. 2,779,952, 2-5-57, Cl. 5-310.
- Stenberg, Sven G. Disc cutter provided with segmental bits. 2,811,185, 10-29-57, Cl. 144-234.
- Stenchever, Charles, and F. Mastandrea. Manually actuated non-yielding clutch. 2,778,465, 1-22-57, Cl. 192-18.
- Stene, Manfred: *See—*
- Killian, Stanley C., and Stene. 2,778,894.
- Stene, Manfred, to H. K. Porter Co., Inc. of Pittsburgh. Oscillation dampener. 2,816,752, 12-17-57, Cl. 267-1.
- Stenerson, Charles K., to Motorola, Inc. Timing circuit. 2,789,256, 4-16-57, Cl. 317-139.
- Stenger, August M., to Ingersoll-Rand Co. Retainer for a member on a shaft. 2,787,482, 4-2-57, Cl. 287-52.05.
- Stenger, George D., 50% to M. D. Stenger. Boring tool holder. 2,804,786, 9-3-57, Cl. 77-58.
- Stenger, Morris D.: *See—*
- Stenger, George D. 2,804,786.
- Stenger, Richard C., to Baljak Corp. Lined frozen food boxes. 2,785,845, 3-19-57, Cl. 229-36.
- Stenning, Luis C., to The General Electric Co. Ltd. Electrical signalling systems. 2,786,900, 3-26-57, Cl. 179-171.
- Stenstrom, John A.: *See—*
- Gorham, William F., and Stenstrom. 2,778,862.
- Stenzel, Fritz M. B., to Machine Tool Works Oerlikon, Administration Co. Self-supporting shell for flying body. 2,817,484, 12-24-57, Cl. 244-119.
- Stephan Chemical Co., The: *See—*
- Sullivan, Vincent A., Jr., and Smedslund. 2,818,388.
- Stephan, Elmer F., and G. A. Lutz, to the United States of America as represented by the United States Atomic Energy Commission. Recovery of uranium from aqueous phosphate containing solutions. 2,795,480, 6-11-57, Cl. 23-14.5.
- Stephan, Hans J., and W. Koehler, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Recovery of maleic anhydride. 2,812,037, 11-5-57, Cl. 183-120.
- Stephan, Paul G., to E. I. du Pont de Nemours and Co. Separation apparatus. 2,807,998, 10-1-57, Cl. 100-121.
- Stephanou, Stephen E., to E. I. du Pont de Nemours and Co. Preparation of monopersulfates. 2,802,722, 8-13-57, Cl. 23-114.
- Stephanski, Robert G. Brake systems. 2,814,532, 11-26-57, Cl. 303-84.
- Stephens-Adamson Mfg. Co.: *See—*
- Kendall, Myron A., and Sinden. 2,782,896.
- King, William F. 2,804,191.
- Sinden, Alfred D. 2,794,540.
- Wells, Fred S. 2,805,752.
- Stephens, Arthur V. Solid boundary surface for contact with a relatively moving fluid medium. 2,800,291, 7-23-57, Cl. 244-41.
- Stephens, Charles D. Reel and ferrule lock for fishing rods. 2,793,458, 5-28-57, Cl. 43-22.
- Stephens, Charles R., Jr., to Chas. Pfizer & Co., Inc. Desdimethylaminotetracyclines and process. 2,786,077, 3-19-57, Cl. 260-559.
- Stephens, Donald H.: *See—*
- Browne, James H., and Stephens. 2,800,563.
- Stephens, James S. Straightening device. 2,786,242, 3-26-57, Cl. 20-38.
- Stephens, Joseph E., and G. W. Kerr, to Gustin-Bacon Mfg. Co. Insulated duct. 2,790,464, 4-30-57, Cl. 138-76.
- Stephens, Joseph F., to Minnesota Mining and Mfg. Co. Process for producing fibrous tubes. 2,783,174, 2-26-57, Cl. 154-83.
- Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Readily mountable pipe covering. 2,784,129, 3-5-57, Cl. 154-44.
- Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Method for molding fiber reinforced plastic articles. 2,803,043, 8-20-57, Cl. 18-58.
- Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Process for producing superline glass fibers. 2,814,832, 12-3-57, Cl. 18-47.3.
- Stephens, Joseph F., and G. W. Kerr, to Gustin-Bacon Mfg. Co. Pipe joint covering and method of making the same. 2,778,405, 1-22-57, Cl. 154-28.
- Stephens, Joseph F., and G. W. Kerr, to Gustin-Bacon Mfg. Co. Thermal pipe insulation. 2,778,759, 1-22-57, Cl. 154-44.
- Stephens, Joseph F., M. W. Coble, and G. H. Sowers, to Gustin-Bacon Mfg. Co. Fiber cutting machine. 2,804,143, 8-27-57, Cl. 164-61.
- Stephens, Robert E.: *See—*
- Struble, Charles H., and Stephens. 2,787,550.
- Stephens, Ronald J.: *See—*
- Treganowan, Bernard E., and Stephens. 2,796,889.
- Stephens, Samuel J., and T. D. Flow. Tandem axle construction for trailer trucks and other vehicles. 2,800,338, 7-23-57, Cl. 280-104.5.
- Stephens, Wilbur E.: *See—*
- Ackerman, Robert W., and Stephens. 2,789,328.
- Stephens, William E.: *See—*
- Zogg, Alvin A., and Stephens. 2,789,778.
- Stephens, William T., to The Parker Appliance Co. Valve mechanism for hydraulically operated motors. 2,783,745, 3-5-57, Cl. 121-46.5.
- Stephenson, Alpha W., and E. H. Dycewicz, to Saginaw-Industries Co. Knock-down shelving. 2,790,559, 4-30-57, Cl. 211-136.
- Stephenson, Charles F.: *See—*
- Stiner, Stewart, Stephenson, and Howell. 2,787,402.
- Stephenson, Earl P. Automatic low pressure safety valve. 2,809,657, 10-15-57, Cl. 137-464.
- Stephenson, George M. Fish scaling device. 2,795,006, 6-11-57, Cl. 17-7.
- Stephenson, Hugh M., to General Electric Co. Controlled gradient spring cartridge. 2,807,458, 9-24-57, Cl. 267-1.
- Stephenson, Ivan: *See—*
- Fennimore, Marion H., and Stephenson. 2,817,976.
- Stephenson, James R. Card shuffler and dealer. 2,778,644, 1-22-57, Cl. 273-149.
- Stephenson, John G., to the United States of America as represented by the Secretary of the Air Force. Stable local oscillator. 2,799,778, 7-16-57, Cl. 250-36.
- Stephenson, Norman: *See—*
- Taylor, Tristram A., Macfarlane, and Stephenson. 2,781,005.
- Stephenson, Paul A., to Continental Can Co., Inc. Adjustable cup dispenser. 2,780,388, 2-5-57, Cl. 221-44.
- Stephenson, Robert W., to California Research Corp. Production of fumaric acid. 2,816,922, 12-17-57, Cl. 260-537.
- Stephenson, Robert W., to California Research Corp. Conversion of maleic acid to fumaric acid. 2,816,923, 12-17-57, Cl. 260-537.
- Stephenson, Samuel H.: *See—*
- Shouts, James G., and Stephenson. 2,781,696.
- Stepp, Richard D.: *See—*
- Shields, George B., and Stepp. 2,817,117.
- Sterer Engineering & Mfg. Co.: *See—*
- Scherer, Bernard F. 2,804,093.
- Sterick, Harrison D., and W. E. Schmertz. Ingot mold mats. 2,807,846, 10-1-57, Cl. 22-139.
- Sterk, Andrew A., to North American Philips Co., Inc. Voltage regulator. 2,816,263, 12-10-57, Cl. 323-66.
- Sterling, Albert H. Riveting means. 2,805,588, 9-10-57, Cl. 78-17.
- Sterling Aluminum Products, Inc.: *See—*
- Peterson, William F., and Bowser. 2,789,329.
- Venner, William M., Bowser, and Peterson. 2,780,505.
- Venner, William M., Bowser, and Peterson. 2,795,468.
- Sterling Drug Inc.: *See—*
- Albro, Lewis P., and Buck. 2,794,764.
- Archer, Sydney. 2,777,850.
- Archer, Sydney. 2,793,874.
- Clarke, Robert L. 2,799,691.
- Clarke, Robert L. 2,813,866.
- Clarke, Robert L., and Gubitz. 2,813,865.
- Cooper, Ralph M., Jr. 2,801,951.
- Clinton, Raymond O. 2,789,998.
- Hunter, William T. 2,813,867.
- Lakso, Eino E. 2,777,265.
- Luduenaa, Froilan P. 2,795,612.
- Luduenaa, Froilan P. 2,818,369.
- Maietta, Horace P. 2,796,380.
- Maki, Eino J. 2,811,153.
- Steck, Edgar A. 2,785,161.
- Surrey, Alexander R. 2,776,991.
- Surrey, Alexander R. 2,778,833.
- Wessinger, George D. 2,818,371.
- Sterling, John, Corp.: *See—*
- Sterling, John G., and Ohman. 2,783,494.
- Sterling, John G., and Ohman. 2,783,635.
- Sterling, John G., and T. Ohman, to John Sterling Corp. Pocket door pull. 2,783,494, 3-5-57, Cl. 16-124.
- Sterling, John G., and T. Ohman, to John Sterling Corp. Sliding door lock. 2,783,635, 3-5-57, Cl. 70-99.
- Sterling Mfg. Co., The: *See—*
- Martin, Joseph F. 2,790,121.
- Sterling Plastics Co.: *See—*
- Lehre, Otto. 2,797,047.

- Sterling Precision Instrument Corp.: *See*—
Bachman, Rudolph E. 2,801,720.
- Sterling, Robert F., to Westinghouse Electric Corp. Arc resistant molded members and electrical apparatus embodying them. 2,806,109, 9-10-57, Cl. 200—144.
- Stermon, Rubin B., to Westinghouse Electric Corp. Upsetting machine. 2,813,194, 11-12-57, Cl. 219—152.
- Stern, Allison M.: *See*—
Marks, Lewis, and Stern. 2,782,949.
- Stern, Edward S., and R. J. Anderson, to J. F. Macfarlan & Co. Ltd. Piperidine compounds and their production. 2,795,581, 6-11-57, Cl. 260—247.2.
- Stern, Eziel. Dental impression trays. 2,802,269, 8-13-57, Cl. 32—17.
- Stern, Felix D., to P. Fries, Jr. Archery target. 2,818,258, 12-31-57, Cl. 273—102.
- Stern, George T., to Specialties Development Corp. Pressure reducer. 2,777,458, 1-15-57, Cl. 137—116.5.
- Stern, Harold J.: *See*—
Rawitzer, Walter L., Stern, and Shadbolt. 2,798,060.
- Stern, Joshua. High vacuum valve. 2,796,887, 6-25-57, Cl. 137—625.48.
- Stern, Marc. Die casting machine pressure chambers. 2,786,247, 3-26-57, Cl. 22—70.
- Stern, Milton: *See*—
Frager, Max, Stern, and Riegner. 2,803,928.
- Stern, Robert G., to Curtiss-Wright Corp. Simulated aircraft propeller synchronizing and speed controls. 2,788,589, 4-16-57, Cl. 35—12.
- Stern, Robert G., to Curtiss-Wright Corp. Simulated wing icing systems for aircraft training apparatus. 2,803,893, 8-27-57, Cl. 35—12.
- Stern, Robert G., to Curtiss-Wright Corp. Mock flight computing and indicating system for vertical system. 2,804,264, 8-27-57, Cl. 235—61.
- Stern, Robert G., and T. C. Wakefield, to Curtiss-Wright Corp. Apparatus for simulating flight conditions of high speed aircraft. 2,784,501, 3-12-57, Cl. 35—12.
- Stern, Robert G., and T. C. Wakefield, to Curtiss-Wright Corp. Apparatus for simulating aircraft turbo-jet engine operation. 2,798,308, 7-9-57, Cl. 35—12.
- Stern, Robert G., and W. H. Dawson, Jr., to Curtiss-Wright Corp. Simulated manifold pressure system for aircraft. 2,808,658, 10-8-57, Cl. 35—12.
- Stern, Robert G., and J. Port, to Curtiss-Wright Corp. Simulated oil cooling system for aircraft engine. 2,810,210, 10-22-57, Cl. 35—12.
- Stern, Robert G., and T. C. Wakefield, to the United States of America as represented by the Secretary of the Navy. Center of gravity system. 2,817,161, 12-24-57, Cl. 35—12.
- Stern, Theodore. Necktie device. 2,775,768, 1-1-57, Cl. 2—151.
- Stern, William, to Illinois Tool Works. Method of forging nut blanks having axially extending skirt portions and attaching a washer thereto. 2,814,812, 12-3-57, Cl. 10—86.
- Sterna, Ernest P., to Gardner Machine Co. Work feed mechanism. 2,795,090, 6-11-57, Cl. 51—215.
- Sternaman, Robert H.: *See*—
Olson, Elmer, and Sternaman. 2,792,203.
- Sternbeck, Olaf, and J. B. Westberg, to Telefonaktiebolaget L. M. Ericsson. Multiple discharge tube with positive auxiliary electrodes. 2,787,729, 4-2-57, Cl. 315—84.6.
- Sternbeck, Olaf, and W. E. M. Uhlmann, to Telefonaktiebolaget L. M. Ericsson. Electron-tube. 2,800,599, 7-23-57, Cl. 313—105.
- Sternberg, Hymen. Locking device. 2,816,557, 12-17-57, Cl. 132—120.
- Sterne, Frank: *See*—
Wallace, Bert H., Sterne, and Edrich. 2,793,038.
- Sternier, John F.: *See*—
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- Sternglass, Ernest J. Thermal image detecting tube. 2,788,452, 4-9-57, Cl. 250—83.3.
- Sternheim, Hans I.: *See*—
Da Fano, Ettore, and Sternheim. 2,818,389.
- Stern-Montagny, Francis, to International Business Machines Corp. Core winding apparatus. 2,812,136, 11-5-57, Cl. 235—92.
- Sterns, William G.: *See*—
Ehrlich, Morris J., and Sterns. 2,808,586.
- Sterrett, Robert W., to Southern Zonolite Co. Manufacture of roofing slabs and the like. 2,778,088, 1-22-57, Cl. 25—154.
- Sterrett, Vance C. Differential float controlled valve. Differential float controlled valve. 2,810,396, 10-22-57, Cl. 137—416.
- Sterritt, John C., to Baker Perkins Inc. Mixer. 2,794,626, 6-4-57, Cl. 259—104.
- Stertz, Joseph M. Radiation resistant fabric. 2,788,291, 4-9-57, Cl. 117—71.
- Sterud, Peder E. Access door and casing. 2,793,721, 5-28-57, Cl. 189—46.
- Sterzer, Walter G.: *See*—
Werner, Frank R., and Sterzer. 2,798,429.
- Sterzer, Walter G., to The National Cash Register Co. Compensating cam roller. 2,816,457, 12-17-57, Cl. 74—569.
- Stetson, Alvin R., and R. J. Pyle, to Solar Aircraft Co. Welding fluxes. 2,802,762, 8-13-57, Cl. 148—26.
- Stetson, John B., Co.: *See*—
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- Stettner, Otto J. Mail-box signal. 2,802,622, 8-13-57, Cl. 232—35.
- Stetz, Robert J., C. R. Hill, and E. Rogers, to The Engine Parts Mfg. Co. Metering device controlling discharge of fluids from aerosol containers. 2,815,889, 12-10-57, Cl. 222—189.
- Steuber, Walter, to E. I. du Pont de Nemours and Co. Process for forming films and filaments directly from polymer intermediates. 2,813,775, 11-19-57, Cl. 18—54.
- Steuerwald, Wilfred L., to Deere & Co. Adjustable harvester reel mounting. 2,795,920, 6-18-57, Cl. 56—221.
- Steven, George, to Worthington Corp. Vaned air distributor for internal combustion engine starting air. 2,817,949, 12-31-57, Cl. 60—16.
- Steven, Ray L. Adjustable bathtub. 2,788,527, 4-16-57, Cl. 4—185.
- Stevens, Adele M.: *See*—
Rice, Henry T. M., and Stevens. 2,796,789.
- Stevens, Robert T. 2,780,332.
- Stevens, Albert B.: *See*—
Moeller, Benjamin A., and Stevens. 2,790,578.
- Stevens, Bernard: *See*—
Grover, Donald P., and Stevens. 2,817,173.
- Stevens, Bert V., to Eastman Kodak Co. Episcopic optical system for contour projector. 2,804,800, 9-3-57, Cl. 88—24.
- Stevens, Chapin E.: *See*—
Mayhew, Raymond L., Stevens, and Maxcy. 2,799,659.
- Stevens, Charles H., to the United States of America as represented by the Secretary of the Army. Cam block actuator. 2,779,248, 1-29-57, Cl. 89—155.
- Stevens, Charles H., to the United States of America as represented by the Secretary of the Army. Receiver cam. 2,804,810, 9-3-57, Cl. 89—155.
- Stevens, Charles H., Jr. Power supply for multiple welding units. 2,777,047, 1-8-57, Cl. 219—131.
- Stevens, Clifford B., to American Machine & Foundry Co. Child's tricycle. 2,817,539, 12-24-57, Cl. 280—282.
- Stevens, Cyril J., to B. F. Perkins & Son, Inc. Driving mechanism. 2,817,245, 12-24-57, Cl. 74—378.
- Stevens, Daniel S. Device for determining the red blood cell count. 2,791,150, 5-7-57, Cl. 88—14.
- Stevens, Donald R.: *See*—
Klicker, James D., and Stevens. 2,776,260.
- Stevens, Donald R., and S. C. Camp, to Gulf Research & Development Co. Sulfurization in the presence of sulfur dioxide. 2,786,829, 3-26-57, Cl. 260—139.
- Stevens, Donald R., and R. L. Sweet, to Gulf Research & Development Co. Bismuth triphenyl jet fuel compositions and process of using same. 2,806,348, 9-17-57, Cl. 60—35.4.
- Stevens, Edward P.: *See*—
Jones, James B., and Stevens. 2,815,998.
- Stevens, Edward W., to Thompson Products, Inc. Wet cell battery. 2,803,690, 8-20-57, Cl. 136—6.
- Stevens, Frederic B., Inc.: *See*—
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- Stevens' Fireplace Log Corp.: *See*—
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- Stevens, Guy L. Piston groove cleaner. 2,787,800, 4-9-57, Cl. 15—104.01.
- Stevens, Harold B.: *See*—
Glavin, Gerald M., and Stevens. 2,809,993.
- Stevens, Harold W., C. R. and J. B. Myers, to The Myers Sherman Co. Blender. 2,806,678, 9-17-57, Cl. 259—10.
- Stevens, Henry C., to Columbia-Southern Chemical Corp. Carbonate preparation. 2,787,631, 4-2-57, Cl. 260—463.
- Stevens, Henry C., to Columbia-Southern Chemical Corp. Polycarbonates. 2,787,632, 4-2-57, Cl. 260—463.
- Stevens, Henry C., to Columbia-Southern Chemical Corp. Carbonate purification. 2,808,371, 10-1-57, Cl. 202—57.
- Stevens, Henry W., G. E. Lofgren, R. L. Brown, and A. H. Beebe, to Electroflux Corp. Dust containers for vacuum cleaners. 2,804,166, 8-27-57, Cl. 183—49.
- Stevens, J. P., & Co., Inc.: *See*—
Currin, Charles V., and Perkins. 2,789,421.
- Stevens, Joel B.: *See*—
Crawford, Robert T., and Stevens. 2,794,239.
- Crawford, Robert T., and Stevens. 2,794,480.
- Stevens, John B., to Schutte and Koerting Co. Emergency trip mechanisms. 2,813,429, 11-19-57, Cl. 74—2.
- Stevens, John C., to Leopold & Stevens Instruments, Inc. Manometer system. 2,817,237, 12-24-57, Cl. 73—401.
- Stevens, Joseph R.: *See*—
Zief, Morris, and Stevens. 2,807,610.
- Stevens, Justus B., to Sealol Corp. Shaft seal. 2,818,284, 12-31-57, Cl. 286—11.15.
- Stevens, Kenneth: *See*—
Hutchinson, Henry M., and Stevens. 2,797,209.
- Hutchinson, Henry M., and Stevens. 2,801,992.

- Stevens, Leonard A., to Stevens' Fireplace Log Corp. Artificial fireplace log. 2,789,890, 4-23-57, Cl. 44-41.
- Stevens, Leslie, to Chicopee Mfg. Corp. Monofilament and fabric made thereby. 2,812,782, 11-12-57, Cl. 139-420.
- Stevens Mfg. Co., Inc.: *See*—
 Bletz, Howard W. 2,811,610.
 Bletz, Howard W. 2,806,923.
 Dahlen, Paul A. 2,804,524.
 Mertler, Charles S. 2,791,662.
 Mertler, Charles S. 2,795,678.
 Mertler, Charles S. 2,806,106.
- Stevens, Myron B., to the United States of America as represented by the Secretary of the Army. Stay mount for head covering. 2,803,016, 8-20-57, Cl. 2-195.
- Stevens, Norma J. D., and R. A. Dye. Shampoo cape supporting frame. 2,789,289, 4-23-57, Cl. 2-52.
- Stevens, Peter A. Needle terminal assembly. 2,794,435, 6-4-57, Cl. 128-214.
- Stevens, Quinn O. Drill pipe wiper. 2,809,012, 10-8-57, Cl. 255-23.
- Stevens Research Foundation: *See*—
 Williamson, Robert R. 2,795,376.
- Stevens, Richard M. Dispensing carton. 2,776,052, 1-1-57, Cl. 206-58.
- Stevens, Robert T.: *See*—
 Rice, Henry T. M., and Stevens. 2,796,789.
- Stevens, Robert T., to A. M. Stevens. Automatically releasable torque transmitting apparatus. 2,780,332, 2-5-57, Cl. 192-56.
- Stevens Sales Co., Inc.: *See*—
 Strand, Donald K. 2,803,279.
- Stevens, Samuel S., to The Diamond Match Co. Receptacle. 2,780,401, 2-5-57, Cl. 229-25.
- Stevens, Stephen, and A. Jorgensen, to Pittsburgh Plate Glass Co. Transfer car assembly. 2,787,360, 4-2-57, Cl. 198-31.
- Stevens, William B.: *See*—
 Plumley, Glenn V., and Stevens. 2,804,845.
- Stevens, William P., and A. Nitikman, to Northrop Aircraft, Inc. Inclined engine installation for jet aircraft. 2,812,912, 11-12-57, Cl. 244-74.
- Stevens & Thompson: *See*—
 Thompson, Henry L. 2,801,007.
- Stevenson, Basil C. J.: *See*—
 Beale, Richard D., Jubb, and Stevenson. 2,780,058.
- Stevenson, Calvin. Separating apparatus. 2,777,576, 1-15-57, Cl. 209-136.
- Stevenson, Carroll E.: *See*—
 Stevenson, George M. and C. E. 2,813,303.
- Stevenson, Cary H., to Lindberg Engineering Co. Terminal for heating furnaces. 2,809,223, 10-8-57, Cl. 13-25.
- Stevenson, Clarence H., III. Feeding and orienting device. 2,815,846, 12-10-57, Cl. 198-33.
- Stevenson, Edward E., to United States Steel Corp. Bottom seal for deep-well pumps. 2,779,420, 1-29-57, Cl. 166-195.
- Stevenson, Edward E., to United States Steel Corp. Sectional liner pump. 2,787,964, 4-9-57, Cl. 103-181.
- Stevenson, Edwin E.: *See*—
 Stevenson, George M. and C. E. 2,813,303.
- Stevenson, George M. and C. E.: *said* G. M. Stevenson assor. to E. E. Stevenson. Molding apparatus. 2,813,303, 11-19-57, Cl. 18-20.
- Stevenson, John W.: *See*—
 Ruehle, Archie E., and Stevenson. 2,813,018.
- Stevenson, Lincoln L. Rapid hand sanitizer. 2,814,081, 11-26-57, Cl. 21-91.
- Stevenson, Peter C.: *See*—
 Hicks, Harry G., Nericik, and Stevenson. 2,795,481.
- Stevenson, Russell C.: *See*—
 Menkens, Carl A., and Stevenson. 2,793,394.
- Stevenson, Wade: *See*—
 Clark, Frederick G. 2,793,552.
- Stevenson, Warren H.: *See*—
 Hund, Frank C. 2,806,733.
- Stevenson, Woodrow. Packages or containers for cigarettes and matches. 2,811,247, 10-29-57, Cl. 206-48.
- Stevensons (Dyers) Ltd.: *See*—
 Fell, Eric T. 2,789,954.
- Stevick, David W. Container for dressed poultry and the like. 2,814,381, 11-26-57, Cl. 206-4534.
- Stevinson, Harry T., to National Research Council. Motion arrester. 2,785,775, 3-19-57, Cl. 188-101.
- Steward, Frederick C., and E. M. Shantz. Coconut milk extracts. 2,806,027, 9-10-57, Cl. 260-2365.
- Steward, Malcolm H. Transponder system. 2,818,502, 12-31-57, Cl. 250-15.
- Stewart, Alexander E., and S. C. Williams, to Dominion Engineering Works Ltd. Broke disposal units for paper making machines. 2,797,623, 7-2-57, Cl. 92-44.
- Stewart, Arnold K., to Pittsburgh Plate Glass Co. Apparatus for spray coating surfaces. 2,794,418, 6-4-57, Cl. 118-300.
- Stewart, Aubrey P., Jr., D. F. Wilcox, and R. A. Johnson, to Foremost Dairies, Inc. Process for treating fluid dairy products and product produced thereby. 2,788,283, 4-9-57, Cl. 99-213.
- Stewart, Bruce D., to McKiernan-Terry Corp. Open side multiple roll calendar. 2,815,531, 12-10-57, Cl. 18-2.
- Stewart, Charles W., to Sprague Meter Co. Combined meter and regulator. 2,784,590, 3-12-57, Cl. 73-199.
- Stewart, Charles W., to Sprague Meter Co. Dust filter means. 2,800,977, 7-30-57, Cl. 183-44.
- Stewart, Clarence R. G.: *See*—
 Kiemele, John F., and Stewart. 2,797,288.
- Stewart, Cora L.: *See*—
 Stewart, Robert J., and Albrecht. 2,803,441.
- Stewart, Daniel, to Scottish Oils Ltd. Spinning oil composition. 2,787,594, 4-2-57, Cl. 252-8.7.
- Stewart, Daniel, to Scottish Oils Ltd. Cleaning composition. 2,787,596, 4-2-57, Cl. 252-153.
- Stewart, Douglass M., to Esso Research and Engineering Co. Retrievable pressure recording bomb and choke. 2,795,952, 6-18-57, Cl. 73-151.
- Stewart, Edward J., to Stewart In-fra-red, Inc. Apparatus for infra-red cooking. Re. 24,296, 3-26-57, Cl. 219-35.
- Stewart, Enos A. Dry air therapeutic cabinet. 2,814,297, 11-26-57, Cl. 128-374.
- Stewart, Floyd D., to The B. F. Goodrich Co. Copolymers of vinylidene cyanide with acenaphthylene. 2,786,046, 3-19-57, Cl. 260-78.5.
- Stewart, George J.: *See*—
 Harmes, Oren B., and Stewart. 2,813,694.
- Stewart, Hall. Container and spout therefor. 2,792,976, 5-21-57, Cl. 222-569.
- Stewart, Harry A. Log barkers of the rotatory abrading head type. 2,799,304, 7-16-57, Cl. 144-208.
- Stewart, Herman V. D. Self-renewing rod packing. 2,807,484, 9-24-57, Cl. 236-30.
- Stewart-Hodge, Inc.: *See*—
 Stewart, Wayne R. 2,817,382.
- Stewart, Iain M. Combined light and air distributor. 2,799,772, 7-16-57, Cl. 240-2.
- Stewart, Ian F., and H. R. Aikman, to Imperial Chemical Industries Ltd. Method and apparatus for crimping the filaments of a tow of extendable artificial filaments. 2,814,837, 12-3-57, Cl. 19-66.
- Stewart In-fra-red, Inc.: *See*—
 Stewart, Edward J. Re. 24,296.
- Stewart, James C., T. H. Stanley, and J. N. Almgren, to T. S. Skillman and Co. Pty. Ltd. Oscillators. 2,817,018, 12-17-57, Cl. 250-36.
- Stewart, James R., and R. P. Crow, to Motorola, Inc. Telephone apparatus. 2,809,236, 10-8-57, Cl. 179-18.
- Stewart, James U.: *See*—
 Coopridge, Rex C., and Stewart. 2,815,890.
- Stewart, John, to Ferranti Ltd. Radio navigation systems. 2,792,570, 5-14-57, Cl. 343-106.
- Stewart, John E., to Federal-Mogul-Bower Bearings, Inc. Torquemeter. 2,779,137, 1-29-57, Cl. 73-9.
- Stewart, John H., and F. W. Wack, to Stark Ceramics, Inc. Method of making a cellular clay aggregate. 2,786,772, 3-26-57, Cl. 106-40.
- Stewart, John S. Top structure for blast furnaces. 2,792,213, 5-14-57, Cl. 266-27.
- Stewart, John S., to Hawley Products Co. Felting apparatus and method. 2,797,624, 7-2-57, Cl. 92-57.
- Stewart, Joseph: *See*—
 Morrell, Charles E., Carlson, and Stewart. 2,788,315.
 Thompson, Charles E., Stewart, and Langer. 2,791,541.
- Stewart, Joseph, J. H. Staib and F. Knott, Jr., to Esso Research and Engineering Co. Preparation of unsaturated organic compounds. 2,810,748, 10-22-57, Cl. 260-514.
- Stewart, Kenneth R.: *See*—
 Schmidt, Lloyd K. 2,787,844.
- Stewart, Lyle E. Concrete form construction. 2,776,464, 1-8-57, Cl. 25-131.
- Stewart, Meredith M.: *See*—
 Anhorn, Victor J., Stewart, and Morrow. 2,776,247.
- Stewart, Phillip G., to The New York Air Brake Co. Engine. 2,808,814, 10-8-57, Cl. 121-92.
- Stewart, Phillip G., to Vickers Inc. Power transmission. 2,809,588, 10-15-57, Cl. 103-42.
- Stewart Products Corp.: *See*—
 Keefe, Lincoln M. 2,777,553.
- Stewart, Robert C., to Keir & Cawder Ltd. Apparatus for regulating delivery of irregular material. 2,776,783, 1-8-57, Cl. 222-199.
- Stewart, Robert F.: *See*—
 Lindsay, Wallace R., and Stewart. 2,794,373.
- Stewart, Robert J., deceased (by C. L. Stewart, executrix), and R. C. Albrecht, to Crown Cork & Seal Co., Inc. Liquid proportioning apparatus. 2,803,441, 8-20-57, Cl. 259-1.
- Stewart, Victor N. Game projectile. 2,797,924, 7-2-57, Cl. 273-106.
- Stewart, Vincent N., and M. B. Fornwalt, to General Electric Co. Drawout mechanism for metal enclosed electric switchgear. 2,776,346, 1-1-57, Cl. 200-50.

Stewart-Warner Corp.: *See*—

Allen, Arthur C. 2,780,218.
 Allen, Arthur C. 2,780,280.
 Allen, Arthur C. 2,782,641.
 Allen, Arthur C. 2,789,922.
 Allen, Arthur C. 2,795,293.
 Allen, Arthur C. 2,811,224.
 Bell, William R. 2,779,446.
 Collins, Arthur R., Ryder, and Randall. 2,811,166.
 Dinkelkamp, Henry T. 2,800,254.
 D'Luzansky, Edgar. 2,803,723.
 Fairbanks, Gordon J. 2,801,685.
 Fisher, John T. 2,801,708.
 Gelb, Amiel, and Korb. 2,805,155.
 Lansky, Zdenek J., and Riske. 2,783,946.
 Lansky, Zdenek J., and Riske. 2,801,642.
 Padgett, Walter C. 2,790,411.
 Peterson, David C., and Raisch. 2,789,664.
 Queisser, Roger J. 2,798,477.
 Ryder, Frank A. 2,787,319.
 Ryder, Frank A., and Wendell. 2,775,944.
 Ryder, Frank A., and Wendell. 2,804,018.
 Schweisthal, Frederick G. 2,776,025.
 Schweisthal, Frederick G. 2,779,437.
 Staiger, Kurt. 2,787,530.
 Vischulis, George, Jr. 2,775,900.
 Vischulis, George, Jr. 2,795,809.
 Wargo, Peter. 2,797,588.
 Wargo, Peter. 2,813,264.
 Winkler, Herman E., and Murphy. 2,817,217.
 Stewart, Wayne R., to Stewart-Hodge, Inc. Semi-pneumatic tire having rim-engaging lugs. 2,817,382, 12-24-57, Cl. 152-385.
 Stewart, William D., and G. L. Gatcomb, to Atlantic Research Corp. Process for treating cellulose esters. 2,809,193, 10-8-57, Cl. 260-230.
 Stewart, William D., and W. L. Wachtel, to Atlantic Research Corp. Cellulose ether processing. 2,814,620, 11-26-57, Cl. 260-232.
 Stewart, William T.: *See*—
 Lowe, Warren, and Stewart. 2,809,161.
 Lowe, Warren, and Stewart. 2,810,696.
 Stewart, William T., and W. Lowe, to California Research Corp. Lubricant composition. 2,809,160, 10-8-57, Cl. 252-334.
 Stewart, William M. Vending machines for small articles. 2,792,147, 5-14-57, Cl. 221-82.
 Stewarts & Lloyds Ltd.: *See*—
 McLay, Gavin S. 2,783,666.
 McLay, Gavin S. 2,803,154.
 Whitaker, Paul. 2,799,065.
 Williams, Thomas H., and Hall. 2,795,544.
 Stibbe, G., & Co.: *See*—
 Bardett, Henry S. 2,815,651.
 Stibitz, George R., to Barber-Colman Co. Hob for cutting elliptical gears. 2,788,567, 4-16-57, Cl. 29-103.
 Stibitz, George R. Decimal-binary translator. 2,792,987, 5-21-57, Cl. 235-61.
 Stibitz, George R. Function unit. 2,799,171, 7-16-57, Cl. 74-54.
 Stichler, Hoy L., and P. N. Smith, to The Tappan Stove Co. Lock valve. 2,795,392, 6-11-57, Cl. 251-97.
 Stichting Instituut voor Grafische Techniek T. N. O. *See*—
 Tollenaar, Daniel. 2,798,428.
 Stickel, Carl A., to General Motors Corp. Domestic appliance. 2,780,008, 2-5-57, Cl. 34-54.
 Stickel, Carl A., to General Motors Corp. Domestic appliance. 2,780,009, 2-5-57, Cl. 34-76.
 Stickel, William A. Electric line fault locator. 2,807,779, 9-24-57, Cl. 324-52.
 Stickelher & Sons, Inc.: *See*—
 Nichols, Walter B. 2,782,734.
 Stickless Corp., The: *See*—
 Frankl, Ernest. 2,789,373.
 Stickney, Michael E., to Beckman Instruments, Inc. Spectral scanning apparatus. 2,813,451, 11-19-57, Cl. 88-14.
 Stickney, Michael E., R. G. Madsen, and L. R. Pugh, to Beckman Instruments, Inc. Apparatus for recording and reproducing variables. 2,777,354, 1-15-57, Cl. 88-14.
 Stickney, Palmer B.: *See*—
 Bennett, Bailey, Novy, and Stickney. 2,812,316.
 Stidd, Charles L., to Rail Flange Lubricator Co. Rail and flange lubricator. 2,780,311, 2-5-57, Cl. 184-3.
 Stiebel, Theodor H. Heated beverage preparation apparatus with selectively adjustable modes of operation. 2,796,018, 6-18-57, Cl. 99-293.
 Stiebling, Ewald: *See*—
 Tramm, Heinrich, Kolling, Schnur, Buchner, Heger, and Stiebling. 2,802,843.
 Stieglitz, Henry M., to Frank Adam Electric Co. Panelboards. 2,800,613, 7-23-57, Cl. 317-120.
 Stiehl, Karl, and J. C. Valentyn, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of artificial leather from polyvinyl chloride. 2,809,398, 10-15-57, Cl. 18-47.5.
 Stiehl, Karl, and K. Reus, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of artificial leather having suede-like character. 2,811,464, 10-29-57, Cl. 117-11.

Stier, George G., and G. D. Conover, to Nopco Chemical Co. Superphosphate and process for the manufacture of the same. 2,789,045, 4-16-57, Cl. 71-40.
 Stier, Howard J., to Crouse-Hinds Co. Series lamp circuit with normal and standby lamps. 2,809,329, 10-8-57, Cl. 315-90.
 Stiffel, Theophile A. Lighting fixtures. 2,793,286, 5-21-57, Cl. 240-52.
 Stift, Robert J. Mobile comfort station. 2,817,846, 12-31-57, Cl. 4-1.
 Stigum, Tom. Log bunk with releasable stakes. 2,804,312, 8-27-57, Cl. 280-143.
 Stikeleather, Robert M., to Aerofin Corp. Fin winding machines. 2,799,389, 7-16-57, Cl. 203-75.
 Stile-Craft Manufacturers, Inc.: *See*—
 Rogers, Gerald L. 2,812,958.
 Stiles, Alan R.: *See*—
 Whetstone, Richard R., and Stiles. 2,802,855.
 Stiles, Alan R., F. F. Rust, and W. E. Vaughan, to Shell Development Co. Process for producing organic phosphines. 2,803,597, 8-20-57, Cl. 204-158.
 Stiles, Alvin B.: *See*—
 Jefferson, Edward G., Smith, and Stiles. 2,776,315.
 Stiles, John R. Wall-panel structure. 2,794,216, 6-4-57, Cl. 20-4.
 Stiles, Lloyd C., to Chicago Bridge & Iron Co. Method of forming a cladding plate. 2,791,827, 5-14-57, Cl. 29-471.1.
 Stiles, Richard C.: *See*—
 Johnston, Leith, and Stiles. 2,782,254.
 Stiles, Richard C., to General Telephone Laboratories, Inc. Automatic telegraph switching system. 2,805,283, 9-3-57, Cl. 178-2.
 Stiles, Vernon E., and T. V. Inwood, to Union Oil Co. of California. Desulfurization of cracked gasolines. 2,793,170, 5-21-57, Cl. 196-28.
 Stillgebauer, Louis. Spring-loaded pastry server. 2,804,335, 8-27-57, Cl. 294-1.
 Stillwell, Harry F., to Collins Radio Co. High input impedance comparator. 2,791,689, 5-7-57, Cl. 250-27.
 Stillwell, William C., to New Haven Watch and Clock Co. Regulating mechanism for a time keeping escapement. 2,803,941, 8-27-57, Cl. 58-113.
 Stilmar, Frederic B., to E. I. du Pont de Nemours and Co. Curing process for polyurethane reaction products. 2,814,604, 11-26-57, Cl. 260-42.
 Stilmar, Frederic B., to E. I. du Pont de Nemours and Co. Processing of polyurethane polymers. 2,814,605, 11-26-57, Cl. 260-42.
 Stilwell, George R.: *See*—
 Reynolds, Frederick W., and Stilwell. 2,810,663.
 Stilwell, Glenn E., to Food Machinery and Chemical Corp. Attachment for box making machine. 2,787,001, 4-2-57, Cl. 1-131.
 Stilwell, William E., Jr., to The Murray Corp. of America. Apparatus for the complete laundering of fabrics. 2,785,557, 3-19-57, Cl. 68-12.
 Stilwell, William E., Jr., to The Murray Corp. of America. Time control mechanism. 2,806,095, 9-10-57, Cl. 200-35.
 Stilwell, Winfred N. Threading device. 2,783,571, 3-5-57, Cl. 43-1.
 Stilwell, Winfred N. Threading device. 2,804,710, 9-3-57, Cl. 43-1.
 Stimler, Friedrich: *See*—
 Fahrenhorst, Heinz, and Stimler. 2,808,389.
 Stimpson, Edwin G., to National Dairy Products Corp. Inc. Lactase-hydrolyzed lactose in feed. 2,781,266, 2-12-57, Cl. 99-9.
 Stimpson, Edwin G., and H. Young, to National Dairy Products Corp. Increasing the protein content of milk products. 2,809,113, 10-8-57, Cl. 99-9.
 Stimson, Noel O. Two-cell container. 2,797,014, 6-25-57, Cl. 220-20.
 Stimson, Percy G., and J. T. Davidson, to The Standard Register Co. Strip feeding device. 2,806,692, 9-17-57, Cl. 271-24.
 Stine, Harrison M.: *See*—
 Hughes, Everett C., and Stine. 2,790,772.
 Hughes, Everett C., and Stine. 2,790,775.
 Hughes, Everett C., Stine, Darling, and Liao. 2,790,774.
 Strecker, Harold A., and Stine. 2,784,147.
 Strecker, Harold A., and Stine. 2,796,410.
 Stine, Harrison M., to The Standard Oil Co. Continuous process for the removal of mercaptans from hydrocarbons and apparatus therefor. 2,779,712, 1-29-57, Cl. 196-32.
 Stine, Harrison M., to The Standard Oil Co. Cutting oil composition. 2,790,773, 4-30-57, Cl. 252-45.
 Stine, Oliver C. Clamshell bucket closure attachment. 2,808,166, 10-1-57, Cl. 214-656.
 Stine, Ralph M.: *See*—
 Gills, Randall, Larson, and Stine. 2,790,299.
 Stine, Wilmer E. Spray manifold end closure. 2,780,492, 2-5-57, Cl. 299-59.
 Stine, Wilmer E., to the United States of America as represented by the Secretary of the Navy. Apparatus for cleaning eating utensils. 2,802,475, 8-13-57, Cl. 134-60.
 Stiner, Stewart, C. F. Stephenson, and A. C. Howell, to Color Carousel Corp. Liquid proportioning and dispensing apparatus. 2,787,402, 4-2-57, Cl. 222-76.
 Stinger, Walter E. Integral radio frequency attenuation seal. 2,778,868, 1-22-57, Cl. 174-35.

- Stinger, Walter E. R-F gasket for radio interference attenuation. 2,796,457, 6-18-57, Cl. 174-35.
- Stinson, Frank V., and D. O. Johnson. Peanut harvesting, shaking and stacking machine. 2,807,926, 10-1-57, Cl. 56-340.
- Stinson, John M. Frost control device. 2,796,699, 6-25-57, Cl. 47-2.
- Stinson, Lawrence W.: See—
Thompson, Lee E., and Stinson. 2,783,420.
- Stinson, Lawrence W., L. E. Thompson, and N. L. Dean, to Sinclair Research Laboratories, Inc. Dual testing capacitor. 2,800,628, 7-23-57, Cl. 324-61.
- Stinson Mfg. Co., Inc.: See—
Stinson, Truman G. 2,808,296.
- Stinson, Truman G., to Stinson Mfg. Co., Inc. Scaffold plank. 2,808,296, 10-1-57, Cl. 304-38.
- Stinson, William J.: See—
Beyer, Harold G., and Stinson. 2,790,086.
- Stinson, William J., to the United States of America as represented by the United States Atomic Energy Commission. Sample holder. 2,789,688, 4-23-57, Cl. 206-1.
- Stipernitz, Franz, to I. H. Vorkauf. Water-cooled tubular framework for boilers. 2,792,815, 5-21-57, Cl. 122-235.
- Stipetic, George: See—
Stipetic, Paul. 2,793,557.
- Stipetic, Paul, 50% to G. Stipetic. Adjustable bridge for stringed instruments. 2,793,557, 5-28-57, Cl. 84-307.
- Stirling, Albert Y. Automatically controlled, multi-way, rotary plate valve. 2,777,515, 1-15-57, Cl. 161-7.
- Stirling, Leo M. Dual fan construction. 2,790,596, 4-30-57, Cl. 230-117.
- Stirling, Ruffin G., Jr.: See—
Kobler, Jasper F., Jr., Mercier, and Stirling. 2,786,875.
- Stirn, Frank E., and A. S. Taylor, to American Cyanamid Co. Die roll for encapsulating machine. 2,799,048, 7-16-57, Cl. 18-21.
- Stirn, Frank E., and J. T. Carstensen, to American Cyanamid Co. Tetracycline type antibiotic ointment. 2,804,421, 8-27-57, Cl. 167-63.
- Stirn, Frank E., and J. T. Carstensen, to American Cyanamid Co. Method of preparing a tetracycline type antibiotic-containing wound dressing. 2,804,424, 8-27-57, Cl. 167-84.
- Stirnemann, Ernst: See—
Lindemann, Herbert, and Stirnemann. 2,795,008.
- Stirnemann, Ernst. Catalytic reactor furnace. 2,788,266, 4-9-57, Cl. 23-288.
- Stirrup, Frank A. Film negative supporting frame. 2,793,575, 5-28-57, Cl. 95-100.
- Stirton, Alexander J.: See—
Weil, James E., Bistline, and Stirton. 2,806,044.
- Stites, Francis H., to Sylvania Electric Products Inc. Echo suppression beacons. 2,777,059, 1-8-57, Cl. 250-27.
- Stites, Winthrop D. Windshield wiper. 2,786,225, 3-26-57, Cl. 15-251.
- Stiveson, Robert A.: See—
Mosher, Ralph E., and Stiveson. 2,805,498.
- Stoakes, Sidney J. Domestic lock. 2,805,094, 9-3-57, Cl. 292-336.3.
- Stobb, Anton R., to Fred'k H. Levey Co., Inc. Printing press accessory. 2,788,741, 4-16-57, Cl. 101-350.
- Stobb, Anton R. Gripper for flexible sheet conveyor. 2,797,097, 6-25-57, Cl. 271-82.
- Stobb, Anton R., and W. H. Miles; said Miles to Strachan & Henshaw Ltd. Variable size folding. 2,814,484, 11-26-57, Cl. 270-43.
- Stöbe, Robert, to Wacker-Chemie G. m. b. H. Process for making fat-free animal feed products. 2,788,275, 4-9-57, Cl. 99-7.
- Stock, Arthur J. Bulk material valve. 2,792,150, 5-14-57, Cl. 222-108.
- Stock, Erwin O. and L. A. Liquid spray dispenser. 2,782,072, 2-19-57, Cl. 299-86.
- Stock, Herbert C., to Bell Aircraft Corp. Fault tester for electron tubes. 2,784,371, 3-5-57, Cl. 324-22.
- Stock, Lester A.: See—
Stock, Erwin O. and L. A. 2,782,072.
- Stock, Robert J., and J. McLay, to Allegheny Ludlum Steel Corp. Electrolytic treating apparatus. 2,793,993, 5-28-57, Cl. 204-206.
- Stockard, John M., and S. C. Miller. Exploder. 2,781,724, 2-19-57, Cl. 102-17.
- Stockdale, Charles H., to Westinghouse Electric Corp. Afterburner shell construction. 2,794,319, 6-4-57, Cl. 60-35.6.
- Stocker, Arthur C.: See—
Pensak, Louis, Stocker, and Covely. 2,794,122.
- Stocker, Arthur C., to Radio Corp. of America. Circuit for continuously corrected storage. 2,781,445, 2-12-57, Cl. 250-27.
- Stocker, Edward T., to Western Electric Co., Inc. Burnishing machine. 2,784,483, 3-12-57, Cl. 29-90.
- Stocker, Emil, to J. R. Geigy A. G. Lakes and the production thereof. 2,811,515, 10-29-57, Cl. 260-204.
- Stocker, Raymond: See—
McMillan, Lachlan, and Stocker. 2,776,174.
- Stöcker, Rudolf, to Siemens-Schuckertwerke Aktiengesellschaft. Extrusion molding apparatus. 2,779,970, 2-5-57, Cl. 18-13.
- Stocker & Yale, Inc.: See—
Yale, Gordon A. 2,794,362.
- Stockett, Wiley T., Jr., to Gardner Machines, Inc. Hydraulic saw mill feed works. 2,778,193, 1-22-57, Cl. 60-97.
- Stockfleth, Harry C. Universal hand-connected bow quiver. 2,816,696, 12-17-57, Cl. 224-1.
- Stockfleth, Harry C. Weight-compensated arrowhead. 2,816,765, 12-17-57, Cl. 273-106.5.
- Stockfleth, Harry C. Composite metal-bladed plastic-bodied arrowhead. 2,816,766, 12-17-57, Cl. 273-106.5.
- Stocking, George E., to General Electric Co. Propeller fan. 2,785,009, 3-12-57, Cl. 299-63.
- Stocking, George L., to The Procter & Gamble Co. Device for rearranging a line of cartons into a plurality of lines. 2,816,646, 12-17-57, Cl. 198-31.
- Stocks, Harry R., to General Motors Corp. Vehicle ventilator. 2,802,692, 8-13-57, Cl. 296-28.
- Stockton, Charles O., to Zac-Lac Paint & Lacquer Corp. Paint mixing apparatus. 2,802,649, 8-13-57, Cl. 259-67.
- Stockwell, Charles W. Automatic emergency furnace control. 2,777,074, 1-8-57, Cl. 307-64.
- Stoddard, A. F., and Co. Ltd.: See—
Barclay, Robert. 2,817,365.
- Stoddard, John N.: See—
Peck, Richard V., and Stoddard. 2,784,942.
- Stoddard, Nicholas J., and W. A. Seem, to Universal Winding Co. Apparatus for processing textile yarns. 2,803,105, 8-20-57, Cl. 57-34.
- Stoddard, Nicholas J., and W. A. Seem, to Universal Winding Co. Methods of processing textile yarns. 2,803,105, 8-20-57, Cl. 57-157.
- Stoddard, Nicholas J., and W. A. Seem, to Universal Winding Co. Method of processing thermoplastic yarns. 2,803,109, 8-20-57, Cl. 57-157.
- Stoddard, Ralph E.: See—
Dexter, Mortimer J., and Stoddard. 2,804,266.
- Stoddard Aircraft Radio Co., Inc.: See—
Shaw, James W. 2,787,560.
- Stoddard, Hugh F., to Atomic Instrument Co. Optical transposer. 2,794,977, 6-4-57, Cl. 340-378.
- Stodden, Kenneth J.: See—
Link, Harold S., and Stodden. 2,790,347.
- Stoeberl, Frank J., to Dur-O-Lite Pencil Co. Adjustable refill extension. 2,803,219, 8-20-57, Cl. 120-42.4.
- Stoeckel, Albert, and C. T. Zimmermann, to United States Steel Corp. Apparatus for measuring elongated magnetic products. 2,782,516, 2-26-57, Cl. 33-129.
- Stoeckel, Chester A., and C. E. Mudd, to The Firestone Tire & Rubber Co. Method of making strain-free gaskets. 2,802,513, 8-13-57, Cl. 154-33.1.
- Stoecker, Barney, to D. A. Bell. Turning tool for garbage pulverizer unit. 2,803,981, 8-27-57, Cl. 81-90.
- Stoecklin, Josef, to Aktiengesellschaft Brown, Boveri & Cie. Rotary multi-contact switch. 2,794,080, 5-28-57, Cl. 200-6.
- Stoecklin, Josef, and E. Drack, to Aktiengesellschaft Brown, Boveri & Cie. Response indicating electromagnetic device. 2,787,689, 4-2-57, Cl. 200-167.
- Stoecklin, Josef, and R. Braun, to Aktiengesellschaft Brown, Boveri & Cie. Ferraris relay. 2,811,680, 10-29-57, Cl. 317-167.
- Stoehr, Harvey E., to Schutte and Koerting Co. Tube and tube sheet assembly. 2,816,739, 12-17-57, Cl. 257-236.
- Stoeltgen, Herman O., to McGraw Electric Co. Lightning arrester. 2,777,095, 1-8-57, Cl. 317-66.
- Stoesser, Wesley C., and W. R. Surine, to The Dow Chemical Co. Production of gentisates. 2,782,232, 2-19-57, Cl. 260-521.
- Stoffel & Co.: See—
Kälin, Erich. 2,784,130.
Kälin, Erich. 2,806,691.
- Stoffel, Frank J. Nylon disc bearings for grain drills. 2,815,991, 12-10-57, Cl. 308-19.
- Stoffel, Paul J.: See—
Beaver, David J., Shumard, and Stoffel. 2,798,046.
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Beaver, David J., and Stoffel. 2,818,390.
- Stoffel, Paul J., and D. J. Beaver, to Monsanto Chemical Co. Urea derivatives. 2,803,655, 8-20-57, Cl. 260-553.
- Stofko, Charles J., to Associated Spring Corp. Spring winding machine. 2,806,507, 9-17-57, Cl. 153-67.
- Stogner, Joel M., to Halliburton Oil Well Cementing Co. Plug valve. 2,813,695, 11-19-57, Cl. 251-159.
- Stohlquist, Roger H., to Odin Corp. Wire bending apparatus. 2,777,478, 1-15-57, Cl. 140-105.
- Stohn, Kendall R. Fishing tool for well drilling. 2,814,523, 11-26-57, Cl. 294-102.
- Stohr, Ernest W.: See—
Grissinger, George G., and Stohr. 2,817,059.
- Stokely, John M.: See—
Furby, Neal W., Stokely, and Foehr. 2,801,968.
- Stokes, Arthur J. Process for chlorinating a basic cyclic guanidine. 2,777,856, 1-15-57, Cl. 260-309.5.
- Stokes, Edward D.: See—
Metrailler, William J., and Stokes. 2,807,393.
- Stokes, F. J., Corp.: See—
Bukata, Stephen. 2,801,788.
Flösdorff, Earl W. 2,780,102.
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Hall, Victor C. 2,809,751.
- Stokes, John J., Jr., to Aluminum Co. of America. Primary cell anode. 2,796,456, 6-18-57, Cl. 136-100.

- Stokes, Richard C., III, and J. B. Holliday, to Southeastern Engineering, Inc. Bug catcher. 2,799,117, 7-16-57, Cl. 43-113.
- Stokes, Rupert O. Valve arrangement for the discharge of material from a space below atmospheric pressure and like purposes. 2,817,463, 12-24-57, Cl. 222-442.
- Stokes and Smith Co.: See—
- Diehl, William R. 2,778,387.
- Stokes, Stanley A., to Termite Drills, Inc. Bit. 2,794,623, 6-4-57, Cl. 255-69.
- Stokes, Thomas A., Jr.: See—
- Davis, Fred W., and Stokes. 2,813,056.
- Davis, Fred W., and Stokes. 2,813,059.
- Stokes, Thomas A., Jr., and F. W. Davis, to Permachem Corp. Process for making a microbiocidal article. 2,791,518, 5-7-57, Cl. 117-120.
- Stokes, William S. Apparatus for laying a pipe line under a right-of-way. 2,816,575, 12-17-57, Cl. 138-48.
- Stokland, Sigmund. Seed planters. 2,783,921, 3-5-57, Cl. 222-252.
- Stokstad, Evan L. R., to American Cyanamid Co. Encephalomalacia treatment compositions containing 2,6-ditertiary-butyl-4-methyl phenol and methods of using same. 2,809,914, 10-15-57, Cl. 167-53.1.
- Stolk, Jan: See—
- Edens, Jan W., and Stolk. 2,816,222.
- Stolk, Jan, to North American Philips Co., Inc. Plural band frequency converter with intermediate frequency trapping means. 2,812,433, 11-5-57, Cl. 250-20.
- Stoll, Albert. Method and apparatus for resizing tools. 2,796,777, 6-25-57, Cl. 76-101.
- Stoll, Arthur, and W. Kreis, to Sandoz, A. G. Acetyldigitoxin- α . 2,776,963, 1-8-57, Cl. 260-210.5.
- Stoll, Arthur, E. Jucker, and A. Lindenmann, to Saul & Co., as nominee of Fidelity Union Trust Co. Ester-like 6-alkoxy-tropine derivatives. 2,800,476, 7-23-57, Cl. 260-292.
- Stoll, Arthur, E. Jucker, and A. Lindenmann, to Saul & Co. Quaternary ammonium halides of ester-like 6-alkoxy-tropine derivatives. 2,800,477, 7-23-57, Cl. 260-292.
- Stoll, Arthur, E. Jucker, and B. Becker, to Saul & Co. 6-hydroxy-tropinone. 2,800,484, 7-23-57, Cl. 260-294.7.
- Stoll, Arthur, A. Brack, A. Hofmann, and H. Kobel, to Saul & Co., as nominee of Fidelity Union Trust Co. executive trustee under Sandoz Trust. Process for the preparation of ergotamine, ergotamine and ergometrine by saprophytic culture of ergot (*claviceps purpurea* [Fr] Tul.) *in vitro* and isolation of the alkaloids thus produced. 2,809,920, 10-15-57, Cl. 195-81.
- Stoll, Arthur, A. Hofmann, and F. Troxler, to Saul & Co., as nominee of Fidelity Union Trust Co. executive trustee under Sandoz Trust. Lysergic acid derivatives acylated at the indol nitrogen. 2,810,723, 10-22-57, Cl. 260-285.5.
- Stoll, Gottlieb, and G. Schrag. Wall-type chain mortising machine. 2,807,296, 9-24-57, Cl. 144-72.
- Stoll, Kenneth M., and J. H. Clark, to Sylvania Electric Products, Inc. Gravity insertion tube socket. 2,814,790, 11-26-57, Cl. 339-193.
- Stoll, Kenneth M., and F. A. Metzler, Jr. Tube socket and mounting bar. 2,814,791, 11-26-57, Cl. 339-193.
- Stoll, Lawrence J.: See—
- Politzer, Alfred, and Stoll. 2,804,728.
- Stoll, Max, to Firmenich & Co., successeurs de la Societe Anonyme M. Naef & Cie. Ethers of 4,8,8-trimethyl-9-methylene-(1,3,3) bicycol-4-nonanol. 2,803,662, 8-20-57, Cl. 260-611.
- Stoll, Max, to Firmenich & Co., successeurs de la Societe anonyme M. Naef & Cie. Compounds having an ambergris scent and their preparation. 2,809,996, 10-15-57, Cl. 260-598.
- Stoll, Max, to Firmenich & Co., successeurs de la societe anonyme M. Naef & Cie. Preparation of a dihydroionone. 2,813,894, 11-19-57, Cl. 260-488.
- Stoll, Max, and M. Hinder, to Firmenich et Cie. Hydroxy-octahydronaphthalenes. 2,802,880, 8-13-57, Cl. 260-617.
- Stoll, Otto, to North & Judd Mfg. Co. Connector for attaching belts to belt buckles. 2,806,275, 9-17-1957, Cl. 24-265.
- Stoll, Richard W.: See—
- Pigo, Lewis, and Stoll. 2,789,203.
- Stoll, Russell F., to The Porter-Cable Machine Co. Power operated elliptical motion tool. 2,796,768, 6-25-57, Cl. 74-43.
- Stolle, Anthony D., to International Register Co. Electrical terminal post having means to secure it to a panel. 2,782,392, 2-19-57, Cl. 339-220.
- Stolle, Anthony D., and R. B. Ellis, to International Register Co. Switch mechanism. 2,801,305, 7-30-57, Cl. 200-33.
- Stolle, Walter J., J. H. Glaser, A. G. Kjellstrand, and L. J. Immke, to The Buckeye Ribbon & Carbon Co. Method of making an impression medium. 2,803,579, 8-20-57, Cl. 154-138.
- Stoloff, Leonard S., to Seaplant Chemical Corp. Compositions for preparing puddings. 2,801,923, 8-6-57, Cl. 99-139.
- Stolte, Richard C., to General Motors Corp. Hydraulic power steering mechanism. 2,791,287, 5-7-57, Cl. 180-79.2.
- Stolte, Richard C., to General Motors Corp. Fluid circulating pump. 2,812,718, 11-12-57, Cl. 103-103.
- Stoltey, Albert W., to Tung-Sol Electric Inc. Electromagnetic flasher. 2,796,490, 6-18-57, Cl. 200-88.
- Stoltz, Emil M., to Olin Mathieson Chemical Corp. Purified polyethenoxy alkylphenyl ethers. 2,778,854, 1-22-57, Cl. 260-613.
- Stoltz, James A.: See—
- Kurtz, Leonard D., and Stoltz. 2,811,157.
- Stoltz, James F., to Western Electric Co., Inc. Conveyor systems. 2,790,530, 4-30-57, Cl. 198-21.
- Stoltzfus, Christian U. Material spreader. 2,797,028, 6-25-57, Cl. 222-252.
- Stolz, James M. Mechano electrical transducer. 2,777,925, 1-15-57, Cl. 201-62.
- Stombeck, Ernest J. License plate lock. 2,776,507, 1-8-57, Cl. 40-125.
- Stone, Aidan M., to General Electric Co. Protective means for high speed rotating system. 2,782,655, 2-26-57, Cl. 74-573.
- Stone, Aidan M., to General Electric Co. Laundry machine having improved temperature sensing means. 2,807,890, 10-1-57, Cl. 34-48.
- Stone, Albert L., to Esso Research and Engineering Co. Apparatus for handling pipe in a derrick. 2,776,058, 1-1-57, Cl. 214-2.5.
- Stone, Alfred, A. Rosenberg, and J. Hillman. Ladies' foundation garment. 2,783,471, 3-5-57, Cl. 2-38.
- Stone, Ben. Machine for hoisting and positioning building board. 2,815,132, 12-3-57, Cl. 214-1.
- Stone, Ben. Wall board hoist. 2,815,251, 12-3-57, Cl. 304-29.
- Stone, Bruce C. Shrimp sheller. 2,792,590, 5-21-57, Cl. 17-7.
- Stone, Bruce C. Ventilating and mounting construction for rigid awnings. 2,807,061, 9-24-57, Cl. 20-57.5.
- Stone, Carl R.: See—
- Zinkil, Roy H., and Stone. 2,787,004.
- Stone, Charles F. Apparatus for seasoning green wood. 2,802,281, 8-13-57, Cl. 34-73.
- Stone Container Corp.: See—
- Berliant, George. 2,812,006.
- Wright, Ivan E., and Annel. 2,808,978.
- Stone, Dewey L. Frame construction for rim-driven, circular saws. 2,804,105, 8-27-57, Cl. 143-44.
- Stone, Donald D., to Bank of America National Trust and Savings Association, as agent. Pressurizing and ventilating system and apparatus for internal-combustion engines and transmission mechanisms. 2,782,773, 2-26-57, Cl. 123-1.
- Stone, Herbert: See—
- Baller, Maurice H., Bole, and Stone. 2,794,079.
- Stone, Howard C.: See—
- Bell, Thomas W., and Stone. 2,792,709.
- Stone, Irving C.: See—
- Kurz, Harry F. 2,791,226.
- Stone, Joseph J., Jr., E. R. Mann, and E. S. Bettis, to the United States of America as represented by the United States Atomic Energy Commission. Electronic digital computer. 2,808,986, 10-8-57, Cl. 235-61.
- Stone, Kearney C. Musical instrument accessory. 2,811,888, 11-5-57, Cl. 84-383.
- Stone, N. G.: See—
- Solomon, Leonard, and Gordon. 2,780,084.
- Stone, Orison W., to Continental Can Co., Inc. Can package. 2,814,385, 11-26-57, Cl. 206-65.
- Stone, Raymond A., to Paisley Products, Inc. Resin-dextrin compositions and method of preparation. 2,808,381, 10-1-57, Cl. 260-17.4.
- Stone, Robert A.: See—
- Schumaker, Walter G., and Stone. 2,791,465.
- Stone, Rosella M. Debris collecting apparatus. 2,782,435, 2-26-57, Cl. 15-83.
- Stone, Stanley G. Machine for automatically feeding, clamping and cutting work pieces. 2,810,438, 10-22-57, Cl. 164-61.
- Stoneburner, Charles E. Mechanical and electrical means for stimulating sales of merchandise. 2,781,949, 2-19-57, Cl. 222-27.
- Stoneman, Alan C.: See—
- Robson, Homer L., and Stoneman. 2,806,765.
- Stoner, Arthur E. Multi-purpose hand tool. 2,802,259, 8-13-57, Cl. 30-16.
- Stoner, Arthur M., and G. S. Haviland, to The Jacobs Mfg. Co. Lever operated collet chuck. 2,816,768, 12-17-57, Cl. 279-50.
- Stoner, George G., J. L. Azorlosa, and C. P. Albus, to General Aniline & Film Corp. Rubber latex compositions heat-sensitized with polyalkoxy-1-alkanols. 2,805,210, 9-3-57, Cl. 260-29.7.
- Stoner, Harry B., to Stoner Mfg. Corp. Merchandise vending mechanism. 2,816,689, 12-17-57, Cl. 221-274.
- Stoner, Lewis D. Rotary knife blade steel. 2,795,975, 6-18-57, Cl. 76-89.2.
- Stoner Mfg. Corp.: See—
- Callahan, William H., and Parre. 2,802,599.
- Stoner, Harry B. 2,816,689.
- Van Leeuwen, Gordon. 2,794,577.
- Stoner-Mudge, Inc.: See—
- Gray, Daniel M., and Reymann. 2,780,564.
- Stonestreet, George A., and G. H. Searle, to T. Wall & Sons Ltd. Apparatus for filling liquid or plastic substances into containers. 2,779,357, 1-29-57, Cl. 141-82.
- Stoney, Frederick T.: See—
- Miller, John W., and Stoney. 2,798,541.
- Stoodley, Thomas H. Automatic phonograph adjusting tool. 2,815,583, 12-10-57, Cl. 33-180.

- Stoody Co.: *See*—
Hyink, William J. 2,803,740.
- Stokey, Stanley D.: *See*—
Hood, Harrison P., and Stokey. 2,779,136.
- Stoops, Forrest D., to Phillips Petroleum Co. Low pressure drop liquid-vapor contacting tray. 2,809,820, 10-15-57, Cl. 261-106.
- Stoops, William N.: *See*—
Young, Donald M., and Stoops. 2,792,423.
- Stoothoff, Stanley T., and L. C. Williams, to Miehle-Goss-Dexter, Inc. Signature gathering machine. 2,801,846, 8-6-57, Cl. 270-56.
- Stop-Fire, Inc.: *See*—
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- Stop-Motion Devices Corp.: *See*—
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- Stoppani A. G.: *See*—
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- Stora Kopparbergs Bergslags Aktiebolag: *See*—
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- Storch, Harold A., to General Motors Corp. Draft strip for lowerable glass pane on a vehicle. 2,782,069, 2-19-57, Cl. 296-44.
- Storch, Harold A., to Evans Products Co. Loading mechanism. 2,802,429, 8-13-57, Cl. 105-368.
- Storch, Harold A., to General Motors Corp. Windhose and retaining means. 2,810,603, 10-22-57, Cl. 296-44.
- Storch, Harold A., to General Motors Corp. Latch. 2,816,787, 12-17-57, Cl. 292-126.
- Stork, Alexander D., and H. N. Divilbiss. Fluid-level warning device for a master cylinder. 2,786,914, 3-26-57, Cl. 200-84.
- Stork, Alexander D., and H. N. Divilbiss. Brake fluid-level warning device for a master cylinder. 2,811,600, 10-29-57, Cl. 200-84.
- Stork, Fred H., and W. C. Nuckles, to United Aircraft Products, Inc. Machine for welding metal O-rings. 2,809,269, 10-8-57, Cl. 219-51.
- Store Modernizing Service: *See*—
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- Storer, Clark. Pin wheel feeding unit. 2,815,672, 12-10-57, Cl. 74-243.
- Storey, Charlton H., Jr.: *See*—
Schaechlin, Walter, and Storey. 2,798,571.
- Storey, James S.: *See*—
Lodge, Dennis, Thompson, and Storey. 2,815,470.
- Storfer, Alfred. Garment. 2,779,024, 1-29-57, Cl. 2-93.
- Storie, Lloyd F., to The Vichek Tool Co. Plastic hose nozzle. 2,783,094, 2-26-57, Cl. 299-136.
- Storin, Gordon K., F. E. Lawlor, and F. Casciani, to Hooker Electrochemical Co. Plasticized vinyl polymers containing alkoxy-chlorobenzenes. 2,814,602, 11-26-57, Cl. 260-30.6.
- Stork, Alfred, to Davilo Realty Corp. Folding rack. 2,793,764, 5-28-57, Cl. 211-178.
- Stork, Gilbert, H. J. Ringold, and G. Rosenkranz, to Syntex S. A. Esters of 17 α -hydroxy progesterone. 2,805,230, 9-3-57, Cl. 260-397.4.
- Stork, Gilbert J., to Research Corp. Hormone intermediate and production thereof. 2,793,233, 5-21-57, Cl. 260-586.
- Storm, Jack S., Jr.: *See*—
Glynn, Theodore W., and Storm. 2,780,708.
- Storm, John F., to Minneapolis-Honeywell Regulator Co. Liquid level indicators. 2,787,783, 4-2-57, Cl. 340-244.
- Storm, Lynn W. Drill pipe stabilizer and guide bushing. 2,815,930, 12-10-57, Cl. 255-27.
- Storm, Walter V.: *See*—
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- Storms, Harrison A., Jr., and R. P. Davie, Jr., to North American Aviation, Inc. Adjustable wall arrangement. 2,791,240, 5-7-57, Cl. 138-45.
- Storms, John A.: *See*—
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- Storrs, Kindred L. Heat treatment of substances for the recovery of decomposition products. 2,809,154, 10-8-57, Cl. 202-9.
- Storsand, Bjarne, to Ateliers de Construction Oerlikon. Arrangement for the safety grounding of vehicles with inertia mass impulsion. 2,778,890, 1-22-57, Cl. 191-1.
- Storti, Peter, and E. C. Webb, to Iron Fireman Mfg. Co. Fuel oil conditioning system. 2,781,087, 2-12-57, Cl. 158-36.
- Story, Malcolm C. Livestock guard and gate. 2,778,123, 1-22-57, Cl. 39-5.
- Stoschy, Ludwig R. Garment hanger. 2,817,471, 12-24-57, Cl. 223-90.
- Stosiek, Arthur J.: *See*—
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- Stoskopf, Cleve W.: *See*—
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- Stosuy, Athan: *See*—
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- Stothert & Pitt Ltd.: *See*—
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- Stotler, Harold H., to Hydrocarbon Research, Inc. Endothermic reduction of iron oxide. 2,805,144, 9-3-57, Cl. 75-26.
- Stott, Louis L., and W. J. Davis, to The Polymer Corp. Method of manufacturing nylon articles having improved dimensional stability. 2,808,622, 10-8-57, Cl. 18-47.5.
- Stott, Ted: *See*—
Hill, George B., Stott, and Morr. 2,815,232.
- Stotz, Elmer W., to River Raisin Paper Co. Case for packing articles for shipment. 2,803,336, 8-20-57, Cl. 206-46.
- Stoudenheimer, Richard G., to Radio Corp. of America. Photosensitive electrode and method for producing same. 2,779,888, 1-29-57, Cl. 313-102.
- Stouder, Harold J. Flywheel spanner wrench. 2,808,750, 10-8-57, Cl. 81-90.
- Stough, Charles R., to Motor Wheel Corp. Device for securing adjustable rim on wheel body. 2,793,913, 5-28-57, Cl. 301-9.
- Stough, Gerald D., to Whitehead & Kales Co. Lift mechanism for swinging ramp of carry-car trailer. 2,780,371, 2-5-57, Cl. 214-85.
- Stough, Gerald D., to Whitehead & Kales Co. System for the handling and transportation of parts, finished articles, or packaged goods. 2,808,788, 10-8-57, Cl. 105-367.
- Stough, Gerald D., to Whitehead & Kales Co. Means for anchoring merchandise holders in transport vehicles. 2,808,789, 10-8-57, Cl. 105-369.
- Stough, Gerald D., to Whitehead & Kales Co. Anchoring means for article holders within a transport vehicle. 2,817,305, 12-24-57, Cl. 105-369.
- Stoughton, Hooker, to Scovill Mfg. Co. Trouser waistband hook. 2,778,082, 1-22-57, Cl. 24-227.
- Stout, Elmer O., to General Motors Corp. Refrigerating apparatus. 2,779,529, 1-29-57, Cl. 230-21.
- Stout, Frederick S. Skin burning apparatus. 2,785,884, 3-19-57, Cl. 263-8.
- Stout, George A. Automatic circuit breaker for vehicles. 2,816,188, 12-10-57, Cl. 200-61.45.
- Stout, George P., to Aeronca Mfg. Corp. Closure detection apparatus. 2,791,730, 5-7-57, Cl. 317-142.
- Stout, James M., to Checker Cab Mfg. Corp. For hire signal for taxi cabs. 2,783,451, 2-26-57, Cl. 340-68.
- Stout, Minor W. Water level responsive controls for combustion apparatus. 2,805,652, 9-10-57, Cl. 122-448.
- Stout, William H., and P. H. Raumaker. Automatic drain valve for pipelines. 2,775,979, 1-1-57, Cl. 137-107.
- Stout, William H., and P. H. Raumaker; said Raumaker assor. to said Stout. Wear-resisting coating for pipes and the like. 2,776,674, 1-8-57, Cl. 138-68.
- Stovall, Frank A.: *See*—
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Kilpatrick, Robert H., and Stovall. 2,808,501.
- Stovall, George T., to The New York Trust Co. and J. H. Baile, as trustees. Loop-pile-forming wires for looms. 2,808,072, 10-1-57, Cl. 139-46.
- Stovall, John R., Jr., G. C. Lawrie, and A. F. Craig, to Tinius Olsen Testing Machine Co. Automatic machine to test and correct for dynamic unbalance. 2,779,217, 1-29-57, Cl. 77-5.
- Stovall, John R., Jr., and I. Weintraub, to Tinius Olsen Testing Machine Co. Apparatus for determining dynamic unbalance. 2,783,648, 3-5-57, Cl. 73-462.
- Stover, Harris A., to Collins Radio Co. Remote control system. 2,802,979, 8-13-57, Cl. 318-467.
- Stover, Harris A., to Collins Radio Co. Temperature compensated resonant circuit. 2,810,834, 10-22-57, Cl. 250-40.
- Stover, Harry E., to Anchor Hocking Glass Corp. Hermetically sealed package and closure therefor. 2,817,453, 12-24-57, Cl. 215-31.
- Stover, Harry E., to Anchor Hocking Glass Corp. Sealed package. 2,817,454, 12-24-57, Cl. 215-40.
- Stover, Irven C. Dry rendering cooker. 2,807,634, 9-24-57, Cl. 260-412.6.
- Stover, Marshall L. Dry ore concentrating board. 2,798,608, 7-9-57, Cl. 209-480.
- Stover, Roy L. Collapsible stands. 2,778,593, 1-22-57, Cl. 248-170.
- Stover, Verne H. Dozer and loading attachment for tricycles. 2,776,767, 1-8-57, Cl. 214-140.
- Stovern, Ingram V., and F. H. Kollmeyer, to Blackhawk Mfg. Co. Hydraulic jack release valve actuator. 2,799,993, 7-23-57, Cl. 60-52.
- Stowell, John F., to General Electric Co. Double throw switch. 2,811,615, 10-29-57, Cl. 200-153.
- Stoyanoff, Louis J., to Perceptual Development Laboratories, Inc. Device for reading training. 2,775,827, 1-1-57, Cl. 35-35.
- Stoycos, George S.: *See*—
Novak, Leo J., and Stoycos. 2,798,065.
- Stoyke, Ludwig T., to Sundstrand Machine Tool Co. Pump. 2,803,196, 8-20-57, Cl. 103-223.
- Stoyke, Ludwig T., and M. M. Hann, to Sundstrand Machine Tool Co. Supercharging system for fluid pumps. 2,780,170, 2-5-57, Cl. 103-2.
- Straatveit, Nils N. Rotary machine. 2,783,714, 3-5-57, Cl. 103-131.
- Sträh, Hermann, to Robert Bosch G. m. b. H. Electrical overload protector. 2,795,725, 6-11-57, Cl. 313-325.
- Strachan, Andrew J.: *See*—
Christian, Raymond A., and Strachan. 2,788,880.
Christian, Raymond A., Strachan, and Mitchell. 2,805,822.

- Strachan, Donald R.: *See*—
Magat, Eugene E., and Strachan. 2,798,283.
Strachan & Henshaw Ltd.: *See*—
Stobb, Anton R., and Miles. 2,814,484.
Strader, Don S., to Pantex Mfg. Corp. Steam superheating apparatus. 2,785,269, 3-12-57, Cl. 219-38.
Strader, Don S., Pulsator for a hydraulic system. 2,807,141, 9-24-57, Cl. 60-54.5.
Strader, Forman E.: *See*—
Strader, Forman G., 2,813,286.
Strader, Forman G., to F. E. Strader. Disposable dusters and methods of making them. 2,813,286, 11-19-57, Cl. 15-118.
Strader, George A., and L. M. Eymann. Animated sign. 2,778,135, 1-22-57, Cl. 40-132.
Strader, Walter F. Internal combustion engine. 2,779,318, 1-29-57, Cl. 123-13.
Stradley, Norman H., and W. R. Beck, to Minnesota Mining & Mfg. Co. High-index glass elements. 2,790,723, 4-30-57, Cl. 106-47.
Stradley, Norman H., and G. C. Hann, to Minnesota Mining & Mfg. Co. Low-temperature maturing vitrifiable enameling frits. 2,800,414, 7-23-57, Cl. 106-48.
Stragnell, Gregory. Laxative composition containing albedo. 2,816,058, 12-10-57, Cl. 167-56.
Strain, André M. Injection moulding machine. 2,777,164, 1-15-57, Cl. 18-30.
Straight, David M.: *See*—
Gold, Harold, and Straight. 2,809,653.
Straight Engineering Co.: *See*—
Straight, Halver R. 2,786,587.
Straight, Halver R. 2,802,650.
Straight, Halver R. 2,818,219.
Straight Engineering Co., Inc.: *See*—
Hague, Alfred G. 2,814,400.
Straight, Halver R.: *See*—
Hague, Alfred G., and Straight. 2,786,586.
Straight, Halver R., to Straight Engineering Co. Combination door opener and grain chute for car dumpers. 2,786,587, 3-26-57, Cl. 214-46.26.
Straight, Halver R., to Straight Engineering Co. Pug mill knife. 2,802,650, 8-13-57, Cl. 259-136.
Straight, Halver R., to Straight Engineering Co. Dry pan scraper. 2,818,219, 12-31-57, Cl. 241-119.
Straight, Tully A., Jr.: *See*—
Midgley, John M., and Straight. 2,803,360.
Strain, Douglas C., to Electro-Measurements, Inc. Resistance unit. 2,786,122, 3-19-57, Cl. 201-48.
Strain, Franklin: *See*—
Neubauer, Joseph A., Strain, Kung, and Dehn. 2,797,195.
Strain, Franklin, to Columbia-Southern Chemical Corp. Bis N-substituted carmabic acid esters of polyhydric alcohols and process. 2,777,871, 1-15-57, Cl. 260-468.
Straley, James M., and R. R. Giles, to Eastman Kodak Co. Methine dye and process for its preparation. 2,776,310, 1-1-57, Cl. 260-465.
Straley, James M., and D. J. Wallace, to Eastman Kodak Co. Benzothiazoleazoaniline compounds. 2,785,157, 3-12-57, Cl. 260-158.
Stramowski, Edmund J.: *See*—
Loeffler, Alvin F., Stramowski, and Weinfurt. 2,810,522.
Weinfurt, William J., and Stramowski. 2,817,247.
Stranberg, Don P., to C. L. Conroy and W. Fritsch. Reusable hose couplings. 2,782,059, 2-19-57, Cl. 285-247.
Strand, Bert F., Jr. Knock-down support means. 2,794,496, 6-4-57, Cl. 155-196.
Strand, Carl A. Light-weight bathtub structure. 2,784,417, 3-12-57, Cl. 4-173.
Strand, Carl P.: *See*—
Olney, Richard B., and Strand. 2,779,577.
Strand, Donald K., to Stevens Sales Co., Inc. Bun slicer having adjustable blades. 2,803,279, 8-20-57, Cl. 146-73.
Strandberg, Joel G., to Bechik Products, Inc. Machine for measuring and indexing mattress border strips. 2,787,466, 4-2-57, Cl. 271-2.5.
Strandell, John H. Mechanical controllable pitch propeller. 2,798,564, 7-9-57, Cl. 170-160.32.
Strandskov, Frede B.: *See*—
Bockelmann, John B., and Strandskov. 2,798,811.
Straney, Kenneth O.: *See*—
Radnar, Richard B., and Straney. 2,788,659.
Strang, Charles D., to Kiekhaefer Corp. Outboard motor with planing surface. 2,791,196, 5-7-57, Cl. 115-17.
Strang, Peter M. Preparation of textile strands comprising fibres having different characteristics. 2,817,947, 12-31-57, Cl. 57-12.
Strange, Charles H. Control instruments for kilns, or ovens. 2,797,280, 6-25-57, Cl. 200-137.
Strange, Charles H. Thermo-sensitive switches. 2,810,044, 10-15-57, Cl. 200-137.
Strange, John, to Tinnerman Products Inc. Fuze clips. 2,779,280, 1-29-57, Cl. 102-27.
Strange, John P., to Mine Safety Appliances Co. Combustible gas indicator and filament therefor. 2,805,134, 9-3-57, Cl. 23-255.
Strasburg, Jesse L. Golf club carrier. 2,799,315, 7-16-57, Cl. 150-1.5.
Strasel, Raymond K., to Jacobsen Mfg. Co. Lawn edger and trimmer. 2,787,107, 4-2-57, Cl. 56-25.4.
Strasburgh, R. J., Co.: *See*—
Gustus, Edwin L. 2,811,492.
Strassburger, Julius H., to National Steel Corp. Method of and apparatus for operating metallurgical furnaces. 2,778,018, 1-15-57, Cl. 266-30.
Strasser, Dale M., F. E. Guptill, and C. P. Marión, to The Texas Co. Gasification of liquid fuels. 2,809,104, 10-8-57, Cl. 48-215.
Strassmann, Albert K. G., Prazisions-Werkzeug- und Maschinenfabrik: *See*—
Oesterheld, Max. 2,796,672.
Straster, Lafe R. Base for road signal. 2,806,670, 9-17-57, Cl. 248-167.
Stratafoam Corp.: *See*—
Haldy, Burton F. 2,783,091.
Strategic-Udy Metallurgical & Chemical Processes: *See*—
Udy, Marvin J. 2,814,658.
Strategic-Udy Metallurgical & Chemical Processes Ltd.: *See*—
Udy, Marvin J. 2,800,396.
Udy, Marvin J. 2,801,156.
Udy, Marvin J. 2,805,929.
Udy, Marvin J. 2,805,930.
Stratford Engineering Corp.: *See*—
Putney, David H. 2,800,307.
Stratoseal Mfg. Co.: *See*—
Kruss, Samuel A., and Brown. 2,816,950.
Stratton, Arthur J.: *See*—
Cooper, Joseph H., and Stratton. 2,816,045.
Ehrlich, Felix F., and Stratton. 2,816,114.
Stratton, Charles A., to Phillips Petroleum Co. Drilling fluid. 2,816,073, 12-10-57, Cl. 252-8.5.
Stratton, David C.: *See*—
Anderson, Cleophas E., and Stratton. 2,793,278.
Stratton, Edgar H., and H. M. Fisher, to Adamson United Co. Door mounting for autoclaves and the like. 2,780,384, 2-5-57, Cl. 220-38.
Stratton, Frank E.: *See*—
Ericson, Roy G., and Stratton. 2,783,838.
Stratton, Frank E., to United Shoe Machinery Corp. Heel end assembling and breast line lasting machines. 2,799,875, 7-23-57, Cl. 12-12.3.
Stratton, Hal: *See*—
McNeill, Robert C., Stratton, and Rhodes. 2,808,230.
Stratton, Paul E., Jr., to Carr Industries. Foldable wheeled golf club carrier. 2,783,054, 2-26-57, Cl. 280-42.
Straub, Augustus A. Coil support for annealing furnaces. 2,797,078, 6-25-57, Cl. 263-47.
Straub, Hermann, to Zahnradfabrik Friedrichshafen. Contact elongation meter. 2,812,657, 11-12-57, Cl. 73-88.5.
Straub, Lawrence S. Controlled time interval playback mechanism. 2,799,731, 7-16-57, Cl. 179-100.1.
Strauch, Raymond H., R. A. Allezard, and J. C. Menn. Circularly polarized antenna. 2,786,199, 3-19-57, Cl. 343-857.
Straughn, John L.: *See*—
Myers, Lew L., Parish, and Straughn. 2,808,832.
Straumann, Reinhard. Mainspring composed of nickel base alloys. 2,805,945, 9-10-57, Cl. 75-171.
Strauss, Herman H., to Crown Zellerbach Corp. Container and a handle. 2,807,389, 9-24-57, Cl. 220-105.
Strauss, Jack, to Camera Vision, Inc. System for monitoring moving picture production. 2,796,799, 6-25-57, Cl. 88-16.
Strauss, Jerome, to Vanadium Corp. of America. Composition for addition to cast iron or steel. 2,805,150, 9-3-57, Cl. 75-125.
Strauss, Leopold: *See*—
Holloway, Robert L., Bohm, Zuercher, and Strauss. 2,781,195.
Holloway, Robert L., Strauss, and Levendoski. 2,776,138.
Strauss, Leopold, and G. E. Gampp, to American Machine & Foundry Co. Pin changing mechanism for bowling pin spotting machines. 2,786,679, 3-26-57, Cl. 273-43.
Strauss, Levi, and Co.: *See*—
Cone, Clarence N., and Hughes. 2,792,616.
Strauss, Manfred, and P. Truninger, to Buss A. G. Hydraulic control gears for the storage of goods, particularly for the parking of automobiles. 2,784,852, 3-12-57, Cl. 214-16.1.
Strauss, Robert G., to Plax Corp. Plastic blow molding apparatus. 2,804,648, 9-3-57, Cl. 18-30.
Strauss, Walter L. Multiple vehicle toy. 2,782,559, 2-26-57, Cl. 46-206.
Straw, Jesse H., to The Sheffield Corp. Compact head for pneumatic bore gauge. 2,802,276, 8-13-57, Cl. 33-178.
Strazdins, Edward: *See*—
Drechsel, Erhart K., Hastings, and Strazdins. 2,791,578.
Strazdins, Edward, to American Cyanamid Co. Rosin and rosin size stabilized against crystallization. 2,776,275, 1-1-57, Cl. 260-97.5.
Strazdins, Edward, and R. Hastings, to American Cyanamid Co. Dry tall oil rosin size compositions. 2,776,221, 1-1-57, Cl. 106-218.
Strazzeri, Harold D., to Albany Felt Co. Jacketboard. 2,795,243, 6-11-57, Cl. 139-291.
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Benson, Irving N., and Vogel. 2,793,618.
Streater, Jack W., and W. J. Popowsky, to Minneapolis-Honeywell Regulator Co. Shaded pole motor control apparatus. 2,783,423, 2-26-57, Cl. 318-32.
Strecker, Charles E., to General Electric Co. Ballast transformer for electric discharge devices. 2,793,326, 5-21-57, Cl. 315-257.

- Strecker, Charles E., to General Electric Co. Electrical transformer ballast. 2,796,554, 6-18-57, Cl. 315-97.
- Strecker, Charles E., to General Electric Co. Transformer. 2,810,100, 10-15-57, Cl. 315-97.
- Strecker, Harold A.: *See*—
Hughes, Everett C., and Strecker. 2,783,134.
Hughes, Everett C., and Strecker. 2,813,114.
Hughes, Everett C., Strecker, and Jones. 2,783,185.
- Strecker, Harold A., and H. M. Stine, to The Standard Oil Co. Process for reforming hydrocarbons with an alumina-chromium oxide catalyst containing either germanium oxide, indium oxide or gallium oxide. 2,784,147, 3-5-57, Cl. 196-50.
- Strecker, Harold A., and H. M. Stine, to The Standard Oil Co. Chromia-alumina base reforming catalyst having a low rate of crystallization. 2,796,410, 6-18-57, Cl. 252-465.
- Streckfuss, Elmer G., to Barry-Wehmler Machinery Co. Case unloader. 2,799,414, 7-16-57, Cl. 214-309.
- Street, Harry W. L. Testing means for a primer. 2,777,323, 1-15-57, Cl. 73-35.
- Street, Leslie J., to Kelvin & Hughes Ltd. Multiplying and dividing mechanisms. 2,783,650, 3-5-57, Cl. 74-1.
- Street, Lloyd J., to Crown Cork & Seal Co., Inc. Filling structure. 2,801,651, 8-6-57, Cl. 141-44.
- Street, R. R., & Co., Inc.: *See*—
Mathews, Martin B., and Stauffer. 2,785,134.
Mathews, Martin B., and Stauffer. 2,785,135.
- Streeter-Amet Co.: *See*—
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- Streeter, Ralph W. Bed. 2,801,428, 8-6-57, Cl. 5-362.
- Strehan, George E.: *See*—
Donahue, John S., and Strehan. 2,816,435.
- Streicher, Michael A., to E. I. du Pont de Nemours and Co. Corrosion-inhibition of oxalic acid. 2,793,190, 5-21-57, Cl. 252-100.
- Streicher, Michael A., to E. I. du Pont de Nemours and Co. Corrosion inhibition of monobasic acids. 2,793,191, 5-21-57, Cl. 252-147.
- Streicher, Michael A., to E. I. du Pont de Nemours and Co. Cleaning stainless steel. 2,806,000, 9-10-57, Cl. 252-136.
- Strelakos, George P., and G. Cockoros. Means for controlling infant's hands. 2,806,472, 9-17-57, Cl. 128-134.
- Strelow, Heinz G. E., and A. W. Dinger, to Schoppe & Faeser G. m. b. H. Instruments for two-flank testing of toothed wheels. 2,815,581, 12-10-57, Cl. 33-179.5.
- Strelzoff, Samuel: *See*—
Roberts, Edward S., and Strelzoff. 2,787,521.
Wan, Shen W., Strelzoff, and Barr. 2,785,045.
- Stressteel Corp.: *See*—
Dobell, Curzon. 2,781,658.
- Streuber, Rudolf G., to Research Corp. Switch and systems for utilizing the same. 2,814,763, 11-26-57, Cl. 315-226.
- Streuber, Rudolf G., and H. L. Richardson, to Research Corp. Insulator compartment and control therefor. 2,794,847, 6-4-57, Cl. 174-18.
- Streuber, Rudolf G., and H. L. Richardson, to Research Corp. Insulator compartment and control therefor. 2,806,896, 9-17-57, Cl. 174-18.
- Streun, John A., to Hardwicke-Etter Co. Cotton gin system. 2,803,044, 8-20-57, Cl. 19-72.
- Striar, Max B. Knitting machine. 2,810,279, 10-22-57, Cl. 66-125.
- Stribling, George W.: *See*—
Stribling, Ray A. 2,807,254.
- Stribling, Ray A., 49% to G. W. Stribling. Sling shot. 2,807,254, 9-24-57, Cl. 124-20.
- Stribling, Sidney. Apparatus for replacing the bristles of street sweeper broom drums. 2,818,300, 12-31-57, Cl. 300-14.
- Stribling, Stiles C., Jr.: *See*—
Howery, Richard W., Sheeder, and Stribling. 2,798,946.
- Strickland, Thomas H.: *See*—
Bell, Alan, Kibler, and Strickland. 2,794,826.
- Strickler, Monroe L.: *See*—
Alcorn, Estes E. 2,799,319.
- Strickler, Robert R., to J. A. Webb Belting Co., Inc. Guard equipment for roller type conveyors. 2,801,730, 8-6-57, Cl. 198-204.
- Stricklett, Lloyd P., and J. W. Horvath, to New Tools Co., Inc. Wrench having adjustable jaws. 2,801,562, 8-6-57, Cl. 81-163.
- Stridh, Carl H. Casing treating machine plants. 2,814,826, 12-3-57, Cl. 17-43.
- Strike, George N. Clothes pre-drier and conditioner. 2,802,283, 8-13-57, Cl. 34-87.
- Strikfelt, W. & Co.: *See*—
Gumz, Wilhelm, and Becker. 2,799,576.
- Strimel, Robert S., to Tinius Olsen Testing Machine Co. Recording unit. 2,784,048, 3-5-57, Cl. 346-32.
- Strimel, Robert S., to Tinius Olsen Testing Machine Co. Registering system for use in conjunction with testing machines. 2,808,721, 10-8-57, Cl. 73-88.5.
- Strimel, Robert S., to Tinius Olsen Testing Machine Co. Recording device for use in conjunction with testing machine. 2,812,229, 11-5-57, Cl. 346-32.
- Strimel, Robert S., to Tinius Olsen Testing Machine Co. Extensometer. 2,814,883, 12-3-57, Cl. 33-147.
- Strimel, Robert S., to Tinius Olsen Testing Machine Co. Driving mechanism for recorder pens or the like. 2,815,675, 12-10-57, Cl. 74-422.
- Strinden, Peder. Arm slings. 2,807,261, 9-24-57, Cl. 128-94.
- Strine, Eli R.: *See*—
Cramer, George L., Raffensberger, and Strine. Re. 24,334.
Stringham, Leonidas K., and P. E. Jerabek, to The Lincoln Electric Co. Arc-welding compositions. 2,814,579, 11-26-57, Cl. 148-26.
- Strip, Joseph: *See*—
Breckman, Jack N., and Strip. 2,799,735.
- Stripling, Allen A., to Socony Mobil Oil Co., Inc. Acoustic velocity-electrical resistance correlation well logging. Re. 24,280, 2-19-57, Cl. 324-1.
- Strippgen, Walter E.: *See*—
Hermeyer, Edward J., and Strippgen. 2,779,865.
- Stritter, Karl A., to United Shoe Machinery Corp. Methods of preparing ribbed insoles for welt shoes. 2,794,996, 6-11-57, Cl. 12-146.
- Stritter, Karl A., deceased, by K. F. Stritter, executrix, and Essex Trust Co., executor, to United Shoe Machinery Corp. Slashed welting for shoes. 2,807,103, 9-24-57, Cl. 36-78.
- Stritter, Karl A., to United Shoe Machinery Corp. Flexible insoles provided with removable forepart stiffening means. 2,809,450, 10-15-57, Cl. 36-44.
- Stritter, Kate F.: *See*—
Stritter, Karl A. 2,807,103.
- Strobel, Albert F.: *See*—
Freyermuth, Harlan B., and Strobel. 2,809,962.
- Strobel, Charles K., and G. F. Conner, to Robertshaw-Fulton Controls Co. Thermostatic control device. 2,806,655, 9-17-57, Cl. 236-102.
- Strobel-Fuchs, Margot. Automatic disinfecting devices for public places. 2,784,465, 3-12-57, Cl. 21-77.
- Strobel, Paul F.: *See*—
Crowe, Fred C., and Strobel. 2,816,387.
- Strobino, Louis J. Leather product and method for making same. 2,785,086, 3-12-57, Cl. 117-65.
- Strobl, Fred P., to Jas. P. Marsh Corp. Reinforced case for gauges. 2,803,138, 8-20-57, Cl. 73-431.
- Stroble, Joe A., to the United States of America as represented by the Secretary of the Navy. Inductor form. 2,795,765, 6-11-57, Cl. 336-192.
- Stroebe, Alfred: *See*—
Lasch, Albert, and Stroebe. 2,778,482.
- Strogen, William A., to Crescent Puritan Laundry, Inc. Ironing machine. 2,810,217, 10-22-57, Cl. 38-59.
- Stroh, Rudolf, H. Gerber, and H. Gensel, to Farbenfabriken Bayer Aktiengesellschaft. N-substituted polyacrylamide sizing material composition and method. 2,803,607, 8-20-57, Cl. 260-8.
- Stroh, Rudolf, and J. Ebersberger, to Farbenfabriken Bayer Aktiengesellschaft. Production of hydroxyether amides of polyacrylic acid. 2,808,397, 10-1-57, Cl. 260-89.7.
- Strohm, Elwood, to MacGregor Sport Products, Inc. Protective helmet. 2,785,404, 3-19-57, Cl. 2-3.
- Strohm, Fred T. Mower bar with oscillating cutter elements. 2,793,488, 5-28-57, Cl. 56-293.
- Strohmaier, Richard G. Folding carrier device. 2,809,047, 10-8-57, Cl. 280-36.
- Strohmeier, Gerolf. Apparatus for preparing metals and alloys from substances containing fine-grain metal. 2,782,022, 2-19-57, Cl. 266-8.
- Strohmeier, Harald. Feeding-device for conducting-wires, especially designed for heating and drying coating-materials applied to welding-rods. 2,779,861, 1-29-57, Cl. 219-156.
- Strojny, Edwin J.: *See*—
Colton, Frank B., and Strojny. 2,813,109.
Colton, Frank B., and Strojny. 2,813,110.
- Strokes, George T., to Glo Quartz Electric Heater Co., Inc. Immersion heater. 2,780,715, 2-5-57, Cl. 219-41.
- Strolee of California, Inc.: *See*—
Smith, Paul C. 2,798,730.
- Strollis, Edward A. Safety device for outboard motors. 2,785,563, 3-19-57, Cl. 70-58.
- Strom, Albert P.: *See*—
Lingal, Harry J., Browne, and Strom. 2,798,922.
- Strom, Barney O.: *See*—
Robertson, Harold E., and Strom. 2,781,245.
- Strom, Charles F., to Griffin Wheel Co. Composite roll structure with hard case. 2,812,571, 11-12-57, Cl. 29-130.
- Strom, Sigvald. Collapsible child's bed. 2,776,441, 1-8-57, Cl. 5-174.
- Strom, William S. Device for forming joggles or offsets in angulated metallic members of the structural type. 2,792,044, 5-14-57, Cl. 153-21.
- Stromberg-Carlson Co., division of General Dynamics Corp.: *See*—
Townsend, Harold O. 2,790,899.
- Stromberg, Verner L.: *See*—
Samuelson, Gilbert J., Stromberg, and Blair. 2,810,337.
- Stromberg, Verner L., to Petrolite Corp. Certain new heterocyclic compounds and method of making same. 2,792,390, 5-14-57, Cl. 260-211.
- Stromme, Nels O. Collet chuck. 2,783,051, 2-26-57, Cl. 279-50.
- Strona, Secondo B. Portable truck crane. 2,778,512, 1-22-57, Cl. 214-75.
- Strong, Allen K., to American Cyanamid Co. Storage bin and blender therefor. 2,805,802, 9-10-57, Cl. 222-564.
- Strong, David H., to Collins Radio Co. Gear loading device. 2,810,314, 10-22-57, Cl. 81-90.

- Strong Electric Corp., The: *See*—
Hatch, Arthur J. 2,785,333.
Hatch, Arthur J. 2,806,167.
Strong, Harry H., Hatch, Winzeler and Starks. 2,789,245.
Strong, Harry H., A. J. Hatch, Jr., J. W. Winzeler and C. A. Starks, to The Strong Electric Corp. Arc lamp. 2,789,245, 4-16-57, Cl. 314-73.
Strong, Herbert M., and F. P. Bundy, to General Electric Co. Liquefied gas container. 2,776,776, 1-8-57, Cl. 220-9.
Strong, James S., to Rohm & Haas Co. N-tert-octyl glycine. 2,787,640, 4-2-57, Cl. 260-534.
Strong, Raymond E. Stapling device. 2,776,431, 1-8-57, Cl. 1-3.
Strong-Scott Mfg. Co.: *See*—
Swanson, Rolf G. 2,801,750.
Swanson, Rolf G. 2,801,757.
Strong, Walter J.: *See*—
Yoho, John R., and Strong. 2,810,238.
Strongcraft Products, Inc.: *See*—
Jones, Llewellyn. 2,784,870.
Strosche, Hermann K. J., to International Standard Electric Corp. Method of producing selenium rectifiers. 2,807,762, 9-24-57, Cl. 317-241.
Strosche, Hermann K., and O. J. Klein, to International Standard Electric Corp. Counter electrode for dry disk type rectifiers. 2,787,745, 4-2-57, Cl. 317-241.
Stroud, Robert A., to Tidewater Oil Co. Method and apparatus for purifying water. 2,785,123, 3-12-57, Cl. 210-16.
Strough, Robert I.: *See*—
Anderson, Wilmer C., and Strough. 2,776,403.
Stroukoff Aircraft Corp.: *See*—
Grudin, Daniel. 2,777,652.
Stroup, Earl L., to Overhead Door Corp. Upwardly acting door assemblies. 2,793,690, 5-28-57, Cl. 160-201.
Stroup, George R.: *See*—
Walsh, Ray J., and Stroup. 2,800,159.
Stroup, Robert C., to Union Carbide and Carbon Corp. Shaped carbon article and process of producing the same. 2,799,052, 7-16-57, Cl. 18-54.7.
Strouse, George C., to Allied Chemical & Dye Corp. Blue sulfur dyestuffs and processes for manufacturing them. 2,801,995, 8-6-57, Cl. 260-134.
Stroyvonss, Edward, Sr. Can opener. 2,786,269, 3-26-57, Cl. 30-11.
Strube, Richard E., to The Upjohn Co. 3-acylamidorhodanines and process for preparation. 2,781,347, 2-12-57, Cl. 260-295.
Strube, Richard E., to The Upjohn Co. Isonicotinylidithiocarbazates. 2,813,870, 11-19-57, Cl. 260-270.
Strubel, Gilbert G.: *See*—
Huether, George F., and Strubel. 2,796,001.
Strübi, Max. Hand-operated dry shaver. 2,798,287, 7-9-57, Cl. 30-43.
Struble, Charles H., and R. E. Stephens, to The Miami Margarine Co. Method of making an edible oil preparation. 2,787,550, 4-2-57, Cl. 99-118.
Struble, Glenn E., to The Gardner Board and Carton Co. Display box. 2,796,978, 6-25-57, Cl. 206-45.11.
Struck, Charles R. Fluid sampling device. 2,784,594, 3-12-57, Cl. 73-422.
Structo Mfg. Co.: *See*—
Gokey, Joseph G. 2,810,984.
Structural Clay Products Research Foundation: *See*—
Monk, Clarence B., Alsterda, Young, and Johnson. 2,777,184.
Tayler, Robert B. 2,781,657.
Taylor, Robert B., and Johnson. 2,778,491.
Struers, H., Chemiske Laboratorium: *See*—
Jørgensen, Villy V. 2,796,581.
Strum, Ruger and Co.: *See*—
Ruger, William B. 2,806,316.
Struna, William F. Classroom teaching device. 2,803,069, 8-20-57, Cl. 35-31.
Strunk, Edward, to Phillips Petroleum Co. Refinery blow-down and relief system. 2,792,070, 5-14-57, Cl. 183-2.
Strunk, Justin R. Golf practicing device. 2,801,857, 8-6-57, Cl. 273-186.
Struthers, John R., to I-T-E Circuit Breaker Co. Non-frequency responsive A-C. voltage relay for distribution systems. 2,783,394, 2-26-57, Cl. 307-64.
Struve, William S., and A. D. Reidingen, to E. I. du Pont de Nemours & Co. Azo dyes and pigments. 2,808,400, 10-1-57, Cl. 260-202.
Struve, William S., to E. I. du Pont de Nemours and Co. Benzene dicarboxylic acid derivatives. 2,808,433, 10-1-57, Cl. 260-518.
Struven, Warren C., to the United States of America as represented by the United States Atomic Energy Commission. Gating circuit. 2,781,448, 2-12-57, Cl. 250-27.
Struven, Warren C., to the United States of America as represented by the United States Atomic Energy Commission. Timing circuit. 2,792,535, 5-14-57, Cl. 317-142.
Stryker, Norman R., to Bell Telephone Laboratories, Inc. Loudness indicator. 2,808,475, 10-1-57, Cl. 179-175.
Strzala, Kazimer A.: *See*—
Menohar, Pearson T., and Strzala. 2,809,245.
Stuart, Alexander H.: *See*—
Porter, Burke E., and Stuart. 2,789,599.
Stuart, Alfred A., to Bendix Aviation Corp. Ionizing true airspeed indicator. 2,783,647, 3-5-57, Cl. 73-194.
Stuart, Alfred A., Jr., to Bendix Aviation Corp. Method and apparatus for reproducing magnetically recorded signals. 2,785,233, 3-12-57, Cl. 179-100.2.
Stuart, Archibald P.: *See*—
Bartlett, Shirley C., Johnson, and Stuart. 2,808,423.
Stuart, Archibald P., to Sun Oil Co. Separation of xylenes by extraction with an aqueous sulfuric acid-aromatic sulfonic acid solvent. 2,802,888, 8-13-57, Cl. 260-674.
Stuart, Archibald P., to Sun Oil Co. Hydrazine manufacture. 2,813,067, 11-12-57, Cl. 204-59.
Stuart, Archibald P., to Sun Oil Co. Process for refining hydrocarbons with boron trifluoride and oxygen. 2,814,586, 11-26-57, Cl. 196-29.
Stuart, Charles E. Tooth block with metal onlay. 2,776,485, 1-8-57, Cl. 32-2.
Stuart, Charles E. Hinge axis locating apparatus. 2,806,284, 9-17-57, Cl. 32-20.
Stuart, Charles E. Mandibular movement recorder. 2,814,876, 12-3-57, Cl. 32-19.
Stuart, Charles E. Dental articulator. 2,816,360, 12-17-57, Cl. 32-32.
Stuart, Clarence C., to Traffic Transport Engineering, Inc. Skid support. 2,786,563, 3-26-57, Cl. 193-41.
Stuart Corp.: *See*—
Stuart, Fred E. 2,790,064.
Stuart, Fred E., to Stuart Corp. Method and apparatus for room conditioning. 2,790,064, 4-23-57, Cl. 219-39.
Stuart, Harvey O. Self aligning tool holder for turret lathes. 2,793,867, 5-28-57, Cl. 279-16.
Stuart, Joseph, II, to Hercules Powder Co. Preparation of shredded wood pulp. 2,812,790, 11-12-57, Cl. 144-309.
Stuart, Joseph, III, to General Motors Corp. Variable pitch propeller control mechanism. 2,808,891, 10-8-57, Cl. 170-160.17.
Stuart-Webb, Isobel A.: *See*—
Petrov, Vladimir, Stuart-Webb, and Patel. 2,816,901.
Rajchman, Jan A., Stuart-Williams, and Endres. Re. 24,359.
Stuart-Williams, Raymond: *See*—
Rajchman, Jan A., Stuart-Williams, and Valentine. 2,796,086.
Stuart-Williams, Raymond, to Radio Corp. of America. Pulse amplifier. 2,797,265, 6-25-57, Cl. 179-171.
Stuart-Williams, Raymond, to Telemeter Magnetics and Electronics Corp. Magnetic memory system. 2,802,203, 8-6-57, Cl. 340-174.
Stuart-Williams, Raymond, to Telemeter Magnetics and Electronics Corp. Magnetic core memory system. 2,809,367, 10-8-57, Cl. 340-174.
Stuart-Williams, Raymond, to Telemeter Magnetics and Electronics Corp. Core-testing fixture. 2,817,809, 12-24-57, Cl. 324-34.
Stuart-Williams, Raymond, and M. Rosenberg, to Telemeter Magnetics and Electronics Corp. Magnetic switching circuit. Re. 24,387, 11-5-57, Cl. 307-88.
Stubbe, James S., to A. O. Smith Corp. Engine-generator coupling. 2,815,974, 12-10-57, Cl. 290-40.
Stubbe, Walter A.: *See*—
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Stubbings, John E., and A. J. Hirst, to The British Thomson-Houston Co. Ltd., and Metalastik Ltd. Epicyclic gearboxes. 2,801,552, 8-6-57, Cl. 74-801.
Stubbins, Daniel E., to Radio Corp. of America. Cathode ray tube deflection yoke. 2,800,615, 7-23-57, Cl. 317-200.
Stubbs, Henry F., to Frederick Snare Corp. Method for erecting and dismantling support structure. 2,817,212, 12-24-57, Cl. 61-46.5.
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Slocum, Charles W. 2,781,484.
Slocum, Charles W. 2,781,485.
Stuchbery, Arthur L., to The Metal Box Co. Ltd. Metal sheet feeding devices. 2,805,856, 9-10-57, Cl. 271-51.
Stuchlik, René E. F., and J. Rosset, to Crylor. New filaments of polymers or copolymers having a basis of acrylonitrile and process for their manufacture. 2,788,563, 4-16-57, Cl. 28-82.
Stuck, Harold D., to John W. Bolton & Sons, Inc. Manually manipulable self lubricating hone. 2,802,317, 8-13-57, Cl. 51-213.
Stucke, Charles G., to The Garlock Packing Co. Seal. 2,816,784, 12-17-57, Cl. 288-2.
Stucke, John. Opposed piston sleeve valve outboard motor. 2,781,748, 2-19-57, Cl. 123-51.
Stucke, John. Opposed piston sleeve valve outboard motor. 2,781,749, 2-19-57, Cl. 123-51.
Stucky, Jonas L. Egg candler. 2,806,403, 9-17-57, Cl. 88-14.8.
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Torosian, Edward. 2,799,871.
Studebaker, John G.: *See*—
Studebaker, John W. and J. G. 2,789,370.
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 Hasbany, Woodrow A. 2,795,309.
 Lucia, Carroll J. 2,782,657.
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 Panik, Joseph J. 2,813,748.
 Pringham, Henry E. J. 2,813,752.
 Sorensen, Helge B. 2,803,228.
 Stanis, Alexander. 2,813,712.
 Sundberg, Carl W., and Pepin. 2,783,081.
 Taylor, Ross E. 2,817,326.
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- Studer, Martin, to Societe de la Viscose Suisse. Viscose spinning process. 2,796,319, 6-18-57, Cl. 18-54.
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- Studer, Paul A., and V. S. Salvin, to Celanese Corp. of America. Vat dyeing of cellulose ethers and esters. 2,798,788, 7-9-57, Cl. 8-36.
- Studi E. Brevetti Applicazioni Tessili S. r. l.: *See*—
 Severini, Goffredo. 2,814,939.
- Stidle, Hermann, and J. Marti, to Draize S. A. Vehicle-mounted excavating and material-handling equipment. 2,777,589, 1-15-57, Cl. 214-140.
- Studler, Aurele A. Grinding device for tools. 2,797,538, 7-2-57, Cl. 51-219.
- Stuebs, Walter H. Drive gear throw-out for barn cleaner. 2,813,434, 11-19-57, Cl. 74-405.
- Stueland, Harold M., to Deere & Co. Tractor mounted scoop. 2,788,188, 4-9-57, Cl. 214-140.
- Stuellein, William H.: *See*—
 Tremblay, Bernard G., and Stuellein. 2,785,347.
- Stuelpnagel, Thomas R., and P. R. Verbeke, to Hughes Tool Co. Electric circuit contacts. 2,796,491, 6-18-57, Cl. 200-105.
- Sturmer, Karl, to General Motors Corp. Low tension spark plug, and process for making same. 2,791,022, 5-7-57, Cl. 29-25.12.
- Sturmer, Karl, to General Motors Corp. Low tension spark plug. 2,791,023, 5-7-57, Cl. 29-25.12.
- Stuetzer, Otmar M., to General Mills, Inc. Electric regulator. 2,806,115, 9-10-57, Cl. 201-57.
- Stuewer, Reinhold F., to Grove Silk Co. Stretchable fabric and method of making same. 2,796,655, 6-25-57, Cl. 28-72.
- Stuewer, Reinhold F., to Grove Silk Co. Stretchable fabric and method of making same from multiplicity of yarn ends. 2,807,073, 9-24-57, Cl. 28-76.
- Stuhlfauth, George: *See*—
 Clough, Robert C., Dvorak, and Stuhlfauth. 2,801,328.
- Stukenborg, Louis C. Longitudinally extending key locking means in combination with engaged threaded members. 2,794,474, 6-4-57, Cl. 151-8.
- Stull, Francis S. Can opener. 2,788,572, 4-16-57, Cl. 30-61.
- Stumbeck, Max J.: *See*—
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- Stumbeck, Max J., to Baker & Co., Inc. Compound metal stock. 2,793,423, 5-28-57, Cl. 29-194.
- Stumbeck, Max J., to Baker & Co., Inc. Electrical contact material. 2,796,346, 6-18-57, Cl. 75-173.
- Stump, Charles E. Limb-holder. 2,817,887, 12-31-57, Cl. 24-73.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Motion-transmitting device, particularly for the steering mechanism of motor vehicles. 2,780,943, 2-12-57, Cl. 74-459.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Vehicle drive shaft arrangement between power plant and axle. 2,785,763, 3-19-57, Cl. 180-54.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Hand-brake operating device. 2,793,535, 5-28-57, Cl. 74-152.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Fuel-injection engine. 2,799,256, 7-16-57, Cl. 123-32.
- Stump, Harvey, to Hughes Aircraft Co. Junction-type semiconductor devices. 2,802,159, 8-6-57, Cl. 317-235.
- Stump, Lewis S.: *See*—
 Boice, William B., and Stump. 2,810,408.
- Stump, Wilbur F. Thermostats. 2,799,748, 7-16-57, Cl. 200-137.
- Stumpf, Lawrence R. Arched protective adhesive bandage. 2,785,677, 3-19-57, Cl. 128-156.
- Stumpfhaus, Clarence H., to H. K. Porter Co., Inc., of Pittsburgh. High capacity contact assembly. 2,786,922, 3-26-57, Cl. 200-170.
- Stümpfig, Friedrich, and C. Bellwinkel. Four-stroke internal combustion engines and method of operation therefor. 2,799,257, 7-16-57, Cl. 123-34.
- Stupell, Carole. On the cuff memorandum device. 2,776,848, 1-8-57, Cl. 281-1.
- Stupell, Norman J., to Signa-Craft, Inc. Decorative plate and mounting. 2,781,594, 2-19-57, Cl. 40-2.
- Stupka, Wilma G., trustee: *See*—
 Swenson, Paul F. 2,815,175.
- Sturari, Chermino. Adjustable shock absorber. 2,780,321, 1-8-57, Cl. 188-88.
- Sturdy, Norris C. Jointer blade sharpener. 2,802,318, 8-13-57, Cl. 51-231.
- Sturgeon, Edward G.: *See*—
 Andrae, Maynard R., Carmichael, and Sturgeon. 2,780,249.
 Carmichael, Thomas F., and Sturgeon. 2,786,950.
- Sturgeon, Stocker S., to The Foxboro Co. Magnetic flow measuring apparatus. 2,800,016, 7-23-57, Cl. 73-194.
- Sturges, A. Hiram: *See*—
 Morton, Glen R. 2,795,360.
- Sturges, Albert L., to Machlett Laboratories, Inc. Exhaust duct for an electron tube. 2,802,134, 8-6-57, Cl. 313-326.
- Sturgis, Bernard L., to Otcraft Products, Inc. Lawn edger. 2,805,537, 9-10-57, Cl. 56-249.
- Sturgis Posture Chair Co.: *See*—
 Fisher, Walter M. 2,784,769.
 Wilson, James H. 2,794,760.
 Wilson, James H. 2,805,034.
- Sturm, Erwin. Hydraulic transmission. 2,791,184, 5-7-57, Cl. 103-120.
- Sturm, Helmut, to Simmons Co. Spring assembly machine. 2,788,119, 4-9-57, Cl. 203-135.
- Sturm, Hermann. Grate with central outlet duct. 2,793,627, 5-28-57, Cl. 122-371.
- Sturm, Walter V.: *See*—
 Greene, Claude E., and Sturm. 2,781,684.
- Sturman, Alton W. Flushing mechanism for water closets. 2,783,475, 3-5-57, Cl. 4-43.
- Sturman, Alton W. Valve for water closets. 2,814,305, 11-26-57, Cl. 137-40.
- Sturmer, Frederic E., to Hanes Hosiery Mills Co. Hosiery display devices. 2,810,212, 10-22-57, Cl. 35-56.
- Sturmev-Archer Gears Ltd.: *See*—
 Brown, William. 2,816,634.
- Sturr, George B. T.: *See*—
 Sturr, Margaret T. 2,776,358.
- Sturr, Margaret T., $\frac{1}{2}$ to G. B. T. Sturr, and $\frac{1}{2}$ to R. P. Sturr, Jr. Frankfurter cooker. 2,776,358, 1-1-57, Cl. 219-19.
- Sturr, Robert P., Jr.: *See*—
 Sturr, Margaret T. 2,776,358.
- Sturtevant, Foster E., to Colt's Patent Fire Arms Mfg. Co., Inc. Barrel positioning means for automatic pistol. 2,776,602, 1-8-57, Cl. 89-196.
- Sturtevant, Mark J., to Chrysler Corp. Sealing structure. 2,778,695, 1-22-57, Cl. 308-3.5.
- Sturtevant Mill Co.: *See*—
 Doyle, William T., and Hooper. 2,790,550.
- Sturtevant, Paul A. Torque applier. 2,781,881, 2-19-57, Cl. 192-56.
- Sturzenegger, August: *See*—
 Jermstad, Sigurd F., and Sturzenegger. 2,802,863.
- Sturzenegger, August, to Hoffmann-La Roche Inc. Preparation of diketene. 2,802,872, 8-13-57, Cl. 260-585.5.
- Sturzenegger, Jean, to Atelier de Construction Jonneret S. A. Device for cleaning the grille of hydraulic installations. 2,784,844, 3-12-57, Cl. 210-176.
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- Stutz & Cie: *See*—
 Stutz, Walter. 2,795,030.
 Stutz, Walter. 2,796,126.
- Stutz, Robert C., to Niagara Blower Co. Method and apparatus for concentrating aqueous solutions of hygroscopic organic substances. 2,778,782, 1-22-57, Cl. 202-46.
- Stutz, Theo, to Gesellschaft zur Förderung der Forschung an der Eidg. Techn. Hochschule. Apparatus for televising motion picture film. 2,810,015, 10-15-57, Cl. 178-7.2.
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- Stutz, Walter, to Stutz & Cie. Device for treating bobbins. 2,796,126, 6-18-57, Cl. 164-47.
- Stutel, Bernard D. Duster. 2,790,981, 5-7-57, Cl. 15-118.
- Subarsky, Daniel, to A. Fine. Non-combustible trash and waste paper container. 2,802,538, 8-13-57, Cl. 169-2.
- Subervie, André R., to Metal Superdop S. A. Process of refining pulverized metallic ores involving the production and use of ore pellets. 2,808,325, 10-1-57, Cl. 75-29.
- Subkow, Philip: *See*—
 Robbins, Albert A. 2,790,717.
- Sublett, Verner R., and G. D. Winstead. Can opener. 2,790,233, 4-30-57, Cl. 30-4.
- Sublette, Ivan H.: *See*—
 Spielberg, Arnold M., and Sublette. 2,798,667.
- Subluskey, Lee A., to Hercules Powder Co. 1-ethylidene-7-isopropyl-48-methyl-undecahydrophenanthrene. 2,806,893, 9-17-57, Cl. 260-666.
- Subluskey, Lee A., to Hercules Powder Co. Phenanthrene diols and preparation thereof. 2,817,677, 12-24-57, Cl. 260-476.
- Sucha, Joseph: *See*—
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- Sucher, Jerome. Color television tube. 2,813,211, 11-12-57, Cl. 313-73.
- Suchke, Frederick M., to Pioneer Heddle and Reed Co., Inc. Heddle frames. 2,808,073, 10-1-57, Cl. 139-92.
- Suchocki, John J.: *See*—
 Beddoes, John H., and Suchocki. 2,776,526.
- Suchocki, John J., to Owens-Illinois Glass Co. Apparatus for decorating glassware. 2,776,641, 1-8-57, Cl. 118-219.

- Suchoff, Lydia A., to the United States of America as represented by the Secretary of the Army. Method of forming an adherent film of magnesium oxide. 2,796,364, 6-18-57, Cl. 117-222.
- Suckfull, Fritz: *See*—
Putter, Rolf, and Suckfull. 2,807,627.
- Suckling, Eustace E. Intelligence transmission system. 2,781,508, 2-12-57, Cl. 340-318.
- Sudarsky, Jerry M., and R. A. Fisher, to Pacific Yeast Products, Inc. Improvement in production of vitamin B₁₂ products by propionibacterium freudenreichii. 2,816,856, 12-17-57, Cl. 195-96.
- Sudbury, John D.: *See*—
Shock, D'Arcy A., and Sudbury. 2,785,127.
- Suddarth, Lloyd J. Unattended fishing tackle with hook setting means. 2,797,516, 7-2-57, Cl. 43-15.
- Sudderth, Walter E., to Western Electric Co., Inc. Sorting devices. 2,807,364, 9-24-57, Cl. 209-75.
- Sudduth, Henry N., to The New York Air Brake Co. Three stage load compensating brake. 2,784,039, 3-5-57, Cl. 303-22.
- Suderow, George E. Hatch cover. 2,799,238, 7-16-57, Cl. 114-202.
- Sued-West-Chemic G. m. b. H.: *See*—
Kloss, Hugo. 2,811,195.
- Sueda, Robert H., and D. S. Shinoda, to San Lorenzo Nursery Co., Inc. Control for motor driven vent. 2,812,141, 11-5-57, Cl. 236-44.
- Suen, Tzeng J., and S. T. Moore, to American Cyanamid Co. Stable melamine-urea resin syrup. 2,797,206, 6-25-57, Cl. 260-67.6.
- Suen, Tzeng J., and G. H. Hicks, to American Cyanamid Co. Dipoxxy resinous compositions. 2,801,232, 7-30-57, Cl. 260-78.4.
- Suendermann, Otto J.: *See*—
Sogn, Harold J. 2,788,018.
- Suess, Theodor E., to Vereinigte Österreichische Eisen und Stahlwerke Aktiengesellschaft. Nozzle and control assembly for the introduction of fluid material into a heated chamber. 2,794,681, 6-4-57, Cl. 299-107.
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- Suesserott, Charles F., to General Electric Co. Downflow forced air heating systems. 2,776,797, 1-8-57, Cl. 236-11.
- Sugar Beet Products Co.: *See*—
Jones, John L., and Staples. 2,792,160.
Staples, Lynn W., and Vasold. 2,797,027.
- Sugarman, Meyer L., Jr.: *See*—
Moncrieff-Yeates, Alexander J., and Sugarman. 2,792,752.
- Sugarman, Stanley C. Pole bracket insulator assembly. 2,810,012, 10-15-57, Cl. 174-161.
- Sugden, Eric W., to Parmiter, Hope & Sugden Ltd. Electric fuses. 2,816,988, 12-17-57, Cl. 200-131.
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- Suhr, Fred W., to General Electric Co. Alternating current motor circuit. 2,782,351, 2-19-57, Cl. 318-103.
- Suhr, Fred W., to General Electric Co. Electric motor stator. 2,795,712, 6-11-57, Cl. 310-198.
- Suhr, Fred W., to General Electric Co. Induction type electric motor. 2,797,347, 6-25-57, Cl. 310-166.
- Suhr, Fred W., to General Electric Co. Capacitor start and run induction type motor. 2,807,765, 9-24-57, Cl. 318-221.
- Suiter, John N. Fish attracting device. 2,814,901, 12-3-57, Cl. 43-42.74.
- Suits, Chauncey G., to General Electric Co. Damping turbine blades. 2,809,802, 10-15-57, Cl. 253-77.
- Sukacev, Lev. Methods of making a mold. 2,788,555, 4-16-57, Cl. 22-196.
- Sukacev, Lev. Devices for transferring thermo-electric power effects to the skin of a human. 2,798,493, 7-9-57, Cl. 128-379.
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- Sulc, Frank D.: *See*—
Colt, Edwin W., Pinhasik, and Sulc. 2,803,577.
- Sullender, Maurice C., and W. C. Green, to Diamond Alkali Co. Valve. 2,785,697, 3-19-57, Cl. 137-340.
- Sullivan, Bernard G., to General Motors Corp. Heat exchanger. 2,798,694, 7-9-57, Cl. 257-137.
- Sullivan, Bessie L. Comforter-sheet. 2,799,870, 7-23-57, Cl. 5-334.
- Sullivan, Byron D. Aiming device. 2,806,287, 9-17-57, Cl. 33-50.
- Sullivan, Earle C., to General Electric Co. Percolator heater. 2,801,326, 7-30-57, Cl. 219-44.
- Sullivan, Ernest B. Window frame construction. 2,791,004, 5-7-57, Cl. 20-11.
- Sullivan, Eugene F.: *See*—
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- Sullivan, Eugene F., and A. S. Guerard, said Sullivan assignor to California Research Corp. Process of purification of phthalic anhydride. 2,786,805, 3-26-57, Cl. 202-50.
- Sullivan, Francis P., E. J. Bair, and J. H. Allen, to the United States of America as represented by the United States Atomic Energy Commission. Carbon burner. 2,797,081, 6-25-57, Cl. 266-19.
- Sullivan, Frank A. V., to American Cyanamid Co. Process for preparing methylene bis phenols. 2,796,444, 6-18-57, Cl. 260-619.
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- Sullivan, Frank A. V., to American Cyanamid Co. Process of preparing cellular rubber and compositions therefor. 2,806,823, 9-17-57, Cl. 260-2.5.
- Sullivan, Frank A. V., E. O. Hook, and A. R. Davis, to American Cyanamid Co. Method of vulcanizing a rubber in the presence of an accelerator and the product obtained thereby. 2,816,881, 12-17-57, Cl. 260-79.5.
- Sullivan, George C. Gun barrel of aluminum alloy with metallic coatings. 2,780,019, 2-5-57, Cl. 42-76.
- Sullivan, George C., to Lockheed Aircraft Corp. Panels and connector therefor. 2,808,624, 10-8-57, Cl. 20-15.
- Sullivan, Harris M.: *See*—
Nakaji, Edward M., and Sullivan. 2,793,830.
- Sullivan, Henry R.: *See*—
Holub, Edward M., Keel, and Sullivan. 2,803,571.
- Sullivan, Herbert M., Jr., and R. C. Bransfield, to Phillips Petroleum Co. Mounting device. 2,814,995, 12-3-57, Cl. 103-218.
- Sullivan, Herbert W., to David Bogen & Co., Inc. Loud speaker. 2,797,766, 7-2-57, Cl. 181-31.
- Sullivan, James D.: *See*—
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- Sullivan, James D., to Monsanto Chemical Co. Para-halogenation of phenols. 2,777,002, 1-8-57, Cl. 260-623.
- Sullivan, John W.: *See*—
Cook, John S., Poole, and Sullivan. 2,812,470.
- Sullivan, Leo S., to The Russell Mfg. Co. Passenger safety harness for vehicles. 2,794,653, 6-4-57, Cl. 280-150.
- Sullivan, Leo S., to The Russell Mfg. Co. Safety belt for vehicle seats. 2,794,654, 6-4-57, Cl. 280-150.
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- Sullivan, Miles V.: *See*—
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- Sullivan, Miller J.: *See*—
Martin, Gustav J., and Sullivan. 2,781,290.
- Sullivan, Norman M. Rigid fascial suture. 2,817,339, 12-24-57, Cl. 128-334.
- Sullivan, Osman G.: *See*—
Denham, Bert, and Sullivan. 2,800,353.
- Sullivan, Robert H., to E. I. du Pont de Nemours and Co. Process for the preparation of glutamic acid and intermediates therefor. 2,801,250, 7-30-57, Cl. 260-326.
- Sullivan, Thomas J., C. H. Milligan, and J. A. Gross, to The American Agricultural Chemical Co. Manufacture of ammonium fluoborate. 2,799,556, 7-16-57, Cl. 23-59.
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- Sullivan, Vincent A., Jr., and T. H. Smedslund, to The Stephan Chemical Co. Corrosion inhibition. 2,818,388, 12-31-57, Cl. 252-75.
- Sullivan, William F.: *See*—
Simoneit, Kurt. 2,793,284.
- Sullivan, William N.: *See*—
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- Sullivan, William P., to S. F. and A. G. Armstrong, partners under firm name of Polarobe Co. Lap robe. 2,817,843, 12-31-57, Cl. 2-69.
- Sullwold, Richard H., and L. E. Berthelson, to North American Aviation, Inc. Pressurized reservoir for cavitation-free supply to pump. 2,809,596, 10-15-57, Cl. 103-223.
- Sully, Bernard T. D., to A. Boake Roberts and Co., Ltd. Production of fatty acid monoglycerides. 2,789,119, 4-16-57, Cl. 260-410.7.
- Sulpizio, Thomas J., and J. E. McWade, to the United States of America as represented by the Secretary of the Navy. High voltage power supplies. 2,806,988, 9-17-57, Cl. 321-2.

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 Hofstetter, Hermann. 2,808,899.
 Pfarrwaller, Erwin. 2,777,472.
 Pfarrwaller, Erwin. 2,783,778.
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- Sulzer, Peter G., to F. H. McIntosh. Multi-phase oscillator. 2,778,940, 1-22-57, Cl. 250-36.
- Sulzmann, Erich. Washing machine assembly. 2,787,150, 4-2-57, Cl. 68-27.
- Sumbera, John H.: *See*—
 Muehlhause, Benjamin H., and Sumbera. 2,795,303.
- Sumi, Masao: *See*—
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- Summerhayes, Harry R., Jr., to General Electric Co. Surface inspection equipment. 2,798,966, 7-9-57, Cl. 250-966.
- Summerhayes, Harry R., Jr., to General Electric Co. Surface roughness measuring method and device. 2,803,161, 8-20-57, Cl. 88-14.
- Summers, Claude R., Jr., to Gulf Oil Corp. Fluidized bed catalyst process and apparatus for reaction of hydrocarbons. 2,804,368, 8-27-57, Cl. 23-1.
- Summers, Otto M. Block wall. 2,776,559, 1-8-57, Cl. 72-30.
- Summers, Otto M. Swimming pool. 2,803,835, 8-27-57, Cl. 4-172.
- Summers, Selby E.: *See*—
 Newberry, Sterling P., and Summers. 2,814,729.
- Summers, Stanley E.: *See*—
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- Summers, Stanley E., to the United States of America as represented by the Secretary of the Army. Manual gun charger. 2,789,466, 4-23-57, Cl. 89-1.
- Summers, Thomas O., Jr. Gyroscope instrument with dual purpose motors. 2,804,776, 9-3-57, Cl. 74-5.6.
- Sumner, Eric E.: *See*—
 Madden, James J., and Sumner. 2,781,846.
- Sumner, Eric E., to Bell Telephone Laboratories, Inc. Welding circuit. 2,785,283, 3-12-57, Cl. 219-95.
- Sumner, Harold T., to Sumner Hosiery Mill. Full-fashioned knitted garment and method. 2,783,631, 3-5-57, Cl. 66-177.
- Sumner Hosiery Mill: *See*—
 Sumner, Harold T. 2,783,631.
- Sumner Iron Works, Inc.: *See*—
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- Sumner, William E. Golf ball retriever. 2,792,955, 5-21-57, Cl. 214-356.
- Sumter Mfg. Co.: *See*—
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- Sun Chemical Corp.: *See*—
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- Sun Electric Corp.: *See*—
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- Sun Oil Co.: *See*—
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 Brooks, Charles H. 2,794,768.
 Brooks, Charles H. 2,802,890.
 Brown, William F., Jr. 2,798,666.
 Colket, William W. 2,782,929.
 Davis, Evan E., Jr., and Parcells. 2,813,897.
 Elkin, Harold R. 2,818,307.
 Ferris, Seymour W. 2,782,145.
 Ferris, Seymour W. 2,783,183.
 Ferris, Seymour W. 2,816,078.
 Hetzel, Stanford J. 2,793,958.
 Hetzel, Stanford J. 2,802,751.
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 Honeycutt, Earl M. 2,795,532.
 Jezl, James L. 2,789,999.
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 Jolly, Samuel E. 2,818,383.
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 Mayes, Fred M. 2,790,137.
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 Mayes, Fred M. 2,818,503.
 Mertes, Thomas S. 2,813,781.
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 Mills, Ivor W. 2,789,081.
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 Passmore, Howard C. 2,804,351.
 Patterson, Omar L. 2,779,871.
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- Sun Oil Co.: *See*—Continued
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 Pew, James E., and Hayes. 2,780,304.
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 Richert, Bernhard E. 2,817,905.
 Ritter, Jack F., and Shuman. 2,808,422.
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 Stuart, Archibald P. 2,802,888.
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 Tench, John D. 2,807,524.
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 Wolski, John J. 2,810,745.
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- Sun Rubber Co., The: *See*—
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- Sun, Yung H.: *See*—
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- Sunbeam Corp.: *See*—
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- Sund, Fred. Pick-up attaching means for combine. 2,795,100, 6-11-57, Cl. 56-364.
- Sund, Fred. Rock picker. 2,812,029, 11-5-57, Cl. 171-85.
- Sund, Vigo V. K., to Gisholt Machine Co. Ram-type turret lathe having power index. 2,777,190, 1-15-57, Cl. 29-46.
- Sundberg, Carl W., and R. J. Pepin, to Studebaker-Packard Corp. Combined reveal molding and permanent visor for vehicles. 2,783,081, 2-26-57, Cl. 296-84.
- Sundberg, Ernst. Mechanical stair elevator. 2,816,642, 12-17-57, Cl. 198-16.
- Sundberg, Olle M. Orthopedic walker. 2,792,874, 5-21-57, Cl. 155-22.
- Sundberg, Ray W. Grinding apparatus. 2,787,093, 4-2-57, Cl. 51-111.
- Sundberg, Robert C., to Jno. H. Swisher & Son, Inc. Cigar head puncher attachment. 2,800,133, 7-23-57, Cl. 131-254.
- Sundelin, Ronald R., and H. Feder, to Barclay Mfg. Co., Inc. Wall unit fastening. 2,779,978, 2-5-57, Cl. 20-15.
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- Sundell, Harold C., to F. J. Curran. Power driven can opener. 2,810,952, 10-29-57, Cl. 30-4.
- Sundén, Olof, and C. G. Carlsson, to Superfosfat Fabriks Aktiebolag. Process of refining acrylonitrile by distillation. 2,782,149, 2-19-57, Cl. 202-42.
- Sunderland, Eric E.: *See*—
 Brookes, Mahath, and Sunderland. 2,788,835.
- Sunderland, Oswald O. Sear-controlling mechanism for firearms. 2,813,362, 11-19-57, Cl. 42-69.
- Sunderlin, Joseph E., to Westinghouse Electric Corp. Static pulse doubling circuit. 2,795,707, 6-11-57, Cl. 307-106.
- Sunderlin, Joseph E., and R. E. Lee, to Westinghouse Electric Corp. Magnetic pulse doubling circuit. 2,814,737, 11-26-57, Cl. 307-106.
- Sundholm, Norman K.: *See*—
 Schoene, Dwight L., and Sundholm. 2,809,202.
- Sundholm, Norman K., to United States Rubber Co. N-(thiocarbamylthio)-2-benzothiazolesulfenamides. 2,786,061, 3-19-57, Cl. 260-306.6.
- Sundin, Eric O. Hydraulic elevating apparatus. 2,796,996, 6-25-57, Cl. 212-35.
- Sundin, Eric O. Device for swinging the boom of a hydraulic elevating apparatus. 2,796,998, 6-25-57, Cl. 212-66.
- Sundlof, Kenneth C. Crash bar for automobile windshield. 2,798,737, 7-9-57, Cl. 280-150.
- Sundquist, Lyle L.: *See*—
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- Sundstrand Machine Tool Co.: *See*—
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- Sundt, Edward V., to Sundt Engineering Co. Fuse holder. 2,777,118, 1-8-57, Cl. 339-221.
- Sundt, Edward V., to Sundt Engineering Co. Electric fuse. 2,780,695, 2-5-57, Cl. 200-121.
- Sundt, Edward V., to Sundt Engineering Co. Indicating fuse holder. 2,783,331, 2-26-57, Cl. 200-121.
- Sundt, Edward V. Multiple speed reducer. 2,785,590, 3-19-57, Cl. 74-750.
- Sundt, Edward V., to Sundt Engineering Co. Low amperage circuit interrupter. 2,800,555, 7-23-57, Cl. 200-122.
- Sundt Engineering Co.: See—
- Sundt, Edward V. 2,777,118.
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- Sunich, Albert R. Hair trimmer. 2,814,865, 12-3-57, Cl. 30-30.
- Sunkist Growers, Inc.: See—
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- Swisher, Horton E. 2,809,895.
- Sunko, John, and W. C. Biedermann, to Motorola, Inc. Sub-miniature tube receptacle. 2,782,389, 2-19-57, Cl. 339-192.
- Sunlite Mfg. Co., The: See—
- Slingluff, Eugene. 2,810,924.
- Sunnen, August, Jr., to E. I. du Pont de Nemours and Co. Web drying apparatus. 2,798,303, 7-9-57, Cl. 34-56.
- Sunnen, Joseph. Internal gage for circular size. 2,785,473, 3-19-57, Cl. 33-178.
- Sunnen, Joseph. Honing device. 2,799,127, 7-16-57, Cl. 51-184.3.
- Sunnen, Joseph. Bore gage with cord actuator. 2,803,886, 8-27-57, Cl. 33-178.
- Sunnen, Joseph. Honing device. 2,815,615, 12-10-57, Cl. 51-184.3.
- Sunny Young, Inc.: See—
- Ingram, Dixon. 2,782,506.
- Sunray Co.: See—
- Coddington, Howard O. 2,798,640.
- Coddington, Howard O. 2,798,641.
- Sunskes, Max. Slicer with compound movement blade. 2,792,865, 5-21-57, Cl. 146-131.
- Sunstein, David E., to Philco Corp. Indexing system for color television. 2,778,971, 1-22-57, Cl. 315-12.
- Sunstein, David E., to Philco Corp. Signal amplitude limiting circuits. 2,806,173, 9-10-57, Cl. 315-12.
- Sunstein, David E., and A. C. Munster, to Philco Corp. Automatic signal control system. 2,788,450, 4-9-57, Cl. 250-36.
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- Suozzo, John, to Westinghouse Electric Corp. Multiple-mode elevator car system. 2,780,314, 2-5-57, Cl. 187-29.
- Suozzo, John, to Westinghouse Electric Corp. Elevator systems. 2,795,296, 6-11-57, Cl. 187-29.
- Suozzo, John, to Westinghouse Electric Corp. Elevator systems. 2,806,555, 9-17-57, Cl. 187-29.
- Suozzo, John, and H. C. Savino, to Westinghouse Electric Corp. Elevator systems having basement service. 2,795,298, 6-11-57, Cl. 187-29.
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- Sundén, Olof, and Carlsson. 2,782,149.
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- Duerksen, Arnold. 2,801,443.
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- Ballou, Harry G. 2,794,336.
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- Superior Lace Mills, Inc.: See—
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- Superior Magneto Corp.: See—
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- Superior Mfg. Co.: See—
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- Bauer, Robert F., McNeill, and Ledbetter. 2,808,229.
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- Superior Railway Products Corp.: See—
- Pennington, William A., and Watson. 2,817,494.
- Superior Rubber Mfg. Co.: See—
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- Richards, William B. 2,795,292.
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- Superior Sheet Metal Works Co., Inc.: See—
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- Superior Steel Corp.: See—
- Berkeley, Laurence J. 2,777,936.
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- Supernaw, Dwight L., to the United States of America as represented by the Secretary of the Navy. Climb angle limit switch. 2,810,033, 10-15-57, Cl. 200-81.5.
- Supitilov, Michael C., to Du Kane Corp. Solenoid operated coil clutch mechanism. 2,798,581, 7-9-57, Cl. 192-84.
- Suppiger, Gerhart S., and E. R. Phillips, to Morton Salt Co. Depositing machine. 2,799,432, 7-16-57, Cl. 222-139.
- Supreme Knitting Machine Co., Inc.: See—
- Mishcon, Samuel. 2,796,751.
- Supreme Products Corp.: See—
- Bridenbaugh, Paul K. 2,813,762.
- Ondeck, Elmer J. 2,780,944.
- Ondeck, Elmer J. 2,784,976.
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- Aldrich, Richard W., Schaffner, and Suran. 2,780,752.
- Keonjian, Edward, and Suran. 2,801,340.
- Mathis, Vernon P., and Suran. 2,802,117.
- Suran, Jerome J., and W. F. Chow, to General Electric Co. Semiconductor superregenerative detector. 2,792,494, 5-14-57, Cl. 250-20.
- Surber, Otis B. Artificial tree. 2,788,598, 4-16-57, Cl. 41-15.
- Sure-Seal Corp.: See—
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- Sureau, Robert F. M., and G. R. H. Mingasson, to Compagnie Francaise des Matieres Colorantes. Nitroso derivatives. 2,787,515, 4-2-57, Cl. 8-12.
- Sureau, Robert F. M., and P. M. J. Obelliane, to Compagnie Francaise des Matieres Colorantes. Preparation of sulphamic acids. 2,789,132, 4-16-57, Cl. 260-500.
- Sureau, Robert F. M., and J. N. Blum, to Compagnie Francaise des Matieres Colorantes. Azo dyes. 2,795,575, 6-11-57, Cl. 260-146.
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- Bergman, Herbert L. 2,804,855.
- Dailey, William H., Jr. 2,780,785.
- Dailey, William H., Jr. 2,805,709.
- Decker, Maurice S., Jr. 2,816,343.
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- Huebler, Jack, and Beggs. 2,793,109.
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- Nesbitt, John D., and Munford. 2,776,128.
- Nesbitt, John D., and Munford. 2,802,657.
- Phillips, William A. 2,775,825.
- Wingate, Donald E. 2,776,134.
- Suriano, Jack F. Method and apparatus for deodorizing oils and fats. 2,804,427, 8-27-57, Cl. 202-46.
- Surine, William R.: See—
- Stoesser, Wesley C., and Surine. 2,782,232.
- Surino, Alphonse: See—
- Durant, Leonard C., Irvine, Pennington, and Surino. 2,803,540.
- Durant, Leonard G., Irvine, Pennington, and Surino. 2,809,111.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. Preparation of unsaturated acyclic halides. 2,780,658, 2-5-57, Cl. 260-654.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. 4-methyl-7-cyclohexylidene-3-heptenyl methyl ketone and intermediates. 2,781,387, 2-12-57, Cl. 260-410.9.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. Mixed isomeric octen-1-ols and their preparation. 2,806,874, 9-17-57, Cl. 260-488.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. 3,7,9-trimethyl-1,6-decadien-3-ol. 2,806,887, 9-17-57, Cl. 260-632.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. 3-cyclohexylidenepropyl vinyl methyl carbinol. 2,812,361, 11-5-57, Cl. 260-617.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. 3,7,9-trimethyl-2,6-decadien-1-ol. 2,814,386, 12-3-57, Cl. 260-601.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. Alicyclic ketone and intermediates for the preparation thereof. 2,815,379, 12-3-57, Cl. 260-587.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. 4-(6-ethyl-2,6-dimethyl-2-cyclohexenyl)-3-buten-2-one. 2,815,380, 12-3-57, Cl. 260-587.
- Surmatis, Joseph D., and J. Weber, to Hoffmann-La Roche Inc. Preparation of a higher aliphatic ketone. 2,783,257, 2-26-57, Cl. 260-410.9.

- Surmatis, Joseph D., and J. Weber, to Hoffmann-La Roche Inc. Acyclic ketone. 2,806,882, 9-17-57, Cl. 260—593.
- Surmatis, Joseph D., and J. Weber, to Hoffmann-La Roche Inc. Higher aliphatic ketone. 2,809,215, 10-8-57, Cl. 260—593.
- Surratt, Ralph, to E. R. Wiseman. Split shot attaching device and dispenser. 2,803,977, 8-27-57, Cl. 81—15.
- Surratt, Wade T. *See*—
Rideout, Amos H., and Surratt. 2,790,196.
- Surrey, Alexander R., to Sterling Drug Inc. N-aralkyl-N-(2-carbamylalkyl)-halogenated-alkanamides and their preparation. 2,776,991, 1-8-57, Cl. 260—559.
- Surrey, Alexander R., to Sterling Drug Inc. 4-amino-10-hydroxy-1,7-phenanthrolines. 2,778,833, 1-22-57, Cl. 260—286.
- Surver, Robert L. *See*—
Brauer, William F., Reichelt, and Surver. 2,807,697.
- Süs, Oskar, W. Neugebauer, H. Böttger, F. Endermann, and W. Schafer, to Keuffel & Esser Co. Photosensitive material. 2,813,792, 11-19-57, Cl. 96—75.
- Susel, Frank M. *See*—
Lutz, Charles H., Durrett, Posta, and Susel. 2,817,395.
- Susemihl, Rolf. Apparatus for rectifying pulled threads in knitted ware. 2,800,778, 7-30-57, Cl. 66—1.
- Susina, Anna K. *See*—
Shapiro, Sydney H., and Susina. 2,791,568.
- Suskin, Howard H. *See*—
Hanson, Louis P., and Suskin. 2,783,326.
- Süss, Arnold, to Escher Wyss Aktiengesellschaft. Vibration preventing sealing system for hydraulic machines. 2,818,227, 12-31-57, Cl. 253—26.
- Sussman, Harry, to the United States of America as represented by the Secretary of the Navy. Testing apparatus. 2,802,984, 8-13-57, Cl. 324—56.
- Sussman, Sidney, N. A. Haber, and M. Feldman. Devices for cleaning Venetian blinds. 2,789,307, 4-23-57, Cl. 15—394.
- Sussman, Sy. Fire alarm. 2,804,609, 8-27-57, Cl. 340—227.
- Sutcliffe, Eugene G. Dispensing nozzle guard with magnet. 2,800,931, 7-30-57, Cl. 141—392.
- Sutcliffe, Richard, Ltd. *See*—
Baines, Leslie, and Barnish. 2,811,143.
- Suter, Robert A. Disappearing bed for house trailers. 2,803,855, 8-27-57, Cl. 20—111.
- Suthard, James G., to Petrolite Corp. Method of testing oils. 2,782,151, 2-19-57, Cl. 204—1.
- Sutherland, Edward F. Hatch brace. 2,812,095, 11-5-57, Cl. 217—60.
- Sutherland, Ernest E., to Westinghouse Electric Corp. Cabinet door hinge mechanism. 2,795,472, 6-11-57, Cl. 312—214.
- Sutherland, Gail R. *See*—
Skromme, Arnold B., and Sutherland. 2,795,913.
- Sutherland, Lionel M., to Sutherland Refiner Corp. Pulp refining apparatus. 2,778,282, 1-22-57, Cl. 92—26.
- Sutherland Paper Co. *See*—
Annen, James E. 2,815,061.
- Buttery, Kenneth T. 2,796,979.
- Buttery, Kenneth T. 2,800,250.
- Buttery, Kenneth T. 2,808,177.
- Buttery, Kenneth T., and Vander Lugt. 2,798,655.
- Sutherland Refiner Corp. *See*—
Sutherland, Lionel M. 2,778,282.
- Sutherland, Lee *See*—
Cuthbert, Stuart V., and Sutherland. 2,789,929.
- Sutowski, Walter S. Bearing construction. 2,779,641, 1-29-57, Cl. 308—196.
- Sutphen, Robert M., and C. W. Johnston, to Tire Deflation Indicators, Inc. Combination vending, fluid dispensing and advertising device. 2,792,920, 5-21-57, Cl. 194—6.
- Sutphin, Eldon M., to Gulf Research & Development Co. Stabilization of cracked gasolines with borontrifluoride promoted by sulfuric acid. 2,786,016, 3-19-57, Cl. 196—23.
- Sutter, Arvid J. Door-knob extension handle. 2,801,122, 7-30-57, Cl. 292—347.
- Sutter, Edward W. Anti-skid device for motor vehicles. 2,818,139, 12-31-57, Cl. 188—4.
- Suttle, Ward C., and E. A. Haase, to Bendix Aviation Corp. Fluid pump and controls therefor. 2,778,312, 1-22-57, Cl. 103—12.
- Suttles, Omar. Hand supported mop. 2,795,806, 6-18-57, Cl. 15—131.
- Sutton, Albert H. Rodent exterminating blasting mechanism. 2,809,464, 10-15-57, Cl. 43—84.
- Sutton, Dorothy J. Laboratory tray for medical technicians. 2,790,547, 4-30-57, Cl. 206—72.
- Sutton, Edwin C. *See*—
Bendett, Robert M., and Sutton. 2,805,627.
- Sutton Engineering Co. *See*—
Keeler, Donald F. 2,787,091.
- Sutton, George P. *See*—
Cumming, James M., Sutton, Vorwerk, Harmon, and Villiers. 2,789,505.
- Sutton, Ione U. Pocketbook for foreign currency. 2,803,281, 8-20-57, Cl. 150—35.
- Sutton, John G., Jr., to Hagan Corp. Regulators. 2,781,770, 2-19-57, Cl. 137—85.
- Sutton, O. A., Corp., Inc. *The* *See*—
Bvarts, Ralph E. 2,805,820.
- Sutton, Robert W. *See*—
Corbett, James L., Sutton, and Ball. 2,807,763.
- Sutton, Robert W., to Bendix Aviation Corp. Carburetor. 2,786,657, 3-26-57, Cl. 261—39.
- Sutton, Thomas A. *See*—
Brooks, Charles, Sutton, and Brownold. 2,807,307.
- Sutton, William M. Screen for automobile window. 2,804,135, 8-27-57, Cl. 160—105.
- Sutton, William R., to The Huffman Co. Grass blower attachments for lawn mowers. 2,777,271, 1-15-57, Cl. 56—25.4.
- Suyak, John M. Foldable awning structure. 2,811,458, 10-29-57, Cl. 160—132.
- Svabek, John E., Jr. to Crane Co. Depth measuring device. 2,797,578, 7-2-57, Cl. 73—322.
- Svahn, Karl E. *See*—
Pehrsson, Lennart A., and Svahn. 2,794,508.
- Svala, Carl G., to Telefonaktiebolaget L M Ericsson. Relay device. 2,801,374, 7-30-57, Cl. 317—155.5.
- Svala, Carl G., and A. Berge, to Telefonaktiebolaget L M Ericsson. Connecting device in automatic telephone systems. 2,779,823, 1-29-57, Cl. 179—18.
- Svanstrom, Kjell A. *See*—
Opie, William R., and Svanstrom. 2,801,964.
- Svaty, Vladimir *See*—
Opletal, Robert, Svaty, and Kubelka. 2,802,488.
- Svaty, Vladimir, to Mira, zavody na pletene a stavkove zbozi, narodni podnik. Centrifugal spinning apparatus with a yarn guide. 2,793,489, 5-28-57, Cl. 57—77.
- Svaty, Vladimir, J. Mohelnicky, and S. Zahradnik, to Mira zavody na Pletene a stavkove zbozi, narodni podnik. Pump and nozzle system for nozzle operated weaving looms. 2,796,085, 6-18-57, Cl. 159—127.
- Svaty, Vladimir, and L. Taticek, to Mira, Zavody na Pletene a stavkove Zbozi, narodni podnik. Apparatus for braking a thread. 2,813,688, 11-19-57, Cl. 242—151.
- Svec, Emil F., and K. J. Staller, to Flexigrip Inc. Sliderless fastener closure. 2,780,261, 2-5-57, Cl. 150—3.
- Svedres, Edward V. *See*—
Robinson, Manford, Jr., and Svedres. 2,805,977.
- Svedres, Edward V., to Smith, Kline & French Laboratories. Method of making a sustained release pharmaceutical tablet and product of the method. 2,793,979, 5-28-57, Cl. 167—82.
- Svende, Ake K. E., to Hoganas-Billesholms Aktiebolag. Apparatus for manufacture of fibers of inorganic thermoplastic material. 2,814,828, 12-3-57, Cl. 18—2.6.
- Svenska Akkumulator Aktiebolag Jungner *See*—
Lindberg, Erik O. H. 2,813,142.
- Svenska Aeroplan Aktiebolag *See*—
Olesten, Nils-Olof. 2,798,743.
- Svenska Aktiebolag Bromsregulator *See*—
Browall, Bert H. 2,793,716.
- Jeppsson, Erik M. 2,804,179.
- Svenska Aktiebolag Gasakkumulator *See*—
Aversten, Karl J. Re. 2,4367.
- Beer, Palle-Finn. 2,790,032.
- Bergne, Arne. 2,810,581.
- Faxen, Per T. 2,783,047.
- Granqvist, Carl-Erik. 2,810,843.
- Hartman, Dag. 2,783,940.
- Öberg, Erik O. 2,790,164.
- Öberg, Sven. 2,779,019.
- Öberg, Sven. 2,791,767.
- Öberg, Sven. 2,793,362.
- Svenska Bromsbandsfabriken Aktiebolag *See*—
Starling, Bengt. 2,807,337.
- Svenska Cellulosa Aktiebolag *See*—
Lefler, Nils G. 2,794,466.
- Svenska Cellulosaforeningens Centrallaboratorium (Cellulosa-industriens Centrallaboratorium) *See*—
Haaglund, Erik K. M., and Ekqvist. Re. 24,293.
- Hägglund, Erik K. M., Hällström, and Richtzenhain. 2,789,974.
- Svenska Diamantberghörnings Aktiebolaget *See*—
Roxström, Eric B. 2,791,035.
- Svenska Flaktfabriken *See*—
Conradi, Henrik. 2,806,675.
- Svenska Lasmutter Ab *See*—
Lenning, Alvar. 2,780,721.
- Svenska Relafabriken AB *See*—
Dubois, Martin H. 2,815,398.
- Svenska Rotor Maskiner Aktiebolag *See*—
Karlson, Gustav V. 2,818,288.
- Lindhagen, Teodor I., and Nilsson. 2,782,596.
- Lindhagen, Teodor I., and Nilsson. 2,799,253.
- Lindhagen, Teodor I., and Nilsson. 2,801,792.
- Lindhagen, Teodor I., and Nilsson. 2,808,813.
- Nilsson, Hans R., and Lindhagen. 2,804,260.
- Nilsson, Hans R., and Persson. 2,803,508.
- Persson, Per W. S. 2,797,897.
- Svenska Skifferolja Aktiebolaget *See*—
Hammar, Carl G. B. 2,787,519.
- Hammar, Carl G. B. 2,787,598.
- Ljungström, Fredrik. 2,777,679.
- Ljungström, Fredrik. 2,780,450.
- Ljungström, Fredrik. 2,789,805.
- Svenska Tandsticks Aktiebolaget *See*—
Nuorivaara, Zachris E. M. 2,779,466.

Svenska Turbinfabriks Aktiebolaget Ljungstrom: See—

Jarlborg, Åke N. B. 2,789,787.

Svenska Ventilations A.-B.: See—

Jeppson, Kurt J. H. 2,790,602.

Svenson, Ernest J., to Odin Corp. Sealing means. Re. 24,332, 6-18-57, Cl. 286-7.

Svenson, Ernest J. Material working apparatus. 2,804,749, 9-3-57, Cl. 60-52.

Svensson, Bruno O. Door stop fittings. 2,806,728, 9-17-57, Cl. 292-271.

Svensson, Regnar H., to Telefonaktiebolaget L M Ericsson. Electron discharge device for microwaves. 2,777,969, 1-15-57, Cl. 315-5.

Svensson, Svante H., to LKB-Produkter Fabriksaktiebolag. Refractometric cell. 2,800,053, 7-23-57, Cl. 88-14.

Svensson, Svante H., to LKB-Produkter Fabriksaktiebolag. Device for determining the refractive index in stratified solutions. 2,809,551, 10-15-57, Cl. 88-14.

Sverdrup, Edward F., to U. S. Rubber Reclaiming Co., Inc. Method of production of reclaimed rubber in discrete particle form. 2,800,462, 7-23-57, Cl. 260-23.

Sverdrup, Edward F., to U. S. Rubber Reclaiming Co., Inc. Process for the reclaiming of rubber and for the production of hard rubber products and the like, and the products thereof. 2,809,944, 10-15-57, Cl. 260-23.

Svirsky, Bennett, $\frac{1}{2}$ to S. Breier. Convertible ball cock. 2,777,460, 1-15-57, Cl. 137-218.

Svirsky, Bennett, $\frac{1}{2}$ to S. Breier. Flush tank valve. 2,799,290, 7-16-57, Cl. 137-414.

Svit. Nardoni Podnik, Gottvaldov: See—

Bucek, Adolf. 2,803,954.

Svoboda, Ernest: See—

McDonough, Robert S., and Svoboda. 2,791,082.

Swain, Frank H., to the United States of America as represented by the Secretary of the Army. Detonator mounting clip. 2,796,024, 6-18-57, Cl. 102-70.

Swain, Ansel P., to McNeil Laboratories, Inc. Method of making mono- (α -aryl)-substituted pyridinemethanols. 2,800,485, 7-23-57, Cl. 260-297.

Swain, Cecil B. Ratchet handle with straight crank arm. 2,778,896, 1-22-57, Cl. 145-71.

Swain, Charles B.: See—

Lacey, Felix E., Schuessler, and Swain. 2,799,646.

Swain, Charles B., and A. G. Schuessler, to Swift & Co., and Mud Control Laboratories, Inc. External oil phase drilling fluid emulsions. 2,793,188, 5-21-57, Cl. 252-8.5.

Swain, Howard W.: See—

Gottshall, Ralph L., Peters, and Swain. 2,789,950.

Swain, Kenneth W., to The Chase-Shawmut Co. Current-limiting fuses comprising fuse links of silver and copper. 2,781,434, 2-12-57, Cl. 200-131.

Swain, Kenneth W., to The Chase-Shawmut Co. Connection between line conductor and fuse. 2,794,099, 5-28-57, Cl. 200-132.

Swain, Kenneth W., to The Chase Shawmut Co. Sectionalized bus systems. 2,800,557, 7-23-57, Cl. 200-133.

Swain, Kenneth W., to The Chase-Shawmut Co. Composite fuse links of silver and copper. 2,809,257, 10-8-57, Cl. 200-135.

Swain, Kenneth W., F. J. Kozacka, and P. C. Jacobs, Jr., to The Chase Shawmut Co. Fuse structures. 2,800,556, 7-23-57, Cl. 200-131.

Swain, Stanley, and A. Eden, to Pilkington Brothers Ltd. Packing cases intended for transporting flat glass. 2,811,249, 10-29-57, Cl. 206-62.

Swain, Thomas T., to Western Electric Co., Inc. Article supporting dolly comprising two interconnected truck members. 2,782,046, 2-19-57, Cl. 280-35.

Swain, William H.: See—

Crane, Robert, Jr., and Swain. 2,801,300.

Swaine, James W.: See—

Hall, Herbert S., Hayworth, and Swaine. 2,813,007.

Swaine, James W., and J. C. Sloan, Jr., to Allied Chemical & Dye Corp. Two-stage fluid-suspension roasting of iron sulfide ore. 2,785,050, 3-12-57, Cl. 23-177.

Swaine, James W., and J. C. Sloan, Jr., to Allied Chemical & Dye Corp. Process and apparatus for converting finely divided metal sulfide ore into sulfur dioxide and agglomerates of low sulfur clinder. 2,789,034, 4-16-57, Cl. 23-177.

Swallow, William, to General Motors Corp. Liquid filters. 2,781,917, 2-19-57, Cl. 210-178.

Swalm, John M., Jr., and F. J. Sheets, to Union Carbide and Carbon Corp. Apparatus for heat treating tows of filamentary material. 2,788,542, 4-16-57, Cl. 18-8.

Swan, Aldon E. Variable reverse pitch fan for cooling systems. 2,812,027, 11-5-57, Cl. 170-160.43.

Swan, David, to Union Carbide Corp. Process for making manganese-bearing steels. 2,800,406, 7-23-57, Cl. 75-133.

Swan, Dean, to General Electric Co. Long-scale ratio instrument. 2,798,200, 7-2-57, Cl. 324-140.

Swan, Merrill, to United Geophysical Corp. Wiring system. 2,810,118, 10-15-57, Cl. 340-15.

Swan, William J. One piece car door seal. 2,781,217, 2-12-57, Cl. 292-322.

Swander, Chester B.: See—

Doelling, George L., and Swander. 2,803,605.

Swander, Kenneth D., Jr., and F. J. Vegh, to General Motors Corp. Circuit checker for vehicle electro-pneumatic brake systems. 2,802,935, 8-13-57, Cl. 246-167.

Swank, Douglas H., to Boeing Airplane Co. Aircraft compartment cooling mechanism. 2,787,889, 4-9-57, Cl. 62-4.

Swank, Inc.: See—

Marien, Clement S. 2,791,899.

Marien, Clement S. 2,799,069.

Swank, Lloyd K.: See—

Harper, David, Peebles, and Swank. 2,788,147.

Swanlund, Hilding. Safety coupling. 2,797,784, 7-2-57, Cl. 192-56.

Swann, Edward R., to The Hoover Co. Travel steam iron-removable cup. 2,786,287, 3-26-57, Cl. 33-77.

Swann, Erwin D. Shopping bag convertible to a toy. 2,811,807, 11-5-57, Cl. 46-11.

Swann, Geoffrey, and P. G. A. Evans, to Reichhold Chemicals, Inc. Manufacture of etherified melamine-formaldehyde resins. 2,781,332, 2-12-57, Cl. 260-67.6.

Swann, James A. Educational toy construction. 2,803,088, 8-20-57, Cl. 46-17.

Swanson, Albert N., to United States Steel Corp. Shelling-resistant rail. 2,793,947, 5-28-57, Cl. 75-126.

Swanson, Bernard A. Engine of high speed and low volume consumption of fluid pressure medium. 2,797,664, 7-2-57, Cl. 121-17.

Swanson, Bernard K. Fence post. 2,791,625, 5-7-57, Cl. 174-158.2.

Swanson, Bror W.: See—

Grzywna, John A., and Swanson. 2,799,090.

Swanson, Bror W., to The Whitney Chain Co. Internal thread comparator. 2,782,523, 2-26-57, Cl. 33-199.

Swanson, Bror W., to The Whitney Chain Co. Thread comparator. 2,785,476, 3-19-57, Cl. 33-199.

Swanson, Bror W., to The Whitney Chain Co. Thread comparator and face squareness gauge. 2,817,154, 12-24-57, Cl. 33-199.

Swanson, C. A., & Sons: See—

Dahlberg, John H. 2,795,815.

Dahlberg, John H. 2,795,817.

Jett, John H., and Snyder. 2,787,806.

Swanson, Carl E.: See—

Treuhaft, Milton A., and Swanson. 2,782,160.

Swanson, Carl G. Pole base. 2,784,015, 3-5-57, Cl. 287-119.

Swanson, Charles H.: See—

Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,606.

Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,607.

Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,608.

Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,609.

Swanson, Donald F. Accumulator in refrigerant system. 2,799,999, 7-23-57, Cl. 62-115.

Swanson, Donald L., to American Cyanamid Co. Terpolymer of methylstyrenes. 2,816,095, 12-10-57, Cl. 260-80.5.

Swanson, Edwin C., to Greenlee Bros. & Co. Hydraulic press. 2,815,646, 12-10-57, Cl. 60-52.

Swanson, Elmer C. Sack closure and opening device. 2,811,299, 10-29-57, Cl. 229-62.

Swanson, Elmer C. Combination bag opening device and shipping tag. 2,815,899, 12-10-57, Cl. 229-63.

Swanson, Elston H., to the United States of America as represented by the Secretary of the Navy. D. C. motor control systems. 2,814,012, 11-19-57, Cl. 318-331.

Swanson, Emery C.: See—

Coyne, William R., Brabender, and Swanson. 2,782,012.

Swanson, Frank R. Trailer frame. 2,791,439, 5-7-57, Cl. 280-106.

Swanson, Fred R., and K. H. Hendry, to Sundstrand Machine Tool Co. Bucket milling machine. 2,784,647, 3-12-57, Cl. 90-13.

Swanson, Fred R. and W. S., and H. E. Bargren, to Sundstrand Machine Tool Co. Jack mechanism. 2,790,361, 4-30-57, Cl. 90-59.

Swanson, Harry G., and J. S. De Fusco, to General Electric Co. Instrument illumination arrangement. 2,806,132, 9-10-57, Cl. 240-2.1.

Swanson, Kenneth P. Top rolls for spinning machines. 2,812,554, 11-12-57, Cl. 19-142.

Swanson, Nels B.: See—

Carriek, Vinton D., and Swanson. 2,815,881.

Swanson, Oscar F., to Automatic Voting Machine Corp. Voting machine with tally printing mechanism. 2,787,414, 4-2-57, Cl. 235-50.

Swanson, Robert G.: See—

Meyer, Robert W., and Swanson. 2,793,746.

Swanson, Rolf G., to Strong-Scott Mfg. Co. Magnetic separator. 2,801,750, 8-6-57, Cl. 209-223.

Swanson, Rolf G., to The Strong-Scott Mfg. Co. Truck hoist. 2,801,757, 8-6-57, Cl. 214-46.34.

Swanson, Wallace R., to Boeing Airplane Co. Fuel cell supports. 2,816,725, 12-17-57, Cl. 244-135.

Swanson, Walter S.: See—

Swanson, Fred R. and W. S., and Bargren. 2,790,361.

Swanson, Walter S., and R. E. Blomquist, to Sundstrand Machine Tool Co. Chamfering machine. 2,808,745, 10-8-57, Cl. 77-3.

- Swanson, Willis R.: *See*—
 Hand, Don, and Swanson. 2,806,277.
 Safford, Edward S., and Swanson. 2,786,669.
- Swanson, Willis R., to Control Cells Corp., Inc. Weighing apparatus. 2,805,055, 9-3-57, Cl. 265-71.
- Swanton, Charles L., to General Railway Signal Co. Railway switch machine control circuit. 2,809,284, 10-8-57, Cl. 246-219.
- Swart, Kenneth H., to Security Engineering Division, Dresser Operations, Inc. Stabilizer for drill collars and drill pipes. 2,813,697, 11-19-57, Cl. 255-28.
- Swarthout, David S. Tire tread compressing tool. 2,816,602, 12-17-57, Cl. 157-1.21.
- Swarthout, David S. Screw actuated bead seating tool for tubeless tires. 2,816,603, 12-17-57, Cl. 157-1.21.
- Swarthout, Donald M., and S. de Witte, to California Walnut Growers Association. Process for treating nut meats. 2,809,114, 10-8-57, Cl. 99-126.
- Swarthout, Herbert J.: *See*—
 Barten, Raymond J., and Swarthout. 2,817,352.
- Swartsweiler, Ernest E., and G. V. Kullgren, to The Aetna-Standard Engineering Co. Method and apparatus for making reinforced plastic tubing. 2,810,424, 10-22-57, Cl. 154-1.8.
- Swartwout, Charles J., and E. O. Schweitzer, to The Swartwout Co. Pneumatic force balance relay. 2,800,913, 7-30-57, Cl. 137-84.
- Swartwout Co., The: *See*—
 Johnson, Jay P. 2,784,660.
 Johnson, Jay P. 2,814,979.
- Swartwout, Charles J., and Schweitzer. 2,800,913.
- Swartz, Allan E., and D. W. Hamm, to Muskegon Piston Ring Co. Reverse dish action piston ring. 2,798,779, 7-9-57, Cl. 309-44.
- Swartz, George A., and C. M. Salfisberg, to Ivers-Lee Co. Article feeding mechanism. 2,788,882, 4-16-57, Cl. 198-30.
- Swartz, Irene B.: *See*—
 Bell, Thomas G. 2,799,641.
- Swartz, Otto M. Suction cup dart. 2,807,469, 9-24-57, Cl. 273-106.5.
- Swartz, Ruby J.: *See*—
 Snyder, James E., Swartz, and Collins. 2,781,900.
- Swartz, Sophia. Scarf square and triangle. 2,782,419, 2-26-57, Cl. 2-48.
- Swartzman, Ruben S. Fixture for assembling pallets. 2,779,021, 1-29-57, Cl. 1-47.
- Swastika Laboratories Ltd.: *See*—
 Kerr-Lawson, Douglas E. 2,804,777.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,786,756, 3-26-57, Cl. 75-175.5.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,818,333, 12-31-57, Cl. 75-175.5.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,818,334, 12-31-57, Cl. 75-175.5.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,818,335, 12-31-57, Cl. 75-175.5.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,818,336, 12-31-57, Cl. 75-175.5.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,818,337, 12-31-57, Cl. 75-175.5.
- Swazy, Earl F., R. H. Freyer, and L. S. Busch, to Mallory-Sharon Titanium Corp. Titanium alloys. 2,818,338, 12-31-57, Cl. 75-175.5.
- Swearingen, John J., and E. B. McFadden, to the United States of America as represented by the Secretary of Commerce. Adhesive-type oxygen mask. 2,809,633, 10-15-57, Cl. 128-146.
- Swearingen, Judson S., to Air Products Inc. Apparatus for extracting energy from gas. 2,804,021, 8-27-57, Cl. 103-87.
- Sweat, C. Downing, Jr. Variable control device for timing motor valves. 2,806,459, 9-17-57, Cl. 123-90.
- Swedberg, Vernon K.: *See*—
 Schmitt, Roland G., Braaten, and Swedberg. 2,780,832.
- Sweeney, Armand F. Oscillating sanding machines. 2,804,723, 9-3-57, Cl. 51-38.
- Sweeney, B. K., Mfg. Co.: *See*—
 Able, Edward T. 2,788,690.
 McCaleb, Elman R. 2,814,860.
- Sweeney, B. K., Mfg. Co., Inc.: *See*—
 Hunter, William H. 2,791,970.
- Sweeney, Frederick J. Fish hook holder. 2,791,863, 5-14-57, Cl. 43-57.5.
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- Sweeny, Allen N.: *See*—
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- Sweep, Eduard: *See*—
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- Sweet, Arthur P., Jr.: *See*—
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- Sweet, Arthur P., Jr., to Radio Corp. of America. Quick heating cathode for electron discharge device. 2,813,227, 11-12-57, Cl. 315-107.
- Sweet, Donald H.: *See*—
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- Sweet, Edmund G. F., to Brantford Coach and Body Ltd. Sand spreader. 2,804,309, 8-27-57, Cl. 275-8.
- Sweet, Floyd H. Textile spindles. 2,811,824, 11-5-57, Cl. 57-77.45.
- Sweet, Monroe H., to General Aniline & Film Corp. Illuminating attachment for light measuring instruments. 2,797,334, 6-25-57, Cl. 250-220.
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- Sweet, Ronald L.: *See*—
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- Sweetman, William G. Perforating devices. 2,796,833, 6-25-57, Cl. 102-20.
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- Sweitzer, Carl W., to Columbian Carbon Co. Carbon black production. 2,779,664, 1-29-57, Cl. 23-209.4.
- Swendsen, Johan W. Heat exchanger for fluids. 2,794,135, 5-28-57, Cl. 310-57.
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- Swensen, Just R. L.: *See*—
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- Swenson, Alfred G., to General Electric Co. Thermostat control for flatirons and the like. 2,810,812, 10-22-57, Cl. 219-25.
- Swenson, Carl E. Roller skate having resilient truck mounting with lubricated ball joint connection. 2,797,926, 7-2-57, Cl. 280-11.28.
- Swenson, Carl T., to Milco Mfg. Co. Contour seat. 2,798,535, 7-9-57, Cl. 155-131.
- Swenson, Gustave F., to J. M. Heilman. Fastening means for alternative panel arrangements. 2,799,058, 7-16-57, Cl. 20-15.
- Swenson, Harry H. Blind rivet having longitudinally ribbed and hardened sleeve end. 2,803,984, 8-27-57, Cl. 85-40.
- Swenson, Harvey F., and J. M. Fluke. Portion control for dispensing freezer. 2,817,214, 12-24-57, Cl. 62-4.
- Swenson, John, Granite Co., Inc.: *See*—
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- Swenson, John S.: *See*—
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- Swenson, Oscar J. Translucent-transparent window. 2,783,682, 3-5-57, Cl. 88-60.
- Swenson, Otto A. Torque gauge. 2,801,539, 8-6-57, Cl. 73-139.
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- Swenson, Paul F., to Iron Fireman Mfg. Co. Delay and regulating valve. 2,794,446, 6-4-57, Cl. 137-491.
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- Swern, Daniel, and W. E. Parker, to the United States of America as represented by the Secretary of Agriculture. Process for making fatty peracids. 2,813,885, 11-19-57, Cl. 260—406.
- Swett, Leo R.: *See*—
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- Swidinsky, John, and M. M. Baizer, to The New York Quinine and Chemical Works, Inc. Process for the formylation of a 5-nitro-sourcil. 2,785,162, 3-12-57, Cl. 260—256.4.
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- Swinehart, Merle R.: *See*—
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- Swingle, William F.: *See*—
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- Switzer, Harold K. Metal forming tool for longitudinally curving channel sectioned strips. 2,788,832, 4-16-57, Cl. 153—56.
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- Switzer, Murt. Grease gun charging machines. 2,811,991, 11-5-57, Cl. 141—21.
- Switzer, Robert L.: *See*—
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- Swope, Robert B. Electrolytic cell for producing gases. 2,786,811, 3-26-57, Cl. 204—256.
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- Sykes, Hope W. Collapsible, portable, torso-simulating dress form. 2,779,520, 1-29-57, Cl. 223—68.
- Sykes, Robert E., to Bell & Gossett Co. Piston. 2,806,751, 9-17-57, Cl. 309—15.
- Sykes, Thomas R., to The Toronto Star Ltd. Wire forming and feeding apparatus for wire tying machines and the like. 2,789,495, 4-23-57, Cl. 100—10.
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- Foster, John R. 2,781,556.
- Hunter, William A., and Singleton. 2,816,327.
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- Tabachnick, Howard: *See—*
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- Tabtrol Co.: *See—*
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- Tadler, Thomas J., Jr., and R. H. Coleman, to National Distillers Products Corp. Process for production of sodium peroxide. 2,789,885, 4-23-57, Cl. 23-184.
- Tafel, Robert W.: *See—*
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- Taff, Wilfred O.: *See—*
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- Taft, Hugh M., to Bryant Chucking Grinder Co. Thread form and pitch diameter gages. 2,797,496, 7-2-57, Cl. 33-199.
- Taft-Peirce Mfg. Co., The: *See—*
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- Taft, William E., to American Cyanamid Co. Method of preparing 2,6-dichloropyrazine. 2,797,219, 6-25-57, Cl. 260-250.
- Tagg, George F., to Evershed & Vignoles Ltd. Earth resistance measuring equipment. 2,800,629, 7-23-57, Cl. 324-62.
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- Taggart, Robert E.: *See—*
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- Taini, John, to The C. F. Pease Co. Print separator. 2,804,304, 8-27-57, Cl. 271-64.
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- Lung, Kenneth R. 2,779,293.
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- Kikuchi, Takefusa. 2,779,494.
- Tajima, Yuji A.: *See—*
- Bluestone, Henry, Tajima, and Lidov. 2,818,445.
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- Takahashi, Kinji, to Nippon Kogaku K. K. Microscope objective. 2,781,694, 2-19-57, Cl. 88-57.
- Takahashi, Yonendo, and Y. Tanaka, to American Cyanamid Co. Bottle closure. 2,813,650, 11-19-57, Cl. 215-41.
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- Takakita, Minoru: *See—*
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- Takakita, Shoichi: *See—*
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- Takakita, Tsutomu: *See—*
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- Takasi, Uemura, to G. Miura. Umbrella tip cup. 2,781,768, 2-19-57, Cl. 135-44.
- Takeda Pharmaceutical Industries, Ltd.: See—
Abe, Yasuo, Harukawa, Ishikawa, Miki, Sumi, and Toga. 2,778,838.
- Kamada, Masaki. 2,811,447.
- Takehana, George. Combined hair brush and comb. 2,796,071, 6-18-57, Cl. 132-120.
- Takemoto, Tsuyoshi: See—
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- Takeshita, Paul M. Fishing lure. 2,817,922, 12-31-57, Cl. 43-42.28.
- Takeuchi, Kaichiro: See—
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- Talak, John F., to J. I. Case Co. Hydraulic power lift and control device. 2,815,703, 12-10-57, Cl. 97-46.59.
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- Talalay, Anselm, and D. H. Jones, to The B. F. Goodrich Co. Reinforced foam rubber cushioning material. 2,800,165, 7-23-57, Cl. 155-179.
- Talalay, Joseph A., $\frac{1}{2}$ to The Dayton Rubber Co., and $\frac{1}{2}$ to The B. F. Goodrich Co. Method for the manufacture of cellular rubber of the latex foam type. 2,786,038, 3-19-57, Cl. 260-2.5.
- Talalay, Paul. Selective oxido-reduction of B-hydroxy and ketosteroids containing 3 beta groups and 17 beta groups. 2,796,382, 6-18-57, Cl. 195-51.
- Talambiras, Robert P.: See—
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- Talamonti, Primo W. Mustache trimmer. 2,804,684, 9-3-57, Cl. 30-34.
- Talbot, Alfred. Bicycle stand. 2,803,849, 8-20-57, Cl. 211-22.
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- Talbot, Lloyd, and B. D. Simpson, to Cedar Rapids Block Co. Wire bending apparatus. 2,792,852, 5-21-57, Cl. 140-71.
- Talbot, Richard C.: See—
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- Talbot, Richard C., to J. L. Ferguson Co. Case escapement mechanism. 2,797,093, 6-25-57, Cl. 271-44.
- Talbot, Richard C., and C. A. Pavlica, to J. L. Ferguson Co. Package aligning apparatus. 2,781,119, 2-12-57, Cl. 198-29.
- Talbot, Thomas W.: See—
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- Talbot, William J., J. B. Darby, and T. F. Collins, to Ben C. Gerwick, Inc., and Peter Kiewit Sons' Co. Plumbing device. 2,804,690, 9-3-57, Cl. 33-74.
- Talbot, William G., to Ford Motor Co. Remote control cylinder. 2,804,944, 9-3-57, Cl. 188-67.
- Talboys, Henry H., to Nordberg Mfg. Co. Positioning and removing device for railroad machine. 2,781,002, 2-12-57, Cl. 105-177.
- Talboys, Henry H., to Nordberg Mfg. Co. Hydraulic spike puller. 2,797,889, 7-2-57, Cl. 254-18.
- Talboys, James A.: See—
Frederich, Emil G., Updyke, and Talboys. 2,799,440.
- Talco Engineering Co., Inc.: See—
Hirt, Gerald E. 2,815,008.
- Talge, Foster L.: See—
Grant, Albert E. 2,806,280.
Landry, William J. 2,804,682.
- Talge, Henry J.: See—
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- Talipsky, William B., and H. D. Terhune, to United States Rubber Co. Positive drive belt. 2,815,671, 12-10-57, Cl. 74-229.
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- Tallakson, Carl A., to Dualoc Engineering Co. Variable torque distributing differential gearing. 2,786,366, 3-26-57, Cl. 74-711.
- Tallant, John D. Electric motor regulator. 2,796,572, 6-18-57, Cl. 318-302.
- Tallis, Ernest E.: See—
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- Tallis, Ernest E., and J. H. Edwards, to Courtaulds Ltd. Production of artificial filaments, threads and the like. 2,784,107, 3-5-57, Cl. 106-165.
- Tallman, Laurence C.: See—
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- Tallman, Oscar F., to James R. Kearney Corp. Ground rod driver. 2,802,340, 8-13-57, Cl. 61-73.
- Talmage, Charles R. Method and apparatus for forming powder metal parts having undercuts or the like. 2,791,804, 5-14-57, Cl. 18-16.5.
- Talme, Paul, to General American Transportation Corp. Methods of and apparatus for chemical nickel plating. 2,816,846, 12-17-57, Cl. 117-97.
- Talmo, Robert E.: See—
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- Talon, Inc.: See—
Carlile, Alfred E. 2,794,230.
Chery, Walter V. 2,807,853.
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- Talpey, Richard G., to Radio Corp. of America. Electron tube base and shield. 2,802,190, 8-6-57, Cl. 339-145.
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- Tamblyn, John W.: See—
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- Tamburello, Anthony. Automatic engine starting device. 2,803,236, 8-20-57, Cl. 123-179.
- Tamburr, Victor E., to Industrial Timer Corp. Timer switch. 2,776,009, 1-1-57, Cl. 161-1.
- Tamm, Emil S., to Rowe Mfg. Co., Inc. Coffee dispensing machine. 2,796,893, 6-25-57, Cl. 141-100.
- Tammen, Fred B., to Bettendorf Bakery Equipment Co. Deflection teusimeter. 2,787,159, 4-2-57, Cl. 73-144.
- Tammings, William J., to Wiz-Products, Inc. Combined gasket and retainer. 2,790,661, 4-30-57, Cl. 288-23.
- Tammings, William J., to Monitor Dispenser Co., Inc. Milk dispenser and outlet unit therefor. 2,795,362, 6-11-57, Cl. 222-529.
- Tammings, William J., to Wiz-Products, Inc. Fogging apparatus. 2,808,294, 10-1-57, Cl. 299-140.
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Lyon, Merrill K., and Tanaka. 2,796,113.
- Tanaka, Isokazu, M. Asakura, and M. Hara. Apparatus applicable to comparison of electric devices. 2,804,590, 8-27-57, Cl. 324-26.
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- Tanay, Stephen. Supporting and resealing device for jars and similar receptacles. 2,816,667, 12-17-57, Cl. 211-76.
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- Tanczyn, Harry, to Armco Steel Corp. Stainless steel. 2,797,993, 7-2-57, Cl. 75-125.
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- Tangard, Einar E.: See—
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- Tangard, Einar E., to Combustion Engineering, Inc. Closure for pressure vessels. 2,797,017, 6-25-57, Cl. 220-46.
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- Tangen, Nils, to Telefonaktiebolaget L M Ericsson. Device for frequency division. 2,784,314, 3-5-57, Cl. 250-36.
- Tanghe, Leo J.: See—
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- Tango, Masazo. Piping length measuring device. 2,799,087, 7-16-57, Cl. 33-1.
- Tanguy, Denis R.: See—
Schafer, Clifford O., and Tanguy. 2,802,200.
- Tanis, David, and U. S. Worden. Alignment device for trailer. 2,797,406, 6-25-57, Cl. 340-282.
- Tanis, Henry, to Greene, Tweed & Co. Tool for installing tube liners. 2,779,996, 2-5-57, Cl. 29-235.
- Tanis, Henry W., to Greene, Tweed & Co. Sheet slitting machine. 2,777,521, 1-15-57, Cl. 164-76.
- Tank, Lawrence E., to Aircraft Armaments, Inc. Hotbed box. 2,788,614, 4-16-57, Cl. 47-19.
- Tanke, Willard H., to Allis-Chalmers Mfg. Co. Tractor hitch. 2,814,976, 12-3-57, Cl. 97-47.63.
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- Tankus, Harry, to Crane Packing Co. Rotary mechanical seal and vibration dampening means therefor. 2,798,750, 7-9-57, Cl. 288-2.
- Tannahill, Byron A. Cake candle holder. 2,811,030, 10-29-57, Cl. 67-25.
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- Tanner, Lawrence S., and A. Lindinger. Reproducing machine. 2,793,569, 5-28-57, Cl. 90-13.1.
- Tanner, Robert H., and J. Rywak, to Northern Electric Co. Ltd. Coaxial jack. 2,779,005, 1-22-57, Cl. 333-97.
- Tanona, Charles C., to Union Carbide and Carbon Corp. Separation of vinyl ethers by distillation. 2,779,720, 1-29-57, Cl. 202-39.5.
- Tanona, Charles C., and L. Pierce, Jr., to Union Carbide and Carbon Corp. Preparation of alpha-alkoxynitriles. 2,794,042, 5-28-57, Cl. 260-465.
- Tanra Mfg. Co.: See—
- Pritchard, Thomas R. 2,781,950.
- Tao, Deh C., to Portage Machine Co. Measuring apparatus using a light beam. 2,795,992, 6-18-57, Cl. 88-14.
- Taoka Dyestuff Mfg. Co. Ltd.: See—
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- Taoka, Sahei: See—
- Ban, Mamoru, and Ida. 2,791,614.
- Tap, Jan W.: See—
- Boelens, Willem W., and Tap. 2,787,704.
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- Tapp, Gleason: See—
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- Tapp, Harry F., to Gilbert & Barker Mfg. Co. Portable unit for fluid samples. 2,817,373, 12-24-57, Cl. 141-314.
- Tapp, James F.: See—
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- Tapp, Larry W.: See—
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- Tapp, Loretta S.: See—
- Tapp, Lora E. 2,777,559.
- Tapp, Lucille M.: See—
- Tapp, Lora E. 2,777,559.
- Tapp, Truman D. Welder's mask. 2,801,419, 8-6-57, Cl. 2-8.
- Tapp, William J.: See—
- Mills, Edward J., Jr., and Tapp. 2,812,360.
- Tapp, William J., and A. E. Montagna, to Union Carbide Corp. 1-alkenyl 8-hydroxymercaptopalkyl ethers and process for the same. 2,806,884, 9-17-57, Cl. 260-609.
- Tappan Stove Co., The: See—
- Hoeflich, Edward L. 2,813,188.
- Pollock, Earl S. 2,780,219.
- Pollock, Earl S. 2,805,661.
- Stichler, Hoy L., and Smith. 2,795,392.
- Tapper, Samuel. Self locking wedge fasteners. 2,808,299, 10-1-57, Cl. 306-33.
- Taprell Loomis, Inc.: See—
- Blevens, Gilbert A. 2,782,542.
- Taproge, Josef. Self-cleaning heat exchanger. 2,801,824, 8-6-57, Cl. 257-1.
- Tarasch, Louis C. Process for treating and preserving macerated coffee. 2,804,389, 8-27-57, Cl. 99-71.
- Tarbox, John P.: See—
- Luek, Otto W., and Tarbox. 2,778,295.
- Nolt, Edwin B., and Tarbox. 2,777,384.
- Tarbox, John P., to Sperry Rand Corp. Barrel knot tier. 2,781,213, 2-12-57, Cl. 289-2.
- Tarbox, John P., to Sperry Rand Corp. Wire tying mechanism. 2,792,776, 5-21-57, Cl. 100-23.
- Tarbox, John P., and J. H. Hollyday, to Sperry Rand Corp. Barrel knot tying device. 2,807,487, 9-24-57, Cl. 289-2.
- Tarbox, Leslie E., 17½% to A. M. Marzeotti. Electrical switch device. 2,798,136, 7-2-57, Cl. 200-158.
- Tarbox, Richard P., to Pittsburgh Consolidation Coal Co. Gasification of carbonaceous solids. 2,807,529, 9-24-57, Cl. 48-206.
- Tarcha, Michael. Interlocking sheet of galvanized or aluminum roofing. 2,800,863, 7-30-57, Cl. 108-17.
- Tarcici, Adnan. Flexible reflectors. 2,798,478, 7-9-57, Cl. 126-270.
- Tarcici, Adnan. Collapsible reflectors. 2,806,134, 9-10-57, Cl. 240-103.
- Tarczynski, John: See—
- Sidorowicz, Alexander Z., and Tarczynski. 2,806,410.
- Targosh, Ted, and L. V. Anderson. Liquid mixing nozzle of the aspirator type. 2,800,313, 7-23-57, Cl. 261-18.
- Taris, Charles M., to Bell Telephone Laboratories, Inc. Electromagnetic transducer mounting. 2,802,905, 8-13-57, Cl. 179-100.2.
- Taris, Charles M., and F. J. Woolam, to Bell Telephone Laboratories, Inc. Means for erasing a magnetic record. 2,816,176, 12-10-57, Cl. 179-100.2.
- Tarleton, Robert. Tongue for boat trailers. 2,810,589, 10-22-57, Cl. 280-414.
- Tarnoski, Paul T., to Chemical & Engineering Co. Composition for eliminating slag, soot, and fly ash. 2,777,761, 1-15-57, Cl. 44-5.
- Tarot, Ernest P., to Food Machinery and Chemical Corp. Can feeding mechanism. 2,806,580, 9-17-57, Cl. 198-32.
- Tarr, Philip V., to Kwikset Locks, Inc. Sintered powdered metal rotary bearing. 2,786,726, 3-26-57, Cl. 308-106.
- Tarrant, Carl F. Cheese shredder. 2,776,479, 1-8-57, Cl. 30-117.
- Tarrant, Paul, and D. A. Warner, to Research Corp. Fluoroolefins and process for their preparation. 2,804,484, 8-27-57, Cl. 260-653.
- Tarry, Eldred G., to Wallace & Tiernan Inc. Fluid-actuated pulsating device. 2,780,066, 2-5-57, Cl. 60-60.
- Tarsa, Edwin J., and H. J. Volman, to Western Electric Co., Inc. Strip guides for punch presses. 2,816,607, 12-17-57, Cl. 164-59.
- Tartaglia, Richard A.: See—
- Remington, Frederic, and Tartaglia. 2,800,872.
- Tarwater, Lawson, 51% to E. G. Witmer. Eccentric lock nut. 2,815,788, 12-10-57, Cl. 151-19.
- Tarzia, Paul P. Beauty shop partition. 2,781,558, 2-19-57, Cl. 20-4.
- Tasciotti, James C. Wrench apparatus for a hypodermic syringe. 2,800,816, 7-30-57, Cl. 81-3.34.
- Tash, Irving, 15% to J. A. Rosenberg. Sealed package. 2,794,437, 6-4-57, Cl. 128-272.
- Tashjian, Edward A., to Universal Winding Co. Yarn guide. 2,781,987, 2-19-57, Cl. 242-157.
- Task Corp.: See—
- Ward, Elmer F. 2,796,503.
- Ward, Elmer F. 2,803,134.
- Tata, Raymond V.: See—
- Hilbert, Richard G., Soussloff, and Tata. 2,791,086.
- Tate, Clifford E., and H. M. Boyle, to Marconi's Wireless Telegraph Co. Ltd. Automatic resonance-tuning means which hunts when far off tune. 2,798,150, 7-2-57, Cl. 250-17.
- Tate, Henry C., J. K. Holbrook, executor of said H. C. Tate, deceased, to Cardo Chemical Corp. Manufacture of pipe. 2,814,313, 11-26-57, Cl. 138-76.
- Tate, Kenneth B., to Chas. Pfizer & Co., Inc. Antibiotic compositions, and method, for combating plant pathogens. 2,801,950, 8-6-57, Cl. 167-33.
- Tate, Samuel D. Ceiling side wall juncture painter. 2,797,427, 7-2-57, Cl. 15-230.
- Tatibana, Hideo. Apparatus for complete washing of a container. 2,811,975, 11-5-57, Cl. 134-102.
- Taticek, Lubomir: See—
- Svatý, Vladimír, and Taticek. 2,813,688.
- Tatlock, David: See—
- Flood, Harry, and Tatlock. 2,781,166.
- Tatlock, William S., to E. I. du Pont de Nemours and Co. Organophilic attapulgite and process of making same. 2,784,110, 3-5-57, Cl. 117-54.
- Tatoian, George: See—
- Sprague, Enoch K., and Tatoian. 2,805,598.
- Tatro, Lysle G., to Pres-To-Line Corp. of America. Belt-driven door operator with slack-controlled safety switch. 2,803,454, 8-20-57, Cl. 268-59.
- Tattersall, John O.: See—
- Gimson, Cyril F., and Tattersall. 2,806,183.
- Taub, Irving: See—
- Spevak, Irving B. 2,783,538.
- Taub, William, to Calanda Stiftung. (Bicyclo-actenyl)-alkyl malonic acid derivatives. 2,808,408, 10-1-57, Cl. 260-257.
- Taube, Karl: See—
- Bockmann, Klaus, and Taube. 2,777,839.
- Taube, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Water insoluble thiodiazole monazo dyestuffs. 2,791,579, 5-7-57, Cl. 260-158.
- Taubenslag, Morris J., and M. P. Siedband, to Westinghouse Electric Corp. Regulators. 2,817,055, 12-17-57, Cl. 321-23.
- Tauber, Robert W. Remote position control system. 2,783,429, 2-26-57, Cl. 318-467.
- Tauber, Rudolf, to Tauber's Bookbinding, Inc. Book binding machine. 2,808,079, 10-1-57, Cl. 140-92.3.
- Tauber's Bookbinding, Inc.: See—
- Tauber, Rudolf. 2,808,079.
- Taubman, Samuel. Bath enclosure. 2,783,860, 3-5-57, Cl. 189-46.
- Taule, Joseph B. Attachment for agricultural machine. 2,776,614, 1-8-57, Cl. 97-47.84.
- Taunton, Gerald, to The Wilts United Dairies Ltd. Production of air-tight packages. 2,778,171, 1-22-57, Cl. 53-9.
- Taunton, Gerald, to Wilts United Dairies Ltd. Method of producing airtight packages. 2,778,173, 1-22-57, Cl. 53-22.
- Tausch, Ernst, to Photographica G. m. b. H. Developers for photographic silver halide papers. 2,815,284, 12-3-57, Cl. 96-66.
- Tausch, Gilbert H.: See—
- Allen, Thomas O., and Tausch. 2,798,560.
- Kennedy, John W., Tausch, and True. 2,810,440.
- Tausch, Gilbert H., to Esso Research and Engineering Co. Apparatus for completion in a plurality of hydrocarbon productive strata. 2,776,013, 1-1-57, Cl. 166-150.
- Tausch, Gilbert H., to Esso Research and Engineering Co. Method of running small pipe in a tubing string. 2,793,698, Cl. 166-46.

- Tausch, Gilbert H., to Esso Research and Engineering Co. Supporting assembly. 2,800,186, 7-23-57, Cl. 166-121.
- Tausch, Gilbert H., to Esso Research and Engineering Co. Method for running a tubular member in a well. 2,805,718, 9-10-57, Cl. 166-27.
- Tausch, Gilbert H., to Esso Research and Engineering Co. Flexible tubular extension member for wells. 2,810,442, 10-22-57, Cl. 166-218.
- Tausch, Gilbert H., and J. R. Dublin, III, to Esso Research and Engineering Co. Apparatus for well workover operations. 2,782,860, 2-26-57, Cl. 166-218.
- Tauscher, Vernon A.: *See*—
Wing, George S., and Tauscher. 2,789,619.
- Tautz, Herbert E., to C. M. L. L. Bourcier De Carbon. Shock absorber reservoir valves. 2,818,141, 12-31-57, Cl. 188-100.
- Tavani, Domenic F.: *See*—
Kaplan, Arthur T., Hoyt, Smith, Tafel, Tavani, Christian, and Weiss. 2,796,815.
- Tavani, Domenic P. F. Selective compartment shaker mechanism. 2,799,433, 7-16-57, Cl. 222-142.8.
- Tavannes Watch Co. S. A.: *See*—
Bridevaux, Georges. 2,789,410.
- Maire, Georges. 2,807,133.
- Tavender, Walter K.: *See*—
Reimers, Alfred E., Tavender, and McCormack. 2,815,593.
- Tavener, Ernest E., to Keith Blackman Ltd. Installation for mixing aeriform media. 2,800,915, 7-30-57, Cl. 137-88.
- Tavernier, Paul: *See*—
Maurice, Pierre, and Tavernier. 2,779,281.
- Taverniers, Pierre. Rotary combustion engine and cooling thereof. 2,786,332, 3-26-57, Cl. 60-39.61.
- Taves, John F. Steam cabinet. 2,780,226, 2-5-57, Cl. 128-374.
- Taves, Milton A.: *See*—
Lohr, Arthur D., and Taves. 2,799,715.
- Taves, Milton A., to Hercules Powder Co. Polymerization process. 2,776,953, 1-8-57, Cl. 260-82.5.
- Taves, Milton A., to Hercules Powder Co. Polymerization process. 2,776,954, 1-8-57, Cl. 260-82.5.
- Taves, Milton A., to Hercules Powder Co. Hydroperoxides of isopropylphenyl esters. 2,799,695, 7-16-57, Cl. 260-456.
- Taves, Milton A., to Hercules Powder Co. Oxidation of alkyl-substituted aromatic compounds to phenolic compounds. 2,799,698, 7-16-57, Cl. 260-479.
- Taves, Milton A., to Hercules Powder Co. Hydrocarbon oxidation. 2,813,119, 11-12-57, Cl. 260-524.
- Tawco Products Inc.: *See*—
Krier, Alexander O., Allen, and Williams. 2,792,864.
- Tawney, Pliny O., to United States Rubber Co. Metal salts of sulfo-N-carbamylsuccinamic acid esters. 2,776,987, 1-8-57, Cl. 260-481.
- Tawney, Pliny O., to United States Rubber Co. Polymeric maleimide derivatives. 2,790,787, 4-30-57, Cl. 260-65.
- Tawney, Pliny O., to United States Rubber Co. Catalytic process for making esters of alpha-olefinic N-carbamylamic acid. 2,794,012, 5-28-57, Cl. 260-75.
- Tawney, Pliny O., and R. W. Amidon, to United States Rubber Co. Thermoplastic composition comprising vinyl chloride polymer and diolefin-mono-vinylpyridine copolymer. 2,780,615, 2-5-57, Cl. 260-45.5.
- Tay, John. Steam presser roller. 2,807,896, 10-1-57, Cl. 38-77.
- Taylor, Alfred H., and L. J. Moliniui, to Air Reduction Co., Inc. Special atmosphere device. 2,786,740, 3-26-57, Cl. 23-259.
- Taylor, Alfred R. Heat regulated cooking vessel. 2,782,782, 2-26-57, Cl. 126-374.
- Taylor, Allen R.: *See*—
Smith, Harry R., and Taylor. 2,793,289.
- Taylor, Arthur G. Smoking pipe with improved filtering means. 2,776,663, 1-8-57, Cl. 131-194.
- Taylor, Arthur R., to Brown Co. Method and apparatus for fabricating curved fiber tubing. 2,802,404, 8-13-57, Cl. 92-59.
- Taylor, Arthur S.: *See*—
Stirn, Frank E., and Taylor. 2,799,048.
- Taylor, Arthur S., and E. R. Sandhage, to American Cyanamid Co. Vial feeding machine. 2,789,679, 4-23-57, Cl. 198-19.
- Taylor, Arthur W. C., to Imperial Chemical Industries Ltd. Production of organic oxygen containing compounds. 2,815,387, 12-3-57, Cl. 260-604.
- Taylor, Arthur W. C., to Imperial Chemical Industries Ltd. Direct catalytic hydration of olefines to alcohols. 2,815,391, 12-3-57, Cl. 260-641.
- Taylor, Belty L. Fishing lure retriever. 2,809,460, 10-15-57, Cl. 43-17.2.
- Taylor, Burnest B. Car starter. 2,791,699, 5-7-57, Cl. 290-38.
- Taylor, Burt L.: *See*—
Long, Henry A., Taylor, and Wise. 2,813,672.
- Taylor, Byron M., and H. C. Knutson. Training device for operators of underwater detection apparatus. 2,817,909, 12-31-57, Cl. 35-10.4.
- Taylor, Charles P., to Ideal Stencil Machine Co. Power-driven dispensing apparatus. 2,800,178, 7-23-57, Cl. 164-42.
- Taylor, Charles P., to Ideal Stencil Machine Co. Powered tape dispenser. 2,801,848, 8-6-57, Cl. 271-2.4.
- Taylor, Christopher G., to Service Distributors, Inc. Coin-actuated cam type switch. 2,810,798, 10-22-57, Cl. 200-38.
- Taylor, Christopher L. Combination toothbrush and dentifrice dispenser. 2,807,818, 10-1-57, Cl. 15-136.
- Taylor, Clarence C.: *See*—
Leo, Herbert T., and Taylor. 2,801,178.
- Taylor, Clarence R. Drainage grill for cup-and-saucer. 2,787,897, 4-9-57, Cl. 65-65.
- Taylor, Clarence R. Motorized pencil pointer. 2,791,986, 5-14-57, Cl. 120-94.
- Taylor, Claude C.: *See*—
Haines, Marcus W., Taylor, Werts, and Ford. 2,796,937.
- Taylor, Clement F.: *See*—
Chiabrandy, Robert E., and Taylor. 2,787,460.
- Taylor, Daniel G.: *See*—
Kutzler, Robert J., and Taylor. 2,807,794.
- Taylor, David: *See*—
Roughsedge, Robert H., and Taylor. 2,780,346.
- Taylor, Don A. Floor mats for automobiles. 2,810,671, 10-22-57, Cl. 154-49.
- Taylor, Don A. Floor mats for automobiles. 2,810,672, 10-22-57, Cl. 154-49.
- Taylor, Donald S., and G. A. Connell, to United States Borax & Chemical Corp. Stabilization of borax supersaturation in solutions. 2,785,952, 3-19-57, Cl. 23-59.
- Taylor, Dorothy S.: *See*—
Taylor, Philip, and Ramrath. 2,789,185.
- Taylor, Philip L. 2,811,614.
- Taylor, Douglas E., and L. R. Jones, to Dictaphone Corp. Dictation system. 2,803,707, 8-20-57, Cl. 179-100.1.
- Taylor, Edward C., to General Electric Co. Article feeding and inspection machine. 2,781,885, 2-19-57, Cl. 198-33.
- Taylor, Edward E. Combination pivotal electrode vacuum tube and magnetic actuating devices. 2,787,839, 4-9-57, Cl. 33-205.5.
- Taylor, Edward W.: *See*—
Kean, Robert H., Taylor, and Venable. 2,790,705.
- Taylor, Edwin P.: *See*—
Austin, William C., Collier, Potter, and Taylor. 2,791,582.
- Collier, Henry O. J., Potter, and Taylor. 2,791,588.
- Taylor, Elvin A., to Plymouth Stamping Co. Screw plug cap and method of forming the same. 2,816,681, 12-17-57, Cl. 220-39.
- Taylor, Eugene V. Tablet dispenser. 2,788,891, 4-16-57, Cl. 206-42.
- Taylor, Frank C., Jr., and G. E. Prielipp, to The Dow Chemical Co. Refining petroleum with an alkanolamine absorbent and reactivation of the spent alkanolamine. 2,797,188, 6-25-57, Cl. 196-32.
- Taylor, Frank F., Co., The: *See*—
Gill, Donald W. 2,798,733.
- Taylor, Franklin E., and C. Akrell, to Sylvania Electric Products Inc. Control circuit for signal seeking receiver. 2,799,776, 7-16-57, Cl. 250-20.
- Taylor, Franklin P., to J. M. Cranz Co., Inc. Automobile lock knob. 2,779,619, 1-29-57, Cl. 292-347.
- Taylor, Frederick N.: *See*—
Long, Andrew, Taylor, and Blacklock. 2,786,779.
- Taylor, Garthwood R.: *See*—
Treseder, Robert C., Berninger, Weis, Dinsmore, and Taylor. 2,804,154.
- Taylor, George A.: *See*—
Anderberg, Axel W., and Taylor. 2,784,459.
- Taylor, Grant W.: *See*—
Cotton, William S., Kupa, and Taylor. 2,788,378.
- Taylor, Halsey W., Co., The: *See*—
Taylor, Halsey W. 2,711,842.
- Taylor, Halsey W., to The Halsey W. Taylor Co. Air conditioning apparatus. 2,811,842, 11-5-57, Cl. 62-140.
- Taylor, Hamilton D., to General Electric Co. Armature winding with four parallels per phase. 2,778,962, 1-22-57, Cl. 310-202.
- Taylor, Harden F. Slide rule. 2,788,174, 4-9-57, Cl. 235-79.5.
- Taylor, Harry R. Abdominal retractor. 2,812,759, 11-12-57, Cl. 128-20.
- Taylor, Herbert D. and R. S. Casting floats for fishing lines. 2,777,238, 1-15-57, Cl. 43-17.
- Taylor, Herbert S. Liquid fertilizer calibrating device. 2,810,606, 10-22-57, Cl. 299-46.
- Taylor, Herbert W., to General Electric Co. Thyatron control circuit. 2,786,966, 3-26-57, Cl. 315-163.
- Taylor, Hubert L.: *See*—
Kolthoff, Aage T., and Taylor. 2,814,878.
- Taylor Instrument Companies: *See*—
Aldinger, Donald J. 2,803,451.
- Jaquith, Howard R. 2,778,372.
- Jaquith, Howard R. 2,778,373.
- Tibbits, Charles B. 2,796,493.
- Taylor, Irving R., to International Telephone and Telegraph Corp. Antenna structure. 2,805,414, 9-3-57, Cl. 343-761.
- Taylor, Jacob H., to C. R. Schneider. Lawn edgers. 2,795,045, 6-11-57, Cl. 30-314.
- Taylor, James B., Jr., to Signal Oil and Gas Co. Engine cooling process. 2,776,648, 1-8-57, Cl. 123-41.9.
- Taylor, James G., to United Aircraft Corp. Combustion section construction. 2,800,767, 7-30-57, Cl. 60-39.36.
- Taylor, James R.: *See*—
Jackson, Carey B., Bovard, and Taylor. 2,796,328.

- Taylor, James S. Spider and slip construction. 2,810,178, 10-22-57, Cl. 24-263.
- Taylor, James V.: *See—*
Ward, Frank T. 2,789,015.
- Taylor, Jay C.: *See—*
McClearen, Gilbert A. 2,782,582.
- Taylor, Jesse B., Sr. Bag formers. 2,818,004, 12-31-57, Cl. 93-20.
- Taylor, John E. M. Supersonic airplane cooling system. 2,801,829, 8-6-57, Cl. 257-124.
- Taylor, John F. Electric fuse and socket. 2,791,661, 5-7-57, Cl. 200-119.
- Taylor, John H., to Westinghouse Electric Corp. Circuit breaker. 2,780,694, 2-5-57, Cl. 200-98.
- Taylor, John O., to American Type Founders, Inc. Copying camera. 2,782,678, 2-26-57, Cl. 88-24.
- Taylor, John W., Jr.: *See—*
Hutchinson, James O., and Taylor. 2,817,833.
- Taylor, John W., Jr., and D. R. Houston, to the United States of America as represented by the Secretary of the Navy. Microwave automatic gain control. 2,805,412, 9-3-57, Cl. 343-17.1.
- Taylor, Jolly J. Stabilizer for paints and stabilized paints. 2,783,159, 2-26-57, Cl. 106-255.
- Taylor, Jody J. Film forming oil stabilized with dibasic lead phosphite. 2,783,160, 2-26-57, Cl. 106-256.
- Taylor, Joseph H. Tractor drawn plow construction. 2,811,911, 11-5-57, Cl. 97-47.1.
- Taylor, Julian S. Paraffin scraper. 2,802,535, 8-13-57, Cl. 166-170.
- Taylor, Keith M., to Monsanto Chemical Co. Recovery of β,β' -oxydipropionic acid. 2,813,901, 11-19-57, Cl. 260-535.
- Taylor, Kenneth M., to The Carborundum Co. Article comprising boron nitride and zirconia. 2,776,218, 1-1-57, Cl. 106-57.
- Taylor, Kenneth M., to The Carborundum Co. Method of making molded boron nitride bodies. 2,808,314, 10-1-57, Cl. 23-191.
- Taylor, Leonard. Friction clutches or brakes. 2,812,046, 11-5-57, Cl. 192-111.
- Taylor, Leonard L. Footwear construction. 2,776,502, 1-8-57, Cl. 36-36.
- Taylor, Lloyd A. Gate latch. 2,809,063, 10-8-57, Cl. 292-218.
- Taylor, Lloyd E. Push plate operated switch. 2,794,890, 6-4-57, Cl. 200-172.
- Taylor, Louis B., to Columbia-Southern Chemical Corp. Method for preparing a paper product. 2,786,757, 3-26-57, Cl. 92-21.
- Taylor, Louis B., to Columbia-Southern Chemical Corp. Method of preparing siliceous pigment and method of preparing paper from such pigment. 2,786,758, 3-26-57, Cl. 92-21.
- Taylor Machine Works: *See—*
Wood, Charles K. 2,782,740.
- Taylor, Marvin, to American Bosch Arma Corp. Gyroscope suspension. 2,797,580, 7-2-57, Cl. 74-5.
- Taylor, Maurice C. Polychlorimidometaphosphates. 2,796,321, 6-18-57, Cl. 23-50.
- Taylor, Maurice C. Preparation of chlorimidometaphosphates. 2,796,322, 6-18-57, Cl. 23-50.
- Taylor, Moddie D.: *See—*
Grant, Louis R., and Taylor. 2,801,899.
- Taylor, Mynard H.: *See—*
Correy, Thomas B., and Taylor. 2,800,588.
- Taylor, Myron L.: *See—*
Boyle, James F., and Taylor. 2,784,426.
- Taylor, Myron L., and R. J. Fraebel, to The Garrett Corp. Inflatable life raft comprising improved canopy and supporting means therefor. 2,804,633, 9-3-57, Cl. 9-11.
- Taylor, Norman H.: *See—*
Hess, Gerard C., Taylor, and Wilmette. 2,796,602.
- Taylor, Norman W.: *See—*
Osterhus, Ervin J., Richards, and Taylor. 2,776,824.
- Taylor, Norris. Garbage disposal. 2,796,309, 6-18-57, Cl. 312-211.
- Taylor, Owen L., to Westinghouse Electric Corp. Electromagnetic actuator. 2,780,756, 2-5-57, Cl. 317-198.
- Taylor, Owen L., to The Bryant Electric Co. Miniature slide handle snap switch. 2,802,077, 8-6-57, Cl. 200-67.
- Taylor, Owen L., to The Bryant Electric Co. Switch construction. 2,809,246, 10-8-57, Cl. 200-67.
- Taylor, Paul H., to Wales-Strippit Corp. Perforating apparatus. 2,778,426, 1-22-57, Cl. 164-110.
- Taylor, Paul H., to Wales-Strippit Corp. Self-contained perforating implement. 2,805,717, 9-10-57, Cl. 164-110.
- Taylor, Paul H., to Wales-Strippit Corp. Self contained perforating unit. 2,807,323, 9-24-57, Cl. 164-94.
- Taylor, Paul H., to Wales-Strippit Corp. Self-contained perforating implement. 2,815,814, 12-10-57, Cl. 164-110.
- Taylor, Paul H., and R. F. Zumwalt, to Wales-Strippit Corp. Tension liquid spring. 2,785,837, 3-19-57, Cl. 267-1.
- Taylor, Philip L., deceased (by D. S. Taylor, administratrix), and J. M. Ramrath, to Allis-Chalmers Mfg. Co. Circuit breaker sickle shaped contact actuating mechanism. 2,789,185, 4-16-57, Cl. 200-150.
- Taylor, Philip L., deceased; by D. S. Taylor, administratrix, to Allis-Chalmers Mfg. Co. Circuit breaker employing sickle shaped contact, engaging stationary contact and impulse grid. 2,811,614, 10-29-57, Cl. 200-150.
- Taylor Provision Co., The: *See—*
Cumbler, John T. 2,808,091.
- Taylor, R. G. Co., Inc., The: *See—*
Taylor, Richard G. 2,793,230.
- Taylor, Ray M. Tensioning means for loom warp beams. 2,777,469, 1-15-57, Cl. 139-100.
- Taylor, Reginald W., to Beaumont Birch Co. Cut-off gate construction. 2,805,836, 9-10-57, Cl. 251-177.
- Taylor, Reuben H. Cabinets. 2,809,084, 10-8-57, Cl. 312-257.
- Taylor, Richard, to International Business Machines Corp. Apparatus for winding load compensated potentiometers. 2,801,806, 8-6-57, Cl. 242-9.
- Taylor, Richard, to International Business Machines Corp. Digital voltage divider network. 2,813,987, 11-19-57, Cl. 307-155.
- Taylor, Richard E.: *See—*
Tierney, John W., and Taylor. 2,793,982.
- Taylor, Richard G., to The R. G. Taylor Co., Inc. Phenoxy dibalo aliphatic acids. 2,793,230, 5-21-57, Cl. 260-521.
- Taylor, Richard G. Tobacco smoke filtering material. 2,818,073, 12-31-57, Cl. 131-208.
- Taylor, Richard J., to the United States of America as represented by the Secretary of the Navy. Rocket powered aerial vehicle. 2,816,721, 12-17-57, Cl. 244-74.
- Taylor, Robert. Curb parking signal. 2,812,397, 11-5-57, Cl. 200-61.44.
- Taylor, Robert B.: *See—*
Slayter, Games, and Taylor. 2,802,764.
- Taylor, Robert B., to Structural Clay Products Research Foundation. Pre-stressed clay tile partition panels. 2,781,657, 2-19-57, Cl. 72-16.
- Taylor, Robert B., and P. V. Johnson, to Structural Clay Products Research Foundation. Building materials package. 2,778,491, 1-22-57, Cl. 206-65.
- Taylor, Robert S.: *See—*
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- Taylor, Robert S., to The Sherwin-Williams Co. Beneficiated chemically curing polyoxepoxy ether resinous composition. 2,794,007, 5-28-57, Cl. 260-18.
- Taylor, Ross E., to Studebaker-Packard Corp. Tappet spacer retainer. 2,817,326, 12-24-57, Cl. 123-188.
- Taylor, Roy J.: *See—*
Friedman, Ira J., Martin, Taylor, and Wagner. 2,792,330.
- Taylor, S. G., Chain Co.: *See—*
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- Taylor, T. Ivan: *See—*
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- Taylor, Taylor & Hobson Ltd.: *See—*
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- Taylor, Taylor & Hobson Ltd.: *See—*
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- Taylor, Taylor & Hobson Ltd.: *See—*
Coleman, Kenneth R. 2,810,323.
- Taylor, Taylor & Hobson Ltd.: *See—*
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- Taylor, Tristram A., J. J. Macfarlane, and N. Stephenson, to Power Jets (Research and Development) Ltd. Method of reducing vanadium corrosion in gas turbines. 2,781,005, 2-12-57, Cl. 110-1.
- Taylor, W. B.: *See—*
Broyles, Otis T. 2,778,292.
- Taylor, Wilbur S.: *See—*
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- Taylor, William B. Spectrum piano action. 2,808,754, 10-8-57, Cl. 84-258.
- Taylor, William G., Jr.: *See—*
Geary, Frederick L., and Taylor. 2,811,831.
- Taylor, William G., Jr.: *See—*
Geary, Frederick L., and Taylor. 2,815,643.
- Taylor, William H.: *See—*
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- Taylor, William H. Feeding, counting and stacking mechanism. 2,799,212, 7-16-57, Cl. 93-93.
- Taylor, William I., to Ciba Pharmaceutical Products, Inc. N-oxides of deserpidates. 2,789,112, 4-16-57, Cl. 260-286.
- Taylor, William I., to Ciba Pharmaceutical Products, Inc. N-oxides of reserpic acid compounds. 2,789,113, 4-16-57, Cl. 260-286.
- Taylor, William I., and J. W. Grebby, to British Celanese Ltd. Filter elements. 2,789,563, 4-23-57, Cl. 131-10.
- Taylor, William O.: *See—*
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- Taylor, William P.: *See—*
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- Taylor, William S., to Rockwell Mfg. Co. Jointer table and raising and lowering mechanism thereof. 2,804,107, 8-27-57, Cl. 144-129.
- Taylor-Wilson Mfg. Co.: *See—*
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- Taylor-Winfield Corp., The: *See—*
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- Taylor-Winfield Corp., The: *See—*
Cooper, Joseph H. 2,800,568.
- Taylor-Winfield Corp., The: *See—*
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- Taylor-Winfield Corp., The: *See—*
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- Taylor-Winfield Corp., The: *See—*
Riley, Joseph J. 2,800,612.
- Taylor-Winfield Corp., The: *See—*
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- Taylor-Winfield Corp., The: *See—*
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- Taylor-Winfield Corp., The: *See—*
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- Taynton, Ralph, and B. Vossen, to Melpar, Inc. Card punch. 2,800,181, 7-23-57, Cl. 164-111.

- Teacher Toys, Inc.: *See*—
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- Teagle, William T. Elevators. 2,781,889, 2-19-57, Cl. 198—118.
- Teague, James U., and W. T. Doherty. Expansile liner. 2,812,025, 11-5-57, Cl. 166—207.
- Teague, Walter E., and M. W. Chishold. Parallax-free reflex type image intensifier. 2,796,532, 6-18-57, Cl. 250—213.
- Teal, Alvin P.: *See*—
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- Teale, Alton W.: *See*—
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- Teare, William H.: *See*—
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- Teasdale, Barton F.: *See*—
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- Teasdale, James F., to Controls Co. of America. Oil pumping apparatus. 2,798,436, 7-9-57, Cl. 103—12.
- Teatini, Dario. Filter. 2,780,364, 2-5-57, Cl. 210—182.
- Tebbs, George W., to H. T. Backhouse. Reciprocating tape. 2,782,031, 2-19-57, Cl. 271—3.
- Tebbs, George W., to H. T. Backhouse. Sheet separating machines. 2,812,941, 11-12-57, Cl. 271—56.
- Tebbs, George W., to H. T. Backhouse. Sheet separating machines. 2,812,942, 11-12-57, Cl. 271—56.
- Teca Corp.: *See*—
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- Tecalemit Ltd.: *See*—
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- Tech Laboratories, Inc.: *See*—
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- Techkote Co., Inc.: *See*—
Carr, Kelly B., and Spindler. 2,814,471.
- Techne (Cambridge) Ltd.: *See*—
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- Technibilt Corp.: *See*—
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- Technical Appliance Corp.: *See*—
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- Technical Engineering Service, Inc.: *See*—
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- Technical Oil Tool Corp., Ltd.: *See*—
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- Technical Operations, Inc.: *See*—
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- Technicolor Corp.: *See*—
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Ames, Malcolm H., and Tucker. 2,809,828.
Dearing, Le Roy M., and Kelly. 2,809,570.
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- Technicolor Motion Picture Corp.: *See*—
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Andreas, John M., Schreiber, and Inouye. 2,816,157.
- Technicon Instruments Corp.: *See*—
Kling, Nelson G. 2,788,681.
- Technicon International Ltd.: *See*—
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Isreeli, Jack. 2,817,313.
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- Tecno Corp.: *See*—
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- Techno Instrument Co.: *See*—
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- Technograph Printed Circuits Ltd.: *See*—
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- Tecno Trade Anstalt: *See*—
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- Tedd Co., The: *See*—
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- Tedder, Lawrence E.: *See*—
Carraway, William M., and Tedder. 2,798,330.
- Tedder, Paul M., to the United States of America as represented by the Secretary of the Army. Setback selector switch. 2,806,914, 9-17-57, Cl. 200—61.45.
- Teddington Aircraft Controls Ltd.: *See*—
Harrison, Walter M. 2,797,706.
- Tedeschi, Guido: *See*—
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- Tee-Pak, Inc.: *See*—
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- Teeple, Gifford H.: *See*—
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- Teeple, J. Perry: *See*—
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- Teer, Kees, to North American Philips Co., Inc. Television multiplex system and apparatus. 2,787,660, 4-2-57, Cl. 179—15.
- Teeter, Don C. Collapsible garage. 2,817,344, 12-24-57, Cl. 135—4.
- Teeters, Wilber O.: *See*—
Hetherington, Alexander C., and Teeters. 2,782,174.
- Teeters, Wilbur O., to Hoke Inc. Valve clamp. 2,807,388, 9-24-57, Cl. 220—39.
- Teeters, Wilber O., R. W. Mantell, and H. J. Passino, to The M. W. Kellogg Co. Carbon and fluorine-containing polymer. 2,786,874, 3-26-57, Cl. 260—653.
- Teetor, Herman C. Luggage tag. 2,811,797, 11-5-57, Cl. 40—17.
- Teetor, Macy O. Magnetic catch. 2,786,702, 3-26-57, Cl. 292—251.5.
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- Teetz, Howard D., Sr., to The Glove City Abrading Co., Inc. Guide and hold-down assembly for machines for abrading the surface of flexible materials. 2,793,475, 5-28-57, Cl. 51—78.
- Tegarden, John E., deceased; V. P. Tegarden, administratrix, to Lindberg Engineering Co. Forming machine. 2,783,815, 3-5-57, Cl. 153—51.
- Tegarden, Virginia P.: *See*—
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- Tegel, Albert W. Boat trailers. 2,807,381, 9-24-57, Cl. 214—506.
- Tegholm, Ruben V.: *See*—
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- Te Grotenhuis, Theodore A., 20% to The General Tire & Rubber Co. Pigmented silicone elastomers. 2,780,611, 2-5-57, Cl. 260—37.
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- Tegtmeier, Heinrich, and H. Bachmann, to A. W. Faber-Castell. Slide rules. 2,799,453, 7-16-57, Cl. 235—70.
- Te Gude, Helmuth F. A., and D. Hopf, to Hartford National Bank and Trust Co., as trustee. Frequency modulation tuning indicators. 2,784,316, 3-5-57, Cl. 250—40.
- Teher, Marcel, to Plastifix Inc. Slide fastener. 2,794,228, 6-4-57, Cl. 24—201.
- Teichmann, Charles F., to Texaco Development Corp. Production of metal powders from their oxides. 2,785,061, 3-12-57, Cl. 75—5.
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- Teichmann, Charles F., to Texaco Development Corp. Phonograph records containing silicone oils and resins. 2,792,309, 5-14-57, Cl. 106—37.
- Teichmann, Charles F., and R. P. Mulligan, to Texaco Development Corp. Fire fighting. 2,790,502, 4-30-57, Cl. 169—1.
- Teichmann, Charles F., and A. D. Garrison, to Texaco Development Corp. Method of forming underground cavity. 2,803,432, 8-20-57, Cl. 255—1.
- Teichmann, Hermann, to Firma Krauss-Maffei Aktiengesellschaft. Apparatus for manufacturing reinforced members. 2,800,683, 7-30-57, Cl. 18—13.
- Teichmann, Hermann, to Krauss-Maffei Aktiengesellschaft. Extrusion press. 2,810,159, 10-22-57, Cl. 18—12.
- Teiger, Samuel. Louvered heater. 2,795,683, 6-11-57, Cl. 219—34.
- Teitel, Sidney: *See*—
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- Teitelman, Herbert: *See*—
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- Teitler, Albert, to Burroughs Corp. Sheet feeding control apparatus. 2,790,528, 4-30-57, Cl. 197—133.
- Teixeira, Marianne P. Sympodial orchids and other rhizomatous plants growing vessel. 2,799,972, 7-23-57, Cl. 47—34.
- Teixeira, Newton A.: *See*—
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- Teja, Javanti D., and R. A. Peters, to Hess, Goldsmith & Co., Inc. Manufacture of phosphonitrilic chloronitrile polymers. 2,788,286, 4-9-57, Cl. 106—286.
- Tektronix, Inc.: *See*—
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- Teldec Schallplatten G. m. b. H.: *See*—
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- Telecomputing Corp.: *See*—
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- Tele-Dynamics, Inc.: *See*—
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- Teleflex Inc.: *See*—
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- Telefonaktiebolaget L M Ericsson: *See—*
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 Tunberg, Gustav V., Jörgensen, Parschin, and Edman. 2,781,817.
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- Telefonbau und Normalzeit G. m. b. H.: *See—*
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- Telefunken G. m. b. H.: *See—*
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- Telefunken Gesellschaft für drahtlose Telegraphie m. b. H.: *See—*
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- Telegraph Construction & Maintenance Co. Ltd.: *See—*
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- Telehoist Ltd.: *See—*
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- Telemeter Magnetics and Electronics Corp.: *See—*
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- Telephone Answering and Recording Corp.: *See—*
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 Van Deventer, Harry R., and Shively. 2,777,013.
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 Van Deventer, Harry R., and Bailey. 2,793,250.
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- Telephone Mfg. Co. Ltd.: *See—*
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- Telephonics Corp.: *See—*
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- Teleprompter Corp.: *See—*
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- Telegeregister Corp.: *See—*
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- Tele-Tect Corp.: *See—*
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- Teletrak Corp.: *See—*
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- Teletype Corp.: *See—*
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- Teletypesetter Corp.: *See—*
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 Goetz, Maurus T. 2,786,568.
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- Television Associates, Inc.: *See—*
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 Telkes, Maria. Apparatus for storing and releasing heat. 2,808,494, 10-1-57, Cl. 219-19.
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 Tell, William J., and G. L. Rothrock, to General Motors Corp. Ornamental wheel cover. 2,792,261, 5-14-57, Cl. 301-37.
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 Tempelhof, Jonas. Strap with two-part buckle. 2,811,766, 11-5-57, Cl. 24-265.
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 Temple, Hiram E., to Capital Products Corp. Conveyor stripping apparatus. 2,809,739, 10-15-57, Cl. 198-21.
 Temple, Hiram E., to Capitol Products Corp. Pneumatic conveyor system. 2,810,609, 10-22-57, Cl. 302-3.
 Temple, Lemuel M., to Olin Mathieson Chemical Corp. Electrically powered fire control mechanisms for firearms. 2,780,882, 2-12-57, Cl. 42-84.
 Temple, Robert, to Temple Velocity Equipment, Inc. Mine chain breaker. 2,800,868, 7-30-57, Cl. 114-221.
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 Temple Safety on Sea Mfg. Co. Inc.: *See—*
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 Temple Velocity Equipment, Inc.: *See—*
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 Templeton, Robert A. S. Edible powders and method of producing same. 2,777,771, 1-15-57, Cl. 99-207.
 Templeton, Robert A. S. Apparatus for preparing dried food and other products. 2,788,732, 4-16-57, Cl. 99-246.
 Templeton, William E. Counterbalanced reciprocating cutting assembly. 2,787,111, 4-2-57, Cl. 56-297.
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 Templin, Philip R., to Gulf Research & Development Co. Wax composition and fibrous material coated therewith. 2,817,640, 12-24-57, Cl. 260-28.5.
 Templin, Raymond C. Photoelectric color-converter for cathode ray tubes. 2,814,670, 11-26-57, Cl. 178-5.4.
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 Ten Broeck, Walter T. L., Jr., to The Goodyear Tire & Rubber Co. Latex treatment. 2,802,040, 8-6-57, Cl. 260-820.
 Tench, John D., to Sun Oil Co. Wax composition. 2,807,524, 9-24-57, Cl. 44-7.5.
 Ten Dam, L. P. Maria, to North American Philips Co., Inc. Auxiliary apparatus for energizing an electric discharge tube. 2,789,252, 4-16-57, Cl. 315-138.
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 Tenenbaum, Paul, to Copco Trailer Division, a division of Copco Steel & Engineering Co. Trailer body rear door corner construction. 2,793,068, 5-21-57, Cl. 296-28.
 Ten Eyck, William D. Easy start two-way siphon. 2,779,349, 1-29-57, Cl. 137-145.
 Tenfjord, Knut H. Hydraulic steering apparatus for ship's rudders. 2,808,809, 10-8-57, Cl. 121-38.

- Tener, Harold. Vacuum husking roll for mechanical corn pickers. 2,779,337, 1-29-57, Cl. 130-5.
- Teng, Lee C., and J. L. Tuck, to the United States of America as represented by the Secretary of the Navy. Magnetic regenerative deflector for cyclotrons. 2,812,463, 11-5-57, Cl. 313-62.
- Tenius Olsen Testing Machine Co.: See—
Strimel, Robert S. 2,808,721.
- Tenner, Norman N.: See—
Lasky, William N., and Tenner. 2,817,523.
- Tennes, Charles J., to C. G. Conn Ltd. Oscillator for musical instrument. 2,806,954, 9-17-57, Cl. 250-36.
- Tennessee Corp.: See—
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Nikitin, Alexander A., and Plummer. 2,804,382.
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- Tennessee Valley Authority: See—
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- Tenney Engineering, Inc.: See—
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- Tenney, Ralph F., R. G. Dressler, and H. A. Remmert, to the United States of America as represented by the Secretary of the Interior. Apparatus for performing the Fischer-Tropsch reaction. 2,789,888, 4-23-57, Cl. 23-288.
- Tenney, Robert I.: See—
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- Tenney, William L., and S. E. Knox; said Knox assor. to said Tenney. Method of and apparatus for feeding fuel to a resonant pulse jet engine. 2,799,137, 7-16-57, Cl. 60-35.6.
- Tennis, Francis H., to Hydraulic Unit Specialties Co. Multi-stage hydraulic cylinder. 2,783,744, 3-5-57, Cl. 121-46.
- Tennison Brothers, Inc.: See—
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- Teno, Vincent. Composite grind wheel forming tool. 2,811,961, 11-5-57, Cl. 125-37.
- Ten Point Trim Corp.: See—
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- Te Nuyt, Johannes A., to Shell Development Co. Oil atomizing double vortex burner. 2,806,517, 9-17-57, Cl. 158-4.
- Teplitz, Abraham J., to Gulf Research & Development Co. Method and device for sealing a borehole wall. 2,800,185, 7-23-57, Cl. 166-27.
- Teplitz, Abraham J., to Gulf Research & Development Co. Apparatus for stopping lost circulation. 2,808,888, 10-8-57, Cl. 166-162.
- Teplitz, Abraham J., to Gulf Research & Development Co. Squeeze cementing. 2,813,584, 11-19-57, Cl. 166-23.
- Teplitz, Alfred: See—
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- Terauchi, Seichi. Curtain attachment for television cabinets. 2,782,847, 2-26-57, Cl. 160-124.
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- Tercé, Paul J. J. Coffee-maker. 2,817,285, 12-24-57, Cl. 99-303.
- Terhune, Edgar A., to the United States of America as represented by the Secretary of the Army. Inertia staged starter. 2,788,962, 4-16-57, Cl. 264-1.
- Terhune, Howard, to Baldwin-Lima-Hamilton Corp. Drop hammer. 2,807,177, 9-24-57, Cl. 78-25.
- Terhune, Hugh D.: See—
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- Terlato, Sebastian: See—
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- Termini, Frank A., and J. M. Rafalko, to International Telephone and Telegraph Corp. Apparatus for printed-circuit solder coating. 2,803,216, 8-20-57, Cl. 118-423.
- Termite Drills Inc.: See—
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- Terney, Ewald W. Safety supports for burning cigarettes or cigars. 2,785,686, 3-19-57, Cl. 131-257.
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- Terpstra, Marrine A., and F. B. Zienty, to Monsanto Chemical Co. Preparation of alkoxy-benzylhalides. 2,796,440, 6-18-57, Cl. 260-613.
- Terpstra, Marrine A., to Monsanto Chemical Co. Arylacetic acids. 2,817,681, 12-24-57, Cl. 260-521.
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- Terranova, Federico, to Chick-nova Corp. Meat boning machine. 2,785,434, 3-19-57, Cl. 17-1.
- Terranova, Paul: See—
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- Terre, Victor J. Rotary display devices. 2,810,222, 10-22-57, Cl. 40-32.
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- Terrill, Flanery O., to The Kroger Co. Fork lift handling equipment for palletized loads. 2,808,157, 10-1-57, Cl. 214-38.
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- Terry, Everett A. Horticultural containers. 2,810,989, 10-29-57, Cl. 47-34.
- Terry, Foss B., to Bendix Aviation Corp. Couple force nozzle. 2,805,889, 9-10-57, Cl. 299-69.
- Terry, Francis S., to W. & T. Avery Ltd. Automatic or semi-automatic weighing apparatus. 2,805,834, 9-10-57, Cl. 249-42.
- Terry, Henry F., to the United States of America as represented by the Secretary of the Army. Light reflector for lanterns. 2,785,290, 3-12-57, Cl. 240-11.
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- Terry Machinery Co. Ltd.: See—
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- Terry, Paul V., to General Electric Co. Snap acting mechanism. 2,788,410, 4-9-57, Cl. 200-67.
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- Teske, Fritz W. Device for picking up and conveying material. 2,792,098, 5-14-57, Cl. 198-7.
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- Tess, Roy W., to Shell Development Co. Alcoholizing fatty oils with polyhydric tertiary alcohols. 2,806,046, 9-10-57, Cl. 260-410.6.
- Tessieri, John E.: See—
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- Tessmar, John E.: See—
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- Tetro, Roland G., to The E. Inghram Co. Directional drive control for self-starting synchronous motor. 2,789,673, 4-23-57, Cl. 192-4.
- Tettis, Ralph J., $\frac{1}{2}$ to W. P. Murphy Trust (S. P. Murphy, trustee). Cutting comb and fulcrum support. 2,809,425, 10-15-57, Cl. 30-233.5.
- Teuber, Hans J. New oxidation products of organic compounds, and a method of making same. 2,782,210, 2-19-57, Cl. 260-396.
- Teufel, Aloisius, to Orthopedic Equipment Co. Cervical brace. 2,807,260, 9-24-57, Cl. 128-87.
- Teuteberg, Rudolf, to SKB Schuchtermann & Kremer-Baum Aktiengesellschaft fuer Aufbereitung. Adjusting the viscosity of heavy-material suspensions in the dressing of ores. 2,817,439, 12-24-57, Cl. 209-172.5.

- Teutsch, John H. Hoist lift connection for dies. 2,812,971, 11-12-57, Cl. 294-78.
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- Thall, Earle S., to Radio Corp. of America. Metal-working. 2,792,627, 5-21-57, Cl. 29-556.
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- Thatcher, Charles J. High speed machining by ultrasonic impact abrasion. 2,804,724, 9-3-57, Cl. 51-59.
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- Thies, John W.: *See*—
Sage, Walter P. 2,799,953.
- Thiess, Ludwig E., to General Electric Co. Porous ceramic mold and method of making same. 2,809,898, 10-15-57, Cl. 106-38.9.
- Thiessen, Elmer E., to General Motors Corp. Insulating method and apparatus. 2,783,171, 2-26-57, Cl. 154-2.26.
- Thiessen, Elmer E., to General Motors Corp. Method of impregnating electrical windings. 2,804,404, 8-27-57, Cl. 117-213.
- Thiessen, George J.: *See*—
Shaw, Edgar A. G., and Thiessen. 2,801,423.
- Thiessen, H. J.: *See*—
Von Seggern, Roy D. 2,813,514.
- Thieszen, Gustav: *See*—
Dick, August A., and F. F. 2,800,364.
- Thiokol Chemical Corp.: *See*—
Bertozzi, Eugene R. 2,796,325.
Fettes, Edward M., and Gannon. 2,789,958.
- Thiry, Leon F., to The General Tire & Rubber Co. Apparatus for making precision antivibration mountings. 2,785,458, 3-19-57, Cl. 29-235.
- Thiry, Leon F. Rubber bushing. 2,787,486, 4-2-57, Cl. 287-85.
- Thoeming, George R., to Wonder Products Co. Hobby horse with stirrups. 2,806,698, 9-17-57, Cl. 272-52.
- Tholand, Inc.: *See*—
Dwyer, Thiel E. 2,801,153.
- Tholstrup, Clarence E.: *See*—
Lappin, Gerald R., and Tholstrup. 2,801,254.
- Tholstrup, Clarence E., to Eastman Kodak Co. Stabilized fatty compositions. 2,808,417, 10-1-57, Cl. 260-398.5.
- Tholstrup, Clarence E., and A. Bell, to Eastman Kodak Co. Oxidizable compositions stabilized with 5-acenaphthenol. 2,801,179, 7-30-57, Cl. 99-163.
- Tholstrup, Henry L., to the United States of America as represented by the Secretary of the Navy. Adjustable width tape guides for perforated tape apparatus. 2,797,090, 6-25-57, Cl. 271-2.6.
- Thom, Eugene H., to Hoffman Electronics Corp. Frequency discriminators or the like. 2,782,302, 2-19-57, Cl. 250-27.
- Thoma, Dr. Jean: *See*—
Thoma, Hans. 2,800,230.
- Thoma, Hans, to Dr. J. Thoma. Magnetic separators. 2,800,230, 7-23-57, Cl. 210-223.
- Thoma, Richard W.: *See*—
Fried, Josef, and Thoma. 2,793,164.
Fried, Josef, and Thoma. 2,799,690.
- Thoma, Richard W., J. R. Gerke, and J. Fried, to Olin Mathieson Chemical Corp. Production of 11 β -hydroxysteroids by colletotrichum. 2,793,162, 5-21-57, Cl. 195-51.
- Thoma, Richard W., J. R. Gerke, and J. Fried, to Olin Mathieson Chemical Corp. 11 β -hydroxylation of pregnadienes by coniothyrium helleborine. 2,793,163, 5-21-57, Cl. 195-51.
- Thoma, Richard W., and J. Fried, to Olin Mathieson Chemical Corp. Derivatives of testolactone. 2,801,251, 7-30-57, Cl. 260-343.2.
- Thomae, Dr. Karl, G. m. b. H.: *See*—
Kottler, August, and Scheffler. 2,784,233.
Ohnacker, Gerhard, and Kottler. 2,812,327.
- Thomann, Fred A., to Deere Mfg. Co. Cotton picker unit with specific housing. 2,803,938, 8-27-57, Cl. 56-41.
- Thomas, Albert C. Hollow fishing lures. 2,817,180, 12-24-57, Cl. 43-42.06.

- Thomas, Albert G. Tracing and reproducing devices. 2,781,848, 2-19-57, Cl. 164-115.
- Thomas, Albert G. Motor. 2,782,354, 2-19-57, Cl. 318-254.
- Thomas, Albert G. Step motor and control system therefor. 2,787,719, 4-2-57, Cl. 310-49.
- Thomas, Albert G. Magnetic motor. 2,806,987, 9-17-57, Cl. 318-254.
- Thomas, Albert G. Two phase step motor. 2,808,556, 10-1-57, Cl. 318-254.
- Thomas, Aldrich R., to The Wheeler Insulated Wire Co., Inc. Handset. 2,808,461, 10-1-57, Cl. 179-81.
- Thomas, Alun, and E. F. Winter, to Shell Development Co. Vaporising oil burner and method of vaporising and burning heavy fuel. 2,792,058, 5-14-57, Cl. 158-5.
- Thomas, Andrew C. Plumb indicating device. 2,807,888, 10-1-57, Cl. 33-208.
- Thomas, Arthur H., Co.: See—
Webb, George C. 2,816,716.
- Thomas, Berwyn B., K. R. Gray, and P. H. Schlosser, deceased (E. S. Schlosser, executrix), to Rayonier Inc. Manufacture of cellulose acetate. 2,790,795, 4-30-57, Cl. 260-229.
- Thomas & Betts Co., The: See—
Badeau, Carroll A. 2,783,297.
Bergan, Martin D. 2,777,895.
Bergan, Martin D. 2,792,444.
Bethune, Harry R. 2,794,250.
Burnosky, George J. 2,783,442.
Curtiss, Lawrence M. 2,816,949.
Hardy, Alfred W. 2,792,853.
Koller, Frederick W., and Tomer. 2,798,113.
Logan, Maurus C. 2,811,706.
- Thomas, Bruce L. Dehairing process. 2,783,496, 3-5-57, Cl. 17-45.
- Thomas, Charles: See—
Hauck, Richard M. 2,813,647.
- Thomas, Charles C.: See—
Hoffhines, James R., and Thomas. 2,781,606.
- Thomas, Charles R.: See—
Saint, David, and Thomas. 2,807,309.
- Thomas, Chester A., to Babson Bros. Co. Milk receiving assembly for a carry away milking system. 2,783,737, 3-5-57, Cl. 119-14.54.
- Thomas, Chester A., to Babson Bros. Co. Stall cock. 2,783,771, 3-5-57, Cl. 137-238.
- Thomas, Chester A. Apparatus for constructing prefabricated masonry walls. 2,807,070, 9-24-57, Cl. 25-123.
- Thomas, Colin J. S. Meat product and process. 2,776,215, 1-1-57, Cl. 99-174.
- Thomas, Colin J. S. Process for packaging meat products and article produced thereby. 2,776,216, 1-1-57, Cl. 99-174.
- Thomas, David C., and D. Hunter, to General Electric Co. Electronic display system with phase changing non-linear output amplifier. 2,816,159, 12-10-57, Cl. 178-6.8.
- Thomas, David F., and R. A. Hill, to Watrous Co. Foam pump. 2,781,000, 2-12-57, Cl. 103-136.
- Thomas, David F., and R. A. Hill, to Watrous Co. Priming valve assembly. 2,790,393, 4-30-57, Cl. 103-113.
- Thomas, David F., and R. A. Hill, to Watrous Co. Vacuum primer. 2,795,236, 6-11-57, Cl. 137-202.
- Thomas, David F., and R. A. Hill, to Watrous Co. Ball type valve. 2,800,295, 7-23-57, Cl. 251-290.
- Thomas, David G. A., and E. H. Cooke-Yarborough, to National Research Development Corp. Multi-electrode gaseous-discharge tube circuits. 2,783,415, 2-26-57, Cl. 315-84.6.
- Thomas, David L.: See—
Clavier, Andre G., and Thomas. 2,782,382.
Jacobsen, Bent B., and Thomas. 2,785,398.
- Thomas, David L., to International Standard Electric Corp. Two way repeaters. 2,812,388, 11-5-57, Cl. 179-170.
- Thomas, Dean G., and R. J. Jasensky, to Nelson Muffler Corp. Muffler water-quench spark arrestor. 2,777,536, 1-15-57, Cl. 183-22.
- Thomas, Donald K. Form and method of casting a concrete roof. 2,798,279, 7-9-57, Cl. 25-118.
- Thomas, Dorsey B.: F. S. Thomas, heir and guardian of minor children of said D. B. Thomas, deceased, 1/2 to D. B. Middleton and 1/2 to herself. Sheet material spot welding attachment. 2,814,714, 11-26-57, Cl. 219-86.
- Thompson, Douglas G.: See—
Detweiler, James I., and Thompson. 2,781,207.
- Thomas, Edward C., to Great Lakes Carbon Corp. Electrode joints. 2,805,879, 9-10-57, Cl. 287-127.
- Thomas Electronics, Inc.: See—
Broderick, Nicholas E., and Lisovicz. 2,792,515.
Dabrowski, Augustine. 2,785,992.
- Thomas, Everett P.: See—
Chalmers, Joseph W., and Thomas. 2,810,404.
- Thomas, Floye S., heir, guardian: See—
Thomas, Dorsey B. 2,814,714.
- Thomas, Francis V. Combination miter guide and self-reversing radial saw apparatus. 2,784,750, 3-12-57, Cl. 143-47.
- Thomas, Frank W.: See—
Simon, Eli, and Thomas. 2,780,350.
Simon, Eli, and Thomas. 2,798,054.
Simon, Eli, and Thomas. 2,802,795.
Simon, Eli, and Thomas. 2,811,493.
Simon, Eli, Thomas, and Wiegand. 2,782,423.
- Thomas, Frank W., to Lockheed Aircraft Corp. Method of making cellular plastic articles. 2,802,240, 8-13-57, Cl. 18-48.
- Thomas, Fred, to The Heald Machine Co. Regulating valve. 2,808,068, 10-1-57, Cl. 137-110.
- Thomas, Fred G. Container closure. 2,792,161, 5-14-57, Cl. 222-522.
- Thomas, Frederick L., and F. F. Koblit, to Bjorksten Research Laboratories, Inc. Manufacture of silicone elastomers with the aid of a silent discharge. 2,778,793, 1-22-57, Cl. 204-165.
- Thomas, Garrett J. Child's combination stroller, car seat, bed and highchair. 2,805,076, 9-3-57, Cl. 280-41.
- Thomas, Gerald R., to Chrysler Corp. Foldable seat for automobile body. 2,797,732, 7-2-57, Cl. 155-13.
- Thomas, Gerald R., to Chrysler Corp. Flexible sealing strip for windows. 2,814,525, 11-26-57, Cl. 296-93.
- Thomas, Gerald R., and N. O. Koff, to Chrysler Corp. Locking mechanism for convertible top. 2,785,914, 3-19-57, Cl. 292-7.
- Thomas, Glenn M., and G. T. McClure, to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,812,985, 11-12-57, Cl. 303-35.
- Thomas, Gordon E.: See—
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,789,759.
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,796,218.
Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,813,255.
- Thomas, Graham I., to National Research Development Corp. Number signal analysing means for electronic digital computing machines. 2,800,278, 7-23-57, Cl. 235-61.
- Thomas, Graham I., and B. W. Pollard, to National Research Development Corp. Electrostatic storage of digital information. 2,804,570, 8-27-57, Cl. 315-12.
- Thomas, Harry, to Allen B. Du Mont Laboratories, Inc. Deflection yoke. 2,793,311, 5-21-57, Cl. 313-76.
- Thomas, Harry E., and E. Stein, to International Telephone and Telegraph Corp. Signal switching device. 2,797,341, 6-25-57, Cl. 307-112.
- Thomas, Henry A. L.: See—
Nute, Jay H., and Thomas. 2,816,699.
- Thomas, Henry B., to J. C. Greene. Portable fire alarm. 2,799,850, 7-16-57, Cl. 340-227.
- Thomas, Herbert B., to Ronald Trist & Co., Ltd. Relay mechanism. 2,790,459, 4-30-57, Cl. 137-412.
- Thomas, Howard J.: See—
Von Stroh, Gerald F. H., and Thomas. 2,805,760.
Von Stroh, Gerald F. H., and Thomas. 2,805,761.
- Thomas, Hugh R.: See—
Buquor, Adolph P., and J. L. 2,788,501.
- Thomas, Iorwerth H.: See—
Davies, Frank, Moseley, and Thomas. 2,789,584.
- Thomas, Irving M., to Western Precipitation Corp. Dust collector construction. 2,818,175, 12-31-57, Cl. 209-143.
- Thomas, James A.: See—
Orsini, Val E., and Thomas. 2,808,081.
- Thomas, James C., and G. T. Gore, to Riegel Textile Corp. Apparatus for handling a printed fabric web during development of the print colors thereon. 2,777,312, 1-15-57, Cl. 68-5.
- Thomas, James C., G. T. Gore, and D. L. Simmons, to Riegel Textile Corp. Process for aging azoic printed fabrics. 2,777,748, 1-15-57, Cl. 8-71.
- Thomas, James G., and C. R. Broman, to Baxter Laboratories, Inc. Air-way puncture device. 2,777,443, 1-15-57, Cl. 128-214.
- Thomas, James G., and A. G. Roberts. Cultivator. 2,781,712, 2-19-57, Cl. 97-198.1.
- Thomas, Jesse B., to Reynolds Metals Co. Sheathed capillary inlet for refrigerator. 2,776,552, 1-8-57, Cl. 62-127.
- Thomas, Jesse B., to Reynolds Metals Co. Capillary coupled heat exchangers. 2,785,542, 3-19-57, Cl. 62-117.55.
- Thomas, John B., to Princeton Knitting Mills, Inc. Stencil printing apparatus. 2,783,709, 3-5-57, Cl. 101-123.
- Thomas, John C.: See—
Catlin, Willard E., and Thomas. 2,810,736.
- Thomas, John F. Soldering device. 2,780,712, 2-5-57, Cl. 219-27.
- Thomas, John R.: See—
Abbott, Andrew D., Harle, and Thomas. 2,795,549.
Harle, Oliver L., and Thomas. 2,795,547.
Harle, Oliver L., and Thomas. 2,795,551.
Harle, Oliver L., Thomas, and Abbott. 2,795,550.
- Thomas, John R., and O. L. Harle, to California Research Corp. Lubricant compositions. 2,795,548, 6-11-57, Cl. 252-49.6.
- Thomas, John W., to The Standard Oil Co. Thermal diffusion apparatus. 2,788,321, 4-9-57, Cl. 210-176.
- Thomas, John W., to The Standard Oil Co. Thermal diffusion apparatus. 2,788,900, 4-16-57, Cl. 210-176.
- Thomas, John W., to The Standard Oil Co. Thermal diffusion apparatus. 2,789,088, 4-16-57, Cl. 210-176.
- Thomas, John W., to The Standard Oil Co. Thermal diffusion apparatus. 2,789,945, 4-23-57, Cl. 210-52.5.
- Thomas, John W., to The Standard Oil Co. Thermal diffusion apparatus. 2,789,946, 4-23-57, Cl. 210-176.

- Thomas, Joseph R. Bed davenport. 2,779,030, 1-29-57, Cl. 5-13.
- Thomas, Joseph R. Long davenport bed. 2,795,800, 6-18-57, Cl. 5-28.
- Thomas, LeRoy A. Syringe. 2,802,466, 8-13-57, Cl. 128-241.
- Thomas, Leslie D., to Westinghouse Electric Corp. Monitor System. 2,799,014, 7-9-57, Cl. 340-253.
- Thomas, Levi M.: *See*—
Miley, Walter M., Thomas, and Bierly. 2,797,212.
- Thomas, Louis G. L., and S. K. Lehman, to C. H. Wheeler Mfg. Co. Power-operated mechanism. 2,815,683, 12-10-57, Cl. 74-626.
- Thomas, Louis G. L., and S. K. Lehman, to C. H. Wheeler Mfg. Co. Power-operated mechanism. 2,815,922, 12-10-57, Cl. 251-76.
- Thomas, Lucius P., to Radio Corp. of America. Keyed automatic gain control circuit compensated for keying pulse amplitude variation. 2,794,067, 5-28-57, Cl. 178-7.5.
- Thomas, Lucius P., to Radio Corp. of America. Automatic gain control circuits with hum compensation. 2,796,462, 6-18-57, Cl. 178-7.3.
- Thomas, Lucius P., to Radio Corp. of America. Television receiver noise suppression. 2,797,259, 6-25-57, Cl. 178-7.3.
- Thomas, Lucius P., and C. W. Hoyt, to Radio Corp. of America. Noise cancellation circuits with intermediate frequency amplifier screen grid noise detection. 2,791,627, 5-7-57, Cl. 178-7.3.
- Thomas, Martin A., to W. D. Keith. Dual water heating systems. 2,814,279, 11-26-57, Cl. 122-18.
- Thomas, Morton I. Web fastening. 2,817,392, 12-24-57, Cl. 155-187.
- Thomas, Nelson E. Adjustable tubeless tire bead seating device and support. 2,815,804, 12-10-57, Cl. 157-1.21.
- Thomas, Paul M., to Builders Equipment Co. Pallet handler for concrete blocks. 2,803,356, 8-20-57, Cl. 214-16.4.
- Thomas, Paul M. Stack of building blocks. 2,804,980, 9-3-57, Cl. 214-10.5.
- Thomas, Percy H., deceased; E. T. Allen and K. T. Hanson, executrices. Method of and apparatus for flash evaporation treatment. 2,803,589, 8-20-57, Cl. 202-53.
- Thomas, Philip. Automatic auto stabilizer and shock absorber. 2,779,587, 1-29-57, Cl. 267-11.
- Thomas, Raymond R. Tunneling apparatus. 2,798,692, 7-9-57, Cl. 255-20.
- Thomas, Richard A. Method and apparatus for constructing and restyling fur coats. 2,793,797, 5-28-57, Cl. 223-61.
- Thomas, Robert M., and J. W. Churchill, to Olin Mathieson Chemical Corp. Selective chlorination. 2,809,221, 10-8-57, Cl. 260-654.
- Thomas, Robert N., to The Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Retractable center disc for phonograph turntable. 2,799,509, 7-16-57, Cl. 274-39.
- Thomas, Seymour, Jr., to Crown Zellerbach Corp. Control of boron poisoning plants. 2,794,299, 6-4-57, Cl. 47-58.
- Thomas & Skinner, Inc.: *See*—
Ireland, James R., and Lester. 2,797,161.
- Thomas, Stena R. Combination juicer and grater. 2,801,658, 8-6-57, Cl. 146-3.
- Thomas, Stephen L.: *See*—
Buquor, Adolph P., and J. L. 2,788,501.
- Thomas, Thomas H.: *See*—
Price, Earl R., and Thomas. 2,787,122.
- Thomas, Thomas H., to Bendix Aviation Corp. No-creep brake control mechanism. 2,799,372, 7-16-57, Cl. 192-3.
- Thomas, Thomas R., to Auto Research Corp. Central lubricant pump. 2,784,808, 3-12-57, Cl. 184-27.
- Thomas, Thomas R., to Auto Research Corp. Lubricant pump. 2,787,222, 4-2-57, Cl. 103-38.
- Thomas, Thomas R., to Auto Research Corp. Lubricant pump and reservoir. 2,787,336, 4-2-57, Cl. 184-27.
- Thomas, Thomas R., to Auto Research Corp. Flow metering unit. 2,810,541, 10-22-57, Cl. 251-118.
- Thomas, Thomas R., to Auto Research Corp. Moisture meter or hygrometer. 2,815,662, 12-10-57, Cl. 73-335.
- Thomas Tool & Die Co.: *See*—
Cookson, Arthur I., and De Mont. 2,788,187.
- Thomas, Upton B., Jr., and E. A. Wood, to Bell Telephone Laboratories, Inc. Stable liquid electrodes for piezo-electric crystals. 2,811,655, 10-29-57, Cl. 310-8.9.
- Thomas, Walter M.: *See*—
Price, John A., and Thomas. 2,812,315.
- Thomas, Walter M., to American Cyanamid Co. Ternary polymers of acrylonitrile, a 2-alkenyl dihydroxyalkanyl ether and either an alkyl acrylate or a vinyl pyridine. 2,798,864, 7-9-57, Cl. 260-80.5.
- Thomas, Wendell B. Resilient connection for tire cross-chains. 2,806,504, 9-17-57, Cl. 152-239.
- Thomas, William A., to General Electric Co. Magnetic thermal trip. 2,776,349, 1-1-57, Cl. 200-88.
- Thomas, William A., to General Electric Co. Multipole electric circuit breakers. 2,779,831, 1-29-57, Cl. 200-50.
- Thomas, William A., to Marvel Engineering Co. High pressure valved filters. 2,801,751, 8-6-57, Cl. 210-133.
- Thomas, William C.: *See*—
Tyler, Arthur W., Hughey, and Thomas. 2,795,328.
- Thomas, William P. Mud mixing apparatus. 2,813,702, 11-19-57, Cl. 259-4.
- Thomasma, John C. Toilet seat cover dispensing package. 2,779,500, 1-29-57, Cl. 221-26.
- Thomasson, Leland T.: *See*—
Maynard, John E., Thomasson, and Hamilton. 2,796,566.
- Thomen, Bina K., to The Cramer Chemical Co. Shipping container for tablets having dispensing structure. 2,806,633, 9-17-57, Cl. 221-264.
- Thomisee, Lanie, 33 $\frac{1}{3}$ % to J. N. Fletcher and 10% to W. T. McCain. Animal trap. 2,813,369, 11-19-57, Cl. 43-61.
- Thommen, Carl A., to Swift & Co. Sausage package. 2,716,038, 12-10-57, Cl. 99-174.
- Thommen, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Combined current transformer and disconnect switch. 2,793,330, 5-21-57, Cl. 317-157.6.
- Thommen, Hans, and L. Butz, to Aktiengesellschaft Brown, Boveri & Cie. Disconnect switch for high voltage lines. 2,794,870, 6-4-57, Cl. 200-48.
- Thommen, Hans, and L. Butz, to Aktiengesellschaft Brown, Boveri & Cie. Disconnect switch. 2,796,477, 6-18-57, Cl. 200-48.
- Thommen, Kurt, to Schneto A. G. Vacuum brake for two-stroke engines for motor vehicles. 2,778,849, 1-22-57, Cl. 123-97.
- Thompson, Albion J. Humidifying system. 2,806,466, 9-17-57, Cl. 126-113.
- Thompson, Alfred L. Furnace lighter. 2,781,653, 2-19-57, Cl. 67-6.1.
- Thompson, Arthur M. Filtered duct in refrigerator. 2,811,840, 11-5-57, Cl. 62-117.4.
- Thompson, Benjamin: *See*—
Hagemeyer, Hugh J., Jr., Thompson, and Hargis. 2,786,867.
- Thompson, Bernard H. M.: *See*—
Jacobs, David I. H., and Thompson. 2,801,262.
Webster, William, and Thompson. 2,812,357.
- Thompson, Bernard H. M., to Hercules Powder Co. Aromatic hydroxy hydroperoxides. 2,776,320, 1-1-57, Cl. 260-610.
- Thompson, Bradley R., and J. D. Saint-Amour, to Assembly Products, Inc. Contact meter. 2,780,709, 2-5-57, Cl. 219-20.
- Thompson-Bremer & Co.: *See*—
Komarek, George C. 2,817,861.
- Thompson, Bryan. Pick-up tool. 2,804,336, 8-27-57, Cl. 294-61.
- Thompson, Carl A. Gun rest. 2,778,552, 1-22-57, Cl. 224-1.
- Thompson, Charles D., to Merrimac, Inc. Can key turning device. 2,802,594, 8-13-57, Cl. 220-52.
- Thompson, Charles E., J. Stewart, and A. W. Langer, Jr., to Esso Research and Engineering Co. Two-stage hydrogen donor diluent cracking process. 2,791,541, 5-7-57, Cl. 196-49.
- Thompson, Crayton B.: *See*—
Nadeau, Gale F., and Thompson. 2,801,191.
- Thompson, Dennis, to Imperial Chemical Industries Ltd. Production of terephthalic acid or esters thereof. 2,782,222, 2-19-57, Cl. 260-475.
- Thompson, Earl E., 50% to J. Rizzo. Sliding door. 2,791,005, 5-7-57, Cl. 20-19.
- Thompson, Edward O. Planer for boats. 2,805,692, 9-10-57, Cl. 144-1.
- Thompson, Edward O. Attachment for planer for boats. 2,805,696, 9-10-57, Cl. 145-4.
- Thompson, Elbert O. Evacuative suction apparatus. 2,784,717, 3-12-57, Cl. 128-276.
- Thompson Electric Co., The: *See*—
Farrington, Thayer B., and R. K. Farrington, Dalzell, and Kurzenberger. 2,798,680.
- Thompson, Elmer B., to Globe Hoist Co. Lift apparatus. 2,802,457, 8-13-57, Cl. 121-46.
- Thompson, Elmer W.: *See*—
Rumberger, Chester P. 2,779,989.
- Thompson, Elton H.: *See*—
Brooks, Edward H., Jr. 2,810,625.
- Thompson, Emmett E.: *See*—
Zang, Victor E., and Thompson. 2,775,803.
- Thompson, Ernest A.: *See*—
Thompson, William A., and E. A. 2,784,447.
- Thompson, Ernest S.; assor. to said Thompson and Ethel Thompson. Stalk and root puller and shredder. 2,777,267, 1-15-57, Cl. 55-64.
- Thompson, Ethel: *See*—
Thompson, Ernest S. 2,777,267.
- Thompson, Frank R., to B-I-F Industries, Inc. Sealing member. 2,809,060, 10-8-57, Cl. 288-1.
- Thompson, George F.: *See*—
Zapapas, James R., and Thompson. 2,798,024.
- Thompson, George K., to Plastic Containers, Inc. Method and apparatus for treating materials. 2,788,426, 4-9-57, Cl. 219-10.75.
- Thompson, George K., to Plastic Containers, Inc. Apparatus for treating dielectric substances. 2,793,276, 5-21-57, Cl. 219-10.79.

- Thompson, Glenn S., to Melair Corp. Drying apparatus for towels and the like. 2,815,585, 12-10-57, Cl. 34-151.
- Thompson Grinder Co., The: See—
- Wilson, John C. 2,785,511.
- Thompson, Hazle D. Dress comb. 2,806,476, 9-17-57, Cl. 132-158.
- Thompson, Henry L., to Stevens & Thompson. Dual clarifier. 2,801,007, 7-30-57, Cl. 210-320.
- Thompson, Henry L., and J. A. Montgomery, to Lakeside Engineering Corp. Sewage disposal system with aeration and recirculation. 2,798,041, 7-2-57, Cl. 210-8.
- Thompson, Howard D. Infant's auto seat-stroller. 2,803,468, 8-20-57, Cl. 280-30.
- Thompson, Howard G.: See—
- Wathen, William A., and Thompson. 2,793,053.
- Thompson, Ivan P., W. Allmang, and W. C. Weidner, to Union Carbide Corp. Thermochemical scarfing process. 2,812,274, 11-5-57, Cl. 148-9.5.
- Thompson, Iverson G., III. Motorized locking means. Re. 24,375, 10-15-57, Cl. 292-251.
- Thompson, James R. Attachment for indexing heads. 2,777,338, 1-15-57, Cl. 74-813.
- Thompson, Jay D., to Bemis Bro. Bag Co. Stiffening panels for flexible walled containers. 2,815,898, 12-10-57, Cl. 229-55.
- Thompson, Jerome B., and B. D. Buddemeyer, to C. J. Patterson Co. Acyl lactic acid products. 2,789,992, 4-23-57, Cl. 260-410.9.
- Thompson, John H. X-ray beam columnator. 2,806,146, 9-10-57, Cl. 250-105.
- Thompson, John H., and R. H. Whittaker, to the United States of America as represented by the Secretary of the Navy. Phase shifting circuit. 2,794,948, 6-4-57, Cl. 323-122.
- Thompson, John S., to Parker Rust Proof Co. Inorganic molding composition. 2,795,510, 6-11-57, Cl. 106-286.
- Thompson, John W.: See—
- Lappin, Gerald R., and Thompson. 2,811,429.
- Thompson, John W., R. A. Wilson, and R. B. Holland, to The Galigher Co. Corrosion and abrasion resistant sump pump for slurries. 2,808,782, 10-8-57, Cl. 103-87.
- Thompson, Joseph C. Adjustable head rests for chiropractic treatment. 2,791,215, 5-7-57, Cl. 128-69.
- Thompson, Kevin N., to The Standard Oil Co. Dilution tank. 2,791,494, 5-7-57, Cl. 23-267.
- Thompson, Lee E.: See—
- Stinson, Lawrence W., Thompson, and Dean. 2,800,628.
- Thompson, Lee E., and L. W. Stinson, to Sinclair Research Laboratories, Inc. Apparatus. 2,783,420, 2-26-57, Cl. 317-246.
- Thompson, Lee W., and J. L. Diehl; said Diehl assor. to said Thompson. Side rail for adjustable height beds. 2,779,953, 2-5-57, Cl. 5-331.
- Thompson, Leo I. Picture frame construction. 2,805,506, 9-10-57, Cl. 40-152.
- Thompson, Leonard H.: See—
- Lodge, Dennis, Thompson, and Storey. 2,815,470.
- Thompson, Lew A. Revolving wheel support for automobiles. 2,797,006, 6-25-57, Cl. 214-340.
- Thompson, Lonnie L. Automatic tank shut-off. 2,796,883, 6-25-57, Cl. 137-399.
- Thompson, Lyman F. Interproximal stops for preventing filling overhang into the interproximal space between teeth. 2,782,503, 2-26-57, Cl. 32-63.
- Thompson, Malcolm W., to Warner Lewis Co. Diesel oil separator. 2,781,909, 2-19-57, Cl. 210-43.
- Thompson, Malcolm W. Gas and liquid filter/separator. 2,781,913, 2-19-57, Cl. 210-120.
- Thompson, Malcolm W., to Warner Lewis Co. Horizontal multiple filter apparatus. 2,788,129, 4-9-57, Cl. 210-323.
- Thompson Mfg. Co., Inc.: See—
- Thompson, William M. 2,775,815.
- Thompson, Marcus C. Evaporative air-conditioning apparatus. 2,793,015, 5-21-57, Cl. 261-29.
- Thompson, Marvin R. Preparation of veratrum viride. 2,787,616, 4-2-57, Cl. 260-236.
- Thompson, Moody C., Jr., to the United States of America as represented by the Secretary of Commerce. Crystal-stabilized pulse-pair generator. 2,817,759, 12-24-57, Cl. 250-27.
- Thompson, N. H., Jr. Elastic power transmission belt. 2,805,540, 9-10-57, Cl. 57-141.
- Thompson, Norman, and W. K. Parcels, to Sun Oil Co. Soluble oil and preparation. 2,797,197, 6-25-57, Cl. 252-33.3.
- Thompson, Norman J., to the United States of America as represented by the Secretary of War. Incendiary device. 2,791,178, 5-7-57, Cl. 102-6.
- Thompson, Norman L. Adhesive tape dispenser. 2,815,125, 12-3-57, Cl. 206-59.
- Thompson, Parker O.: See—
- Carroll, Raymond C., and Thompson. 2,797,722.
- Thompson, Paul, to Bestpak Inc. Box and box blank. 2,782,977, 2-26-57, Cl. 229-14.
- Thompson, Paul. Packaging tray. 2,792,165, 5-14-57, Cl. 229-31.
- Thompson, Paul J.: See—
- Marini, Thomas O., and Thompson. 2,814,242.
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- Thompson Products, Inc.: See—
- Anderson, Robert J., and Lepley. 2,812,774.
- Angell, Pierce T. 2,781,831.
- Aspelin, Leslie L. 2,800,082.
- Aspelin, Leslie L. 2,813,493.
- Banister, Robert T. 2,811,757.
- Bartlett, Kenneth M. 2,787,441.
- Bartlett, Kenneth M., and Sawyer. 2,792,604.
- Bayer, Frank C. 2,786,482.
- Booth, James H. 2,797,930.
- Booth, James H. 2,809,855.
- Cass, Richard. 2,811,347.
- Chapman, Walter R., and Fairweather. 2,790,091.
- Cherry, Dean B. 2,816,198.
- Clark, Clyde C. 2,778,061.
- Cliborn, Robert. 2,781,105.
- Cockerham, Frank E. 2,814,696.
- Colwell, Archie T. 2,795,467.
- Compton, William A., Johnson, and Paetz. 2,778,344.
- Corbett, Marshall J. 2,800,020.
- Di Stefano, John F. 2,808,784.
- Fairweather, Stephen H. 2,790,126.
- Fairweather, Stephen H. 2,802,952.
- Fairweather, Stephen H., and Hinde. 2,800,595.
- Fairweather, Stephen H., Hinde, and Seldner. 2,800,593.
- Fidler, Robert E. 2,779,093.
- Gates, Richard L. 2,780,113.
- Gates, Richard L. 2,786,153.
- Graham, Matthew P., and Herbenar. 2,808,817.
- Guth, Fred H. 2,790,092.
- Hannum, Albert K. 2,790,686.
- Harris, Edward F. 2,784,382.
- Heiss, John P. 2,786,456.
- Heiss, John P. 2,795,218.
- Heiss, John P. 2,817,565.
- Herbenar, Edward J. 2,778,664.
- Herbenar, Edward J. 2,797,929.
- Herbenar, Edward J. 2,802,459.
- Hinde, William L., Guth, and Fairweather. 2,790,090.
- Hopper, Malcolm M., and Lepley. 2,779,582.
- Howell, Forrest W. 2,800,122.
- Lepley, Allen E. 2,811,651.
- Markstrum, John A. 2,808,764.
- Murray, John F. 2,816,512.
- Newmier, Carleton H. 2,781,730.
- Oppenheimer, Frank L., and Frenk. 2,804,938.
- Prasse, Herbert F., and Armstrong. 2,805,943.
- Roush, Milton S. 2,807,437.
- Sampietro, Achilles C. 2,808,818.
- Sampietro, Achilles C. 2,813,521.
- Sampietro, Achilles C. 2,815,012.
- Sawyer, John C. 2,807,845.
- Schunemann, Carl F. 2,784,379.
- Spotz, Donald R., and Elbel. 2,801,043.
- Stevens, Edward W. 2,803,690.
- Thoren, Theodore R., and Gates. 2,780,175.
- Wellington, Joseph C., Jr. 2,801,380.
- Wellington, Joseph C., Jr., Fairweather, and Guth. 2,795,747.
- Wellington, Joseph C., Jr., Fairweather, and Guth. 2,795,748.
- Wellington, Joseph C., Jr., Hinde, and Fairweather. 2,800,594.
- Thompson, Quentin E., to Monsanto Chemical Co. Synthesis of steroid intermediates. 2,803,653, 8-20-57, Cl. 260-514.5.
- Thompson, Quentin E., to Monsanto Chemical Co. Tricyclic ketone preparation. 2,803,658, 8-20-57, Cl. 260-586.
- Thompson, Ralph B., to Universal Oil Products Co. Dithia-dioxo-hydrocarbons. 2,794,049, 5-28-57, Cl. 260-586.
- Thompson, Ralph B., to Universal Oil Products Co. Dithia-dioxo-hydrocarbons. 2,794,050, 5-28-57, Cl. 260-586.
- Thompson, Ralph B., to Universal Oil Products Co. Stabilization of organic compounds. 2,801,926, 8-6-57, Cl. 99-163.
- Thompson, Ralph B., to Universal Oil Products Co. Stabilization of organic compounds. 2,801,927, 8-6-57, Cl. 99-163.
- Thompson, Ralph B., and T. Symon, to Universal Oil Products Co. Stabilization of fatty materials. 2,801,928, 8-6-57, Cl. 99-163.
- Thompson, Ralph B., and T. Symon, to Universal Oil Products Co. Stabilization of organic compounds. 2,810,651, 10-22-57, Cl. 99-163.
- Thompson, Ralph B., and E. M. Geiser, to Universal Oil Products Co. Spirohydrindenes for resolution of hydrocarbon mixtures containing relatively straight chain aliphatic components. 2,818,450, 12-31-57, Cl. 260-666.
- Thompson, Reuben A. Gauze holder. 2,798,597, 7-9-57, Cl. 206-52.
- Thompson, Reynald E., to Motorola, Inc. Tuner. 2,793,294, 5-21-57, Cl. 250-40.
- Thompson, Reynald E., to Motorola, Inc. Tuning apparatus. 2,793,531, 5-28-57, Cl. 74-10.33.
- Thompson, Reynald E., to Motorola, Inc. Control apparatus. 2,811,045, 10-29-57, Cl. 74-10.33.
- Thompson, Richard R., to Union Carbide and Carbon Corp. Layer winding and reeling. 2,789,775, 4-23-57, Cl. 242-25.
- Thompson, Richard R., to The Lummus Co. Heat exchanger. 2,812,164, 11-5-57, Cl. 257-32.

- Thompson, Robert. Partition-wardrobes. 2,790,209, 4-30-57, Cl. 20-4.
- Thompson, Robert B., to The Eimco Corp. Vacuum filter. 2,781,133, 2-12-57, Cl. 210-199.
- Thompson, Robert B. Finger ring having means for successive temporary and permanent mounting of a platen. 2,811,024, 10-29-57, Cl. 63-26.
- Thompson, Robert J.: *See*—
Secord, Lloyd C. 2,784,813.
- Thompson, Robert R., to Esso Research and Engineering Co. Electrical well logging system. 2,799,004, 7-9-57, Cl. 324-1.
- Thompson, Roger D.: *See*—
Sziklai, George C., and Thompson. 2,792,521.
- Thompson, Roscoe L., to Callaway Mills Co. Apparatus for making pile fabrics. 2,781,007, 2-12-57, Cl. 112-79.
- Thompson, Russell G., to Eastman Kodak Co. Facsimile film-copying apparatus. 2,776,337, 1-1-57, Cl. 178-6.6.
- Thompson, Stanley G., and G. T. Seaborg, to the United States of America as represented by the United States Atomic Energy Commission. Bismuth phosphate process for the separation of plutonium from aqueous solutions. 2,785,951, 3-19-57, Cl. 23-145.
- Thompson, Stanley G., and G. T. Seaborg, to the United States of America as represented by the United States Atomic Energy Commission. Phosphate method for separation of radio-active elements. 2,799,553, 7-16-57, Cl. 23-14.5.
- Thompson, Thalmor J. Bandage and dressing. 2,817,335, 12-24-57, Cl. 128-156.
- Thompson, Theodore F. 50% to H. W. Hartupée. Fluid coupling. 2,785,533, 3-19-57, Cl. 60-54.
- Thompson, Thomas J., to Bendix Aviation Corp. Tail pipe or afterburning control for turbojet engines. 2,778,191, 1-22-57, Cl. 60-35.6.
- Thompson, Tom H., to Sabre Research Corp. Fuel pump and fuel injector combination. 2,809,868, 10-15-57, Cl. 299-107.2.
- Thompson, Vaughan. Arc cutter for diamond drilling. 2,805,840, 9-10-57, Cl. 255-1.6.
- Thompson, Wallace W., to E. I. du Pont de Nemours and Co. Process for preparing cyclohexylsulfamic acid. 2,800,501, 7-23-57, Cl. 260-500.
- Thompson, Wallace W., to E. I. du Pont de Nemours and Co. Preparation of salts of N-substituted sulfamic acids. 2,805,124, 9-3-57, Cl. 23-114.
- Thompson, Walter E., Jr.: *See*—
Houk, Charles D., and Thompson. 2,795,242.
- Thompson, Walter N., to Improved Machinery Inc. Chipping knife construction. 2,813,557, 11-19-57, Cl. 144-172.
- Thompson, Walter V. E. Half-circle sprinkler head. 2,785,005, 3-12-57, Cl. 299-18.
- Thompson, Wendell L.: *See*—
Cooley, Hal. 2,804,518.
- Thompson, William A., and E. A. Thompson. Crab cleaning machine. 2,784,447, 3-12-57, Cl. 17-2.
- Thompson, William E., to The Sun Oil Co. Treatment of partially oxidized hydrocarbons. 2,789,123, 4-16-57, Cl. 260-452.
- Thompson, William F., and J. W. Chesworth. Toy vehicle and platform instruction apparatus. 2,797,922, 7-2-57, Cl. 273-1.
- Thompson, William F., Jr., to Westinghouse Electric Corp. Turbine apparatus. 2,787,440, 4-2-57, Cl. 253-39.1.
- Thompson, William J.: *See*—
Abbott, William B., Rossetto, and Thompson. 2,806,585.
Abbott, William B., and Thompson. 2,806,587.
Rossetto, Louis, Abbott, and Thompson. 2,806,586.
- Thompson, William M., to Thompson Mfg. Co., Inc. Combination can opener and can handle. 2,775,815, 1-1-57, Cl. 30-123.
- Thompson, William M., M. D. Grossnickle, and R. J. Seidel, to Armour and Co. Preparation of hyaluronidase. 2,808,362, 10-1-57, Cl. 195-66.
- Thomsen, Alfred M. Method of brass smelting. 2,776,881, 1-8-57, Cl. 75-11.
- Thomsen, Alfred M. Processing complex silicates. 2,785,950, 3-19-57, Cl. 23-1.
- Thomsen, Alfred M. Method of completely resolving lignified cellulose. 2,801,264, 7-30-57, Cl. 260-527.
- Thomsen, John G. Spear pistol. 2,779,323, 1-29-57, Cl. 124-27.
- Thomsen, Theodore R., to Robotron Corp. Method and apparatus for forming a spring of predetermined length from coil spring stock. 2,779,407, 1-29-57, Cl. 164-17.
- Thomsen, William A. V., to Specialties Development Corp. Mechanical motion transmitting device. 2,791,123, 5-7-57, Cl. 74-110.
- Thomson, Byron C. Foliage stripping finger for cane harvesters. 2,782,581, 2-26-57, Cl. 56-17.
- Thomson, Ely K. Conveyor system. 2,793,736, 5-28-57, Cl. 198-127.
- Thomson, Fannie F.: *See*—
Sacker, Stanley H. 2,806,121.
- Thomson, George, and C. A. Harris, to Fabric Research Laboratories, Inc. Method of treating abaca cordage fiber with the hydrolysis product of methacrylate chromic chloride and product produced thereby. 2,786,733, 3-26-57, Cl. 8-116.
- Thomson, Gordon G., and D. P. Latessa. Flexible abrasive wheel. 2,808,689, 10-8-57, Cl. 51-193.5.
- Thomson, James, to Mavor & Coulson Ltd. Endless belt conveyors. 2,796,167, 6-18-57, Cl. 198-203.
- Thomson, John I. Sanitary, non-drip pouring attachment for cans and jars. 2,810,498, 10-22-57, Cl. 222-472.
- Thomson, John W., Jr., to Owens-Illinois Glass Co. Vertical conveying apparatus. 2,784,832, 3-12-57, Cl. 198-165.
- Thomson, Louis C., Jr., to Hughes Aircraft Co. Semiconductor envelope sealing device and method. 2,815,608, 12-10-57, Cl. 49-1.
- Thomson, Robert F., and F. J. Webbere, to General Motors Corp. Method of making a composite metal article. 2,809,407, 10-15-57, Cl. 22-203.
- Thomson, Thomas A.: *See*—
Kuttner, Warner L., Collins, Thomson, and Smith. 2,786,720.
- Thonet Industries, Inc.: *See*—
Weill, Bruno R. 2,783,828.
- Thor Power Tool Co.: *See*—
Fuehrer, George H. 2,777,424.
Hunn, Wilbur B. 2,778,605.
Kaman, Frank A. 2,801,718.
Mitchell, Walter G. 2,807,972.
- Thorburn, Milton R.: *See*—
Leverett, Hollis M., Travis, and Thorburn. 2,795,993.
- Thorburn, Milton R., to American Optical Co. Driving mechanisms. 2,789,441, 4-23-57, Cl. 74-436.
- Thordson, Clifford: *See*—
Leverett, Charles V., and Thordson. 2,785,929.
- Thoren, Bengt I., to Sandvikens Jernverks Aktiebolag. Rolling mill construction. 2,816,467, 12-17-57, Cl. 80-51.
- Thoren, Theodore R., and R. L. Gates, to Thompson Products, Inc. Pump. 2,789,175, 2-5-57, Cl. 103-97.
- Thoresen, Einar: *See*—
Batchelder, George E., Thoresen, and Niesemann. 2,818,198.
- Thoresen, Einar, to Rockwell Mfg. Co. Reversible meter adjustment. 2,810,298, 10-22-57, Cl. 74-394.
- Thorildsson, Karl-John T.: *See*—
Küller, Nils-Erik G., and Thorildsson. 2,788,712.
- Thorington, Luke, and R. E. Peterson, to Westinghouse Electric Corp. Color-corrected light source and phosphor mixture therefor. 2,806,968, 9-17-57, Cl. 313-25.
- Thoria, Loren F., Jr. Spring-applied disk parking brake. 2,777,539, 1-15-57, Cl. 188-71.
- Thorman, Richard L.: *See*—
Herndon, Walter B., and Thorman. 2,805,628.
- Thorn Electrical Industries Ltd.: *See*—
Ranby, Peter W. 2,785,137.
- Thorn, Floyd B., Jr., and E. P. Doremus, Jr., to Cathodic Protection Service. Anode assembly for cathodic protection. 2,805,987, 9-10-57, Cl. 204-197.
- Thornberry, John H., and R. B. Matthews, to Baso Inc. Electromagnetic control device. 2,800,614, 7-23-57, Cl. 317-197.
- Thornburg, Harrison W. Cut off calculators and markers. 2,818,093, 12-31-57, Cl. 143-168.
- Thornburg, Robert W., to Rosco Mfg. Co. Spraybar device. 2,781,229, 2-12-57, Cl. 299-34.
- Thorndike, Gordon H.: *See*—
Gibson, Robert, Thorndike, and Liversidge. 2,795,012.
- Thorne, Earl D.: *See*—
Carter, Philips S., and Thorne. 2,809,371.
- Thorne, Earl K. Soft boiled egg cutter. 2,795,252, 6-11-57, Cl. 146-2.
- Thorne, Maurice A., to General Motors Corp. Endless track structures for vehicles. 2,786,725, 3-26-57, Cl. 305-10.
- Thornier, Robert H. Speed controlled engine or the like. 2,808,042, 10-1-57, Cl. 123-108.
- Thornes, Leslie S., R. Turner, and J. W. Hyde, to The British Petroleum Co. Ltd. Treatment of oil contaminated clay. 2,781,322, 2-12-57, Cl. 252-417.
- Thornhill, Jay W., and E. D. Jackson, to Texas Instruments Inc. Rectifier structure. 2,780,757, 2-5-57, Cl. 317-234.
- Thornhill, Philip G., to Falconbridge Nickel Mines Ltd. Method of roasting metal sulfide concentrates in a fluidized bed. 2,813,015, 11-12-57, Cl. 75-9.
- Thornhill, Philip G., to Falconbridge Nickel Mines Ltd. Method of roasting nickeliferous sulfide concentrates in a fluidized bed. 2,813,016, 11-12-57, Cl. 75-9.
- Thornley, George H., to C. C. Wakefield & Co. Ltd. Lubricating compositions. 2,796,400, 6-18-57, Cl. 252-33.4.
- Thornton-Carlson: *See*—
Carlson, Carl B. 2,785,650.
- Thornton, Elbert H. E. Closure for containers. 2,776,066, 1-1-57, Cl. 215-44.
- Thornton, John D., to the United States of America as represented by the United States Atomic Energy Commission. Liquid-liquid extraction columns. 2,818,324, 12-31-57, Cl. 23-270.5.
- Thornton, John P.: *See*—
Dawson, Bertrum L. 2,792,652.
- Thornton, Ray F., $\frac{1}{2}$ to I. Grant, $\frac{1}{4}$ to B. L. Diamond, and $\frac{1}{2}$ to J. M. R. Lyeth, Jr. Differential transmission. 2,778,245, 1-22-57, Cl. 74-711.
- Thornton, Ray F., $\frac{1}{2}$ to I. Grant, $\frac{1}{4}$ to B. L. Diamond, and $\frac{1}{2}$ to J. M. R. Lyeth, Jr. Differential transmission. 2,778,246, 1-22-57, Cl. 74-711.

- Thornton-Trump, Walter E., to Pitman Mfg. Co. Machine with elevatable and traveling carriage. 2,815,250, 12-3-57, Cl. 304-29.
- Thornwald, Everett D., to Clements Mfg. Co. Vacuum cleaner construction and closure therefor. 2,797,430, 7-2-57, Cl. 15-332.
- Thornycroft, Christopher H.: See—
Mansfield, Wilfred P., Thornycroft, and Priede. 2,804,825.
- Thornycroft, John L., & Co. Ltd.: See—
Adams, Geoffrey T. 2,806,520.
- Thorp, Arthur G., II, to Westinghouse Electric Corp. Bladed rotor construction. 2,801,071, 7-30-57, Cl. 253-39.
- Thorp, Arthur G., II, to Westinghouse Electric Corp. Diffuser. 2,815,770, 12-10-57, Cl. 138-37.
- Thorp, Jeffrey M., and B. R. Wilson, to Imperial Chemical Industries Ltd. N-(p-carboxyphenyl sulphonyl) hexamethylenimine. 2,790,797, 4-30-57, Cl. 260-239.
- Thorpe, Charles L., to the United States of America as represented by the Secretary of the Army. Telescopic mast. 2,800,206, 7-23-57, Cl. 189-26.
- Thorpe, Roy L.: See—
Moore, Robert J., Jones, and Thorpe. 2,816,867.
Moore, Robert J., Jones, and Thorpe. 2,816,868.
- Thorson, Albert K., Jr., to Sylvania Electric Products Inc. Article transferring and positioning mechanism. 2,784,830, 3-12-57, Cl. 198-20.
- Thorsson, Matthew T.: See—
Lauler, Louis J., and Thorsson. 2,780,800.
- Thorstensson-Rydberg, Carl A. S., to J. R. Andersson & Co. Aktiebolag. Fat processing methods. 2,803,529, 8-20-57, Cl. 39-89.
- Thouret, Wolfgang E., to Westinghouse Electric Corp. Electric high pressure discharge lamps. 2,784,347, 3-5-57, Cl. 315-47.
- Thrall, Lewis L., and J. A. Beek, Jr., to Alwac International. Computing device. 2,816,705, 12-17-57, Cl. 235-61.
- Threads-Inc.: See—
Cone, Richard R. 2,815,178.
- Thridge, Thomas B.: See—
Krabbe, Ulrik H., and Sørensen. 2,777,978.
- Thring, Meredith W.: See—
Savage, John, Thring, and Pritchard. 2,814,843.
- Throatless Press Co.: See—
Van Dusen, Charles A., Wittenmyer, and Richter. 2,799,187.
- Throckmorton, John W., and J. S. Wallis, to Petro-Chem Process Co., Inc. Multi-coil heat control furnace. 2,791,987, 5-14-57, Cl. 122-356.
- Throckmorton, John W., and J. S. Wallis, to Petro-Chem Process Co., Inc. Boilers. 2,796,051, 6-18-57, Cl. 122-322.
- Throckmorton, John W., and J. S. Wallis, to Petro-Chem Process Co., Inc. Boiler construction. 2,796,052, 6-18-57, Cl. 122-356.
- Thrower, Ronald D., and F. J. Pinchin, to The British Oxygen Co. Ltd. Preparation of guanamines. 2,792,395, 5-14-57, Cl. 260-249.9.
- Thuermer, Eberhard, K. Siebertz, H. Henker, and D. Enderlein, to Siemens & Halske Aktiengesellschaft. Transistor arrangement. 2,817,048, 12-17-57, Cl. 317-234.
- Thullier, Jean, to Societe de Personnes a responsabilite limitee: and Laboratoires Belges Pharmacobel, Societe Anonyme. Compounds of bis quaternary ammonium derivatives of phenylethylamine. 2,785,201, 3-12-57, Cl. 260-567.6.
- Thuler, Oskar W.: See—
Engstrom, Ralph W., Craig, and Thuler. 2,818,520.
- Thulin, Charles W., to Bell Telephone Laboratories, Inc. Pulse generators with pulse shaping. 2,808,511, 10-1-57, Cl. 250-36.
- Thum, Adolf. Apparatus for illuminating the cavity of the mouth. 2,800,896, 7-30-57, Cl. 128-13.
- Thumin, Carl, to I-T-E Circuit Breaker Co. Solenoid control relay for circuit breakers. 2,792,534, 5-14-57, Cl. 317-136.
- Thumm, Byron A., M. R. Lytton, and J. A. Howsmon, to American Viscose Corp. Viscose composition and method of spinning. 2,792,280, 5-14-57, Cl. 18-54.
- Thumm, Wilhelm, G. Roesner, and F. Volk, to Metallgesellschaft, A. G. Process for the production of sulfur from hydrogen sulfide and sulfur dioxide or oxygen containing gases. 2,785,056, 3-12-57, Cl. 23-225.
- Thunaes, Arvid, E. A. Brown, and A. T. Rabbitts, to the United States of America as represented by the United States Atomic Energy Commission. Alkaline carbonate leaching process for uranium extraction. 2,813,003, 11-12-57, Cl. 23-14.5.
- Thunaes, Arvid, E. A. Brown, H. W. Smith, and R. Simard, to the United States of America as represented by the United States Atomic Energy Commission. Uranium precipitation process. 2,815,261, 12-3-57, Cl. 23-14.5.
- Thunander, Hans T., to Westinghouse Electric Corp. Temperature responsive device. 2,806,122, 9-10-57, Cl. 219-37.
- Thürauf, Walter: See—
Grosskinsky, Otto, and Thürauf. 2,785,198.
- Thurber, Adolph E., Jr. Valves for controlling the operation of hydraulic elevators. 2,784,738, 3-12-57, Cl. 137-599.
- Thurber, Francis H.: See—
Dechary, Joseph M., Kupperman, and Thurber. 2,787,625.
King, William H., and Thurber. 2,784,205.
- Thurell, John R., Jr., to General Electric Co. Current rectifier assembly. 2,807,761, 9-24-57, Cl. 317-234.
- Thuresson af Ekenstam, Bo, and B. P. H. Egnér, to Aktiebolaget Bofors. Anilides of heterocyclic compounds. 2,792,399, 5-14-57, Cl. 260-294.
- Thuresson af Ekenstam, Bo., and B. P. H. Egnér, to Aktiebolaget Bofors. Process of preparing amides of heterocyclic carboxylic acids. 2,799,679, 7-16-57, Cl. 260-294.
- Thürings, Hermann. Dissolving machine for use in connection with candy making. 2,796,365, 6-18-57, Cl. 127-22.
- Thurman, Amos L. Conveyor for bottle case unloader. 2,783,869, 3-5-57, Cl. 198-179.
- Thurman, Benjamin H., to Clayton Mfg. Co. Electrolytic and ion exchange treatment of water. 2,793,183, 5-21-57, Cl. 204-151.
- Thurston, Charles E., to Philco Corp. Cabinet equipment. 2,786,730, 3-26-57, Cl. 312-315.
- Thurston, Della V. Skein holder for yarn. 2,778,583, 1-22-57, Cl. 242-114.
- Thurston, Edward G.: See—
Baerwald, Hans G., and Thurston. 2,800,647.
- Thurston, Ernest B., to Haughton Elevator Co. Car call cancellation means. 2,779,438, 1-29-57, Cl. 187-29.
- Thurston, William H., to Shell Development Co. Microwave bridge. 2,798,197, 7-2-57, Cl. 324-58.5.
- Thyer, Edward G. S.: See—
Knibbs, Norman V. S., and Thyer. 2,812,592.
- Thygeson, John R., to Proctor & Schwartz, Inc. Blowers. 2,801,042, 7-30-57, Cl. 230-114.
- Thylefors, Henric W., to Aktiebolaget Separator. Conical disc for centrifuges and the like. 2,787,413, 4-2-57, Cl. 233-41.
- Thys, William H.: See—
Kirby, John F., and Thys. 2,787,956.
- Tiano, Dominic W., and A. F. Whitehead, to Pneumatic Scale Corp., Ltd. Vacuum filling machine. 2,808,856, 8-10-57, Cl. 141-7.
- Tiarco Corp.: See—
Topelain, Paul J. 2,784,151.
- Tibbetts Laboratories, Inc.: See—
Tibbetts, Raymond W. 2,810,082.
- Tibbetts, Raymond W., to Tibbetts Laboratories, Inc. Transducer damping. 2,810,082, 10-15-57, Cl. 210-8.2.
- Tibbetts, Warren L.: See—
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- Tibbits, Charles B., to Taylor Instrument Companies. Adjustable thermometer controller. 2,796,493, 6-18-57, Cl. 200-141.
- Tibbling, Stig B., to International Business Machines Corp. Rotating drum typewriting machine. 2,812,048, 11-5-57, Cl. 197-17.
- Tiberghien, Etienne, to Société Métrostatie S. A. Extension ladder with hook type fastening. 2,797,038, 6-25-57, Cl. 228-66.
- Tice, John D. Bobbin small-end holder for loom filling feeders. 2,792,849, 5-21-57, Cl. 139-248.
- Tice, William F.: See—
Bullen, Clark V., and Tice. 2,803,813.
- Tidball, Robert A.: See—
Mangold, Francis L., and Tidball. 2,811,221.
- Tidd, Edwin B., to Bell & Gossett Co. Boiler outlet fitting. 2,808,994, 10-8-57, Cl. 237-56.
- Tidd, Elbert D., to John B. Pierce Foundation. Lamp-holder with integral duplex receptacle. 2,783,444, 2-26-57, Cl. 339-159.
- Tide Water Associated Oil Co.: See—
Messina, Nicholas V. 2,783,206.
- Tidewater Oil Co.: See—
Bishop, John W. 2,806,846.
McBride, Joseph J., Jr. 2,779,738.
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Messina, Nicholas V. 2,779,740.
Rampino, Louis D. 2,798,842.
Spivack, John D. 2,779,739.
Stroud, Robert A. 2,785,123.
- Tidwell, Calvin M., to Food Machinery and Chemical Corp. Method of preparing an anhydrous high bulk calcium sulfate. 2,813,778, 11-19-57, Cl. 23-122.
- Tidwell, Paul W., ½ to Monsanto Chemical Co., and ½ to Heyden Chemical Corp. Methanol purification. 2,792,344, 5-14-57, Cl. 210-38.
- Tiebe, Erwin H. Toy dancing doll. 2,813,371, 11-19-57, Cl. 46-137.
- Tiedemann, Julius B., to A. O. Smith Corp. Internal alignment clamp for girth welding. 2,804,836, 9-3-57, Cl. 113-103.
- Tiedje, John L.: See—
Sproule, Lorne W., and Tiedje. 2,791,510.
- Tiefel, Simon J. Gage-line holder. 2,806,290, 9-17-57, Cl. 33-85.
- Tieman, Rahe J., to International Harvester Co. Valve tap-tem and cam lobe checking device. 2,782,518, 2-26-57, Cl. 33-181.
- Tien, Ping K., and L. M. Field, to The Board of Trustees of The Leland Stanford Junior University. Space charge wave amplifiers. 2,800,606, 7-23-57, Cl. 315-3.6.

- Tierman, Melvin, and S. O. Dorst, to Sprague Electric Co. Encased electric circuit component. 2,802,896, 8-13-57, Cl. 174—50.62.
- Tierney, John W.: *See*—
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- Tierney, John W., to The Pure Oil Co. Process for selective removal of H_2S by absorption in methanol. 2,813,126, 11-12-57, Cl. 260—609.
- Tierney, John W., and R. E. Taylor, to The Pure Oil Co. Process for maintaining high oxidation stability in refining of lubricating oils. 2,793,982, 5-28-57, Cl. 196—24.
- Tierney, Joseph E.: *See*—
Percival, Isabel C., and Tierney. 2,794,278.
- Tietig, Chester: *See*—
Clemens, John E., and Johnstone. 2,804,403.
- Tietze, Matthew W.: *See*—
Jacobs, Henry S., and Tietze. 2,776,386.
- Tiffany, Burris D., to The Upjohn Co. Ethyl 1-methyl-4-phenylisonipicotate n-oxides. 2,785,168, 3-12-57, Cl. 260—294.3.
- Tiffany, Burris D., to The Upjohn Co. 3-hydroxy-N-methyl-morphinan-N-oxide. 2,813,097, 11-12-57, Cl. 260—285.
- Tiffany, Burris D., to The Upjohn Co. 3-methoxy-N-methyl-morphinan-N-oxide. 2,813,098, 11-12-57, Cl. 260—285.
- Tiger, Emil, to Sound Inc. Continuous magnetic tape and cartridge. 2,781,019, 2-12-57, Cl. 116—124.
- Tigerman, Louis, to Pfister & Vogel Tanning Co. Multiple sliding doors and frame for tanning drums and the like. 2,785,562, 3-19-57, Cl. 69—30.
- Tigrett, John B. Collapsible play pen and the like. 2,790,978, 5-7-57, Cl. 5—98.
- Tilden, Clark D. Golf teaching and practicing device. 2,788,214, 4-9-57, Cl. 273—191.
- Tilden, Sydney G., to The Permafuse Corp. Ovens for bonding brake lining friction materials to brake shoes. 2,788,958, 4-16-57, Cl. 263—8.
- Tilden, William F. Abrasive applicator. 2,814,877, 12-3-57, Cl. 32—58.
- Tile Council of America, Inc.: *See*—
Robinson, Donald R. 2,781,554.
- Till, Derek E., and C. R. Smallman, to American Viscose Corp. Reticulated webs and method and apparatus for their production. 2,810,426, 10-22-57, Cl. 154—27.
- Tiller, Louin, to Forsee Corp. Caliper for measuring rotating padded ironer rolls. 2,799,945, 7-23-57, Cl. 33—178.
- Tillett, George and M., to Deep Dye Industries, Inc. Printing and dyeing of pile carpeting. 2,816,811, 12-17-57, Cl. 8—148.
- Tillett, John Jr., to Pneumafil Corp. Devices for detecting broken ends or strands on textile machinery. 2,812,632, 11-12-57, Cl. 57—34.5.
- Tillett, Mary: *See*—
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- Tilley, Aubra E., to California Research Corp. Method and apparatus for timing seismic recordings. 2,803,809, 8-20-57, Cl. 390—15.
- Tilley, William K. Inter-changeable picture means. 2,799,105, 7-16-57, Cl. 40—62.
- Tillinghast, Ray C., to National Cotton Compress and Cotton Warehouse Association. Method and apparatus for handling and processing cotton bales and the like. 2,812,708, 11-12-57, Cl. 100—219.
- Tillman, Arthur B., to Diamond Alkali Co. Purification of concentrated alkali metal hydroxide by ion exchange. 2,789,036, 4-16-57, Cl. 23—184.
- Tillman, Paul C., to Paul C. Tillman Laboratories, Inc. Groove gauge. 2,814,882, 12-3-57, Cl. 33—143.
- Tillman, Paul C., Laboratories, Inc.: *See*—
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- Tillotson, Le Roy C., to Bell Telephone Laboratories, Inc. Microwave filters. 2,795,763, 6-11-57, Cl. 333—73.
- Tillotson Mfg. Co. The: *See*—
Phillips, Bernard C. 2,796,838.
- Tilly, James O. Container closure structure. 2,778,562, 1-22-57, Cl. 229—51.
- Tilman, Ted N.: *See*—
Jennings, Jo E., and Tilman. 2,794,087.
- Tilney, Ralph B., to Alco Valve Co. Refrigerant distributor. 2,803,116, 8-20-57, Cl. 62—126.
- Tilson, Claude D., to Bain Corp. Apparatus for cutting the inner sole of a shoe. 2,788,535, 4-16-57, Cl. 12—17.
- Tilson, Katie E.: *See*—
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- Tilson, Theodore E. and K. E. Safety rail for bathtub. 2,815,513, 12-10-57, Cl. 4—185.
- Tilt-A-Door Corp.: *See*—
Smith, Wesley A. 2,790,213.
- Tilton, Russell G., to Multiscope, Inc. Hand rail construction for moving stairs. 2,780,338, 2-5-57, Cl. 198—16.
- Tilton, Warren D., Jr., and C. M. Hathaway, to Hamilton Watch Co. Recording device. 2,798,787, 7-9-57, Cl. 346—139.
- Timber Engineering Co.: *See*—
Farber, Eduard, and Sciascia. 2,813,846.
- Timber Structures, Inc.: *See*—
Payzant, Henry H. 2,796,897.
Woodworth, Charles H. 2,776,457.
Woodworth, Charles H. 2,796,642.
- Time, Inc.: *See*—
Brink, Robert M. 2,818,465.
Faerber, Harry W. 2,815,949.
Faerber, Harry W., and Williams. 2,810,468.
Lotz, Robert W. 2,803,178.
Mork, Raymond P. 2,778,232.
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- Times Facsimile Corp.: *See*—
Cooley, Austin G. 2,796,316.
Cooley, Austin G. 2,814,547.
- Timken Roller Bearing Co. The: *See*—
Boden, Ernest G. 2,808,740.
Boden, Ernest G., and Hofer. 2,817,142.
Eastburg, Clifford L. 2,781,942.
Fleischmann, Martin. 2,816,212.
Rundt, John W. 2,777,261.
- Timm, Harold A.: *See*—
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- Timmel, Frederick G.: *See*—
Malick, Franklin S., and Timmel. 2,795,652.
- Timmel, Frederick G., and F. A. Baker, to Westinghouse Electric Corp. Pulse generator. 2,802,119, 8-6-57, Cl. 307—106.
- Timmer, David J., to General Motors Corp. Refrigerating apparatus. 2,806,359, 9-17-57, Cl. 62—117.4.
- Timmerman, Jan, to North American Phillips Co. Anisotropic permanent magnetic cylindrical member. 2,803,765, 8-20-57, Cl. 310—156.
- Timmerman, Julius W., to Allis-Chalmers Mfg. Co. Control system for fluid operated mechanism. 2,778,379, 1-22-57, Cl. 137—620.
- Timmerman, Julius W., to Allis-Chalmers Mfg. Co. Circuit breaker with blast valve actuated by a pair of fluid motors. 2,815,419, 12-3-57, Cl. 200—148.
- Timmersman, David J. W.: *See*—
Norris, Lannie E., and Timmersman. 2,806,482.
Norris, Lannie E., and Timmersman. 2,808,185.
- Timms, Arthur W. J., to James Beresford & Son Ltd. Electric motors. 2,781,464, 2-12-57, Cl. 310—90.
- Timms, Jack T., to George Angus & Co. Ltd. Rotary, hydraulic pump and motor transmission. 2,812,638, 11-12-57, Cl. 60—53.
- Timms, Ross L. Coin and key controlled vending apparatus for merchandise and services. 2,800,988, 7-30-57, Cl. 194—9.
- Timms, Ross L., and A. T. Sigo; said Sigo assor. to Serv-Kraft, Inc. Remotely controlled vending apparatus. 2,811,583, 10-29-57, Cl. 179—2.
- Timpf, Henry C.: *See*—
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- Timpner, Fred F., and L. Perry, to Chrysler Corp. Free play stabilizer mounting. 2,792,215, 5-14-57, Cl. 267—11.
- Timpson, Amos J. Collapsible cart. 2,786,692, 3-26-57, Cl. 280—36.
- Tinetti, Clarence J. Signal device. 2,804,942, 9-3-57, Cl. 185—38.
- Tingley, Bruce H., and J. E. May, to Sperry Rand Corp. Differential actuator for prevention of misprinting in high speed mechanical calculators. 2,792,986, 5-21-57, Cl. 235—60.
- Tinich, Robert A., to General Motors Corp. Illuminated dial instrument. 2,782,294, 2-19-57, Cl. 240—2.1.
- Tinius Olsen Testing Machine Co.: *See*—
Gruber, Warren M. 2,817,971.
Stovall, John R., Jr., Lawrie, and Craig. 2,779,217.
Stovall, John R., Jr., and Weintraub. 2,783,648.
Strimel, Robert S. 2,784,048.
Strimel, Robert S. 2,812,229.
Strimel, Robert S. 2,814,883.
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- Tinker, Earl E.: *See*—
Mueller, Frank H., and Tinker. 2,776,798.
- Tinker, Earl E., to A. W. Cash Co. Strainer. 2,792,120, 5-14-57, Cl. 210—308.
- Tinker, Earl E., to A. W. Cash Co. Strainer. 2,798,613, 7-9-57, Cl. 210—446.
- Tinker, Harold B. Free valve. 2,804,062, 8-27-57, Cl. 123—90.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. Spray nozzle. 2,793,081, 5-21-57, Cl. 299—140.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. Method of operation and control system for cupola and associated apparatus. 2,796,341, 6-18-57, Cl. 75—43.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. High pressure closure. 2,816,679, 12-17-57, Cl. 220—20.
- Tinker, Wayne E.: *See*—
Whitney, Charles A., and Tinker. 2,814,121.
- Tinnerman Products, Inc.: *See*—
Flora, Laurence H. 2,779,377.
Flora, Laurence H. 2,798,271.
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Flora, Laurence H. 2,803,866.
Strange, John. 2,779,280.
Van Niel, Clarence R., and Sasena. 2,804,116.
- Tinsley, Samuel W., to Union Carbide and Carbon Corp. Process for the hydrogenation of meta-nitroacetophenone. 2,797,244, 6-25-57, Cl. 260—580.
- Tinsley, William C. Toy control panel. 2,800,329, 7-23-57, Cl. 273—1.

- Tintes, Hubert A. Self-leveling motor mount for portable grain elevators and the like. 2,811,239, 10-29-57, Cl. 198—120.5.
- Tintner, Paul. Retractable multi-color writing instrument. 2,781,741, 2-19-57, Cl. 120—42.13.
- Tinus, William C., to Bell Telephone Laboratories, Inc. Indicating system. 2,790,170, 4-23-57, Cl. 343—13.
- Tipdex (Holdings) Ltd.: *See—*
- Elsden-King, Herbert E., and Gittins. 2,779,653.
- Elsden-King, Herbert E., and Gittins. 2,785,036.
- Tippel, Mary A. Pie crust protector. 2,784,664, 3-12-57, Cl. 99—453.
- Tippet, Philip V., to Farrel-Birmingham Co., Inc. Conveyor mechanism for sugar mills. 2,783,870, 3-5-57, Cl. 198—202.
- Tipton, Grover C.: *See—*
- Heise, Samuel M., and Tipton. 2,782,759.
- Tipton, Ray E. Coupling for irrigation pipe. 2,778,660, 1-22-57, Cl. 285—6.
- Tip-Top Products Co.: *See—*
- Gresham, Claude D., and Hoffmann. 2,778,367.
- Tiranti, Flaminio. Camera. 2,812,698, 11-12-57, Cl. 95—11.
- Tire Deflation Indicators, Inc.: *See—*
- Sutphen, Robert M., and Johnston. 2,792,920.
- Tirico, Arthur L. Expanded yoke for deflecting convergent beams. 2,785,329, 3-12-57, Cl. 313—69.
- Tirioni, Emilio. Internal combustion engines. 2,811,149, 10-29-57, Cl. 123—65.
- Tiroler Rohren- und Metallwerke Aktiengesellschaft: *See—*
- Schreiber, Norbert. 2,805,147.
- Tirrill, Allen H. and E. M. Automatic trap nest. 2,811,944, 11-5-57, Cl. 119—47.
- Tirrill, Esther M.: *See—*
- Tirrill, Allen H. and E. M. 2,811,944.
- Tirsky, Sherwin: *See—*
- Powell, Robert W., and Tirsky. 2,782,890.
- Tischbirek, Gunther: *See—*
- Blaser, Bruno, and Tischbirek. 2,785,193.
- Tiscione, Anthony: *See—*
- Zador, Gustave. 2,786,131.
- Tisdale, Norman F., and N. F. Tisdale, Jr., to Molybdenum Corp. of America. Method of producing iron and steel and composition therefor. 2,799,575, 7-16-57, Cl. 75—27.
- Tisdale, Norman, Jr.: *See—*
- Tisdale, Norman F., and N. F. Tisdale, Jr. 2,799,575.
- Tishler, Max: *See—*
- Sletzing, Meyer, and Tishler. 2,786,056.
- Sletzing, Meyer, and Tishler. 2,791,586.
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- Tisinai, George F., H. A. Birkness, and J. R. Krebs, to Standard Oil Co. Controlled atmosphere furnace muffle. 2,816,751, 12-17-57, Cl. 266—4.
- Tislow, Richard, and W. F. Bruce, to American Home Products Corp. Chloralhemiacetal derivatives of sugars and methods for their preparation. 2,784,180, 3-5-57, Cl. 260—209.
- Tissot, Ch. & fils S. A.: *See—*
- Cachelin, Gérard. 2,789,413.
- Titanium Corp.: *See—*
- Wainer, Eugene. 2,812,236.
- Wainer, Eugene. 2,812,237.
- Titanium Metals Corp. of America: *See—*
- Kessler, Harold D., and Sherman. 2,804,409.
- McMackin, Edward G., McMillan, Miles, and Mooz. 2,804,386.
- Titcomb, Albert S. Clamp to secure an abrasive segment on a rotary chuck. 2,795,903, 6-18-57, Cl. 51—209.
- Tittman, Jay: *See—*
- Frey, Hugh B., Jr., and Tittman. 2,778,950.
- Tittman, Jay, to Schlumberger Well Surveying Corp. Neutron logging method and apparatus. 2,778,951, 1-22-57, Cl. 250—83.6.
- Tittsworth, Charles V. Crib-bed unit. 2,783,477, 3-5-57, Cl. 5—2.
- Titus, Charles H.: *See—*
- Catalano, Victor J., and Titus. 2,795,676.
- Tjepkema, Jacobus J.: *See—*
- Kreps, Robert W. F., Tjepkema, and Kooijman. 2,796,429.
- Tjepkema, Jacobus J., to Shell Development Co. Removal of formic acid catalyst from hydroxylation products of ethylenic alcohols. 2,813,910, 11-19-57, Cl. 260—635.
- Tjoa, Sie L. Process of preparing extracts from seaweeds of the eucheuma family. 2,811,451, 10-29-57, Cl. 99—131.
- Toay, Bennett H.: *See—*
- Mutchler, Norman D. 2,793,460.
- Tobeler, Paul O.: *See—*
- Kippe, Otto. 2,801,155.
- Sedlmayr, Lorenz. 2,815,935.
- Toberman, Earl M. Hunter's cap. 2,796,613, 6-25-57, Cl. 2—172.
- Tobey, Alton E. Tire abrading apparatus. 2,786,526, 3-26-57, Cl. 164—10.2.
- Tobey, Alton E. Tire abrading device. 2,813,828, 11-19-57, Cl. 29—78.
- Tobey, Alton E. Resurfacing wheel. 2,813,329, 11-19-57, Cl. 29—78.
- Tobey, Frederic S., and W. H. Muttera, Jr., to W. H. Brady Co. Adhesively attached marking indicia. 2,818,163, 12-31-57, Cl. 206—56.
- Tobey, Julien L., to Uno Ventilator Co. Roof ventilator. 2,812,703, 11-12-57, Cl. 98—116.
- Tobey, Raymond E.: *See—*
- Herndon, William B., Jr., and Tobey. 2,795,117.
- Tobias, Cornelius A., to the United States of America as represented by the United States Atomic Energy Commission. Method and apparatus for nuclear particle acceleration. 2,789,221, 4-16-57, Cl. 250—27.
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- Tobias, Herrmann B. Dual fastener. 2,783,515, 3-5-57, Cl. 24—81.
- Tobiasz, Albin T., to Leitner Equipment Co. Cabinet. 2,786,240, 3-26-57, Cl. 20—19.
- Tobin-Arp Mfg. Co.: *See—*
- Arp, Ewald A. 2,795,904.
- Arp, Ewald A. 2,805,865.
- Tobin, Edward M.: *See—*
- Brenden, Kermit E., and Tobin. 2,788,182.
- Tobin, Frank J. Fiber glass display article and method of making same. 2,782,544, 2-26-57, Cl. 41—21.
- Tobin, Kenneth J.: *See—*
- Cleave, Walter C. 2,783,865.
- Tobler, August, K.-P. Cassart, and L. Schmit. Process for making cores and molds, articles made thereby and binding oil therefor. 2,817,886, 12-31-57, Cl. 22—193.
- Tobler, Hans: *See—*
- Pudelko, Richard, and Tobler. 2,781,975.
- Toby, Max E., to Package Enterprises, Inc. Method for placing paper sheets between slices in a stack. 2,813,798, 11-19-57, Cl. 99—171.
- Toby, Max E., to Package Enterprises, Inc. Apparatus for receiving, conveying and weighing articles. 2,815,139, 12-3-57, Cl. 214—151.
- Tocchetto, Virgil D. Adjustable sun visors for motor vehicles. 2,796,289, 6-18-57, Cl. 296—95.
- Tocci-Guilbert, B., and H. L. Blum, to B. Tocci-Guilbert and H. G. Hardy, trustees. Back pad. 2,789,402, 4-23-57, Cl. 51—197.
- Toce, Charles A.: *See—*
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- Toce, Charles A., and R. Broussard, to Electro-Acid Corp. Electric storage battery. 2,801,276, 7-30-57, Cl. 136—166.
- Tochikura, Tatsurokuro: *See—*
- Katagiri, Hideo, Imai, and Tochikura. 2,786,799.
- Todd, A. M., Co.: *See—*
- Reitsem, Robert H. 2,802,874.
- Todd, Alexander R.: *See—*
- Davies, Robert R., and Todd. 2,794,797.
- Todd, Arthur L. Hood construction for orchard heaters and the like. 2,809,626, 10-15-57, Cl. 126—59.5.
- Todd, C.: *See—*
- Powers, Walter P. 2,803,335.
- Powers, Walter P. 2,803,455.
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- Todd, Carl R., to Philco Corp. Apparatus for control of electron beam cross section. 2,790,920, 4-30-57, Cl. 313—84.
- Todd, Eric E. Process for the production of color bodies from fresh vegetables. 2,799,588, 7-16-57, Cl. 99—148.
- Todd, Francis C.: *See—*
- Drennan, James E., and Todd. 2,800,600.
- Wyler, Eugene N., and Todd. 2,814,753.
- Todd, George B., to Aluminum Co. of America. Extrusion. 2,798,604, 7-9-57, Cl. 207—10.
- Todd, Harry H., Jr., to General Electric Co. Automatic gauge for press brakes. 2,782,831, 2-26-57, Cl. 153—21.
- Todd, Max E.: *See—*
- Fletcher, William A., and Todd. 2,811,058.
- Todd, Richard F., to the Murray Corp. of America. Pump noise control. 2,813,543, 11-19-57, Cl. 137—513.3.
- Todd, Robert E., to Associated Pipe Line Contractors, Inc. Marsh ditcher. 2,786,284, 3-26-57, Cl. 37—81.
- Todd, William, to the United States of America as represented by the Secretary of the Army. Wave measuring system. 2,786,996, 3-26-57, Cl. 343—8.
- Todd, William, to the United States of America as represented by the Secretary of the Army. Variable frequency U. H. F. coaxial oscillator. 2,788,448, 4-9-57, Cl. 250—36.
- Todfield, Morris H., to Delamere Co., Inc. Hair device with absorbent pad. 2,793,644, 5-28-57, Cl. 132—32.
- Todisco, Pasquale: *See—*
- Rosa, James M., and Todisco. 2,777,294.
- Todt, William C., and K. W. Cummins, to Gulf Oil Corp. Safety gauging and sampling hatch. 2,788,914, 4-16-57, Cl. 220—29.
- Toebe, George: *See—*
- Morrell, Edward S. 2,778,928.
- Toedtman, John A., to Jasper Blackburn Products Corp. Wire clamp with low-resistance liner. 2,795,770, 6-11-57, Cl. 339—278.
- Toelke, Lester W.: *See—*
- McCullough, Otis J., Toelke, and McCullough. 2,810,439.
- Toellner, Howard C., to Johnson & Johnson. Head covering. 2,817,090, 12-24-57, Cl. 2—198.

- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Combined display carton and easel assembly. 2,790,543, 4-30-57, Cl. 206—45.27.
- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Can carriers. 2,790,590, 4-30-57, Cl. 229—40.
- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Display carton with folding easel. 2,799,390, 7-16-57, Cl. 206—45.27.
- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Bottom construction for folding cartons. 2,803,393, 8-20-57, Cl. 229—39.
- Toeppen, Thurston H., to International Business Machines Corp. Type element driving mechanism. 2,796,966, 6-25-57, Cl. 197—17.
- Toeppen, Thurston H., and C. S. Hsu, to International Business Machines Corp. Vibrating printing means. 2,792,779, 5-21-57, Cl. 101—93.
- Toews, Gustav P., to G. B. Fowler. Internal combustion engines. 2,788,772, 4-16-57, Cl. 123—28.
- Toffemire, Benjamin F. Combination dental instrument. 2,791,030, 5-7-57, Cl. 32—63.
- Toffemire, Benjamin F. Saliva-ejector attachment for a dental matrix band retainer. 2,811,777, 11-5-57, Cl. 32—63.
- Toffemire, Benjamin F. Combination aspirator and fluid-delivering surgical instrument. 2,812,765, 11-12-57, Cl. 128—276.
- Toffemire, Francis. Mucking machine for use in shaft sinking. 2,785,813, 3-19-57, Cl. 214—141.
- Tofft, Leonard, to United States Steel Corp. Method of removing salamander from blast-furnace hearth. 2,810,634, 10-22-57, Cl. 75—41.
- Toga, Tadashi: See—
Abe, Yasuo, Harukawa, Ishikawa, Miki, Sumi, and Toga. 2,778,838.
- Toggenburger, John, to Underwood Corp. Combined type-writer and printing computing machine. 2,818,017, 12-31-57, Cl. 101—46.
- Tognola, Tullio, to Bendix Aviation Corp. Sparking device. 2,786,158, 3-19-57, Cl. 315—46.
- Tognola, Tullio, to Bendix Aviation Corp. Magneto electric device and electrical connection and mounting therefor. 2,814,742, 11-26-57, Cl. 310—26.
- Toho Rayon Co., Ltd.: See—
Takagi, Takeo, and Ueda. 2,797,444.
- Toholsky, Frank V. Hydraulically actuated gyroscope. 2,801,543, 8-6-57, Cl. 74—57.
- Toht, Arthur E., to Sears, Roebuck and Co. Stylus arm and mounting. 2,788,215, 4-9-57, Cl. 274—23.
- Toidey Co., Inc., The: See—
Singleton, Arthur E. 2,804,121.
- Tokheim Corp.: See—
Rittenhouse, Howard E., and Hinds. 2,816,567.
Wright, George W. 2,818,026.
Wright, George W., Clymer, and Jackson. 2,812,111.
Wright, George W., Jauch, and Clymer. 2,779,503.
- Tokyo Rayon Co., Ltd.: See—
Takagi, Takeo. 2,780,511.
- Tokyo-Metropolitan Office, The Governor of: See—
Asano, Toru. 2,806,981.
- Tokyo Shibaura Electric Co., Ltd.: See—
Kuriyagawa, Mamoru, and Kumada. 2,787,627.
- Tol, Taeke: See—
Fransen, Jacobus, Teves, and Tol. 2,790,085.
Teves, Maten C., Tol, and Van der Linden. 2,779,685.
- Tolan, James E.: See—
Morgan, David E., and Tolan. 2,790,606.
- Toland, Joseph W. Load distributing trailer hitch. 2,793,878, 5-28-57, Cl. 280—406.
- Toland, William G., to California Research Corp. Preparation of chlorinated aromatic carboxylic acid esters. 2,816,134, 12-10-57, Cl. 260—475.
- Toland, William G., and I. E. Levine, to California Research Corp. Higher fatty alcohols. 2,776,323, 1-1-57, Cl. 260—635.
- Toland, William G., Jr., to California Research Corp. Process for preparing aromatic nitriles. 2,780,637, 2-5-57, Cl. 260—465.
- Toland, William G., Jr., to California Research Corp. Process for preparing nitro compounds. 2,780,656, 2-5-57, Cl. 260—645.
- Toland, William G., Jr., to California Research Corp. Process for preparing aromatic nitro compounds. 2,780,657, 2-5-57, Cl. 260—645.
- Toland, William G., Jr., to California Research Corp. Production of nitriles. 2,783,266, 2-26-57, Cl. 260—465.
- Toland, William G., Jr., to California Research Corp. Alkylation of aromatic compounds. 2,793,239, 5-21-57, Cl. 260—671.
- Toland, William G., Jr., to California Research Corp. Benzene dicarboxylic acid preparation. 2,795,599, 6-11-57, Cl. 260—465.
- Toland, William G., Jr., to California Research Corp. Organic nitrile production. 2,800,496, 7-23-57, Cl. 260—465.
- Tolbert, Charles E.: See—
Jones, Alvin J., Tolbert, and Shuman. 2,809,471.
- Toledo Dental Products Co.: See—
Dimmer, Charles L. 2,790,998.
- Toledo Plate & Window Glass Co., The: See—
Hedley, Howard H. 2,815,298.
- Toledo Scale Co.: See—
Bradley, Robert O. 2,776,103.
Bradley, Robert O. 2,797,794.
Bradley, Robert O., and Robinson. 2,782,793.
Brown, James D. 2,786,505.
Brown, James D. 2,802,235.
Brown, James D. 2,807,055.
Brown, James D. 2,807,291.
Brown, James D. 2,807,294.
Brown, James D. 2,814,318.
Fink, Walter A. 2,793,849.
Haas, Arthur W. 2,776,046.
Haas, Arthur W. 2,782,931.
Hadley, Harlan A. 2,818,245.
Robinson, Bruce E., and Bradley. 2,786,478.
Robson, Frederick W., and Wiederhold. 2,782,792.
Williams, Lawrence S. 2,786,438.
Williams, Lawrence S. 2,800,990.
Williams, Lawrence S. 2,802,659.
- Toledo Trust Co., The: See—
Eash, George H. 2,778,635.
Eash, George H. 2,778,636.
Eash, George H. 2,778,637.
Eash, George H. 2,778,880.
Rowe, Horace N., and Eash. 2,798,121.
- Tolkmath, Henry, and M. L. Zweigle, to The Dow Chemical Co. Manufacture of O-(chlorophenyl) phosphorodichloridothioates. 2,799,696, 7-16-57, Cl. 260—461.
- Tolkmath, Henry, E. C. Britton, and C. F. Holoway, to The Dow Chemical Co. O-(chlorophenyl) O-lower alkyl phosphoramidothioates. 2,802,823, 8-13-57, Cl. 260—239.
- Tolkmath, Henry, E. C. Britton, and C. F. Holoway, to The Dow Chemical Co. O-aryl phosphinothioates. 2,802,824, 8-13-57, Cl. 260—239.
- Tolkmath, Henry, and E. C. Britton, to The Dow Chemical Co. O-(halophenyl) ethylene diiminophosphinothioates. 2,805,256, 9-3-57, Cl. 260—606.5.
- Tollefsen, Reed: See—
Talbot, Thomas W. 2,778,332.
- Tollefsen, Reed. Automatic controllable "G" impact switch. 2,778,896, 1-22-57, Cl. 200—61.5.
- Tollefsen, Reed, and T. W. Talbot. Distributor rocker arm shoe lubricator. 2,784,809, 3-12-57, Cl. 184—102.
- Tollefsen, Reed, and T. W. Talbot. Distributor breaker point assembly and lubricator. 2,794,102, 5-28-57, Cl. 200—166.
- Tollefsen, Reed, and T. W. Talbot. Downspout flow diverter. 2,800,925, 7-30-57, Cl. 138—46.5.
- Tollefsen, Robert D., to Collins Radio Co. System for calibrating oscillators. 2,777,953, 1-15-57, Cl. 250—36.
- Tollenaar, Daniel, to Stichting Instituut voor Grafische Techniek T. N. O. Process of four-colour printing as well as blocks to be used therefore and the prints obtained with said blocks. 2,798,428, 7-9-57, Cl. 101—211.
- Tolles, Walter E., to the United States of America as represented by the Secretary of the Navy. Eddy-current compensation. 2,802,983, 8-13-57, Cl. 324—43.
- Tolleson, Kenneth M., to The Dow Chemical Co. High pressure valve. 2,794,615, 6-4-57, Cl. 251—61.
- Tolman, Emerson A.: See—
De Ford, Perl E. 2,781,675.
De Ford, Perl E. 2,783,660.
- Tolsdorf, Carlton: See—
Bergstrom, Carl J., and Tolsdorf. 2,788,131.
- Tom, Theodore B.: See—
Meguerian, Garbis H., and Tom. 2,795,531.
- Toma, John W.: See—
Bochan, John, and Toma. 2,807,952.
- Tomak, Milton E., and R. W. Griffiths. Self-propelled toy boat. 2,785,505, 3-19-57, Cl. 46—93.
- Toman, John C.: See—
Lillis, Stephen M., and Toman. 2,799,578.
- Tomarelli, Rudolph M., E. R. Eckhardt, and F. W. Bernhart, to American Home Products Corp. Preparation of biologically active material for promoting the growth of lactobacillus bifidus. 2,792,389, 5-14-57, Cl. 260—211.
- Tomaselli, Louis A. Umbrella folding table. 2,799,543, 7-16-57, Cl. 311—17.
- Tombs, Nigel C., to Société Anonyme dite: Societe d'Electrochimie, d'Electro Metallurgie et des Acieries Electriques d'Ugine. Preparation of powders suitable for the manufacture of permanent magnets. 2,783,207, 2-26-57, Cl. 252—62.5.
- Tomchak, Joseph A. Tire defroster, cleaner and dryer. 2,779,103, 1-29-57, Cl. 34—87.
- Tomek, Bernard R., and O. S. Mykleby. Battery carrier. 2,778,668, 1-22-57, Cl. 294—16.
- Tomer, Howard G.: See—
Koller, Frederick W., and Tomer. 2,798,113.
- Tomer, John S. Pipe cleaner with tandem scraping heads. 2,782,436, 2-26-57, Cl. 15—104.04.
- Tomka, Joseph W., to American Steel Foundries. Centering press. 2,808,885, 10-8-57, Cl. 164—95.
- Tomka, Louis A.: See—
Ramsden, Hugh E., Weinberg, and Tomka. 2,789,104.
Ramsden, Hugh E., Weinberg, and Tomka. 2,790,785.
Weinberg, Elliott L., and Tomka. 2,789,103.
Weinberg, Elliott L., and Tomka. 2,789,107.

- Tomka, Louis A., to Metal & Thermit Corp. Chlorinated organotin rubbery compositions and method of preparing the same. 2,798,863, 7-9-57, Cl. 260—45.75.
- Tomka, Louis A., and E. L. Weinberg, to Metal & Thermit Corp. Rubber with basic hydrocarbon tin compounds. 2,789,105, 4-16-57, Cl. 260—45.75.
- Tomka, Louis A., and E. L. Weinberg, to Metal & Thermit Corp. Stabilized rubbery composition. 2,789,106, 4-16-57, Cl. 260—45.75.
- Tomka, Louis A., and E. L. Weinberg, to Metal & Thermit Corp. Stabilization of rubber with dihydrocarbontin dialcoholates or diphenolates. 2,798,862, 7-9-57, Cl. 260—45.75.
- Tomkins-Johnson Co.: See—
Buck, Clarence M. 2,814,393.
Halladay, Merton E., and White. 2,804,052.
- Tomko, Donald R.: See—
Sacchini, Columbus R., and Tomko. 2,794,524.
- Tomlin, Andrew: See—
Hand, James F., and Tomlin. 2,798,860.
Hand, James F., and Tomlin. 2,811,503.
- Tomlin, Edward A., to Gestetner Ltd. Duplicating machines. 2,783,043, 2-26-57, Cl. 271—63.
- Tomlinson, Ben L.: See—
Tomlinson, William E. and B. L., and Carlson. 2,792,207.
- Tomlinson, Charles C.: See—
Henshall, Arthur T., and Tomlinson. 2,800,058.
- Tomlinson, James R.: See—
Hay, Russell G., and Tomlinson. 2,813,888.
- Tomlinson, Lee H.: See—
Neugebauer, Franz J., Lustenader, Macaulay, and Tomlinson. 2,801,134.
- Tomlinson, William E. and B. L., and D. E. Carlson, to Lakeshore Mfg. Co. Portable grain dryer. 2,792,207, 5-14-57, Cl. 263—8.
- Tommaney, Joseph W., T. F. Kilian, and T. J. Gabrykewicz, to Allegheny Ludlum Steel Corp. Method of sealing an evacuated cylinder. 2,814,172, 11-26-57, Cl. 53—39.
- Tompkins, Francis M. Fishing reel. 2,784,919, 3-12-57, Cl. 242—84.1.
- Tompkins, Howard E., to Burroughs Corp. Computing elements and systems. 2,802,138, 8-6-57, Cl. 315—8.5.
- Tompkins, Walter T. Baseball glove. 2,778,023, 1-22-57, Cl. 2—19.
- Toms, Dale W.: See—
Graulich, Albert J., and Toms. 2,784,965.
- Tomsic, Guy. Sheets for mattresses. 2,791,784, 5-14-57, Cl. 5—334.
- Ton, Joseph C., to Callery Chemical Co. Method of recovering methyl borate from admixture with methanol. 2,802,018, 8-6-57, Cl. 260—462.
- Tondreau, Albert W., to Warner Bros. Pictures, Inc. Color film tester. 2,797,626, 7-2-57, Cl. 95—75.
- Toney, Edward F., to Pittsburgh Plate Glass Co. Division bar. 2,800,983, 7-30-57, Cl. 189—78.
- Toney, Henry W., to Kawneer Co. Locked joint for metal structures. 2,796,959, 6-25-57, Cl. 189—36.
- Tong, George C. Reclining chairs. 2,783,823, 3-5-57, Cl. 155—105.
- Tong, Kay C., to Northrop Aircraft, Inc. Progressive push button switch. 2,813,160, 11-12-57, Cl. 200—18.
- Tongue, Ben H. High frequency transmission line coupling network. 2,776,408, 1-1-57, Cl. 333—8.
- Tongue, Ben H. Neutralized amplifier system for ultrahigh to very high frequency converter. 2,778,934, 1-22-57, Cl. 250—20.
- Tongue, Ben H. Electron-tube stabilized amplifying circuit. 2,790,036, 4-23-57, Cl. 179—171.
- Tongue, Ben H. Wide-band distribution amplifier system. 2,815,406, 12-3-57, Cl. 179—171.
- Tonna, Arthur J., and W. B. Fahrenbach, to San Francisco Brewing Corp. Crown crimping collet. 2,815,630, 12-10-57, Cl. 53—356.
- Tooke, James W.: See—
Legatski, Theodore W., and Tooke. 2,783,640.
- Tooke, James W., to Phillips Petroleum Co. Recovery of aluminum chloride from a fluid aluminum chloride-hydrocarbon complex. 2,797,981, 7-2-57, Cl. 23—96.
- Toomey, Charles L.: See—
Brooks, Joseph H., Gilbert, and Toomey. 2,813,192.
- Toornman, Burton V., to The Dow Chemical Co. Method and composition for the control of undesirable vegetation. 2,777,762, 1-15-57, Cl. 71—2.3.
- Toothill, Geoffrey, to William Asquith Ltd. Infinitely variable torque transmitter. 2,787,145, 4-2-57, Cl. 64—29.
- Tootill, Geoffrey C.: See—
Williams, Frederic C., Kilburn, and Tootill. 2,785,855.
Williams, Frederic C., Kilburn, Tootill, and Pollard. 2,800,277.
- Tootill, Geoffrey C., F. C. Williams, and T. Kilburn, to National Research Development Corp. Electronic digital computing machines. 2,777,635, 1-15-57, Cl. 235—61.
- Tootill, Geoffrey C., F. C. Williams, T. Kilburn, G. E. Thomas, and D. B. G. Edwards, to National Research Development Corp. Electronic digital computing machines. 2,789,759, 4-23-57, Cl. 235—61.
- Tootill, Geoffrey C., F. C. Williams, T. Kilburn, G. E. Thomas, and D. B. G. Edwards, to National Research Development Corp. Electronic computing devices with subsidiary storage. 2,796,218, 6-18-57, Cl. 235—61.
- Tootill, Geoffrey C., F. C. Williams, and T. Kilburn, to National Research Development Corp. Electronic digital computing devices. 2,810,516, 10-22-57, Cl. 235—61.
- Tootle, James N.: See—
Geyer, Howard M., and Tootle. 2,791,128.
- Topelina, Paul J., to Tiarco Corp. Electrodeposition. 2,784,151, 3-5-57, Cl. 204—23.
- Töpfer, Herbert: See—
Etzel, Franz, and Töpfer. 2,787,662.
- Töpfer, Herbert, E. Ehrlicke, A. Brandstetter, and A. Peissner, to Siemens & Halske Aktiengesellschaft. District switching circuits for telephone systems. 2,803,705, 8-20-57, Cl. 179—18.
- Toplight Corp.: See—
Morgan, Bryn T. 2,805,816.
- Tøpholm, Christian, to American Danish Oticon Corp. Electro-acoustic apparatus. 2,794,862, 6-4-57, Cl. 179—114.
- Topinka, Alfred A.: See—
Steinberg, Morris A., and Topinka. 2,813,068.
- Topinka, Alfred A. Ram jet employing carbon layer of insulation for solid carbon propellant. 2,811,829, 11-5-57, Cl. 60—35.6.
- Topol, Sidney, to Raytheon Mfg. Co. Directive antenna. 2,816,285, 12-10-57, Cl. 343—770.
- Topolinski, Jerome J., to Skil Corp. Deburring tool. 2,787,195, 4-2-57, Cl. 90—1.4.
- Topolinski, Jerome J., to Skil Corp. Reversible circular saw. 2,795,247, 6-11-57, Cl. 143—133.
- Topp Industries Inc.: See—
Hamren, Victor E. 2,778,907.
- Toppari, John, to Erie Resistor Corp. Capacitor. 2,785,350, 3-12-57, Cl. 317—242.
- Topper, Charles W.: See—
Werner, Frank R., Topper, and Flint. 2,800,854.
- Torcheux, Emile L. G.: See—
Honore, Etienne A. H., Torcheux, and Roy. 2,785,853.
- Torchia, Robert E. Adjustable hinge. 2,779,966, 2-5-57, Cl. 16—138.
- Tordella, John P., to E. I. du Pont de Nemours and Co. Extrusion of polytetrafluoroethylene at temperatures above the normal melting point. 2,791,806, 5-14-57, Cl. 18—55.
- Torell, Bruce N., to United Aircraft Corp. Fuel control for a split-turbine type of power plant. 2,807,138, 9-24-57, Cl. 60—39.16.
- Torgeson, Arthur W. Wire winding apparatus. 2,793,820, 5-28-57, Cl. 242—86.5.
- Torgeson, Dewayne C.: See—
Yoder, Donald M., and Torgeson. 2,801,216.
- Torgerson, Arnold T.: See—
Anthony, Herman R. C., and Torgerson. 2,802,042.
- Torgerson, John I. Concrete working tool. 2,813,466, 11-19-57, Cl. 94—45.
- Torkret Gesellschaft mit beschränkter Haftung: See—
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- Tormag Transmissions Ltd.: See—
Zozulin, Igor V. 2,810,349.
Zozulin, Igor V. 2,810,556.
- Tornberg, Gordon C. Medicinal tablet container and dispenser. 2,780,349, 2-5-57, Cl. 206—42.
- Tornberg, Henning T., to Modern Plastic Machinery Corp. Means to indicate the thrust in a revolving shaft in machinery. 2,802,361, 8-13-57, Cl. 73—140.
- Tornblom, Nils A., to Appleton Electric Co. Support clamp for cables. 2,08,631, 10-8-57, Cl. 24—81.
- Tornoe, John A., to Schlage Lock Co. Lock indicator. 2,793,522, 5-28-57, Cl. 70—432.
- Toronto Carpet Mfg. Co. Ltd.: See—
Hughes, Harry. 2,804,096.
- Toronto Star Ltd., The: See—
Sykes, Thomas R. 2,789,495.
- Toronto, Thomas, to Robert Gair Co., Inc. Folding-box blanks with provision for accurate stacking. 2,788,931, 4-16-57, Cl. 229—16.
- Torosian, Edward, to Stud Drive, Inc. Stud driving and hole tapping machine. 2,799,871, 7-23-57, Cl. 10—129.
- Torrance, John J., and F. Ashley, to Coal Industry (Patents) Ltd. Raising of coal or other minerals in mine shafts. 2,797,834, 7-2-57, Cl. 214—623.
- Torre, Alton J., to Radio Corp. of America. Protection apparatus. 2,787,725, 4-2-57, Cl. 315—20.
- Torre, Alton J., L. R. Kirkwood, and R. D. Flood, to Radio Corp. of America. Color television receiver. 2,799,723, 7-16-57, Cl. 178—5.4.
- Torre, Pier L. Fuel feed valve devices. 2,788,012, 4-9-57, Cl. 137—38.
- Torre, Pier L., and B. Primetti. Electric system for motor vehicles. 2,778,953, 1-22-57, Cl. 307—10.
- Torrey, Joseph, Jr., to The Goodyear Tire & Rubber Co. Method of and apparatus for manufacturing anti-skid tires. 2,808,621, 10-8-57, Cl. 18—38.
- Torrey, Robert D. Resettable relay flop. 2,792,506, 5-14-57, Cl. 307—88.
- Torrey, Robert D., to Sperry Rand Corp. Voltage biasing of magnetic amplifiers. 2,814,734, 11-26-57, Cl. 307—88.

- Torricelli Creations, Inc.: *See*—
Torricelli, Ugo. 2,786,301.
Torricelli, Ugo. 2,800,895.
- Torricelli, Ugo, to Torricelli Creations, Inc. Educational interlocking building blocks. 2,786,301, 3-26-57, Cl. 46—25.
- Torricelli, Ugo, to Torricelli Creations, Inc. Hand reflex gun. 2,800,895, 7-30-57, Cl. 128—2.
- Torrington Mfg. Co., The: *See*—
Bergevin, Charles R. Re. 24,345.
Merz, Kenneth A. 2,782,982.
Sampatacos, Peter M., and Franks. 2,788,807.
- Torrissi, Alfred F.: *See*—
Bolton, Michael J., and Torrissi. 2,785,116.
- Tortorello, Anthony M.: *See*—
Zydycryn, William. 2,784,946.
- Toscano, Michael: *See*—
Brennan, James J., and Toscano. 2,818,296.
- Tosches, Anthony: *See*—
Sanderson, Kenneth E., and Tosches. 2,810,403.
- Toschkoff, Dimitar: *See*—
Bohnhoff, Arthur F., and Toschkoff. 2,791,185.
- Toscony Fabrics, Inc.: *See*—
Armstrong, Edward T. 2,783,546.
Armstrong, Edward T. 2,809,392.
- Toshio Yoshida: *See*—
Ujike, Osamu, and Sato. 2,778,723.
- Tosswill, Christopher H., G. O. Crowther, and L. H. Light, to North American Philips Co., Inc. Voltage stabilizer circuit arrangement. 2,794,939, 6-4-57, Cl. 315—230.
- Total, Henri, to Societe Anonyme dite: Constructions Industrielles de Precision. Automatic weighing device. 2,809,009, 10-8-57, Cl. 249—62.
- Toth, Louis. Weather tight window construction. 2,798,578, 7-9-57, Cl. 189—65.
- Toth, Louis. Vertically pivoted reversible windows. 2,811,754, 11-5-57, Cl. 20—53.
- Toth, Michael J.: *See*—
Dunning, John W., Moses, and Toth. 2,779,724.
- Toth, Vera C. Folding toy. 2,795,421, 6-11-57, Cl. 272—1.
- Toti, Andrew J. Vertical slat blind mounting. 2,785,745, 3-19-57, Cl. 160—176.
- Toti, Andrew J. Vertical slat Venetian blind spacing. 2,790,492, 4-30-57, Cl. 160—173.
- Toti, Andrew J. Vertical slat blind. 2,794,502, 6-4-57, Cl. 160—172.
- Toti, Andrew J. Vertical slat Venetian blind anti rattle clip. 2,801,639, 8-6-57, Cl. 160—177.
- Toti, Andrew J., to Honolulu Oil Corp. Fowl defeathering apparatus. 2,805,443, 9-10-57, Cl. 17—11.1.
- Toti, Andrew J. Vertical slat Venetian blind suspension. 2,807,322, 9-24-57, Cl. 160—168.
- Toti, Andrew J., and A. E. Latham. Center support hangers for window blinds. 2,788,066, 4-9-57, Cl. 160—177.
- Totten, Luther D. Welding frame. 2,805,319, 9-3-57, Cl. 219—101.
- Totzek, Friedrich, to Koppers Co., Inc. Apparatus for the performance of endothermic reactions between solid and gaseous media. 2,777,813, 1-15-57, Cl. 204—193.
- Touche, Carlos. Animation unit for signs. Re. 24,368, 10-8-57, Cl. 40—138.
- Touche, Carlos. Animation unit for signs. 2,795,070, 6-11-57, Cl. 40—138.
- Toucheff, Vern T., J. A. Pharris, G. E. McGuire, and A. Kluge, to E Z Painter Corp. Apparatus for and method of continuously producing paint roller cover sections. 2,812,007, 11-5-57, Cl. 154—18.
- Touchman, William S., to P. C. Sorenson and L. Jewell. Engine function efficiency meter. 2,796,761, 6-25-57, Cl. 73—114.
- Touchman, William S., to P. C. Sorenson and L. Jewell. Engine function efficiency meter. 2,796,762, 6-25-57, Cl. 73—114.
- Touchman, William S., to P. C. Sorenson and L. Jewell. Quotient calculating device. 2,806,647, 9-17-57, Cl. 235—61.
- Toney, George, to Eastman Kodak Co. Filters for tobacco smoke comprising cellulose esters and ethers. 2,780,228, 2-5-57, Cl. 131—208.
- Toney, George P., to Eastman Kodak Co. Mixed cellulose ethers and their preparation. 2,811,519, 10-29-57, Cl. 260—231.
- Toney, George P., and J. R. Caldwell, to Eastman Kodak Co. Detergent compositions for laundering textile fabrics, containing a copolymer of a lower N-alkyl acrylamide and vinyl. 2,798,047, 7-2-57, Cl. 252—152.
- Toney, George P., and H. W. Coover, Jr., to Eastman Kodak Co. Detergent compositions for laundering textile fabrics, containing a copolymer of acrylonitrile and an acrylamide. 2,805,205, 9-3-57, Cl. 252—152.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method of manufacturing cushions. 2,785,440, 3-19-57, Cl. 18—53.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method and apparatus for the removal of ice from runways by impact with removed pieces of ice. 2,789,804, 4-23-57, Cl. 262—1.
- Toulmin, Harry A., Jr., to Midland Chemical Corp. Iceing compositions comprising carboxymethyl dextran and method of producing the same. 2,789,911, 4-23-57, Cl. 99—132.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method of preserving food products. 2,790,721, 4-30-57, Cl. 99—150.
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- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Resilient wheel apparatus and method for forming strip material. 2,799,317, 7-16-57, Cl. 153—32.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Citrus molasses refining process. 2,800,407, 7-23-57, Cl. 99—6.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method of making corrugated paper products utilizing a dextran-formaldehyde reaction product. 2,806,787, 9-17-57, Cl. 92—21.
- Toulmin, Harry A., Jr., to Midland Chemical Corp. Thickened fruit compositions comprising carboxymethyl dextran. 2,813,797, 11-19-57, Cl. 99—102.
- Toulmin, Harry A., Jr., to Chadeloid Corp. Wood stains. 2,813,801, 11-19-57, Cl. 106—34.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Apparatus for production of metallized and bonded blown glass fibers. 2,814,162, 11-26-57, Cl. 49—1.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Composite metal structure. 2,817,141, 12-24-57, Cl. 29—196.6.
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- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Dry pudding mix comprising carboxymethyl dextran. 2,818,343, 12-31-57, Cl. 99—139.
- Toulmin, Harry A., Jr., and W. R. Stauffer. Process for producing a porous vinyl ester. 2,802,796, 8-13-57, Cl. 260—2.5.
- Touney, Paul R. Inkstand. 2,779,813, 1-29-57, Cl. 120—73.
- Tournier, Paul, to Comptoir France Etranger. Rotary spring-driven dry shaver. 2,808,645, 10-8-57, Cl. 30—43.
- Toursheu, Simeon I., and B. E. Nicholson, to Radio Corp. of America. Cathode ray deflection system. 2,793,322, 5-21-57, Cl. 315—27.
- Tourtellot, John A., to Radio Corp. of America. Electric motor. 2,814,770, 11-26-57, Cl. 318—325.
- Touton, Louis L. Agricultural irrigating system. 2,803,498, 8-29-57, Cl. 299—47.
- Touyay, Robert, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de St. Gobain. Grinding machines simultaneously working both surfaces of a continuous ribbon of glass. 2,788,619, 4-16-57, Cl. 51—112.
- Tower Iron Works Inc.: *See*—
Fain, Morton E., and Alarie. 2,818,199.
- Towers, Kenneth E.: *See*—
Boysen, Martin C., and Towers. 2,777,586.
- Towill, Roswell M.: *See*—
Mahan, Richard O., and Towill. 2,811,445.
- Towie, Robert G.: *See*—
Diquattro, Robert G., and Towie. 2,812,633.
Scott, Raymond E., and Towie. 2,792,568.
- Towie, Robert G., to Specialties Development Corp. Deformation switch mechanism. 2,790,863, 4-30-57, Cl. 200—61.08.
- Towie, Robert G., and A. W. Uhl, to Specialties Development Corp. Control circuit for collision operated fire preventing and extinguishing systems. 2,784,356, 3-5-57, Cl. 317—135.
- Towie, Robert G., R. B. Jones, and R. J. Ganther, to Specialties Development Corp. Inertia switch. 2,793,261, 5-21-57, Cl. 200—61.51.
- Towler, Frank H.: *See*—
Towler, John M., and F. H. 2,788,800.
Towler, John M., and F. H. 2,790,305.
Towler, John M., and F. H. 2,803,266.
- Towler, Frank H. and J. M., to Electraulic Presses Ltd. Pressure actuated bye-pass valves. 2,805,038, 9-3-57, Cl. 251—28.
- Towler, John M.: *See*—
Towler, Frank H. and J. M. 2,805,038.
- Towler, John M., and F. H. Towler, to Electraulic Presses Ltd. Adjustable relief valves. 2,788,800, 4-16-57, Cl. 137—540.
- Towler, John M. and F. H., to Electraulic Presses Ltd. Control valves for hydraulic presses. 2,790,305, 4-30-57, Cl. 60—52.
- Towler, John M., deceased, and F. H. (F. H. Towler, administrator), to Electraulic Presses Ltd. Fluid motor valve with exhaust surge prevention control. 2,803,266, 8-20-57, Cl. 137—622.
- Towmotor Corp.: *See*—
Cirillo, Lee. 2,776,064.
- Towne, Claude M., to Stein Bros. Mfg. Co. Metal cutting ax. 2,794,251, 6-4-57, Cl. 30—317.
- Towne, Edmund B.: *See*—
Dickey, Joseph B., and Towne. 2,777,863.
Dickey, Joseph B., and Towne. 2,793,081.
- Towne, Edmund B., and J. B. Dickey, to Eastman Kodak Co. 2-amino-5-nitro-1,3,4-thiadiazole azo dyes. 2,790,791, 4-30-57, Cl. 260—153.
- Towne, Edmund B., M. S. Bloom, and J. B. Dickey, to Eastman Kodak Co. 2-amino-3-nitro-5-acylthiophene azo dye compounds. 2,805,218, 9-3-57, Cl. 260—152.

- Towner, George H., to Northrop Aircraft, Inc. Artificial inductor. 2,800,586, 7-23-57, Cl. 250-36.
- Towner, George H., to Northrop Aircraft, Inc. Signal frequency converter. 2,817,062, 12-17-57, Cl. 332-52.
- Towner, Stanley H., and L. R. Hatch, to International Standard Electric Corp. Electromagnetic light-current contact-making relays. 2,802,156, 8-6-57, Cl. 317-165.
- Townhill, Arthur. Casting method. 2,804,667, 9-3-57, Cl. 22-200.
- Towns, Edward J., $\frac{1}{2}$ to B. W. Griffin. Closure for beaded containers. 2,814,404, 11-26-57, Cl. 215-41.
- Townsend, Almon F., to Heald Machine Co. Grinding machine. 2,780,036, 2-5-57, Cl. 51-103.
- Townsend, Almon F., and H. L. Blood, to The Heald Machine Co. Internal grinding machines. 2,784,534, 3-12-57, Cl. 51-103.
- Townsend Co.: See—
Johnson, Horace L. 2,786,217.
- Townsend, Frederick H., and S. P. Mitchell, to Cathodeon Ltd. Television pick-up tubes. 2,809,315, 10-8-57, Cl. 313-65.
- Townsend, George R., to General Electric Co. Electric switch. 2,811,617, 10-29-57, Cl. 200-166.
- Townsend, Harold O., to Stromberg-Carlson Co., a division of General Dynamics Corp. Antenna system which supplements that of portable radio inside automobile. 2,790,899, 4-30-57, Cl. 250-20.
- Townsend, Harry M., deceased, by R. T. Adams, administrator, to General Motors Corp. Pivoted vehicle ventilation window with actuating mechanism. 2,812,207, 11-5-57, Cl. 290-44.
- Townsend, James H.: See—
Valentine, Lawrence F. 2,813,399.
- Townsend, John E., and L. W. Myers, to Republic Steel Corp. Method and apparatus for delivering sheet material. 2,811,196, 10-29-57, Cl. 154-30.
- Townsend, Leon L. Cutter head for machine tools. 2,811,054, 10-29-57, Cl. 77-58.
- Townsend, Lewis E. Jewel box. 2,805,910, 9-10-57, Cl. 312-273.
- Townsend, Loren R. Table having reversible tray mounted therein and means for washing the same. 2,782,426, 2-26-57, Cl. 4-187.
- Townsend, Mark A., to Bell Telephone Laboratories, Inc. Gaseous discharge devices. 2,804,563, 8-27-57, Cl. 313-185.
- Townsend, Maxwell A. Stock fountain cabinet. 2,796,312, 6-18-57, Cl. 312-319.
- Townsend, Ralph, to The British Tabulating Machine Co. Ltd. Data comparing devices. 2,776,418, 1-1-57, Cl. 340-149.
- Townsend, Ralph, and J. J. Sharp, to The British Tabulating Machine Co. Ltd. Circuits employing multi-cathode counting tubes. 2,810,099, 10-15-57, Cl. 315-84.6.
- Townsend, Ray T. Meat chopper having rotary and stationary blades. 2,808,866, 10-8-57, Cl. 146-124.
- Townsend, Roy C., Sr. Spark plug. 2,795,723, 6-11-57, Cl. 313-141.
- Towt, Van N.: See—
Anderson, Andrew K., and Towt. 2,775,930.
- Toy, Walter W.: See—
McLaughlin, Paul J., Toy, and Bockstahler. 2,790,736.
- Tozloski, Edward B., to Edbar Products, Inc. Vehicle lift. 2,786,549, 3-26-57, Cl. 187-8.41.
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- Traben, Josef. Mechanism for the remote control of a frame saw. 2,816,581, 12-17-57, Cl. 143-105.
- Traben, Josef. Drive for the feed rollers of frame saws. 2,817,375, 12-24-57, Cl. 143-84.
- Trabiley, William J., to Electric Pipe Line, Inc. Transportation system for viscous liquids. 2,802,520, 8-13-57, Cl. 158-36.
- Trabing, Charles J.: See—
Bonari, Lawrence P., and Vick. 2,805,069.
- Trabish, Robert. Hair curler. 2,785,689, 3-19-57, Cl. 132-34.
- Trabish, Robert. Curl winder. 2,785,690, 3-19-57, Cl. 132-34.
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- Trabon Engineering Corp.: See—
Harter, Robert L. 2,792,911.
Pawling, Frank. 2,794,518.
- Trabucco, Vincent R. Helicopter parachute attaching structure. 2,812,147, 11-5-57, Cl. 244-139.
- Trace, Hebert D. Surgical instrument for extirpation of varicose veins. 2,788,787, 4-16-57, Cl. 128-303.
- Tractomotive Corp.: See—
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- Tractor Shafts Co. Ltd., The: See—
Ryding, Stephen E. 2,791,192.
- Tracy, Benjamin F., to Goodman Mfg. Co. Oscillating burster cone assembly for boring type miner head. 2,783,038, 2-26-57, Cl. 262-7.
- Tracy, Benjamin F., to Goodman Mfg. Co. Conveyor take-up. 2,815,114, 12-3-57, Cl. 198-109.
- Tracy, Leslie W. Self loading vehicle. 2,798,621, 7-9-57, Cl. 214-75.
- Tracy, Michael J. Window operating mechanisms. 2,800,322, 7-23-57, Cl. 268-23.
- Tracy, Ward D., to Southwest Products Co. Method of making bearings and rod end bearings. 2,804,679, 9-3-57, Cl. 29-149.5.
- Tracy, Ward D., A. L. Mager, and C. A. Dasney, to Southwest Products Co. Ball and socket joint with internal bearing means. 2,813,731, 11-19-57, Cl. 285-262.
- Traffic Transport Engineering, Inc.: See—
Stuart, Clarence C. 2,786,563.
- Tradicante, Inc.: See—
Picchiotti, Alberto. 2,798,400.
- Trafton, Warren L., to United-Carr Fastener Corp. Fastener and holder to engage a slotted panel. 2,781,073, 2-12-57, Cl. 151-41.75.
- Trager, Fred C.: See—
Pray, Blaine O., and Trager. 2,791,613.
- Trager, Fred C., to Columbia-Southern Chemical Corp. Recovery of thionyl chloride. 2,779,663, 1-29-57, Cl. 23-203.
- Trabern, Arlie R., Jr., to Chrysler Corp. Band type floating shoe brake. 2,801,713, 8-6-57, Cl. 188-78.
- Trailmobile, Inc.: See—
Black, James J. 2,781,231.
- Trainer, Horace G., Jr., to International Harvester Co. Crankcase ventilating system for internal combustion engines. 2,818,052, 12-31-57, Cl. 123-119.
- Trainer, Richard P., and F. Kunreuther, to Shell Development Co. Fluid catalyst regeneration vessel. 2,816,011, 12-10-57, Cl. 23-288.
- Trainor, Charles R. Adjustable wall mounted clothes drier. 2,780,365, 2-5-57, Cl. 211-87.
- Traisman, Edwin, and H. L. Fleming, to Kraft Foods Co. Whey concentrate. 2,781,267, 2-12-57, Cl. 99-57.
- Tralsman, Edwin, and W. Kurtzhals, now by merger National Dairy Products Corp. Cheese product. 2,817,590, 12-24-57, Cl. 99-117.
- Tramel, Jess W. Rodent trap. 2,793,465, 5-28-57, Cl. 43-81.
- Tramm, Heinrich, H. Kolling, F. Schnur, K. Büchner, H. Heger, and E. Stiebling, to Ruhrchemie Aktiengesellschaft. Oxo synthesis. 2,802,843, 8-13-57, Cl. 260-410.6.
- Trammell, Charles M.: See—
De Luxembourg, Alexander M. L. 2,780,566.
- Trammell, Earl M., to Huttig Sash & Door Co. Inc. Rack assembly. 2,812,069, 11-5-57, Cl. 211-162.
- Trammell, Earl M., Jr. Retaining devices for tape balances. 2,776,448, 1-8-57, Cl. 16-202.
- Trane Co., The: See—
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Labus, Otto A. 2,781,715.
Miner, Robert G. 2,817,213.
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Moody, Arthur M. G. 2,817,475.
Neubauer, Emil T., Schroder, and Hackbart. 2,795,194.
- Trangmar, Frank M. Dental matrix. 2,790,238, 4-30-57, Cl. 32-63.
- Transit Research Corp.: See—
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Russell, William T. 2,777,402.
Russell, William T. 2,782,732.
- Transmission & Gear Co., The: See—
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Gerst, Chris. 2,804,780.
- Transocean Air Lines: See—
Madsen, Andrew. 2,777,120.
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- Transogram Co., Inc.: See—
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- Transonic Corp.: See—
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- Transportation Specialties Co.: See—
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Johnston, Charles R. 2,809,809.
- Trans-Sonics, Inc.: See—
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- Transtrom, Clarence V. Animal trap. 2,779,124, 1-29-57, Cl. 43-85.
- Trans World Airlines, Inc.: See—
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- Trapido, Leonard, T. De Vito, and S. Giarraputo, to Kahn & Feldman, Inc. Apparatus for crimping strands. 2,807,130, 9-24-57, Cl. 57-77.3.
- Trapied, Guy: See—
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- Trapow, D., & Co. Ltd.: See—
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- Trapp, Walter B., and D. E. Pletcher, to The Dow Chemical Co. (4-methyl-3-pentenyl)-3-cyclohexene-1-acrylates. 2,816,132, 12-10-57, Cl. 260-468.
- Trasformazioni Tessili S. r. l.: See—
Piacenza, Giorgio. 2,814,045.
- Trask, Harold V.: See—
Haley, Kenneth M., and Trask. 2,807,534.
Haley, Kenneth M., Trask, and Healy. 2,785,063.
- Tratzik, Frederick: See—
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- Traub, Eberhardt, to Firma Robert Bosch G. m. b. H. Recording tape. 2,808,345, 10-1-57, Cl. 117-107.

- Traugott, Paul, to Electro-Physical Laboratories, Inc. Record trace identification device. 2,791,482, 5-7-57, Cl. 346-62.
- Traugott, Paul, to Electro-Physical Laboratories, Inc. Safety ground connection for electrical testing devices. 2,791,728, 5-7-57, Cl. 317-17.
- Traugott, Wilfred F. Idler arm bearing. 2,805,878, 9-10-57, Cl. 287-93.
- Traupmann, Raymond J., and H. I. Southerwick, to Blackhawk Mfg. Co. Reciprocable plunger packing. 2,800,376, 7-23-57, Cl. 309-34.
- Trautman, Charles E., to Gulf Research & Development Co. Hydrocarbon oil compositions. 2,813,830, 11-19-57, Cl. 252-49.6.
- Trautvetter, George, to Heintz Mfg. Co. Television cabinet. 2,783,113, 2-26-57, Cl. 312-7.
- Trauwood Engineering Co., The: See—Jordan, Harold H. 2,788,790.
- Traveler Products, Inc.: See—Jaffe, Isadore. 2,798,236.
- Traver, Fred C. Dispensers for sheet material. 2,783,878, 3-5-57, Cl. 206-52.
- Traverse, Georges, to Societe d'Etude de sa Propulsion par Reaction. Process for initiating the ignition of rocket fuels. 2,775,863, 1-1-57, Cl. 60-35.4.
- Travilla, James C., to General Steel Castings Corp. Railway car body structure. 2,779,297, 1-29-57, Cl. 105-409.
- Travilla, James C., to General Steel Castings Corp. Railway truck structure. 2,811,114, 10-29-57, Cl. 105-197.
- Travilla, James C., Jr., to General Steel Castings Corp. Railway truck. Re. 24,349, 8-27-57, Cl. 105-193.
- Travis, Don C., to Simmons Co. Adjustable bed. 2,779,951, 2-5-57, Cl. 5-69.
- Travis, Don C., to Simmons Co. Hospital bed. 2,802,219, 8-13-57, Cl. 5-64.
- Travis, Julius C. Child's auto safety seat. 2,777,502, 1-15-57, Cl. 155-10.
- Travis, Lawrence R.: See—Leverett, Hollis M. Travis, and Thorburn. 2,795,993.
- Travis, Lawrence R., to Sylvania Electric Products Inc. Cord drive. 2,784,595, 3-12-57, Cl. 74-10.7.
- Travis, Lorenz E. Puzzle game. 2,815,215, 12-3-57, Cl. 273-153.
- Travisano, Frank P. Therapeutic tilting table with rail attaching means. 2,787,506, 4-2-57, Cl. 311-10.
- Traxler, John F. Merchandise display tray. 2,812,225, 11-5-57, Cl. 312-140.3.
- Traycoff, Boris J. Metal cutting tool. 2,780,856, 2-12-57, Cl. 29-96.
- Traycoff, Boris J. Molding apparatus. 2,799,050, 7-16-57, Cl. 18-42.
- Traylor, Samuel W., Jr. Spring relief mechanism for jaw type crushers. 2,784,916, 3-12-57, Cl. 241-268.
- Treadway, Robert H.: See—Siciliano, James, Heisler, and Treadway. 2,797,166.
- Treadwell, M. H., Co., Inc.: See—Rys, Ladislav J. 2,799,580.
- Treanor, Charles F.: See—Mitchell, Dorman S., and Treanor. 2,810,926.
- Treble, Frederick R. Cigarette filter tip assembly machines. 2,802,470, 8-13-57, Cl. 131-94.
- Treciokas, Jacob P., to Scovill Mfg. Co. Apparatus for setting snap fasteners upon envelopes. 2,786,203, 3-26-57, Cl. 1-120.
- Trecker, Francis J. Mobile power unit. 2,784,003, 3-5-57, Cl. 280-24.
- Trecker, Francis J. Power transmitting, towing and cutting attachment for power mowers. 2,790,292, 4-30-57, Cl. 56-25.
- Treco Products Co., Inc.: See—Roehl, Ray T., and Petersen. 2,791,456.
- Tredway, John E. Pole supported fruit picker. 2,811,007, 10-29-57, Cl. 56-336.
- Tree, Charles. Tool holder. 2,809,844, 10-15-57, Cl. 279-42.
- Treese, Harold R., 1/2 to The Design and Research Centre for the Gold, Silver and Jewelry Industries, and 1/2 to J. Goddard & Sons Ltd. Tarnish remover. 2,801,961, 8-6-57, Cl. 204-144.
- Treff, Alfred, to Solo Cup Co. Sundae dish holder. 2,795,120, 6-11-57, Cl. 65-61.
- Trefzer, Robert: See—Mueller, Paul, and Trefzer. 2,792,391.
- Treganowan, Bernard E., and R. J. Stephens, to Normalair Ltd. Fluid flow control valves. 2,796,889, 6-25-57, Cl. 138-46.
- Tregoning, Robert H. Hydraulic railway-track braking skate. 2,817,301, 12-24-57, Cl. 104-259.
- Treiber, Kenneth L. Combined utensil. 2,814,870, 12-3-57, Cl. 30-142.
- Treiss, Herman G., to American Safety Razor Corp. Blade dispensers. 2,776,743, 1-8-57, Cl. 206-16.
- Treitl, Werner S.: See—Andrews, David H., Liegey, Nozick, and Trietel. 2,780,803.
- Trelease, Richard D., to Swift & Co. Manufacture of cheese slices. 2,815,573, 12-10-57, Cl. 31-10.
- Tremblay, Alphonse. Trigger mechanism for rodent traps. 2,794,291, 6-4-57, Cl. 43-81.
- Tremblay, Bernard G.: See—Horn, Merl E., Tremblay, and Florchutz. 2,813,170.
- Tremblay, Bernard G., and W. H. Stuellein, to Westinghouse Electric Corp. Time delay trip circuit breaker. 2,785,347, 3-12-57, Cl. 317-178.
- Tremblay, Jean-Louis. Surgical pump. 2,815,715, 12-10-57, Cl. 103-53.
- Tremblay, Joseph C. Convertible cart. 2,781,201, 2-12-57, Cl. 280-30.
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- Trense, Hugo F. Fuel receptacle. 2,814,407, 11-26-57, Cl. 220-2.
- Treon, Robert H.: See—Bennett, Harry T. 2,789,823.
- Trescott Co., Inc., The: See—Kipers, Richard F. 2,814,488.
- Treseder, Robert C.: See—Barish, Thomas, Moeller, Treseder, and Wright. 2,797,761.
- Treseder, Robert C., to General Motors Corp. Accumulator. 2,797,708, 7-2-57, Cl. 138-31.
- Treseder, Robert C., K. L. Berninger, W. A. Weis, A. P. Dinsmore, and G. R. Taylor, to General Motors Corp. Concurrent blade pitch control of coaxial propellers. 2,804,154, 8-27-57, Cl. 170-135.27.
- Trettel, Clement E.: See—Andres, William A., Clemons, and Trettel. 2,792,106.
- Treuhaff, Milton A., and C. E. Swanson, to Hudson Electrochemical Co. Electropolishing apparatus. 2,782,160, 2-19-57, Cl. 204-222.
- Trevanthen, George C., to General Motors Corp. Combustion chamber. 2,791,996, 5-14-57, Cl. 123-191.
- Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Liquid pressure relays. 2,775,868, 1-1-57, Cl. 60-54.6.
- Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Multi-way tumbler switch. 2,789,166, 4-16-57, Cl. 200-6.
- Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Disc brake. 2,804,176, 8-27-57, Cl. 188-73.
- Trevaskis, Henry W., and E. Martin, to Dunlop Rubber Co., Ltd. Method and apparatus for making air pressure containers. 2,788,836, 4-16-57, Cl. 154-1.8.
- Trevaskis, Henry W., and D. Dewar, to Dunlop Rubber Co. Ltd. Cooking mechanisms for automatic guns. 2,796,004, 6-18-57, Cl. 89-1.
- Trexler, Philip C., to the United States of America as represented by the Secretary of the Navy. Protective garment. 2,779,331, 1-29-57, Cl. 128-140.
- Trexler, Philip C., to University of Notre Dame du Lac. Biological apparatus. 2,786,464, 3-26-57, Cl. 128-1.
- Triad Mfg. Co.: See—Grierson, Raymond H., and Hess. 2,784,525.
- Triangle Package Machinery Co.: See—Ullman, Fred B., and Virta. 2,788,027.
- Triangle Products Ltd.: See—Pepper, Ernest W. 2,810,961.
- Triangle Tool & Mfg. Co.: See—Pankonin, William G. 2,780,809.
- Tribit, Samuel W.: See—Dixon, James K., Tribit, and Fugate. 2,809,939.
- Tribune Co.: See—Schuba, Leo C. 2,801,734.
- Trickey, Philip H.: See—Barrett, John S., Martin, and Trickey. 2,791,308.
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- Scinta, Anthony C. 2,807,821.
- Scinta, Anthony C. 2,807,822.
- Scinta, Anthony C., and Rappl. 2,780,824.
- Triebes, Helen E.: See—Triebes, Herman A. and H. E. 2,800,040.
- Triebes, Herman A. and H. E. Sharpening tool. 2,800,040, 7-23-57, Cl. 76-82.2.
- Trier, George O., to Rembrandt Lamp Corp. Lamp reflector bowl. 2,794,115, 5-28-57, Cl. 240-81.
- Trieschmann, Hans-Georg: See—Adam, Karl, and Trieschmann. 2,778,852.
- Trifax N. V., Chemisch-Pharmaceutische en Extractiebedrijven: See—Jansen, Jan C. 2,799,897.
- Trilling, Donald R.: See—Sabaroff, Samuel. 2,801,295.
- Triman, Eugene L. Remote control system. 2,785,391, 3-12-57, Cl. 340-206.

- Trimbach, Clem G.: *See*—
Jewett, John L., and Trimbach. 2,790,352.
- Trimble, George S., Jr., R. K. Wentz, and N. W. Magyar, to The Glenn L. Martin Co. Air base. 2,814,453, 11-26-57, Cl. 244-63.
- Trimble, Inc.: *See*—
Skirvin, Chester C. 2,785,730.
Skirvin, Chester C. 2,812,009.
- Trippert, Raymond J., to The Frank H. Lee Co. Synthetic fabric hat and process of making the same. 2,776,435, 1-8-57, Cl. 2-193.
- Trinca, Frederick. Commutator mounting for pneumatic tire pressure alarms. 2,794,875, 6-4-57, Cl. 200-61.25.
- Trinca, Frederick. Tire pressure indicating means. 2,800,795, 7-30-57, Cl. 73-390.
- Trinca, Frederick. Valve extension and wheel cover lock. 2,812,000, 11-5-57, Cl. 152-427.
- Trindl, Joseph H.: *See*—
Channell, Charles A. 2,794,997.
- Trine Mfg. Corp.: *See*—
Kalwo, Ludwig J. 2,802,082.
- Tringali, Francesco. Electric multiple switches. 2,790,039, 4-23-57, Cl. 200-9.
- Trinkle, James O., to The B. F. Goodrich Co. Conveyor for hot material. 2,784,834, 3-12-57, Cl. 198-184.
- Tri-Far Mfg. Co.: *See*—
Barile, Peter. 2,802,578.
- Tripmacher, Richard, and K. Leupold. Tilting melting furnace. 2,783,990, 3-5-57, Cl. 266-33.
- Tripp, John G.: *See*—
Lankford, Jonathan D., Tripp, Brakel, and Gould. 2,812,288.
- Tripp, John T.: *See*—
Barr, Courtland H., and Tripp. 2,780,225.
- Tripp, Reese: *See*—
Johnson, E. Melvin, and Tripp. 2,815,565.
- Tripp, Robert W., and J. L. Winget, to Inductosyn Corp. Position measuring transformer. 2,799,835, 7-16-57, Cl. 336-123.
- Tripp, Robert W., and A. Cox, to Farrand Optical Co., Inc. Magnifier. 2,813,458, 11-19-57, Cl. 88-39.
- Trist, Arthur R. Means for applying fluent coatings to web material at open width. 2,796,846, 6-25-57, Cl. 118-410.
- Trist, Ronald, & Co., Ltd.: *See*—
Thomas, Herbert B. 2,790,459.
- Tri-State Engineering Co.: *See*—
Beckner, Marshall H. 2,806,623.
Beckner, Marshall H. 2,806,624.
Beckner, Marshall H., and Leahy. 2,780,382.
Coit, Burton C., Jr. 2,780,381.
Coit, Burton C., Jr. 2,780,383.
Glantzner, Russell M. 2,814,713.
- Tri-State Heating, Inc.: *See*—
Anderson, Leroy E., and St. Marie. 2,799,518.
- Tri-State Plastic Molding Co., Inc.: *See*—
Gibbs, Robert K. 2,797,840.
- Tristram, Edward W.: *See*—
Chemerdar, John M., Chamberlin, and Tristram. 2,777,843.
- Tritelina, Charles F., to Western Electric Co., Inc. Tamper proof receptacles for receiving precious metal particles. 2,797,715, 7-2-57, Cl. 141-67.
- Tritsch, Frank C.: *See*—
Tritsch, Julius A. and F. C. 2,789,397.
- Tritsch, Julius A. and F. C. Anchor for cemetery vases, baskets, and the like. 2,789,397, 4-23-57, Cl. 47-41.
- Tritt, Russell L., to Aircraft-Marine Products Inc. Terminal applicator with automatic cycle and quality control. 2,780,813, 2-12-57, Cl. 1-177.
- Triumph Hosiery Mills, Inc.: *See*—
Goodman, Norman H. 2,799,023.
- Trix Ltd.: *See*—
Kahn, Siegfried, Prior, and Alton. 2,791,765.
- Troche, Herman J., to J. H. Holan Corp. Assemblies for wood ladder rungs. 2,790,586, 4-30-57, Cl. 228-58.
- Troeger, Henry, to Bendix Aviation Corp. Starter jaw mechanism. 2,816,449, 12-17-57, Cl. 74-7.
- Troeger, Henry, and S. Gilbert, to Bendix Aviation Corp. Pneumatic engine starter. 2,775,894, 1-1-57, Cl. 74-7.
- Troeger, Henry, and R. W. Stelzel, to Bendix Aviation Corp. Emergency quick disconnect for generator. 2,807,342, 9-24-57, Cl. 192-36.
- Troeller, Charles G., W. J. Hampel, P. H. Eckstein, and F. G. Nicolaus, to R. T. Moloney. Breath-controlled apparatus. 2,805,379, 9-3-57, Cl. 318-466.
- Troendle, Jean A. Differential control. 2,811,320, 10-29-57, Cl. 242-75.47.
- Trofimov, Lev A., to Fairchild Engine and Airplane Corp. Pattern controlled machine tool. 2,778,280, 1-22-57, Cl. 90-13.5.
- Trofimov, Lev A., to Fairchild Engine and Airplane Corp. Electric torque-converter transmissions. 2,790,917, 4-30-57, Cl. 310-102.
- Trofimov, Lev A., to Fairchild Engine and Airplane Corp. Power transmission. 2,808,140, 10-1-57, Cl. 192-57.
- Troglione, Vincent R., to Ferguson Equipment Corp. Casting apparatus. 2,777,178, 1-15-57, Cl. 22-64.
- Troiel, Arthur E., to Troiel Companies, Inc. Form wall panel. 2,801,454, 8-6-57, Cl. 25-131.
- Troiel Companies, Inc.: *See*—
Troiel, Arthur E. 2,801,454.
- Trojan Powder Co.: *See*—
Meinhofer, Francis L. 2,778,858.
Rinkenbach, William H., and Carroll. 2,814,555.
Rinkenbach, William H., and Carroll. 2,817,581.
Wyler, Joseph A. 2,786,083.
- Troka, Albin G., to National Die Casting Co. Golf bag cart. 2,810,586, 10-22-57, Cl. 280-40.
- Trolan, J. Kenneth: *See*—
Dyke, Walter P., and Trolan. 2,817,002.
- Trolan, J. Kenneth, to Research Corp. Transducer tube. 2,786,955, 3-26-57, Cl. 313-148.
- Troller, Theodor H., to Joy Mfg. Co. Yieldably mounted suspension trouncing idler. 2,781,124, 2-12-57, Cl. 198-192.
- Troller, Theodor H., to Joy Mfg. Co. Motor driven fan and method of assembling the components thereof. 2,781,165, 2-12-57, Cl. 230-117.
- Trombe, Felix, to Centre National de la Recherche Scientifique. Furnace for the treatment of substances by means of the energy supplied by a concentrated radiation. 2,793,018, 5-21-57, Cl. 263-7.
- Tronnier, Albrecht W., to Farrand Optical Co., Inc. Five component high speed objective of modified Gaussian type. 2,807,983, 10-1-57, Cl. 88-57.
- Tronnier, Albrecht W., to Voigtlander Aktiengesellschaft. Photographic tele-objective. 2,810,322, 10-22-57, Cl. 88-57.
- Tronolone, Victor J.: *See*—
Nestle, Alfred C., and Tronolone. 2,811,488.
- Tronolone, Victor J., to The Texas Co. Lost circulation. 2,789,948, 4-23-57, Cl. 252-8.5.
- Troppe, Frederick J., Drummer's foot pedal. 2,784,635, 3-12-57, Cl. 84-422.
- Trösken, Otto: *See*—
Zerweck, Werner, and Trösken. 2,816,894.
- Trosset, Stanley W., Jr., to The Gardner Board and Carton Co. Process of making and finishing coated paperboard and the like. 2,790,730, 4-30-57, Cl. 117-64.
- Trostel, Albert, & Sons Co.: *See*—
Trostel, Albert O., Jr., and Knoller. 2,799,339.
- Trostel, Albert O., Jr., and H. J. Knoller, to Albert Trostel & Sons Co. Hide slitting apparatus and method of handling hides in conjunction therewith. 2,799,339, 7-16-57, Cl. 164-61.
- Trostler, Richard M., to Sperry Rand Corp. Acceleration-responsive device. 2,797,912, 7-2-57, Cl. 264-1.
- Trotman, William E. K. Cylinder machine mold. 2,803,172, 8-20-57, Cl. 92-43.
- Troth, Lawrence E.: *See*—
McKee, Walter S., and R. L. and L. E. Troth. 2,805,503.
- Troth, Richard L.: *See*—
McKee, Walter S., and R. L. and L. E. Troth. 2,805,503.
- Trott, Raymond H. Fracture reducing device for the arm. 2,783,758, 3-5-57, Cl. 128-84.
- Trotter, Marvin, and C. W. Jarvis, to M. L. Trotter. Self-contained elevator unit for truck bodies. 2,779,488, 1-29-57, Cl. 214-77.
- Trotter, Marvin L.: *See*—
Trotter, Marvin, and Jarvis. 2,779,488.
- Trottier, Gerard M., to Norton Co. Grinding machine. 2,813,379, 11-19-57, Cl. 51-105.
- Trousdale, Robert B.: *See*—
Morris, Frank A., and Trousdale. 2,816,168.
- Trousdale, Robert B., to General Dynamics Corp. One shot multivibrator. 2,778,936, 1-22-57, Cl. 250-27.
- Trousdale, Robert B., to General Dynamics Corp. Telephone system. 2,809,235, 10-8-57, Cl. 179-17.
- Trousdale, Robert B., to General Dynamics Corp. Transistor circuits. 2,810,080, 10-15-57, Cl. 307-88.5.
- Troutman, Clarence A.: *See*—
Abeles, Murray J., and Troutman. 2,806,754.
Abeles, Murray J., and Troutman. 2,808,223.
- Troutman, Harvey D., to Parke, Davis & Co. Nitrate compounds and process for producing same. 2,794,809, 6-4-57, Cl. 260-326.
- Troutman, Harvey D., to Parke, Davis & Co. Process for producing nitroacetophenone compounds. 2,794,836, 6-4-57, Cl. 260-592.
- Troutman, Herman C. Plastic templet cover. 2,791,345, 5-7-57, Cl. 220-3.4.
- Troutman, Louis G., to The Babcock & Wilcox Co. High pressure vapor generators. 2,806,453, 9-17-57, Cl. 122-459.
- Trovato, Charles. Pocketed ball game apparatus. 2,809,040, 10-8-57, Cl. 273-123.
- Trow, Fayville A., to Queen Stove Works, Inc. Fuel withdrawal apparatus for hydro-carbon burning devices. 2,784,580, 3-12-57, Cl. 67-41.
- Trowbridge, David R., to The Plessey Co. Ltd. Combustion control system. 2,810,261, 10-22-57, Cl. 60-39.82.
- Troxell, Everett A. Auxiliary braking device. 2,810,458, 10-22-57, Cl. 188-2.
- Troxell, Harold M. Nose towed airborne capsule. 2,779,553, 1-29-57, Cl. 244-3.
- Troxler, Franz: *See*—
Stoll, Arthur, Hofmann, and Troxler. 2,810,723.
- Troy Sunshade Co., The: *See*—
Witty, James C. 2,785,733.

- Troyer, Marc D., to Berger Engineering Co. Fairleader. 2,802,639, 8-13-57, Cl. 254-194.
- Truax, Ross A., to General Motors Corp. Seal. 2,814,511, 11-26-57, Cl. 286-1.
- Trüb, Hannes. Ozone apparatus. 2,778,795, 1-22-57, Cl. 204-317.
- Trüb, Hannes. Ozone apparatus. 2,778,796, 1-22-57, Cl. 204-318.
- Tru Balance Corsets, Inc.: See—
Goldstein, Arthur. 2,782,414.
- Trubenised Co. (Registered Trust): See—
Bihaly, Lajos. 2,796,031.
- Trubitt, Philip S., to S. Pass. Slip covers. 2,778,412, 1-22-57, Cl. 155-182.
- Trubitt, Philip S., to S. Pass. Slip covers. 2,793,683, 5-28-57, Cl. 155-182.
- Truchan, Anthony, Jr., to Cowles Chemical Co. Process for making d-saccharic acid. 2,809,989, 10-15-57, Cl. 260-528.
- Truckstell Mfg. Co.: See—
Page, Raymond L. 2,792,234.
- Trucktor Corp., The: See—
Farris, Clayton. 2,807,474.
- Tru-Connector Corp.: See—
Zink, Alvin J., Jr. 2,798,125.
- Trudeau, Armand E. Wicket type toy game structure. 2,801,854, 8-6-57, Cl. 273-127.
- True, Martin E.: See—
Boer, George, O'Reilly, and True. 2,784,790.
Boer, George, O'Reilly, and True. 2,781,854.
Boer, George, and True. 2,786,535.
Kennedy, John W., Tausch, and True. 2,810,440.
O'Reilly, Wallace M., and True. 2,791,398.
- True, Martin E., to Esso Research and Engineering Co. Permanent well completion. 2,785,754, 3-19-57, Cl. 166-55.
- True, Martin E., to Esso Research and Engineering Co. Wire line junk bailer. 2,796,285, 6-18-57, Cl. 294-86.
- True, Martin E., to Esso Research and Engineering Co. Blowout preventer for wells. 2,798,561, 7-9-57, Cl. 166-224.
- True, Max M. Mobile mixer. 2,788,197, 4-9-57, Cl. 259-46.
- Truesdale, Gordon K., to A. C. Nielsen Co. Film editor. 2,806,658, 9-17-57, Cl. 242-55,12.
- Truesdell, Francis W., to General Electric Co. Intermittent time switch. 2,815,409, 12-3-57, Cl. 200-27.
- Truesdell, Francis W., and C. F. Van Bennekom to General Electric Co. Instrument housing. 2,800,248, 7-23-57, Cl. 220-55.
- True Temper Corp.: See—
Finch, Charles A. 2,792,182.
- Truitt, Joseph A.: See—
Ayers, Edward M., Jr., Beyers, Heffelfinger, and Truitt. 2,814,088.
- Trujillo, Patrick. Rotary fly container. 2,814,152, 11-26-57, Cl. 43-57.5.
- Trump, John G., to High Voltage Engineering Corp. Method and apparatus for sterilizing by electron bombardment. 2,785,313, 3-12-57, Cl. 250-49.5.
- Truninger, Paul: See—
Strauss, Manfred, and Truninger. 2,784,852.
- Truran, Charles. Garden tool. 2,791,879, 5-14-57, Cl. 56-400.05.
- Tru-Scale, Inc.: See—
Gustus, Edwin L., and Yaeger. 2,781,287.
- Trusler, Ralf B., to The Davies-Young Soap Co. Disinfecting and deodorizing compositions and method of using same. 2,789,078, 4-16-57, Cl. 167-33.
- Trust Somerset Inc.: See—
Gamache, Jean-Paul. Re. 24,316.
- Trutna, William R.: See—
Counts, James C., Nelson, and Trutna. 2,777,878.
- Truvox Ltd.: See—
Short, Konrad. 2,799,732.
- Truxal, Carl R.: See—
Brennan, James H., Truxal, and Ulrich. 2,805,873.
- Tryon, Henry B.: See—
Forry, Donald R., and Tryon. 2,815,624.
- Tsakalas, James. Roll paper dispenser with built-in deodorant container. 2,806,738, 9-17-57, Cl. 299-24.
- Tsao, Si-Ling. Line indicator and automatic bottom margin warning mechanism for a typewriter. 2,811,238, 10-29-57, Cl. 197-189.
- Tschanz, Louis, Comptoir de la Parfumerie S. A. See—
Grisel, Yvan V. 2,780,351.
- Tscharner, Althea N., ½ to L. P. Mulick. Picture cap. 2,803,829, 8-27-57, Cl. 2-199.
- Tschiegg, Carroll E.: See—
Greenspan, Martin, and Tschiegg. 2,796,522.
- Tschop, Harry E., J. E. Carter, and C. B. Goodrich, to The International Nickel Co., Inc. Method and apparatus for reducing metal oxides. 2,806,783, 9-17-57, Cl. 75-72.
- Tschudy, Donald B., to Goodyear Aircraft Corp. Dynamic lift airship. 2,778,585, 1-22-57, Cl. 244-30.
- Tschumy, De Leon. Ejecting device for collapsible tubes. 2,795,356, 6-11-57, Cl. 222-95.
- Tseng, Hung-tu, and Y. T. Miao. Push button three way switch. 2,790,858, 4-30-57, Cl. 200-5.
- Tseng, Hung-tu, and Y. T. Miao. Push button three way switch. 2,790,859, 4-30-57, Cl. 200-5.
- Tsuchiya, Henry M.: See—
Corman, Julian, and Tsuchiya. 2,776,925.
- Tsuchiya, Takuzo: See—
Long, George, and Tsuchiya. 2,817,284.
- Tsunoda, Makoto: See—
Hirano, Masao, and Tsunoda. 2,807,574.
- Tsuruta, Eichi: See—
Anazawa, Kenji, and Tsuruta. 2,777,756.
- Tubbs, Bernard H.: See—
Barber, Earnway A., Tubbs, Nagle, and Roche. 2,797,203.
- Tubbs, Howard A. Adapter for well casing. 2,793,699, 5-28-57, Cl. 166-75.
- Tubing Seal Cap, Inc.: See—
Livermont, Frank W. 2,781,016.
- Tucci, Morris L.: See—
Selbmann, Rudolf W., and Tucci. 2,801,377.
- Tuck, Albert C. Instruments for contouring bones. 2,807,264, 9-24-57, Cl. 128-303.
- Tuck, Harvey R.: See—
Wurtz, Clifford H., and Tuck. 2,810,266.
- Tuck, James L.: See—
Teng, Lee C., and Tuck. 2,812,463.
- Tucker, Arthur L. Load equalizing wheel mounting for compactors. 2,777,709, 1-15-57, Cl. 280-104.
- Tucker, Burl E. Vertical indicator. 2,787,838, 4-9-57, Cl. 33-174.
- Tucker, Carl L.: See—
Komroff, Paul, and Tucker. 2,793,510.
- Tucker, Charles D., to McCroskey Tool Corp. Turret tool posts. 2,817,260, 12-24-57, Cl. 82-36.
- Tucker, Clarence W., and C. W. Andersen, to The Rudolph Wurlitzer Co. Piano hammer felt press. 2,807,295, 9-24-57, Cl. 144-29.
- Tucker, Edwin W., J. H. Semark, and F. W. Langford, to Muirhead & Co. Ltd. Electrolytic cells. 2,810,007, 10-15-57, Cl. 136-88.
- Tucker, Elton B., to Standard Oil Co. Method for recovering platinum. 2,805,941, 9-10-57, Cl. 75-121.
- Tucker, Gardiner L.: See—
Hunter, Lloyd P., Rutz, and Tucker. 2,810,870.
- Tucker, George G., to Hubbard Spool Co. Anti-trapping traverse. 2,810,531, 10-22-57, Cl. 242-118.7.
- Tucker, Grahame E. R., H. Amsel, and O. L. Wright, to Magnoid (Bristol) Ltd., and Amsel Ltd. Means for printing a web. 2,800,076, 7-23-57, Cl. 101-134.5.
- Tucker, Harvey C.: See—
Robson, James T., and Tucker. 2,813,305.
- Tucker, Hazel B. Undergarment. 2,779,022, 1-29-57, Cl. 2-36.
- Tucker, Irving. Infants' and children's garments. 2,814,044, 11-26-57, Cl. 2-80.
- Tucker, Jean S.: See—
Schwartz, Harold H., and Tucker. 2,790,986.
- Tucker, Jesse D. Steam generator. 2,779,315, 1-29-57, Cl. 122-208.
- Tucker, Linwood G., Jr., to Koppers Co., Inc. Coke oven door with sealing diaphragm. 2,812,292, 11-5-57, Cl. 202-248.
- Tucker, Maurice L., 50% to D. S. Wade. Automatic braking trailer hitch. 2,779,443, 1-29-57, Cl. 188-112.
- Tucker, Nathaniel B.: See—
Huber, Wilson F., and Tucker. 2,812,324.
- Tucker, Oliver M.: See—
Blackburn, Andrew R., Tucker, and Steele. 2,810,234.
- Tucker, Robert G., to Combustion Engineering, Inc. Art of coal drying. 2,788,585, 4-16-57, Cl. 34-10.
- Tucker, Warren R., to Hannifin Corp. Fluid actuated cylinder having fluid cushion means. 2,786,452, 3-26-57, Cl. 121-38.
- Tucker, Warren R., to Hannifin Corp. Fluid pressure regulator. 2,789,574, 4-23-57, Cl. 137-116.5.
- Tucker, William B.: See—
Ames, Malcolm H., and Tucker. 2,809,828.
- Tucker, William M.: See—
Beuckman, Frank O., and Tucker. 2,801,213.
- Tucker, William M. Wheel brake cylinder assembly. 2,785,534, 3-19-57, Cl. 60-54.6.
- Tudbury, Chester A. High-frequency inductor arrangement. 2,788,425, 4-9-57, Cl. 219-10.3.
- Tudbury, Chester A. Induction heat-treating apparatus. 2,794,894, 6-4-57, Cl. 219-10.57.
- Tudbury, Chester A., and C. F. Schwan, to The Ohio Crankshaft Co. Surge protector for alternating-current power apparatus. 2,817,793, 12-24-57, Cl. 317-13.
- Tudge, Joseph, to Metropolitan-Vickers Electrical Co. Ltd. Dynamo electric machines. 2,787,721, 4-2-57, Cl. 310-61.
- Tuemmler, William B.: See—
Ingle, George W., and Tuemmler. 2,813,802.
- Tufford, Robert D., to Winpower Mfg. Co. Windrower having hay crushing means. 2,790,289, 4-30-57, Cl. 56-1.
- Tufford, Robert D., to Winpower Mfg. Co. Method of field curing forage crops. 2,790,290, 4-30-57, Cl. 56-1.
- Tufford, Robert D., to Winpower Mfg. Co. Tandem disc harrow. 2,800,757, 7-30-57, Cl. 55-83.

- Tufts, Guy O.: *See*—
Bornzin, James H., Currier, Francis, and Tufts. 2,787,949.
- Tufts, Ralph B., to Cornelius Printing Co. Composing device. 2,784,493, 3-12-57, Cl. 33—80.
- Tugend, Heinrich. Plier-type wrench. 2,800,823, 7-30-57, Cl. 81—370.
- Tull, Robert H., to Westinghouse Electric Corp. Food waste disposer. 2,794,602, 6-4-57, Cl. 241—32.5.
- Tull, Wesley W.: *See*—
Johnson, Lealand H., and Tull. 2,785,460.
- Tullis, James L. Platelet preservation. 2,786,014, 3-19-57, Cl. 167—78.
- Tullis, Lyell C.: *See*—
Baker, John G., and Tullis. 2,791,453.
- Tullis, Samuel E., and W. E. Ehlers, Jr. Mobile heating and drying unit. 2,810,060, 10-15-57, Cl. 219—39.
- Tullock, Charles W., to E. I. du Pont de Nemours and Co. Cyanoformyl fluoride and process therefor. 2,816,131, 12-10-57, Cl. 260—465.7.
- Tully, John N.: *See*—
Winter, Charles H., Jr., and Tully. 2,778,726.
- Tuma, Frank J. Window cleaning device. 2,787,501, 4-2-57, Cl. 299—97.
- Tumas, John. Baby bath tub safety device. 2,788,055, 4-9-57, Cl. 155—36.5.
- Tumison, Eugene D. Oil and gas separator for wells. 2,810,352, 10-22-57, Cl. 103—203.
- Tummers, Leonard J.: *See*—
Van Donkersgoed, Gerrit, and Tummers. 2,789,257.
- Tummes, Hans: *See*—
Feichtinger, Hans, Tummes, and Puschhof. 2,783,198.
Roelen, Otto, Büchner, Feichtinger, Meis, and Tummes. 2,817,673.
- Tummes, Hans, to Ruhrchemie Aktiengesellschaft. Production of 2-mercaptop-6-methyl-pentiazoline. 2,783,229, 2-26-57, Cl. 260—243.
- Tunberg, Gustav V., A. O. Jörgensen, A. Parschin, and E. E. T. Edman, to Telefonaktiebolaget L M Ericsson. Device for bending contact springs. 2,781,817, 2-19-57, Cl. 153—48.
- Tunder, Siegfried, to Gesellschaft für Huttenwerksanlagen m. b. H. Method of producing steel in the Siemens-Martin furnace using pre-metal melted in the cupola furnace. 2,786,749, 3-26-57, Cl. 75—46.
- Tung, Chine C.: *See*—
Harris, James O., and Tung. 2,794,020.
- Tung-Sol Electric Inc.: *See*—
Atkins, Carl E. 2,777,097.
Atkins, Carl E. 2,798,964.
Lehrer, Norman H. 2,811,660.
Shamos, Morris H. 2,817,768.
Stoltey, Albert W. 2,796,490.
- Tunkel, Steven J.: *See*—
Eck, John C., and Tunkel. 2,783,271.
Eck, John C., and Tunkel. 2,786,739.
- Tunkis, Lee J.: *See*—
Kimbrow, Albert M., and Tunkis. 2,779,602.
- Tunney, John J. Attachment for beds, particularly hospital beds. 2,807,032, 9-24-57, Cl. 5—317.
- Tunt, Charles E. Cooling and serving system. 2,788,649, 4-16-57, Cl. 62—141.
- Tuomala, Leon A., ½ to D. J. Stefani and ½ to R. I. Process of making a lamp shade. 2,813,053, 11-12-57, Cl. 154—110.
- Tupper, Earl S. Double-walled tumbler and seal. 2,776,691, 1-8-57, Cl. 150—0.5.
- Tupper, Earl S. Bread server. 2,780,385, 2-5-57, Cl. 220—43.
- Tupper, Earl S. Bowl and cover. 2,789,607, 4-23-57, Cl. 150—0.5.
- Tupper, Earl S. Wedge type of container and cover. 2,789,608, 4-23-57, Cl. 150—0.5.
- Tupper, Earl S. Apertured container cover and attachment. 2,796,062, 6-18-57, Cl. 128—252.
- Tupper, Earl S. Record container. 2,796,190, 6-18-57, Cl. 220—31.
- Tupper, Earl S. Measuring and scooping cylinder. 2,799,086, 7-16-57, Cl. 30—142.
- Tupper, Earl S. Adapter cover. 2,802,499, 8-13-57, Cl. 150—0.5.
- Tupper, Earl S. Waste can compound cover and parts. 2,802,590, 8-13-57, Cl. 220—23.
- Tupper, Earl S. Tooth brush container and cover. 2,815,057, 12-3-57, Cl. 150—0.5.
- Tupper, Earl S. Sipper seal for fluid-filled vessels. 2,816,548, 12-17-57, Cl. 128—252.
- Tupper, Earl S. Salad bowl. 2,816,589, 12-17-57, Cl. 150—0.5.
- Tupper, Myron D.: *See*—
Carlson, Morris W., and Tupper. 2,802,076.
- Turak, Anthony. Dispensing valve with individual flow-rate control. 2,792,018, 5-14-57, Cl. 137—604.
- Turano, Joseph J.: *See*—
Cohen, Nathaniel L., and Turano. 2,801,149.
- Turano, Joseph J., to Air Associates, Inc. Facsimile recorder. 2,785,943, 3-19-57, Cl. 346—101.
- Turbett, Forrest L., to Spencer Chemical Co. Preparation of phosphate fertilizer and animal feed supplement. 2,776,198, 1-1-57, Cl. 71—36.
- Turbine Equipment Co.: *See*—
Hynes, Lee P. 2,790,889.
- Turchan, Manuel. Metering and shutoff valve. 2,784,739, 3-12-57, Cl. 137—614.18.
- Turchan, Manuel. Two and three dimension tracer. 2,787,437, 4-2-57, Cl. 251—3.
- Turchetti, Anthony J.: *See*—
Melita, Sebastiano. 2,800,843.
- Turco Products, Inc.: *See*—
Hirdler, Fairbanks C., Jr. 2,801,909.
Langsfeld, William P. 2,802,726.
Newman, Kenneth W., Atkins, and Douglas. 2,795,490.
Newman, Kenneth W., Atkins, and Douglas. 2,795,491.
Perry, Frank R. 2,778,233.
Wilkins, Marion D., and Smith. 2,796,184.
- Turinetti, Henri: *See*—
Marchal, Raymond H., Maunoury, Turinetti, Kadosch, and Bertin. 2,797,548.
Meulein, Henri L. P., Bauger, and Turinetti. 2,797,547.
- Turing, Alan M., D. W. Davies, and M. Woodger, to National Research Development Corp. Data storage transfer means for a digital computer. 2,799,449, 7-16-57, Cl. 235—61.
- Turisch, Joseph A., to Columbia-Southern Chemical Corp. Novel compositions and their use. 2,788,268, 4-9-57, Cl. 71—2.6.
- Turk, Stanley D.: *See*—
Mahan, John E., and Turk. 2,779,767.
- Turkel, David H.: *See*—
Shotsky, Nathan. Re. 24,305.
Shotsky, Nathan. 2,813,501.
- Turkot, Victor A., R. K. Eskew, and N. C. Aceto, to the United States of America as represented by the Secretary of Agriculture. Process for making full-flavored powdered fruit juice. 2,816,840, 12-17-57, Cl. 99—206.
- Turlay, Joseph D.: *See*—
Glennon, James B., Van Atta, and Turlay. 2,789,503.
- Turlay, Joseph D. Mine firing control device. 2,781,723, 2-19-57, Cl. 102—16.
- Turnbow, J. W. Carrying case for saws. 2,788,889, 4-16-57, Cl. 206—16.
- Turnbull, John C., and L. W. Morgan, to Radio Corp. of America. Induction heating device. 2,814,707, 11-26-57, Cl. 219—10.33.
- Turnbull, John S., and R. G. Nicholas, to Metropolitan-Vickers Electrical Co. Ltd. Method of making a mold by the lost-wax process. 2,815,552, 12-10-57, Cl. 22—196.
- Turnbull, Norris: *See*—
Bristol, John E., Czerwin, and Turnbull. 2,782,173.
- Turner, Andrew C., and I. V. Foster. Excavating machine. 2,797,504, 7-2-57, Cl. 37—90.
- Turner, Arthur A. Portable clothes drier. 2,793,444, 5-28-57, Cl. 34—133.
- Turner Brass Works, The: *See*—
Mitchell, Harry A. 2,809,101.
- Turner Brothers Asbestos Co. Ltd.: *See*—
Hindle, Frank. 2,799,916.
- Turner, Calvin L.: *See*—
Jenkins, Cecil, and Turner. 2,787,342.
Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,339.
Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,787,344.
Woolslayer, Homer J., Jenkins, Turner, and Campbell. 2,804,949.
- Turner, Charles A., Jr., to Selas Corp. of America. Apparatus for heat treating strip material. 2,794,630, 6-4-57, Cl. 266—3.
- Turner, Charles L., ½ to M. C. Turner. Lawnmower sharpener. 2,780,034, 2-5-57, Cl. 51—48.
- Turner, Charles R., to Proctor Electric Co. Control apparatus for surface cooking units. 2,817,741, 12-24-57, Cl. 219—20.
- Turner, Charles T., and O. L. Appler, to Flynn & Emrich Co. Constant full mesh gearing. 2,782,653, 2-26-57, Cl. 74—392.
- Turner, Clarence P.: *See*—
Peebles, David D., and Turner. 2,814,527.
- Turner, Dent H. Multiple section straight knitting machines. 2,805,562, 9-10-57, Cl. 66—82.
- Turner, Donald C. Pneumatic bellows. 2,816,703, 12-17-57, Cl. 230—165.
- Turner, Edgar P., to The Singer Mfg. Co. Ventilating devices. 2,802,409, 8-13-57, Cl. 98—116.
- Turner, Edgar P., to The Singer Mfg. Co. Actuating mechanisms for electric clutch-brake motors. 2,809,308, 10-8-57, Cl. 310—76.
- Turner Electric Corp.: *See*—
Turner, John L., and Krummel. 2,779,830.
- Turner, Eugene L., and E. W. Seufert, to General Motors Corp. Process and gas for inert gas shielded arc welding. 2,788,429, 4-9-57, Cl. 219—74.
- Turner, Eugene L., and J. R. O'Dwyer, to Bell Aircraft Corp. Convertible aircraft. 2,814,451, 11-26-57, Cl. 244—7.
- Turner, Frank T., to The Western Union Telegraph Co. Transistorized keying and mark-hold unit. 2,794,856, 6-4-57, Cl. 178—70.
- Turner, Frank T., to The Western Union Telegraph Co. Motor stabilizer. 2,803,792, 8-20-57, Cl. 318—175.

- Turner, Fred. Artificial fishing lure. 2,796,694, 6-25-57, Cl. 43—42.12.
- Turner, Frederick J. L.: *See*—
Salmon, Reginald D., and Turner. 2,818,116.
- Turner, George K. Cattle chute. 2,804,046, 8-27-57, Cl. 119—99.
- Turner, Gilbert M.: *See*—
Pyle, Cyrus, and Turner. 2,777,807.
- Turner Hall Corp.: *See*—
Schwarz, Milton H., and Orgel. 2,780,579.
- Turner, Harlowe B. Speed limiting accelerator pedal. 2,803,971, 8-27-57, Cl. 74—526.
- Turner, Harrison I. Portable concrete farrowing house. 2,782,758, 2-26-57, Cl. 119—19.
- Turner, Ilse F. and R. E. Floating holder for blankets. 2,779,985, 2-5-57, Cl. 24—72.5.
- Turner, James F., and C. P. Breidenbaugh, deceased (by L. M. Breidenbaugh, executrix), to Flynn & Emrich Co. Refuse burning furnace. 2,777,406, 1-15-57, Cl. 110—8.
- Turner, James H. Collapsible frame for a shelter. 2,788,011, 4-9-57, Cl. 135—4.
- Turner, James R., to the United States of America as represented by the Secretary of the Army. Booster conditioner. 2,817,951, 12-31-57, Cl. 60—35.6.
- Turner, John, to Koppers Co., Inc. Dust filter. 2,788,860, 4-16-57, Cl. 183—62.
- Turner, John H. W., L. R. Anthony, and P. L. Bramwyche, to The Distillers Co. Ltd. Oil soluble phenol-formaldehyde resin. 2,809,178, 10-8-57, Cl. 260—19.
- Turner, John H. W., L. R. Anthony, and P. L. Bramwyche, to The Distillers Co. Ltd. Oil soluble phenol-aldehyde resins. 2,809,181, 10-8-57, Cl. 260—43.
- Turner, John L.: *See*—
Derby, Palmer P., Turner, and Downing. 2,814,761.
- Turner, John L., and F. J. Krummel, to Turner Electric Corp. High voltage switch. 2,779,880, 1-29-57, Cl. 200—48.
- Turner, Jonathan, to Turner Mfg. Co. Ornamented mirrors and method of making same. 2,807,111, 9-24-57, Cl. 41—22.
- Turner, Luther B.: *See*—
Welch, Lester M., Wilson, and Turner. 2,781,334.
- Turner Mfg. Co.: *See*—
Turner, Jonathan. 2,807,111.
- Turner, Marion M. Fruit slice holder and juice squeezer. 2,789,496, 4-23-57, Cl. 100—211.
- Turner, Marion W. Bobber with reel and brake therefor. 2,799,114, 7-16-57, Cl. 43—43.11.
- Turner, Marion W. Bobber with float controlled line. 2,807,115, 9-24-57, Cl. 43—43.11.
- Turner, Marjory C.: *See*—
Turner, Charles L. 2,780,034.
- Turner, Martin F. Ball return terminal units. 2,788,972, 4-16-57, Cl. 273—47.
- Turner, Martin F. Ball storage rack. 2,796,261, 6-18-57, Cl. 273—49.
- Turner, Nelson C., to Hudson Engineering Corp. Gas dehydration apparatus and process. 2,815,089, 12-3-57, Cl. 183—4.7.
- Turner, Oliver E. Portable self-contained electronic stethoscope. 2,777,903, 1-15-57, Cl. 179—107.
- Turner, Ralph M. Kitchen appliances. 2,786,502, 3-26-57, Cl. 146—43.
- Turner, Richard: *See*—
Herbert, Alfred E., Woods, and Turner. 2,811,317.
- Turner, Richard G., to Crompton & Knowles Loom Works. Shuttle for narrow ware loom. 2,781,795, 2-19-57, Cl. 139—371.
- Turner, Richard L. Foldable stereoscope device for viewing stereoscopic transparencies and prints. 2,794,367, 6-4-57, Cl. 88—29.
- Turner, Robert E.: *See*—
Turner, Ilse F. and R. E. 2,779,985.
- Turner, Robert S. Removable carrier box for an automobile trunk. 2,795,363, 6-11-57, Cl. 224—42.43.
- Turner, Roy: *See*—
Thornes, Leslie, Sr., Turner, and Hyde. 2,781,322.
- Turner, Russell: *See*—
Wobermin, Theodore H. 2,793,487.
- Turner, Tom G., to The Standard Register Co. Strip feeding device. 2,809,829, 10-15-57, Cl. 271—2.3.
- Turner, William. Vise jaw having reversible work-engaging plate. 2,792,731, 5-21-57, Cl. 81—38.
- Turner, William J., Jr., and R. H. Raymond, to Rayturn Machine Corp. Soil moisture testing apparatus. 2,793,527, 5-28-57, Cl. 73—73.
- Turney, Arthur C., and B. J. Zubrzycki, to F. L. Smidth & Co. Indirect heat calcining kiln. 2,782,019, 2-19-57, Cl. 263—21.
- Turney, Eric J., to General Motors Corp. Vehicle direction indicator systems. 2,803,811, 8-20-57, Cl. 340—80.
- Turnham, Fitzhugh H., to USCO Power Equipment Corp. Heavy duty hook stick pry-out and switch blade structure. 2,803,727, 8-20-57, Cl. 200—162.
- Turnquist, Edwin W., and R. L. Wilson, to J. E. Mabree. Adjustable pressure plate assembly for multiple disc friction clutches. 2,776,031, 1-1-57, Cl. 192—48.
- Turns, Mildred B.: *See*—
Brown, Charles H. 2,783,557.
Brown, Charles H. 2,783,560.
- Turola Parachute Corp.: *See*—
Turola, Pino G. 2,784,927.
- Turola, Pino G., to Turola Parachute Corp. Controllable parachute canopy. 2,784,927, 3-12-57, Cl. 244—152.
- Turowski, Johannes: *See*—
Lang, Karl F., Damm, and Turowski. 2,790,017.
- Turpin, Alexander J.: *See*—
Parker, Melvin J., and Turpin. 2,796,118.
- Turpin, Alexander J., to Hauck Mfg. Co. Pump. 2,790,597, 4-30-57, Cl. 103—172.
- Turpin, Frank G., to Esso Research and Engineering Co. Control of temperature gradient in transfer line reactor. 2,813,140, 11-12-57, Cl. 260—683.
- Turpin, Geoffrey E., to The Steel Co. of Wales Ltd. Means for atomizing liquids, particularly for lubricating sheet metal during rolling. 2,778,616, 1-22-57, Cl. 261—14.
- Turpin, Jacques, to Preparation Industrielle des Combustibles. Process for separating by size and specific gravity solid materials in suspension in a fluid. 2,804,206, 8-27-57, Cl. 209—211.
- Turpin, Raphael M., and M. A. Leger. Portable electric megaphone. 2,808,458, 10-1-57, Cl. 179—1.
- Turse, Emanuel P., and R. T. Hukill. Visual indicating micrometer. 2,806,292, 9-17-57, Cl. 33—164.
- Tursich, Joseph A., to Columbia-Southern Chemical Corp. Dialkoxypiphenylene bis-(o-alkyl carbamate). 2,789,128, 4-16-57, Cl. 260—471.
- Turteltaub, Bernard. Awning construction. 2,795,826, 6-18-57, Cl. 20—57.5.
- Turunen, William A., P. W. O'Connell, and D. O. Nichols, Jr., to General Motors Corp. Turbine blade cooling system. 2,812,157, 11-5-57, Cl. 253—39.15.
- Turzillo, Lee, and K. McKinzie, to Intusion-Prepakt, Inc. Continuous grout strainer. 2,779,575, 1-29-57, Cl. 259—152.
- Turzillo, Leo: *See*—
Wertz, Louis S., and Turzillo. 2,782,605.
- Tushas, Franz R.: *See*—
Petersilie, Hans H., and Zimmermann. 2,812,570.
- Tushinsky, Irving P.: *See*—
Tushinsky, Joseph S. and I. P. 2,816,480.
- Tushinsky, Joseph S. and I. P., to Superscope, Inc. Prism type anamorphoscopic device. 2,816,480, 12-17-57, Cl. 88—57.
- Tuskegee Institute: *See*—
Cason, Louis F., and Rhone. 2,789,122.
- Tuso, Nicholas, Jr. Shiftable fifth-wheel mounting for tractor-trailers. 2,807,477, 9-24-57, Cl. 280—407.
- Tuthill Pump Co.: *See*—
Bangs, Walter J. 2,781,726.
- Tuttle, Anthony J. Adjustable sine plate. 2,807,884, 10-1-57, Cl. 33—174.
- Tutt, Ralph M.: *See*—
Zevly, Edward A., and Tutt. 2,814,864.
- Tutt, Robert P. Apparatus for distributing pulverized material. 2,799,965, 7-23-57, Cl. 43—148.
- Tuttle, Charles D., and G. T. Larsen, to General Motors Corp. Electrostatic spray painting apparatus. 2,805,642, 9-10-57, Cl. 118—635.
- Tuttle, Daniel V., to Tuttle Electric Products, Inc. Electric heater element. 2,799,761, 7-16-57, Cl. 219—19.
- Tuttle, Daniel V., to Tuttle Electric Products, Inc. Electric heating unit. 2,799,766, 7-16-57, Cl. 219—37.
- Tuttle, Daniel V., to Tuttle & Kift, Inc. Magnetic heater unit. 2,804,535, 8-27-57, Cl. 219—43.
- Tuttle, Daniel V., to Tuttle & Kift, Inc. Combination pre-cook timer and controller timer. 2,811,626, 10-29-57, Cl. 219—20.
- Tuttle, Daniel V., to Tuttle & Kift, Inc. Combination controller and timer. 2,813,161, 11-12-57, Cl. 200—38.
- Tuttle, Edgar A. Tool for handling spring clips. 2,796,661, 6-25-57, Cl. 29—235.
- Tuttle Electric Products, Inc.: *See*—
Tuttle, Daniel V. 2,799,761.
Tuttle, Daniel V. 2,799,766.
- Tuttle, Eugene F. Manipulator. 2,777,439, 1-15-57, Cl. 128—25.
- Tuttle, John N., to Rhinelander Paper Co. Automatic dispensing device. 2,795,353, 6-11-57, Cl. 221—46.
- Tuttle & Kift, Inc.: *See*—
Ewald, Fred J. 2,795,681.
Tuttle, Daniel V. 2,804,535.
Tuttle, Daniel V. 2,811,626.
Tuttle, Daniel V. 2,813,161.
- Tuttle, Orvil S., to Honeycomb Structures Co., Inc. Apparatus for applying a coating to sheet material. 2,788,051, 4-9-57, Cl. 154—1.
- Tutwiler, Frank H. Lens holders for photographic projector enlargers. 2,777,358, 1-15-57, Cl. 88—24.
- Tutwiler, Thomas S., to Esso Research and Engineering Co. Viscosity index improvers. 2,782,167, 2-19-57, Cl. 252—52.
- Tutwiler, Thomas S., W. C. Hollyday, Jr., J. F. Black, and H. R. Ertelt, to Esso Research and Engineering Co. Gamma ray polymerization of unsaturated nitrogen compounds. 2,803,599, 8-20-57, Cl. 204—158.

- Tuwiner, Sidney B., to Phelps Dodge Corp. Electrowinning of copper. 2,792,342, 5-14-57, Cl. 204-108.
- Tuzi, Ziro. Indicator of the interferometer type for indicating the composition of gases. 2,795,991, 6-18-57, Cl. 88-14.
- Tuzicka, Charles G. Chalk line holder for use in brick laying. 2,800,719, 7-30-57, Cl. 33-85.
- Tveter, Elmer C., and J. C. Lokken, to The Dow Chemical Co. Flotation of iron oxide and other non-sulfide minerals. 2,797,808, 7-2-57, Cl. 209-166.
- Tvorik, Stephen W., and A. Braunitzer. Dry wall tape. 2,814,080, 11-26-57, Cl. 20-92.
- Twaddle, Warren W., A. A. Harban, and V. W. Arnold, to Standard Oil Co. Direct production of polystyrene from petroleum by-product ethylbenzene. 2,813,089, 11-12-57, Cl. 260-93.5.
- Twaddle, Warren W., D. E. Burney, and H. P. Liao, to Standard Oil Co. Selective dehydrogenation of ethylbenzene from xylene solution for direct production of polystyrene. 2,813,137, 11-12-57, Cl. 260-669.
- Twamley, William B., to Brown & Sharpe Mfg. Co. Tool holder. 2,780,857, 7-12-57, Cl. 29-96.
- Twamley, William B., to Brown & Sharpe Mfg. Co. Step drilling turret indexing and feeding mechanism. 2,791,135, 5-7-57, Cl. 77-32.3.
- Twamley, William B., and S. T. Gotham, to Brown & Sharpe Mfg. Co. Driving mechanism for a screw machine. 2,813,445, 11-19-57, Cl. 82-21.
- Tweedale, Ralph L., to Vickers Inc. Motor-pump drive for vehicle fan. 2,777,287, 1-15-57, Cl. 60-12.
- Tweedale, Ralph L., and E. F. Klessig, to Vickers Inc. Power transmission. 2,800,083, 7-23-57, Cl. 103-42.
- Tweedle, Hayes. Attachment for spring-type clothespin. 2,782,480, 2-26-57, Cl. 24-137.
- Twedy, James W., to Redmond Co., Inc. Direct drive blower. 2,793,659, 7-9-57, Cl. 230-117.
- Twedy, James W., to Redmond Co., Inc. Bearing mount construction for electric motor or the like. 2,802,704, 8-13-57, Cl. 308-132.
- Twedy, James W., to Redmond Co., Inc. Electric motor field construction. 2,810,847, 10-22-57, Cl. 310-254.
- Twedy, James W., to Redmond Co., Inc. Unitary motor and pump structure. 2,816,506, 12-17-57, Cl. 103-6.
- Twedy, James W., and T. Ginther, to Redmond Co., Inc. Stator construction for a capacitor motor or the like. 2,802,123, 8-6-57, Cl. 310-198.
- Twells, Robert, and F. C. Arrance. Glass seal for spark plug electrode assembly. 2,806,971, 9-17-57, Cl. 313-136.
- 1250 West 80th Street Corp. *See*—Schenkelsberger, Frank J. 2,807,382.
- Twentieth Century Fox Film Corp. *See*—Hurd, Yorick G., and Whitmore. 2,800,097.
- Twenty-Five Associates, Inc. *See*—Clark, Edmund G., and Holmberg. 2,814,480.
Clark, Edmund G., and Holmberg. 2,814,501.
Clark, Edmund G., and Holmberg. 2,814,502.
- "21" Brands, Inc. *See*—Clare, Paul P. 2,801,066.
- Twieg, George W. *See*—Poarch, Arthur, and Twieg. 2,809,893.
Poarch, Arthur E., and Twieg. 2,809,894.
- Twigg, Lester A., Jr., to the United States of America as represented by the Secretary of the Navy. Shield and tube clamp for subminiature tubes. 2,816,948, 12-17-57, Cl. 174-35.
- Twin Coach Co. *See*—Fageol, Louis J. 2,791,826.
Fageol, Louis J. 2,808,733.
- Twining, Homer L. Fibrous sealing composition for porous formations and method for making the same. 2,793,995, 5-28-57, Cl. 252-8.5.
- Twiss, Alvie. Metal legging. 2,779,108, 1-29-57, Cl. 36-2.
- Twitchen, Henry *See*—Danvers, Ellis, and Twitchen. 2,781,856.
- Two, Joseph A., 1/4 to F. W. Gaffney, 1/4 to C. J. McCue, and 1/4 to C. B. Paden. Motor vehicle hydraulic brake with booster attachment. 2,804,946, 9-3-57, Cl. 188-152.
- Twohig, Frank *See*—Frain, John P., and Twohig. 2,793,656.
- Twomey, Lee S. Manipulation of nitrogen-contaminated natural gases. 2,812,646, 11-12-57, Cl. 62-175.5.
- Tydings, William O. Interchangeable pan holder. 2,810,601, 10-22-57, Cl. 294-33.
- Tydon, Walter, to Fairchild Engine and Airplane Corp. Cargo vehicle body with foldable doors for imparting a streamlined shape to the body. 2,781,226, 2-12-57, Cl. 296-28.
- Tykulsky, Alexander, to Ohmega Laboratories. Ultra-sweep oscillator. 2,779,873, 1-29-57, Cl. 250-36.
- Tykwinski, Leonard. Metal boat seam. 2,778,035, 1-22-57, Cl. 9-6.
- Tylajka, František *See*—Václavík, Jaroslav, and Tylajka. 2,789,423.
- Tyler, Arthur, to Bulpitt and Sons Ltd. Electrically heated appliances. 2,786,123, 3-19-57, Cl. 219-20.
- Tyler, Arthur W., C. J. Hughey, and W. C. Thomas, to Eastman Kodak Co. Sorting device for information bearing elements. 2,795,328, 6-11-57, Cl. 209-73.
- Tyler, Hugh J. *See*—Weber, Victor, Tyler, and Russell. 2,786,930.
- Tyler, Hugh J., to Westinghouse Electric Corp. Indicating light and test circuit. 2,780,801, 2-5-57, Cl. 340-214.
- Tyler, Ransom, to The Oilgear Co. Hydraulic transmission. 2,807,140, 9-24-57, Cl. 60-53.
- Tyler, Squire D., to Eaton Mfg. Co. Casting machine. 2,790,217, 4-30-57, Cl. 22-90.
- Tyler, Vern A. Hoist. 2,794,425, 6-4-57, Cl. 121-46.
- Tym, Michael. Freezer room repairing method. 2,793,963, 5-28-57, Cl. 117-2.
- Tyminski, Walter V. *See*—Hylas, Albert E., and Tyminski. 2,788,495.
Hylas, Albert E., and Tyminski. 2,790,035.
- Tyminski, Walter V., and A. E. Hylas, to Allen B. Du Mont Laboratories, Inc. Electrical tuning device. 2,786,142, 3-19-57, Cl. 250-40.
- Tyran, Leo W., to E. I. du Pont de Nemours and Co. Process and catalyst for the preparation of furan from furfural. 2,776,981, 1-8-57, Cl. 260-346.1.
- Tyree, Andrew T., to Modern Metal Craftsmen, Inc. Wall and stud construction. 2,792,086, 5-14-57, Cl. 189-34.
- Tyree, Joseph T. *See*—Novak, Leo J., and Tyree. 2,786,786.
- Tyrell, Arthur J., to North American Philips Co., Inc. Magnetic system. 2,786,971, 3-26-57, Cl. 317-201.
- Tyrer, Ray, and A. H. Henshall, to Wilmot-Breeden Ltd. Door fastening. 2,811,383, 10-29-57, Cl. 292-341.12.
- Tyroler, Elsie. Combined dress shield and shoulder pad. 2,808,589, 10-8-57, Cl. 2-54.
- Tyrone, Felix A. *See*—Wedlick, Frank V., and Tyrone. 2,818,112.
- Tyrrill, Bruce W. *See*—Fetwrell, George E., and Tyrrill. 2,780,906.
- Tyrseck, Walter J., to Robertson Paper Box Co. Inc. Folding paper tray. 2,782,979, 2-26-57, Cl. 229-32.
- Tysinger, Joseph L., to The F. & M. Schaefer Brewing Co. Keg stripping device. 2,808,806, 10-8-57, Cl. 118-219.
- Tyska, Chester. Electrical curb parking signal for automobiles. 2,786,910, 3-26-57, Cl. 200-61.44.
- Tyson, Charles W. *See*—Hemminger, Charles E., and Tyson. 2,780,661.
- Tyson, Harry D., to the United States of America as represented by the Secretary of the Army. Detonating cable. 2,812,710, 11-12-57, Cl. 102-8.
- Tyson, Owen A., to Hughes Aircraft Co. Phase measuring system. 2,813,250, 11-12-57, Cl. 324-58.
- Tyszkiewicz, Stefan E. Electric system for controlling a machine or apparatus adapted to perform a plurality of functions. 2,810,017, 10-15-57, Cl. 179-6.
- Tyus, Billy B. *See*—Wright, James C., and Tyus. 2,795,860.
- Tyzack, Harold, to Carter Parts Co. Pressure switch. 2,813,944, 11-19-57, Cl. 200-83.
- U. B. I. S. p. A. Utilizzo Brevetti Industriali *See*—Menon, Luigi. 2,785,851.
- UCLAF *See*—Amiard, Gaston, Heymès, and Velluz. 2,797,226.
Amiard, Gaston, Heymès, and Velluz. 2,797,240.
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- USCO Power Equipment Corp. *See*—Gilliland, William H. 2,803,726.
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- Uarco, Inc. *See*—Euth, John E. 2,776,834.
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Lach, John. 2,776,832.
Reuter, Clarence J. 2,790,593.
Winter, Charles L., and Euth. 2,788,108.
- Ubbelohde, Alfred R. J. P., to National Research Development Corp. Electrical semi-conductors comprising organo metallic compounds and process of producing same. 2,800,559, 7-23-57, Cl. 201-63.
- Uehrin, George C., and W. O. Taylor, to the United States of America as represented by the Secretary of the Army. Transistor oscillator. 2,813,976, 11-19-57, Cl. 250-36.
- Udal, John D. Means for transferring work pieces to or from a cutting or shaping press. 2,811,266, 10-29-57, Cl. 214-147.
- Udale, Stanley M., to Holley Carburetor Co. Carburetor. 2,777,678, 1-15-57, Cl. 261-41.
- Udale, Stanley M., to Holley Carburetor Co. Fuel pump. 2,787,224, 4-2-57, Cl. 103-126.
- Ude, Hans L. P., to Schiess Aktiengesellschaft. Roller arrangement for drafting systems of spinning machines. 2,780,840, 2-12-57, Cl. 19-131.
- Uden, Allen R. Header drive assembly for combines. 2,777,269, 1-15-57, Cl. 56-21.
- Udry, John J. *See*—Selberg, John P., and Udry. 2,800,301.
Selberg, John P., Udry, and Rudy. 2,806,672.

- Udry, John J., to Borg-Warner Corp. Well perforator. 2,782,715, 2-26-57, Cl. 102-20.
- Udy, Marvin J., to Strategic-Udy Metallurgical & Chemical Processes Ltd. Phosphorus recovery. 2,800,396, 7-23-57, Cl. 23-223.
- Udy, Marvin J., to Strategic-Udy Metallurgical & Chemical Processes Ltd. Process and apparatus for the production of metallic carbides and metallic silicides. 2,801,156, 7-30-57, Cl. 23-208.
- Udy, Marvin J., to Strategic-Udy Metallurgical & Chemical Processes Ltd. Process for obtaining iron from material containing iron oxides. 2,805,929, 9-10-57, Cl. 75-11.
- Udy, Marvin J., to Strategic-Udy Metallurgical & Chemical Processes Ltd. Process of producing iron from iron-oxide material. 2,805,930, 9-10-57, Cl. 75-11.
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- Udylite Corp., The: *See*—
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- Udylite Research Corp., The: *See*—
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- Ueberwasser, Hellmut, to Ciba Pharmaceutical Products, Inc. Indene and indane compounds and their production. 2,798,888, 7-9-57, Cl. 260-570.8.
- Uecker, Otto E., to A. O. Smith Corp. Flash welding assembly and method. 2,794,244, 6-4-57, Cl. 29-481.
- Ueda, Kazuo: *See*—
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- Uffer, Andrea: *See*—
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- Ugartecha, Enrique, $\frac{1}{2}$ to R. Ugartechea. Wrist and forearm exerciser. 2,782,033, 2-19-57, Cl. 272-67.
- Ugartecha, Rolando: *See*—
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- Uhde, Friedrich, G. m. b. H.: *See*—
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- Uher, Edmond. Wedge-shaped belt variable drive. 2,795,962, 6-18-57, Cl. 74-230.17.
- Uher, Joseph F.: *See*—
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- Uhing, Eugene H., and L. L. McKinney, to the United States of America as represented by the Secretary of Agriculture. Carboxymethyl protein as a stabilizer for a butadiene-styrene latex emulsion paint. 2,788,336, 4-9-57, Cl. 260-8.
- Uhl, Arthur W.: *See*—
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- Uhland, Homer, to International Minerals & Chemical Corp. Method and apparatus for cutting cores. 2,783,969, 3-5-57, Cl. 255-1.8.
- Uhland, Homer E., to International Minerals & Chemical Corp. Process for recovery of phosphate minerals. 2,812,858, 11-12-57, Cl. 209-166.
- Uhleen, Arthur E., to Enamelstrip Corp. Apparatus for coating metallic strips. 2,784,697, 3-12-57, Cl. 118-411.
- Uhlenbrook, Kurt R.: *See*—
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- Uhlenhaut, Rudolf E., to Daimler-Benz Aktiengesellschaft. Motor vehicle body in framework construction, especially for sport cars. 2,797,954, 7-2-57, Cl. 296-28.
- Uhlenhaut, Rudolf E., A. F. Rothweiler, and E. F. K. Wengert, to Daimler-Benz Aktiengesellschaft. Electrical control device for motor vehicles. 2,790,864, 4-30-57, Cl. 200-61.38.
- Uhlenhaut, Rudolf E., and L. Kraus, to Daimler-Benz Aktiengesellschaft. Individual suspension for rear drive wheels. 2,811,214, 10-29-57, Cl. 180-73.
- Uhlenhaut, Rudolf E., J. Müller, and H. O. Scherenberg, to Daimler-Benz Aktiengesellschaft. Axle suspension system for motor vehicles. 2,818,128, 12-31-57, Cl. 180-73.
- Uhlenkott, Arthur W.: *See*—
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- Uhler, Wilmer P., to The S. S. White Dental Mfg. Co. Holder for rotatable tools. 2,813,337, 11-19-57, Cl. 32-27.
- Uhler, Wilmer P., to S. S. White Dental Mfg. Co. Valve stem seal. 2,817,545, 12-24-57, Cl. 286-11.12.
- Uhlmann, Wolfram E. M.: *See*—
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- Ulrich, Leander. Device for emptying milk bottles and the like by the case. 2,781,929, 2-19-57, Cl. 214-314.
- Ulrich, Morris B., and K. F. Miller, to Link-Belt Co. Booster drive. 2,798,592, 7-9-57, Cl. 198-203.
- Uhrin, John. Clothes hook. 2,797,059, 6-25-57, Cl. 248-290.
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- Ujike, Osamu, and N. Sato, to T. Yoshida. Method for eliminating the explosive reaction in a thermit process. 2,778,723, 1-22-57, Cl. 75-27.
- U-Kart, Inc.: *See*—
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- Ulanovsky, Jack M.: *See*—
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- Ulfers, Heinz, to Zeiss Ikon A. G. Illuminating system for picture projectors. 2,803,163, 8-20-57, Cl. 88-24.
- Ulfers, Heinz, to Zeiss Ikon A. G. Projection high pressure arc lamp devices. 2,810,321, 10-22-57, Cl. 88-24.
- Ulfers, Heinz, to Zeiss Ikon A. G. Stuttgart. Optical arrangement for projector lamps. 2,817,997, 12-31-57, Cl. 88-24.
- Uliniski, Bronislaus I., to The Yale & Towne Mfg. Co. Lift truck. 2,788,863, 4-16-57, Cl. 187-9.
- Uliniski, Bronislaus I., to The Yale & Towne Mfg. Co. Control switch mounting for motorized hand truck. 2,790,879, 4-30-57, Cl. 200-157.
- Uliniski, Bronislaus I., to The Yale & Towne Mfg. Co. Frame construction for industrial truck. 2,804,984, 9-3-57, Cl. 214-674.
- Uliniski, Bronislaus I., to The Yale & Towne Mfg. Co. Emergency and service brake control. 2,817,420, 12-24-57, Cl. 188-106.
- Uliniski, Bronislaus I., to The Yale & Towne Mfg. Co. Load rotating and positioning attachment for industrial truck. 2,817,450, 12-24-57, Cl. 214-652.
- Ullery, Lee R., Jr., and R. K. Orthuber, to International Telephone and Telegraph Corp. Radiation detector. 2,818,511, 12-31-57, Cl. 250-211.
- Ullman, Fred E., and N. A. Virta, to Triangle Package Machinery Co. Means for and methods of filling containers. 2,788,027, 4-9-57, Cl. 141-1.
- Ullman, Otto I. Contact initiating apparatus for alarm purposes. 2,799,741, 7-16-57, Cl. 200-42.
- Ullman Products Corp.: *See*—
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- Ullman, Robert: *See*—
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- Ullmann, Siegfried J.: *See*—
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- Ulloa, Joseph A. Holder for cooking taco-shells. 2,778,294, 1-22-57, Cl. 99-426.
- Ulrich, Arthur. Condensation and polymerisation products of aldehydes with ketone cyanohydrins and a method of making same. 2,778,811, 1-22-57, Cl. 260-67.
- Ulrich, Osmar A., Jr., to The Haloid Co. Xerographic plate. 2,803,542, 8-20-57, Cl. 96-1.
- Ulrich, Osmar A., Jr., to The Battelle Development Corp. Process of preparing an X-ray sensitive member. 2,804,396, 8-27-57, Cl. 117-49.
- Ullstrand, Hugo M., and A. G. Hellstrom, to Aktiebolaget Eletrolux. Absorption refrigeration. 2,804,757, 9-3-57, Cl. 62-119.5.
- Ulm, Paul D.: *See*—
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- Ulm, Reign C., to Graver Tank & Mfg. Co., Inc. Floating roof arrangement. 2,801,763, 8-6-57, Cl. 220-26.
- Ulmann, Alexander E. Fluid control valve for shock absorbers. 2,803,313, 8-20-57, Cl. 188-88.
- Ulmann, Charles, to Etablissements Klein & Cie. Device for resiliently braking rotating shafts. 2,784,810, 3-12-57, Cl. 188-166.
- Ulmer, Harold: *See*—
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- Ulrich, Charles B., Jr.: *See*—
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- Ulrich, Charles B., Sr., deceased; by Charles B. Ulrich, Jr., executor. Cabinet-cover counterbalancing mechanism. 2,802,711, 8-13-57, Cl. 312-319.
- Ulrich Foundation, Inc.: *See*—
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- Ulrich, Frank: *See*—
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- Ulrich, Georges. Automatic locking means for vehicle doors. 2,778,216, 1-22-57, Cl. 70-264.
- Ulrich, Gustave E.: *See*—
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- Ulrich, Raymond M., to Ulrich Foundation, Inc. Separable coupling. 2,800,343, 7-23-57, Cl. 284-18.
- Ulrich, Raymond M., to Ulrich Foundation, Inc. Road forming attachment for motor graders. 2,806,305, 9-17-57, Cl. 37-108.
- Ulrichs, Alexander J. Working holder for use in welding. 2,808,801, 10-8-57, Cl. 113-99.

- Ultimo Mfg. Corp.: *See*—
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- Ultra-Technik G. m. b. H.: *See*—
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- Umndenstock, Walter, $\frac{1}{2}$ to C. T. Breitenstein. Spiral grinding machine. 2,792,676, 5-21-57, Cl. 51-95.
- Umndenstock, Walter, $\frac{1}{2}$ to C. T. Breitenstein. Multi-spiral grinding fixture. 2,795,091, 6-11-57, Cl. 51-225.
- Umberger, Jacob Q., to E. I. du Pont de Nemours and Co. Color correction process. 2,803,543, 8-20-57, Cl. 96-8.
- Umbrecht, Emil, to Ajem Laboratories, Inc. Jet assembly. 2,778,685, 1-22-57, Cl. 299-121.
- Umbrecht, Emil, to Ajem Laboratories, Inc. Top-supported rotatable spray-generating cage with orifice feed. 2,789,866, 4-23-57, Cl. 299-62.
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- Underwood, Garfield J., and D. H. Shuttleworth, to Mohasco Industries, Inc. Chenille fabrics and method of producing same. 2,779,354, 1-29-57, Cl. 139-394.
- Underwood, Joseph C.: *See*—
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- Underwood, Kenneth C., and H. M. Johnson, to Baker & Co., Inc. Electrical contact elements. 2,793,273, 5-21-57, Cl. 200-166.
- Underwood, Max E.: *See*—
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- Underwood, William M., to Monsanto Chemical Co. Sheeting die. 2,813,301, 11-19-57, Cl. 18-12.
- Undy, Gustav E., to Multi-Products Co. Selective control apparatus. 2,788,521, 4-9-57, Cl. 343-225.
- Unetic, Andrew J., and L. P. Kolar, to Kwikset Locks, Inc. Dead latch construction. 2,776,158, 1-1-57, Cl. 292-163.
- Unexcelled Chemical Corp.: *See*—
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- Ungarsohn, Harry. Voice reporting apparatus and the like. 2,798,122, 7-2-57, Cl. 179-188.
- Unger, Donald C., to General Motors Corp. Water heated intake manifold and control system therefor. 2,807,245, 9-24-57, Cl. 123-41.1.
- Unger, Maynard B., to The Sherwin-Williams Co. Oleoresinous rosinamine condensations. 2,777,837, 1-15-57, Cl. 260-102.
- Unger, Maynard B., and E. R. Schwab, to The Sherwin-Williams Co. Co-ordinated primary amine metal complexes. 2,791,601, 5-7-57, Cl. 260-463.
- Ungerer, Fritz: *See*—
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- Ungerer, Fritz, to R. Van Loo. Device and method for hardening sheet metal. 2,783,788, 3-5-57, Cl. 148-13.
- Ungerer, Fritz. Conveying means of a cutting and finishing plant for metal sheets. 2,816,644, 12-17-57, Cl. 198-21.
- Ungerman, Arnold H.: *See*—
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- Union Asbestos & Rubber Co.: *See*—
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 Thompson, Ivan P., Allmang, and Weidner. 2,812,274.
 Watts, Willie H., and Stambaugh. 2,807,282.
 Wilson, Jack L. 2,814,719.
 York, Edward R. 2,716,124.

Union Central Life Insurance Co., The: *See*—
 Schwab, Louis, O'Connor, and Riehle. 2,785,057.

Union Chimique Belge, S. A.: *See*—
 De Vries, Edward. 2,789,993.
 Lambert, Pol C. J. 2,800,492.
 Morren, Henri. 2,778,836.
 Morren, Henri. 2,781,398.

Union Chimique Belge Societe Anonyme: *See*—
 Pottier, Richard. 2,815,315.

Union Fork and Hoe Co., The: *See*—
 Finkes, George M. 2,794,312.
 Finkes, George M. 2,816,789.

Union Ice Co., The: *See*—
 Matthews, Arba J. 2,785,788.

Union Insulating Co., Inc.: *See*—
 Baxter, William E., and Palmer. 2,775,916.

Union Machinery Co.: *See*—
 Marasso, Fred D. 2,806,579.

Union Mfg. Co.: *See*—
 Damijonaitis, Alexandra. 2,814,496.
 Skillin, Walter F. 2,779,601.
 Skillin, Walter F. 2,788,979.

Union Oil Co. of California: *See*—
 Atkins, Earle R., Jr., and Nahin. 2,811,649.
 Backlund, Peter S. 2,791,569.
 Backlund, Peter S. 2,791,570.
 Bauer, Robert F., McNeill, and Ledbetter. 2,808,229.
 Berg, Clyde H. O. 2,783,096.
 Berg, Clyde H. O. 2,796,947.
 Berg, Clyde H. O., Vaell, and Ballard. 2,809,922.
 Bergsteinsson, Ingolfur. 2,798,104.
 Bewley, William L., and Switzer. 2,803,379.
 Bills, John L. 2,816,942.
 Bills, John L., and Stanley. 2,788,367.
 Buckmann, John P. 2,776,949.
 Buckmann, John P. 2,801,219.
 Carpenter, Clayton A. 2,792,895.
 Carpenter, Clayton A. 2,794,504.
 Ch'in, Norman C. 2,816,145.
 Clark, Robert D., and Hines. 2,816,803.

Union Oil Co. of California: *See*—Continued

Coe, Clarence S. 2,785,188.
 Doumani, Thomas F. 2,776,997.
 Doumani, Thomas F. 2,780,584.
 Doumani, Thomas F. 2,816,146.
 Fischer, Paul W. 2,776,870.
 Fischer, Paul W. 2,793,187.
 Fischer, Paul W. 2,805,201.
 Fischer, Paul W., and Matthews. 2,793,193.
 Fischer, Paul W., and Scheffel. 2,782,164.
 Fleck, Raymond N. 2,780,526.
 Fleck, Raymond N. 2,785,141.
 Fleck, Raymond N. 2,806,533.
 Freer, John G. 2,782,739.
 Keller, Howard F., Jr., Nowak, and Fischer. 2,792,893.
 Keller, James L. 2,793,171.
 King, Robert A. 2,782,141.
 Maly, George P. 2,786,530.
 Maly, George P. 2,799,341.
 Maly, George P. 2,805,721.
 Maly, George P., and Brown. 2,781,663.
 McKinnis, Art C. 2,776,985.
 McKinnis, Art C. 2,794,831.
 McKinnis, Art C. 2,809,204.
 McKinnis, Art C. 2,813,120.
 McNeill, Robert C., Stratton, and Rhodes. 2,808,230.
 Nowak, Theodore J. 2,799,003.
 Nowak, Theodore J. 2,803,526.
 Nowak, Theodore J., and Fischer. 2,781,850.
 Nowak, Theodore J., and Keller. 2,802,784.
 Nowak, Theodore J., and Keller. 2,802,785.
 Polly, Orville L., and Cunningham. 2,783,270.
 Schaeffer, William D. 2,798,069.
 Schaeffer, William D. 2,798,891.
 Schaeffer, William D., and Dorsey. 2,798,102.
 Schaeffer, William D., and Scott. 2,793,240.
 Schaeffer, William D., and Wordie. 2,798,103.
 Scott, Carleton B. 2,793,225.
 Scott, Carleton B. 2,806,050.
 Scott, Carleton B., Schaeffer, and Wordie. 2,810,002.
 Skinner, Davis A., and Wasley. 2,777,007.
 Stegemeier, Richard J., and Maly. 2,814,947.
 Stiles, Vernon E., and Inwood. 2,793,170.
 Switzer, Robert L. 2,803,269.
 Vogel, Lee C. 2,796,934.
 Webb, Irving D. 2,787,595.
 Wordie, John D., and Skinner. 2,792,286.
 Wordie, John D., and Skinner. 2,799,569.

Union Savings & Trust Co., The: *See*—
 Heltzel, John N. 2,777,370.
 Heltzel, John N. 2,780,149.

Union Special Machine Co.: *See*—
 Attwood, John G. 2,780,192.
 Attwood, John G., and Schoij. 2,788,758.
 Hayes, Robert A., and Reimer. 2,792,797.
 Morrison, Willard L. 2,796,746.
 Peterson, Albert C., and Smith. 2,783,724.

Union Special Maschinenfabrik, G. m. b. H.: *See*—
 Hayes, Robert A. 2,811,123.
 Lutz, Friedrich. 2,811,938.

Union Starch & Refining Co.: *See*—
 Pyle, Ronald E., and Longenecker. 2,784,118.

Union Steam Pump Co.: *See*—
 Disbrow, Donald R. 2,777,395.

Union Steel Products Co.: *See*—
 Averill, Charles C. 2,776,775.
 Averill, Charles C. 2,781,184.
 Averill, Charles C. 2,809,796.
 Bitney, Dewey H. 2,781,936.
 Bussing, Harold B. 2,783,911.
 Rumsey, Jon D. 2,787,996.

Union Stock Yard and Transit Co. of Chicago, The: *See*—
 Morrison, Willard L. 2,780,921.
 Morrison, Willard L. 2,800,398.

Union Stock Yards and Transit Co.: *See*—
 Prince, William W. 2,775,871.

Union Twist Drill Co.: *See*—
 Bushey, Esmonde J., and Engelsted. 2,796,703.

Unipulver Ltd.: *See*—
 Clark, Geoffrey. 2,781,176.

Unique Balance Co., Inc.: *See*—
 Gency, William E. 2,792,588.
 Larson, Alvin. 2,780,457.

Unit Mfg. Co.: *See*—
 Pappathatos, James S., and Gits. 2,785,817.

Unitcast Corp.: *See*—
 Goodwin, Ernest G. 2,779,440.
 Goodwin, Ernest G. 2,782,872.
 Wine, William E. 2,784,679.

United Aircraft Corp.: *See*—
 Alex, Ralph P. 2,811,324.
 Arnoldi, Walter E. 2,786,262.
 Best, Stanley G. 2,782,767.
 Best, Stanley G. 2,782,769.
 Brendal, Donald H. 2,776,806.
 Bristol, Carlton W., Jr. 2,780,055.
 Brown, William H. 2,801,074.
 Chamberlain, John. 2,780,938.
 Coar, Richard J. 2,780,172.
 Coar, Richard J. 2,801,701.
 Coar, Richard J., and Brown. 2,780,054.

United Aircraft Corp. : *See*—Continued

Doll, Walter Jr. 2,801,790.
 Echeverria, Charles M., Jr. 2,815,821.
 Fenger, Christian. 2,813,701.
 Fisher, Earl R., Robin, and Hurd. 2,813,397.
 Freeman, Philip M. 2,791,282.
 Geary, Frederick L., and Taylor. 2,811,831.
 Geary, Frederick L., and Taylor. 2,815,643.
 Hopper, Philip S. 2,812,036.
 Ingram, Orville. 2,798,250.
 Kappus, Peter G. 2,799,989.
 Kurti, Alexander. 2,786,699.
 Lambeck, Raymond P. 2,796,137.
 Lambeck, Raymond P., and Newton. 2,791,283.
 Lambeck, Raymond P., and Newton. 2,796,138.
 Lambeck, Raymond P., and Pond. 2,809,702.
 Ledwith, Walter A. 2,786,648.
 Lee, John G. 2,779,193.
 Lee, John G., and Mulready. 2,782,593.
 McLafferty, George H. 2,811,828.
 Meyer, Robert E. 2,813,395.
 Nutter, George H. 2,813,565.
 Pearl, David R., and Best. 2,796,733.
 Savage, Francis C. 2,801,073.
 Schenck, Hilbert V., Jr. 2,813,700.
 Shinn, Byron H. 2,812,158.
 Sikorsky, Igor I. 2,795,284.
 Sikorsky, Igor I. 2,811,212.
 Sikorsky, Igor I. 2,818,224.
 Sims, James S., Jr., and Farkas. 2,809,714.
 Taylor, James G. 2,800,767.
 Torell, Bruce N. 2,807,138.
 Wachs, Miller A. 2,788,680.
 Wheeler, Leslie F. 2,800,768.
United Aircraft Products, Inc. : *See*—
 Benjamin, Harry L. 2,817,385.
 Booth, Harry T. 2,817,396.
 Carroll, Frank E., Jr. 2,793,708.
 Carroll, Frank E., Jr., De Groote, and Hall. 2,809,810.
 Carroll, Frank E., Jr., and Klank. 2,800,975.
 Storck, Fred H., and Nuckles. 2,809,269.

United Can & Glass Co. : *See*—

Shaw, Stanley. 2,786,432.
 Waters, Lawrence W. 2,799,311.

United-Carr Fastener Corp. : *See*—

Amesbury, Robert R. 2,801,118.
 Becker, Philip D. 2,783,674.
 Bedford, William A., Jr. 2,780,329.
 Bedford, William A., Jr. 2,784,471.
 Bedford, William A., Jr. 2,796,647.
 Coyle, William J. 2,817,797.
 Creedon, Ronald D. 2,790,222.
 Jansson, Arnold O. 2,807,069.
 MacFadden, Wilford C. 2,784,386.
 Petri, Hector D. 2,817,132.
 Traffon, Warren L. 2,781,073.
 Van Buren, Harold S., Jr. 2,786,251.
 Van Buren, Harold S., Jr. 2,796,650.
 Wootton, William C. 2,807,068.
 Wootton, William C. 2,809,413.

United Cement Products Co. : *See*—

Robson, James T., and Tucker. 2,813,305.

United Chemical Corp. of New Mexico : *See*—

Gambill, Marvin. 2,777,818.

United Coffee Corp. : *See*—

Arnett, Leslie. 2,812,879.
 Arnett, Leslie. 2,813,965.
 Arnett, Leslie, and Freise. 2,798,643.

United Concrete Pipe Corp. : *See*—

James, Kenneth E. 2,808,851.
 James, Kenneth E., and Dahlstrum. 2,809,270.

United Cork Companies : *See*—

Bose, Edward R. 2,779,969.

United Electric Coal Companies, The : *See*—

Stamos, Chris. 2,798,591.

United Electric Controls Co. : *See*—

Leupold, Henry G. 2,797,272.
 Reis, Arthur W. 2,779,838.

United Engineering and Foundry Co. : *See*—

Heiden, John A. 2,781,120.
 Maximilian, Octavian. 2,815,812.
 Sieger, Maurice P. 2,791,923.

United Engineers & Constructors Inc. : *See*—

Sweeney, Maxwell P. 2,795,534.
 Sweeney, Maxwell P. 2,799,678.

United Equipment Accessories, Inc. : *See*—

Isernan, Lavern R. 2,796,997.

United Gas Corp. : *See*—

Dow, Willard M. 2,790,248.
 Dow, Willard M. 2,790,505.
 Dow, Willard M. 2,790,512.

United Gas Improvement Co., The : *See*—

Maloney, Hugh T. 2,813,012.

United Geophysical Corp. : *See*—

Coker, Frank B., and Schoenberg. 2,777,112.
 Howes, Edgar T. 2,788,510.
 Howes, Edgar T. 2,788,513.
 Peterson, Raymond A. 2,792,067.
 Peterson, Raymond A. 2,792,068.
 Swan, Merrill. 2,810,118.

United Industrial Corp. : *See*—

Nelson, August L. 2,807,498.

United International Research, Inc. : *See*—

Globus, Alfred R. 2,808,323.
 Globus, Alfred R. 2,812,240.

United Kingdom Atomic Energy Authority, The : *See*—

Goulding, Frederick S. 2,814,772.

United Mattress Machinery Co., Inc. : *See*—

Fraser, David F. 2,787,230.
 Kalning, Frederick E., and Wanzer. 2,791,344.

United Merchants and Manufacturers, Inc. : *See*—

Cady, George H. 2,786,616.
 Koprow, Longine, and Saks. 2,784,630.
 Mangum, Harvey C. 2,811,176.

United Metal Cabinet Corp. : *See*—

Hammer, Samuel. 2,783,111.
 Hammer, Samuel. 2,785,035.
 Hammer, Samuel. 2,789,874.

United Metal Goods Mfg. Co., Inc. : *See*—

Punzak, Joseph F. 2,785,276.

United National Bank of Cliffside Park, The : *See*—

Kennedy, Walter. 2,789,768.

United Products Co., The : *See*—

Ball, Charles O., and Baker. 2,789,058.
 Budge, George H. 2,805,617.

United Screw Products & Mfg. Co. : *See*—

Goff, John W. 2,817,355.

United Shoe Machinery Corp. : *See*—

Abel, Walter L., and Noonan. 2,800,729.
 Ashworth, Fred, and Ioannilli. 2,780,189.
 Bagshaw, Charles M. 2,780,051.
 Bowler, Raymond M., and Clamp. 2,804,634.
 Bray, Donald L., and Andrews. 2,807,885.
 Butler, Ernest L., and Holmes. 2,778,038.
 Cantley, Joseph C. 2,802,225.
 Cardani, Charles P., and Harrington. 2,791,772.
 Charron, Antonio P. 2,778,041.
 Chellis, Fred F. 2,802,451.
 Chellis, Fred F. 2,807,021.
 Clard, Alfred S. 2,785,421.
 Crowell, Ernest M., and Seabury. 2,799,034.
 Curtin, Leonard S. 2,776,501.
 Curtin, Lloyd L. 2,799,031.
 Curtis, James W. Re. 24,363.
 Curtis, James W. 2,779,955.
 Elliott, Richard M. 2,798,375.
 Ericson, Roy G., and Stratton. 2,783,838.
 Finn, Sidney J., and Benedict. 2,799,876.
 Forman, Arthur W., Lovett, and Salway-Waller. 2,815,920.

Frampton, Stanley E. 2,787,011.
 Fuller, Bradley, and Winslow. 2,796,036.
 Gookin, Sylvester L. 2,781,933.
 Gulbrandsen, Helge. 2,810,142.
 Horchner, Richard S. 2,790,555.
 Hubbard, Arthur R. 2,778,039.
 Hubbard, Arthur R., and Dorosz. 2,806,233.
 Imhof, Herman A. 2,799,874.
 Joiner, Edgar E., Jr. 2,805,693.
 Joiner, Edgar E., Jr. 2,816,374.
 Jorgensen, Jacob C. 2,803,024.
 Kelley, John S. 2,787,241.
 Kulik, Alphonse C. 2,782,432.
 Kulik, Alphonse C. 2,808,601.
 Lee, Ferman N., and Shaw. 2,798,235.
 Loney, John W. 2,784,431.
 Maciejowski, John J. 2,786,676.
 Maeser, Mieth. 2,789,293.
 Markey, John W. 2,785,819.
 McIlvin, Donald B., Campbell, and Chellis. 2,785,400.
 Mieth, Maeser, and Brophy. 2,782,431.
 Mühlbach, Anton. 2,782,854.
 Murphy, Brian J. M., and Pope. 2,779,957.
 Murphy, Brian J. M., and Pope. 2,802,226.
 Paulsen, Hans C. 2,783,735.
 Paulsen, Hans C. 2,785,422.
 Paulsen, Hans C. 2,804,871.
 Pokorski, Joseph W. 2,792,883.
 Proulx, Leonard E. 2,794,994.
 Quick, Alfred S., and Rivington. 2,806,232.
 Quinn, Edward. 2,779,942.
 Quinn, Edward. 2,781,533.
 Quinn, Edward. 2,807,224.
 Randall, Philip H. 2,779,299.
 Robbins, Joseph, Smart, and Smith. 2,814,485.
 Root, Andrew A. 2,793,136.
 Russell, George E., Jr. 2,777,564.
 Schafer, Hans F., Jr., and Pulsifer. 2,780,188.
 Seabury, Frank H., and Bradley. 2,788,070.
 Severy, Lawrence A., and Snow. 2,807,036.
 Sillars, Frederick S. 2,778,530.
 Stratton, Frank E. 2,799,875.
 Stritter, Kate F. 2,807,103.
 Stritter, Karl A. 2,794,996.
 Stritter, Karl A. 2,809,450.
 Whelton, John M. Re. 24,344.
 Willhauck, Augustus D. 2,779,242.
 Willmott, Herbert J. 2,778,040.

United Specialties Co.: *See*—

Ammlung, Louis C., Jr., and Lingenbrink. 2,815,413.
 Dreznes, John J. 2,810,452.
 Dreznes, John J. 2,815,825.
 Miller, Walter W., and Berk. 2,795,659.
 Spicer, John J. 2,815,412.
 Spicer, John J., and Berk. 2,802,075.

United States of America, The: *See*—

Applegate, Vernon C., Stahl, and Smith. 2,778,140.
 Eksergian, Carolus L. 2,775,943.
 Roberts, Walter Van B. 2,817,081.
 Sandgren, Marvin A. 2,780,889.

United States Atomic Energy Commission, United States of America as represented by the: *See*—

Abbatiello, Anthony A. 2,791,372.
 Anderson, George A. 2,780,596.
 Anderson, George A. 2,794,562.
 Anger, Hal O. 2,776,377.
 Appleton, William H., and Farly. 2,782,993.
 Arendale, William F., and Coleman. 2,797,143.
 Arrol, William J., and Jefferson. 2,804,573.
 Artzt, Maurice. 2,804,550.
 Backus, John G. 2,817,763.
 Bailes, Richard H., Long, and Grinstead. 2,806,764.
 Baker, William R. 2,783,433.
 Ballard, Albert E. 2,779,657.
 Barnes, Arthur H. 2,811,923.
 Barnes, Sidney W. 2,794,923.
 Beaver, Wallace W. 2,789,880.
 Bennett, George A., Inatomi, and Fiskin. 2,789,038.
 Beriman, Isadore B., and Marinelli. 2,795,703.
 Bernstein, Seymour, and Bernhardt. 2,795,479.
 Beyer, Harold G., and Stinson. 2,790,086.
 Blomgren, Roland A., and Bohlin. 2,804,165.
 Borkowski, Casimer J., and Porter. 2,778,949.
 Borkowski, Casimer J., and Porter. 2,779,875.
 Boyer, Robert Q. 2,796,393.
 Boyer, Robert Q., and Kilner. 2,781,303.
 Bradley, John G. 2,811,423.
 Bradner, Hugh, and Gordon. 2,817,350.
 Brenholdt, Irving R. 2,813,978.
 Brewer, Aubrey K., and Taylor. 2,780,589.
 Bridger, Grover L., Whatley, and Shaw. 2,815,262.
 Britten, Roy J. 2,818,507.
 Brown, Harrison S., and Hill. 2,785,047.
 Brown, Horace D., and Wolter. 2,778,843.
 Bruggeman, Warren H., and Voorhees. 2,815,277.
 Brunner, John J. 2,782,091.
 Bryant, Harry, Erickson, and Kaufmann. 2,795,704.
 Butler, Thomas A. 2,785,046.
 Calkins, George D. 2,811,411.
 Calkins, George D., and Bohlmann. 2,815,264.
 Carter, James H., and Butler. 2,784,054.
 Christy, Robert E., and Weinberg. 2,806,819.
 Clark, Albert. 2,813,064.
 Coffman, Raphael T. 2,815,968.
 Collins, Howard W., Roberts, and Dunnet. 2,807,006.
 Cooper, Charles M. 2,803,601.
 Correy, Thomas B., and Taylor. 2,800,588.
 Creutz, Edward C., Ohlinger, Wigner, and Young. 2,796,398.
 Creutz, Edward C., and Zinn. 2,781,308.
 Creveling, Robert. 2,817,019.
 Crist, Ray H., and Kirshenbaum. 2,796,330.
 Cunningham, Burris B. 2,816,813.
 Daniels, Farrington. 2,809,931.
 Daniels, Farrington. 2,812,303.
 Delaplaine, John W. 2,812,282.
 De Shong, James A., Jr. 2,818,504.
 Devaney, Howard F. 2,780,455.
 Dietz, Thomas J. 2,806,255.
 Dodds, Harry W. 2,818,339.
 Dodds, Harry W., and Sawyer. 2,794,241.
 Dodds, Harry W., and Sawyer. 2,806,596.
 Duckworth, Winston H. 2,814,857.
 Eberle, Allan R. 2,796,323.
 Ellis, David A., and Lindblom. 2,807,518.
 Entwistle, James. 2,782,081.
 Fenning, Frederick W., and Jackson. 2,807,580.
 Fermi, Enrico. 2,780,595.
 Fermi, Enrico, and Leverett. 2,813,070.
 Fermi, Enrico, and Szilard. 2,798,847.
 Fermi, Enrico, and Szilard. 2,807,581.
 Fermi, Enrico, and Zinn. 2,807,727.
 Fink, Armand F. 2,783,320.
 Fishbine, Harold L., and Sewell. 2,802,070.
 Fisher, Ray W. 2,816,122.
 Fontana, Peppino J. 2,780,517.
 Foster, John S., Jr. 2,798,181.
 Foster, John S., Jr. 2,806,161.
 Foster, John S., and Haddeland. 2,798,359.
 Foster, John S., Jr., and Fairbrother. 2,791,371.
 Fowler, Robert D. 2,804,369.
 Fowler, Robert D. 2,810,626.
 Fried, Sherman, and Davidson. 2,805,916.
 Furman, Nathaniel H., and Mundy. 2,816,005.
 Gates, John W., Jr., and Andrews. 2,780,518.
 George, Charles M. 2,818,208.
 Giorso, Albert, and Larsh. 2,784,910.
 Goertz, Raymond C. 2,806,610.
 Gray, George W., and Jensen. 2,810,828.
 Greenspan, Joseph, and Carlson. 2,797,983.

United States Atomic Energy Commission, United States of America as represented by the: *See*—Continued

Hainer, Raymond M., and Evers. 2,780,532.
 Hamilton, Noble E. 2,814,849.
 Hamilton, Noble E. 2,816,042.
 Handwerk, Joseph H., Noland, and Walker. 2,805,473.
 Hane, Wilbur A. 2,783,376.
 Heard, Harry G., and Salsig. 2,798,178.
 Heath, Roy E., and Florin. 2,815,266.
 Heller, Robert E., Owen, and Mack. 2,799,836.
 Hicks, Harry G., Nervik, and Stevenson. 2,795,481.
 Hiske, Clarence F., and Vier. 2,776,263.
 Hoffman, John D., and Ballou. 2,813,598.
 Honstead, John F. 2,800,797.
 Howe, James T., and Herze. 2,792,634.
 Howell, William D. 2,803,405.
 Hurwitz, Henry, Jr., Brooks, Mannal, Payne, and Luebke. 2,799,642.
 Ise, John, Jr., and Milburn. 2,784,799.
 Jonke, Albert A. 2,809,091.
 Kalibjian, Ralph, and Perez-Mendez. 2,803,748.
 Kamen, Martin D. 2,776,184.
 Kamen, Martin D. 2,790,701.
 Katz, Joseph J. 2,797,142.
 Kaufman, David. 2,789,879.
 Kaufman, David, and Bailey. 2,780,519.
 Kilpatrick, Martin. 2,787,527.
 Kimball, Robert B., and Ewing. 2,800,887.
 Kingdon, Kenneth H. 2,798,848.
 Klein, David X., and Wirth. 2,782,092.
 Kolodney, Morris. 2,777,809.
 Kuipers, George A. 2,780,099.
 Langsdorf, Alexander S., Jr. 2,814,728.
 Lawrence, Ernest O. 2,785,311.
 Lawrence, Ernest O. 2,789,229.
 Levinger, Joseph S., Sampson, Snell, and Wilkinson. 2,781,309.
 Levy, Paul W. 2,800,589.
 Lewis, George W., Jr., and Rhodes. 2,812,233.
 Leyshon, William E. 2,802,108.
 Lichtenberger, Harold V., and Koch. 2,782,941.
 Lietzke, Milton H. 2,796,392.
 Lofgren, Edward J., and Fairbrother. 2,781,452.
 Loomis, Chauncey C., and Ash. 2,814,477.
 Lutz, Garson A. 2,780,514.
 Lykins, James H., Bartkus, and Kermicle. 2,790,919.
 Macdonald, James R. 2,795,654.
 Macleish, Kenneth G. 2,787,737.
 Macleish, Kenneth G. 2,797,050.
 Marsh, Lytle L., Jr., and Chubb. 2,784,084.
 Martin, Marvin D., MacKenzie, and Salsig. 2,789,222.
 McCullough, Robert F. 2,790,702.
 McMillan, Thomas S. 2,811,413.
 McNabney, Ralph. 2,795,482.
 Menegus, Robert L., and Akers. 2,794,670.
 Metcalf, Herbert E. 2,787,593.
 Metcalf, Herbert E. 2,809,157.
 Miller, Arthur J., Pitt, and Grieger. 2,780,515.
 Miller, Edward G., Jr. 2,797,328.
 Moody, Norman F. 2,797,319.
 Morgan, Frank. 2,799,554.
 Morgan, Frank. 2,799,555.
 Morrison, Philip. 2,796,529.
 Moulthrop, Homer A. 2,813,022.
 Murphree, Eger V. 2,811,414.
 Neal, Richard B. 2,817,036.
 Neher, Leland K. 2,798,165.
 Nevenzel, Judd C. 2,780,516.
 Ohlinger, Leo A. 2,790,761.
 Ottinger, Oscar H., and Feezell. 2,790,949.
 Owen, Harvey M., and Smith. 2,776,368.
 Pearlman, Harry, Silverman, and Smith. 2,778,786.
 Peppard, Donald F. 2,789,878.
 Peterson, David. 2,795,499.
 Poirier, Robert H. 2,798,084.
 Poirier, Robert H. 2,811,412.
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 Robertson, Earl M., and Unruh. 2,811,443.
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- Unruh, Cornelius C., D. A. Smith, and W. J. Priest, to Eastman Kodak Co. Photographic emulsions containing synthetic polymer vehicles. 2,808,331, 10-1-57, Cl. 96—114.**
- Unsinger, Philip H. Knife. 2,810,194, 10-22-57, Cl. 30—321.**
- Unter, Robert K.: See—**
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- Unterberger, Ernst, to Copease Mfg. Co., Inc. Developing apparatus. 2,793,574, 5-28-57, Cl. 95—89.**

- Unterfranz, Joseph G. Combination carrying case and table for portable power tool. 2,786,500, 3-26-57, Cl. 144—285.**
- Untermyer, Samuel, to the United States of America as represented by the United States Atomic Energy Commission. Portable X-ray or gamma source. 2,798,164, 7-2-57, Cl. 250—106.**
- Unthank, Douglas G., 1/2 to H. A. J. Silley. Apparatus for separating oil and water. 2,777,581, 1-15-57, Cl. 210—61.**
- Unzicker, Robert E., to Collins Radio Co. Sanding jig. 2,817,193, 12-24-57, Cl. 51—217.**
- Upchurch, Edward F.: See—**
 Cooper, William M., Jr., Upchurch, Schulman, and May. 2,789,942.
- Upchurch, Lewis M., to Hoke Oil & Fertilizer Co. Carrier for containers. 2,780,476, 2-5-57, Cl. 280—47,24.**
- Updegraff, David M., to Socony Mobil Oil Co., Inc. Treatment of drilling fluid to reduce water loss. 2,790,763 4-30-57, Cl. 252—8,5.**
- Updegraff, David M., to Socony Mobil Oil Co., Inc. Recovery of petroleum oil. 2,807,570, 9-24-57, Cl. 195—3.**
- Updegraff, David M., to Socony Mobil Oil Co., Inc. Treatment of porous materials. 2,813,821, 11-19-57, Cl. 195—116.**
- Updegraff, Ivor H., to American Cyanamid Co. Polymerizable compositions containing polyglycidyl esters of polycarboxylic acids. 2,781,333, 2-12-57, Cl. 260—78,5.**
- Updegraff, Lee C. Automatic ice cream freezers. 2,808,706, 10-8-57, Cl. 62—4.**
- Upsyke, Russell S.: See—**
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- Upha Chemische-Pharmazeutische Praeparate G. m. b. H.: See—**
 Kaellner, Gerhard F., Mulli, and Uhlenbrook. 2,800,426.
- Uphoff, Fred D., to Davidson & Uphoff. Collapsible stand. 2,791,391, 5-7-57, Cl. 248—150.**
- Uphoff, Leo P., to Kaiser Aluminum & Chemical Corp. Apparatus for applying a metal casing to a refractory member. 2,803,870, 8-27-57, Cl. 29—211.**
- Uphoff, Ralph E. Hollow slotted tap with support means for the slotted portion. 2,787,010, 4-2-57, Cl. 10—146.**
- Upjohn Co., The: See—**
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- Upjohn Co., The: *See*—Continued
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- Upton Development Corp.: *See*—
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- Upton, Edward J.: *See*—
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- Upton, Lee O., to American Optical Co. Apparatus for the manufacture of arsenic trisulfide. 2,804,378, 8-27-57, Cl. 23-262.
- Upton, Lee O., to American Optical Co. Method of forming and fusing glass articles. 2,807,122, 9-24-57, Cl. 49-82.1.
- Uraneck, Carl A., to Phillips Petroleum Co. Compositions of acid-radical containing conjugated diene copolymers and aluminum powder and method of preparation. 2,817,642, 12-24-57, Cl. 260-41.5.
- Urbach, Kathi: *See*—
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- Urban, Donald F., and A. J. Maletzke, to General Motors Corp. Combined hinged closure and lamp mounting. 2,812,955, 11-12-57, Cl. 280-152.
- Urban, Fred O., to General Electric Co. Refrigeration system. 2,807,940, 10-1-57, Cl. 62-3.
- Urban, George E.: *See*—
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- Urban, Peter: *See*—
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- Urban, Peter, to Universal Oil Products Co. Contacting vessel. 2,797,903, 7-2-57, Cl. 259-107.
- Urban, Peter, to Universal Oil Products Co. Container. 2,798,639, 7-9-57, Cl. 220-85.
- Urban, Peter, Jr., to Universal Oil Products Co. Reducing the mercaptan content of petroleum distillates by treating it with an organic nitrite and a peroxide. 2,790,752, 4-30-57, Cl. 196-29.
- Urban, Vincent M., to Northrop Aircraft, Inc. Automatic paralleling device. 2,781,457, 2-12-57, Cl. 307-87.
- Urbschat, Ewald, and P.-E. Frohberger, to Farbenfabriken Bayer Aktiengesellschaft. Fungicidal compositions of quinoxaline-hydrazones. 2,785,101, 3-12-57, Cl. 167-30.
- Urie, Harold T., and R. E. Adjustable crutch. 2,793,647, 5-28-57, Cl. 135-50.
- Urie, Robert E.: *See*—
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- Uritis, Joseph M., to Radio Corp. of America. Reeling system. 2,782,029, 2-19-57, Cl. 271-2.6.
- Urlaub, George S., 1/2 to H. B. Hollander. Metering dispenser. 2,778,543, 1-22-57, Cl. 222-394.
- Urquhart, Donald A.: *See*—
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- Urquhart, William M.: *See*—
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- Urquhart, William M., to The Babcock & Wilcox Co. Apparatus for burning solid fuel. 2,795,200, 6-11-57, Cl. 110-68.
- Urrutia, Tomas. Apparatus for simultaneous twisting and stretching, applicable to continuous machines for spinning carded wool. 2,796,725, 6-25-57, Cl. 57-51.4.
- Urry, Denis E., to Cinema-Television Ltd. Control circuits for cathode ray tubes. 2,817,041, 12-17-57, Cl. 315-10.
- Urschler, Jean, and C. Patris. Electromagnetic vibrators. 2,803,762, 8-20-57, Cl. 310-29.
- Urso, John P. Leg-elevating ball casters. 2,808,607, 10-8-57, Cl. 16-24.
- Uschmann, Curt, to Cascades Plywood Corp. Air flow plate grinders. 2,776,800, 1-8-57, Cl. 241-296.
- Uschmann, Curt, to Cascades Plywood Corp. Sulfite liquor derivatives and processes. 2,786,820, 3-26-57, Cl. 260-17.2.
- Uschmann, Curt. Platen spacing control means. 2,792,777, 5-21-57, Cl. 100-200.
- Uselis, Alfonsas. Hair wave processing indicator. 2,807,163, 9-24-57, Cl. 73-160.
- Ushakoff, Alexis E., to Secotan, Inc. Method of treating animal skins. 2,781,241, 2-12-57, Cl. 8-94.18.
- Ushakoff, Alexis E., to Secotan, Inc. Sheet drying apparatus. 2,803,889, 8-27-57, Cl. 34-143.
- Uskert, Julie A. Apparatus for projecting circular markings upon curved surfaces. 2,791,031, 5-7-57, Cl. 33-21.
- Usmiani, Andrew, to National Steel Corp. Open hearth furnace construction. 2,797,910, 7-2-57, Cl. 263-51.
- U-Test-M Mfg. Co., Inc.: *See*—
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- Uthemann, Wolfgang, to Rosenkaimer G. m. b. H. Clamping device for garden sunshades. 2,817,548, 12-24-57, Cl. 287-58.
- Utne, Howard M., to Zenith Radio Corp. Switching circuit. 2,789,216, 4-16-57, Cl. 250-27.
- Uthoff, Robert D., to Knapp-Monarch Co. Segmented bearing retainer. 2,797,969, 7-2-57, Cl. 308-72.
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- Utley, George D., and S. Hirsch. Suture containers and handling devices therefor. 2,808,927, 10-8-57, Cl. 206-63.3.
- Utt, Orval L., to Westinghouse Air Brake Co. Timing means employing cycle counting relays. 2,808,541, 10-1-57, Cl. 317-142.
- Utterback, Martin, to Binks Mfg. Co. Electrostatic coating device. 2,802,446, 8-13-57, Cl. 118-626.
- Uttley, Albert M., S. W. Noble, and R. H. A. Carter, to National Research Development Corp. Electronic digital computing apparatus. 2,808,983, 10-8-57, Cl. 235-61.
- Utz, Hans: *See*—
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- Utz, Friedrich. Guard for motor-driven hand circular saw. 2,801,654, 8-6-57, Cl. 143-159.
- Utz, Joseph J., to the United States of America as represented by the United States Atomic Energy Commission. Electroplating of beryllium. 2,798,036, 7-2-57, Cl. 204-32.
- V. D. Gracht, Willebrord J. F. de R., to Lever Brothers Co. Surface active compounds and method for the production thereof. 2,785,978, 3-19-57, Cl. 99-23.
- V. D. L. Corp.: *See*—
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- VEB Carl Zeiss Jena: *See*—
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- Vaara, George A. Combination magnetic level and center finder device. 2,797,486, 7-2-57, Cl. 33-88.
- Vaca, Humberto. Curtain hanger. 2,805,457, 9-10-57, Cl. 24-73.
- Vacanti, Charles J., and M. H. Jackson. Dental X-ray film holder. 2,782,317, 2-19-57, Cl. 250-70.
- Vacanti, Frank F., Jr., to Holland Industries, Inc. Folding cooking stove. 2,780,215, 2-5-57, Cl. 126-9.
- Vaccaro, Adelaide, and A. Culcasi. Musical instrument support. 2,814,229, 11-26-57, Cl. 84-327.
- Václavík, Jaroslav, and F. Tylajka, to Zapadomoravske strojirny, narodni podnik. Apparatus for drawing off and delivering hosiery blanks on straight-bar knitting machines. 2,789,423, 4-23-57, Cl. 66-149.

- Vaco Products Co.:** *See—*
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- Vacuum Can Co.:** *See—*
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- Vadco Products, Inc.:** *See—*
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- Vaguer, Clayton L.:** Mechanical movement for reciprocating machines. 2,775,899, 1-1-57, Cl. 74-44.
- Vaiden, John C.:** to Bendix Aviation Corp. Cartridge case removal means. 2,811,922, 11-5-57, Cl. 102-44.
- Vail, Alfred S.:** to The Glenn L. Martin Co. Variable displacement sinusoidal drive mechanism. 2,800,029, 7-23-57, Cl. 74-49.
- Vail, Kenneth E.:** *See—*
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- Vail, Leah M.:** Laundry bag. 2,815,785, 12-10-57, Cl. 150-1.
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- Vaillant, Joh., K. G.:** *See—*
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- Valach, Charles F.:** to Amphenol Electronics Corp. Coaxial angle connector. 2,813,144, 11-12-57, Cl. 174-87.
- Valantin, Lucien:** Gravel distributing device for road surfacing machines. 2,777,700, 1-15-57, Cl. 275-2.
- Valdez, Alfonso F.:** Stapling device. 2,783,470, 3-5-57, Cl. 1-101.
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- Valenti, Leo F., and A. D. Brown, Jr.:** to Clevite Corp. Pen recorder record chart drive. 2,796,317, 6-18-57, Cl. 346-136.
- Valentine, Harry J.:** *See—*
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- Valentine, Harry M.:** to Bendix-Westinghouse Automotive Air Brake Co. Compressor valve control means. 2,792,169, 5-14-57, Cl. 230-31.
- Valentine, James M.:** to General Motors Corp. Domestic appliance. 2,778,911, 1-22-57, Cl. 219-10.55.
- Valentine, Lawrence F.:** to J. H. Townsend. Hydraulic fluid pressure booster. 2,813,399, 11-19-57, Cl. 60-54.5.
- Valentine, Leland J.:** Hot water and suds saver. 2,811,983, 11-5-57, Cl. 137-57.1.
- Valentine, Theodore F.:** *See—*
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- Vallette, Pierre H. P.:** to Compagnie Francaise des Matieres Colorantes. Process of impregnating cellulosic material halogeno-nitrides of phosphorous. 2,782,133, 2-19-57, Cl. 117-138.
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- Valley Metal Products Co.:** *See—*
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- Valva, Eleanor R.:** Rug loom. 2,802,254, 8-13-57, Cl. 28-15.
- Valvano, Ralph A.:** Closure for can opening. 2,776,778, 1-8-57, Cl. 220-24.
- Valyi Emery I.:** to Bachner-Valyi Development Corp. Method and apparatus for making foundry molds. 2,815,550, 12-10-57, Cl. 22-10.
- Van, Leon, and A. Douy:** to American Chemical Paint Co. Method of treating zinciferous surfaces. 2,786,002, 3-19-57, Cl. 148-6.2.
- Van Abbe, Henri H.:** *See—*
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- Van Ackeren, Joseph, to Koppers Co., Inc.:** Recirculation underjet coking retort oven. 2,799,632, 7-16-57, Cl. 202-142.
- Van Ackeren, Joseph, to Koppers Co., Inc.:** Methods and apparatus for the manufacture of ammonium sulfate. 2,805,125, 9-3-57, Cl. 23-119.
- Van Ackeren, Joseph, to Koppers Co., Inc.:** Apparatus for the recovery of ammonia from coke oven gas. 2,811,424, 10-29-57, Cl. 23-273.
- Van Ackeren, Paul:** *See—*
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- Van Ackeren, Paul, to Koppers Co., Inc.:** Means for determining the correct positioning of the operating machines of coke oven batteries. 2,786,106, 3-19-57, Cl. 200-61.44.
- Van Ackeren, Paul, to Koppers Co., Inc.:** Reversal apparatus for regenerative ovens. 2,804,428, 8-27-57, Cl. 202-151.
- Van Ackeren, Paul, to Koppers Co., Inc.:** Bracing means for coke oven batteries. 2,812,293, 11-5-57, Cl. 202-268.
- Van Ackeren, Paul, and F. Doll, to Koppers Co., Inc.:** Door lifting means for horizontal coking chamber ovens. 2,796,995, 6-25-57, Cl. 212-4.
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- Vanadium Corp. of America:** *See—*
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- Van Alen, De Witt T.:** to The George W. Borg Corp. Potentiometer adjuster. 2,813,182, 11-12-57, Cl. 201-56.
- Van Allan, James A.:** *See—*
Sawdey, George W., and Van Allan. 2,784,087.
- Van Allen, Roland L.:** to the United States of America as represented by the Secretary of the Navy. Polarity responsive voltage computing means. 2,808,990, 10-8-57, Cl. 235-61.
- Van Alsburg, Jerold H.:** Portable cattle guard. 2,800,304, 7-23-57, Cl. 256-14.
- Van Alstyne, Alvin G.:** to Gilfillan Bros., Inc. Radar reflector for aircraft. 2,780,806, 2-5-57, Cl. 343-18.
- Van Alstyne, Alvin G.:** to Gilfillan Bros., Inc. Range tracking. 2,795,781, 6-11-57, Cl. 343-7.3.
- Van Alstyne, Earl M.:** $\frac{1}{2}$ to L. A. Lockard. Hydraulic pump jack with separable piston. 2,782,770, 2-26-57, Cl. 121-47.
- Van Alstyne, Egbert A., Jr.:** Lip-supported fever thermometer. 2,817,236, 12-24-57, Cl. 73-371.
- Van Amstel, Johannes J. A. P.:** and A. van Wieringen, to North American Philips Co., Inc. Blocking layer rectifier cells. 2,803,791, 8-20-57, Cl. 317-234.
- Van Amstel, Josephus J. N.:** to Hollandia Kattenburg N. V. Fly for an article of dress. 2,797,416, 7-2-57, Cl. 2-96.
- Vanant Co., Inc.:** *See—*
Van Antwerpen, Martin and L. D. 2,812,798.
- Van Antwerpen, Lloyd D.:** *See—*
Van Antwerpen, Martin and L. D. 2,787,323.
Van Antwerpen, Martin and L. D. 2,812,798.
- Van Antwerpen, Lloyd D.:** Packaging for wrap-around windshields. 2,776,745, 1-8-57, Cl. 206-62.
- Van Antwerpen, Lloyd D.:** Carton for panoramic automobile glass. 2,812,855, 11-12-57, Cl. 206-62.
- Van Antwerpen, Martin and L. D.:** Slitting machine. 2,787,323, 4-2-57, Cl. 164-60.
- Van Antwerpen, Martin and L. D.:** to Vanant Co., Inc. Scoring and feeding mechanism. 2,812,798, 11-12-57, Cl. 154-30.
- Van Arsdale, Clarence C., Jr.:** and C. L. Rambo. Slide rule. 2,815,172, 12-3-57, Cl. 235-70.

- Van Atta, Chester M.: *See*—
Glennon, James B., Van Atta, and Turlay. 2,789,503.
- Van Baarda, Johan, to North American Philips Co., Inc. Superheterodyne receiver. 2,812,429, 11-5-57, Cl. 250-8.
- Van Bavel, Cornelius H. M., to Iowa State College Research Foundation, Inc. Soil stabilizer and soil treated thereby. 2,793,960, 5-28-57, Cl. 106-287.
- Van Bennekom, Carl F.: *See*—
Truesdell, Francis W., and Van Bennekom. 2,800,248.
- Van Biadl, Jean, to Hartford National Bank and Trust Co., as trustee. Automatic-frequency-correction device. 2,780,726, 2-5-57, Cl. 250-36.
- Van Bochove, Cornelis: *See*—
Roeberson, Hermannus G., and van Bochove. 2,805,196.
- Van Boort, Henricus J. J., and P. K. Buijs, to North American Philips Co., Inc. Device comprising a gas discharge tube. 2,809,366, 10-8-57, Cl. 340-75.
- Van Bree, Pieter, and T. Hagenberg, to Hartford National Bank and Trust Co., as trustee. Cathode-ray tube, more particularly for colour television. 2,781,469, 2-12-57, Cl. 313-92.
- Van Briggie, Elza D., Automatic spark plug cleaning device. 2,785,670, 3-19-57, Cl. 123-191.
- Van Briggie, Robert E.: *See*—
Pabst, Rudolf, and Van Briggie. 2,801,484.
- Van Brode Milling Co., Inc.: *See*—
Colarusso, Augustine L. 2,785,136.
Colarusso, Augustine L. 2,794,553.
Coleman, Sidney, and Colarusso. 2,784,245.
Coleman, Sidney, and Nowak. 2,800,522.
Fritsch, Erich. 2,783,293.
- Van Broekhoven, Jacob, to Westinghouse Electric Corp. Coil winding machine and method in which bobbin assembly rotates slower than coiling head assembly and in a fixed ratio. 2,816,594, 12-17-57, Cl. 153-67.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Fastening device. 2,786,251, 3-26-57, Cl. 24-218.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Fastener ornament. 2,796,650, 6-25-57, Cl. 24-216.
- Van Buren, Harry. Foot measuring device. 2,778,112, 1-22-57, Cl. 33-3.
- Van Buren Wrapping Machine Corp.: *See*—
Frank, Anton R., and Giles. 2,792,219.
- Van Campen, Marcus G., Jr.: *See*—
Schumann, Edward L., Van Campen, and Pogge. 2,804,422.
- Vance, Arthur W.: *See*—
Landon, Vernon D., and Vance. 2,817,788.
- Vance, Arthur W., to Radio Corp. of America. Plugboard for computer programming system. 2,782,275, 2-19-57, Cl. 200-46.
- Vance, Byron T. J., $\frac{1}{2}$ to J. J. Jenkins and W. R. Yozell. Safety valve. 2,785,698, 3-19-57, Cl. 137-458.
- Vance, Donald E. Desk attachment for bleacher seats. 2,776,177, 1-1-57, Cl. 311-17.
- Vance, Hart. Stamp. 2,783,711, 3-5-57, Cl. 101-333.
- Vance, James. Well drilling appendage or device. 2,776,111, 1-1-57, Cl. 255-1.
- Vance, Merton C., to Prosser Packers, Inc. Asparagus butt cutter. 2,800,939, 7-30-57, Cl. 146-82.
- Vance, Paul A., to General Electric Co. Inductive device. 2,784,384, 3-5-57, Cl. 336-100.
- Vance, Robert G., to The Elwell-Parker Electric Co. Roll handling mechanism for an industrial truck. 2,815,878, 12-10-57, Cl. 214-652.
- Vance, Walter. Arrow rest. 2,802,461, 8-13-57, Cl. 124-41.
- Vancil, Cyrus O.: *See*—
Menser, Henry E., Jeffords, and Vancil. 2,781,930.
- Van Cleave, Eugene C., to General Motors Corp. Rotor balancing bolt lock. 2,798,383, 7-9-57, Cl. 74-573.
- Van Clief, William C., Jr., to Pittsburgh Plate Glass Co. Cutting continuous strip bristle stock. 2,785,428, 3-19-57, Cl. 15-205.
- Van Clief, William C., Jr., to Pittsburgh Plate Glass Co. Retaining device for channel strips of spirally wound brushes. 2,817,108, 12-24-57, Cl. 15-182.
- Van Coney, Raymond T., and A. C. Nolte, to The Lodge & Shipley Co. Control mechanism. 2,811,141, 10-29-57, Cl. 121-97.
- Vancura, Carl E.: *See*—
Portney, Phillip, and Vancura. 2,779,609.
- Vandamme, Louis, and L. Rouyer, to Moulinage et Retorderie de Chavanoz. Apparatus for producing curled yarn. 2,780,047, 2-5-57, Cl. 57-34.
- Vandaveer, Roscoe F.: *See*—
Barber, Franklin T., and Vandaveer. 2,797,200.
- Van Deberg, Walter H.: *See*—
Ebbert, Robert, and Van Deberg. 2,790,211.
- Van Deemter, Jan J., and K. Rietema, to Shell Development Co. Method of separating phases by centrifugal force. 2,816,659, 12-17-57, Cl. 210-65.
- Van de Lindt, Willem J., to Hartford National Bank and Trust Co., as trustee. Electrical wave-guide system for producing a phase difference between two output waves and devices containing such a wave-guide system. 2,784,380, 3-5-57, Cl. 333-9.
- Vandeman, Jack E.: *See*—
Schreckengost, Viktor, and Vandeman. 2,791,323.
- Van den Abeele, Vincent. Card flat covering. 2,785,443, 3-19-57, Cl. 19-113.
- Vandenberg, August and B. W. Cow feeder. 2,787,404, 4-2-57, Cl. 222-428.
- Vandenberg, Ben W.: *See*—
Vandenberg, August and B. W. 2,787,404.
- Vandenberg, Howard L., to Allis-Chalmers Mfg. Co. Swivel jaw for chucking irregular surfaced workpieces. 2,815,959, 12-10-57, Cl. 279-123.
- Vandenberg, Robert E.: *See*—
Richey, Clarence B., and Vandenberg. 2,814,351.
- Van Den Bergh, John: *See*—
Reynolds, Delbert D., and Van Den Bergh. 2,789,509.
Reynolds, Delbert D., and Van Den Bergh. 2,789,964.
Reynolds, Delbert D., and Van Den Bergh. 2,789,965.
Reynolds, Delbert D., and Van Den Bergh. 2,789,967.
Reynolds, Delbert D., and Van Den Bergh. 2,789,968.
Reynolds, Delbert D., and Van Den Bergh. 2,789,970.
- Van den Bos, Cornelis. Supporting structure for a mould for a concrete structure. 2,779,990, 2-5-57, Cl. 25-131.5.
- Vanden Bosch, Johan C.: *See*—
Hensgen, Bernard T., and Vanden Bosch. 2,799,586.
- Van Den Broek, Jan A., to Sylvania Electric Products, Inc. Picture projector assembly. 2,809,553, 10-15-57, Cl. 88-24.
- Van den Broek, Paulus W. G., to N. V. Eternit v. h. Eerste Nederlandsche Fabriek van Asbest-Cementplaten "Martinit." Nozzle for or provided on an air distributing box. 2,785,015, 3-12-57, Cl. 299-141.
- Vandenburgh, Charles D.: *See*—
Herschel, Carl E., and Vandenburgh. 2,782,579.
- Vandenburgh, Charles D., to American Viscose Corp. Cylindrical press assembly. 2,800,072, 7-23-57, Cl. 100-127.
- Vandenburgh, Charles D., and H. E. Pape, to American Viscose Corp. Method and apparatus for lacing thread-advancing rotors. 2,794,542, 6-4-57, Cl. 203-65.
- Van den Bussche, Hendrik K. J., to Shell Development Co. Charge-forming apparatus for gas internal combustion engines. 2,781,752, 2-19-57, Cl. 123-120.
- Van den Dool, Teunis C.: *See*—
Poldervaart, Jacob, Kuyvenhoven, van den Dool, and 't Hart. 2,805,138.
- Vanden Hoek, Harold L.: *See*—
Brunson, Virgil A., Verburg, and Vanden Hoek. 2,804,239.
- Van den Thoorn, Adam. Chain latch for doors and the like. 2,805,093, 9-3-57, Cl. 292-264.
- Van de Polder, Leendert J., to Hartford National Bank and Trust Co., as trustee. Circuit-arrangement for producing direct voltages. 2,784,367, 3-5-57, Cl. 321-2.
- Vandeputte, John, and W. Gold, to Olin Mathieson Chemical Corp. Process of recovering nystatin. 2,786,781, 3-26-57, Cl. 167-65.
- Van de Putte, Willem L.: *See*—
Schoenmakers, Pieter J., and Van de Putte. 2,809,023.
- Vanderbilt, Byron M., to Esso Research and Engineering Co. Gasoline sweetening process. 2,776,929, 1-8-57, Cl. 196-32.
- Vanderbilt, R. T., Co., Inc.: *See*—
Brooks, Lester A. 2,794,021.
Somerville, Albert A. 2,776,922.
Somerville, Albert A., and Taylor. 2,802,811.
- Van Der Gaast, Harry. Heel rest for accelerator pedals. 2,802,375, 8-13-57, Cl. 74-560.
- Vandergriff, Arvel L., and K. M. Smith, to Lummus Cotton Gin Co. Apparatus for extracting sticks, stems, burrs and other trash from seed cotton. 2,795,011, 6-11-57, Cl. 19-67.
- Van der Grinten, Lodewijk E., to Chemische Fabriek L. van der Grinten N. V. Apparatus for carrying out a transfer process. 2,810,331, 10-22-57, Cl. 95-89.
- Van der Grinten, Willem J., to General Electric Co. Solid electrolyte cells and batteries. 2,793,244, 5-21-57, Cl. 136-111.
- Van der Heem, Jan. Switching mechanism for a gramophone. 2,814,374, 11-26-57, Cl. 192-124.
- Van der Hoeven, Cornelis J.: *See*—
Blachut, Theodore J., and van der Hoeven. 2,797,579.
- Vanderhooft, John J. Scanning camera. 2,782,699, 2-26-57, Cl. 95-16.
- Vanderhooft, John J. Stereoscopic television means. 2,783,406, 2-26-57, Cl. 313-70.
- Vander Kaay, Henry A., to The New York Air Brake Co. Hydraulic motor control system. 2,789,542, 4-23-57, Cl. 121-39.
- Van der Kerk, Gerrit J. M., to Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. N-trichloromethylthio-4,5-dimethyltetrahydropyridal-imide and fungicidal composition containing same. 2,790,749, 4-30-57, Cl. 167-33.
- Van der Kloot, Albert P.: *See*—
Bergmann, Donald E., Wilcox, Van der Kloot, and Tenney. 2,803,546.
- Van Der Knaap, Pieter D., and A. Boekhorst, to North American Philips Co., Inc. Circuit for separating pulsatory signals. 2,794,914, 6-4-57, Cl. 250-27.
- Van der Laan, Fokke W. Fire-extinguisher. 2,809,700, 10-15-57, Cl. 169-32.

- Van der Lely, Ary : *See*—
 Van der Lely, Cornelis and A. 2,794,276.
 Van der Lely, Cornelis and A. 2,807,927.
 Van der Lely, Cornelis and A. 2,816,414.
- Van der Lely, C., N. V. : *See*—
 Van der Lely, Cornelis and A. 2,807,927.
 Van der Lely, Cornelis and A. 2,816,414.
- Van der Lely, Cornelis and A. Non-obstructing type pivoted gate. 2,794,276, 6-4-57, Cl. 39-55.
- Van der Lely, Cornelis and A., to C. van der Lely N. V. Side delivery rake with different diameter raking wheels. 2,807,927, 10-1-57, Cl. 56-377.
- Van der Lely, Cornelis and A., to C. van der Lely N. V. Raking device having a rake wheel bearing crank extending in forward direction. 2,816,414, 12-17-57, Cl. 56-377.
- Vanderlinde, Clarence, and G. B. Morse, to Madison Mfg. Co. Adjustable bore gauge. 2,799,091, 7-16-57, Cl. 33-178.
- Van der Linden, Petrus C. : *See*—
 Janssen, Gerardus H., and van der Linden. 2,798,007.
 Teves, Marten C., Tol, and Van der Linden. 2,779,685.
- Vander Lugt, Thomas, Jr. : *See*—
 Buttery, Kenneth T., and Vander Lugt. 2,798,655.
- Vander Meer, Clayton H. : *See*—
 Hoover, Michael C., and Vander Meer. 2,796,538.
- Van der Molen, Evert, to Krauss-Maffei A. G. Centrifuge drum. 2,806,603, 9-17-57, Cl. 210-380.
- Vander Molen, Herman, Crutch. 2,797,698, 7-2-57, Cl. 135-49.
- Van der Plas, Arie, to Fijn-Mechanische Industrie Becker's Sons N. V. Freewheel hubs, preferably provided with internally arranged back pedalling brakes, for a cycle wheel. 2,800,986, 7-30-57, Cl. 192-6.
- Van der Plas, Franciscus J. F. : *See*—
 Dierick, Gerarda F. E. M., van Dijk, and van der Plas. 2,784,136.
- Van Dijk, Christiaan P., and van der Plas. 2,813,850.
- Vanderpoel, Albert G. Atmospheric timing control. 2,778,892, 1-22-57, Cl. 200-31.
- Vanderpoel, Albert G. H. Fuel injection system. 2,788,082, 4-9-57, Cl. 183-14.
- Van der Poel, Franciscus H. J., and J. J. P. Valetton, to North American Philips Co., Inc. Motor control arrangement. 2,809,337, 10-8-57, Cl. 318-175.
- Vander Poel, Frederick T., to Armstrong Cork Co. Honeycomb core material and method of fabricating the same. 2,815,795, 12-10-57, Cl. 154-28.
- Van der Sijde, Dirk W., and P. Zijp, to North American Philips Co., Inc. Plural band superheterodyne receiver with improved tracking. 2,812,434, 11-5-57, Cl. 250-20.
- Vanderslice, Perry R., and A. J. Goodwin, to Sylvania Electric Products Inc. Bulb feed for tube making machine. 2,817,429, 12-24-57, Cl. 198-24.
- Van Der Sluys, William : *See*—
 Candlin, James E., Jr., and Van Der Sluys. 2,812,725.
 Candlin, James E., Jr., and Van Der Sluys. 2,816,517.
 Miers, Archie M., and Van Der Sluys. 2,816,683.
- Van Der Sluys, William, to Pullman-Standard Car Mfg. Co. Folding bed counterbalance mechanism. 2,779,032, 1-29-57, Cl. 5-164.
- Van Der Ster, Johannes : *See*—
 Jonkers, Cornelius O., Köhler, and Van Der Ster. 2,802,345.
- Van der Syde, Dirk W. : *See*—
 Boelens, Willem W., and van der Syde. 2,784,308.
- Vanderveld, Anthony. Refrigerator latch. 2,790,665, 4-30-57, Cl. 292-336.
- Vanderveld, Anthony. Latch structure. 2,790,666, 4-30-57, Cl. 292-341,17.
- Vandervoort, Paul, to Extraction Continue de Smet. Method for the refining of oils and fatty substances. 2,786,858, 3-26-57, Cl. 260-426.
- Van Der Waarden, Mathijs, and J. M. Hörchner, to Shell Development Co. Preparation of basic polyvalent metal salts of organic sulfonic acids. 2,794,829, 6-4-57, Cl. 260-505.
- Vander Wal, Robert J., J. Harwood, and R. A. Reck, to Armour and Co. Bis (9-and-10-hydroxyoctadecyl) amines. 2,818,434, 12-31-57, Cl. 260-584.
- Van der Weel, Thonis J., to N. V. Algemeene Norit Maatschappij. Shaped activated carbon medicinal coated with carboxyalkyl ether. 2,787,579, 4-2-57, Cl. 167-82.
- Van Der Werff, Jacob B., to Consolidated Electrodynamics Corp. Recording apparatus. 2,806,756, 9-17-57, Cl. 346-74.
- Van der Weyden, Josephus A. C., to Everts & Van Der Weyden N. V. Rail spike. 2,797,876, 7-2-57, Cl. 238-349.
- Van der Willigen, Paul C., to North American Philips Co., Inc. Method of manufacturing stud welding cartridges and method of welding. 2,809,275, 10-8-57, Cl. 219-99.
- Van der Willigen, Paul C., N. S. T. Feldberg, and G. Otten, to North American Philips Co., Inc. Automatic welding device. 2,809,280, 10-8-57, Cl. 219-130.
- Van der Winden, Johannes B., to Gebr. Stork & Co.'s Apparatenfabriek N. V. Apparatus for sterilizing and pasteurizing goods in containers. 2,806,423, 9-17-57, Cl. 99-362.
- Vande Sande, George, and H. S. Wynn, to General Railway Signal Co. Weight recording system for moving railway cars. 2,806,685, 9-17-57, Cl. 265-5.
- Van Dette, Virgil P. Screen sash. 2,797,750, 7-2-57, Cl. 160-392.
- Van Deussen, William R., Jr. Borderless easel for photographic projection printing. 2,803,166, 8-20-57, Cl. 88-24.
- Vandevenne, Jean P. H. : *See*—
 Pouliart, Willy H. P., and Vandevenne. 2,807,004.
- Vandeventer, David : *See*—
 Hance, Richard J., Spengel, Vandeventer, and Steinbright. 2,815,500.
- Vandeventer, David, to Leeds and Northrup Co. Fail-safe arrangement for multiple-point recorders. 2,808,549, 10-1-57, Cl. 318-28.
- Van Deventer, Frank M., to Walworth Co. Valves. 2,799,468, 7-16-57, Cl. 251-124.
- Van Deventer, Harry R., to Telephone Answering and Recording Corp. Signalling apparatus. 2,793,251, 5-21-57, Cl. 179-6.
- Van Deventer, Harry R., and J. J. Shively, to Telephone Answering and Recording Corp. Telephone answering and recording devices. 2,777,013, 1-8-57, Cl. 179-6.
- Van Deventer, Harry R., and P. C. Bailey, to Telephone Answering and Recording Corp. Telephone answering and recording devices. 2,793,250, 5-21-57, Cl. 179-6.
- Van Deventer, Harry R., J. J. Shively, and P. C. Bailey, to Telephone Answering and Recording Corp. Telephone answering and recording devices. 2,799,726, 7-16-57, Cl. 179-6.
- Van Deventer, Harry R., J. J. Shively, and P. C. Bailey, to Telephone Answering and Recording Corp. Telephone answering and recording devices. 2,800,530, 7-23-57, Cl. 179-6.
- Van De Walker, Ray A. Model airplane fuel tank control. 2,788,064, 4-9-57, Cl. 153-36.6.
- Van De Warker, Merle M., and R. R. Butler, to Crawford Door Co. Nylon roller assembly. 2,805,107, 9-3-57, Cl. 308-190.
- Van de Wateren, Cornelius G., to Shell Development Co. Pipe secured to plate with sealing means effective against high pressure and temperature change. 2,788,994, 4-16-57, Cl. 285-192.
- Vandeweghe, Charles : *See*—
 Vandeweghe, Joseph. 2,786,791.
- Vandeweghe, Ernest : *See*—
 Vandeweghe, Joseph. 2,786,791.
- Vandeweghe, Joseph, 37% to J. Vandeweghe, 13% to S. H. Katz, 18% to R. Vandeweghe, 11% to C. Vandeweghe, 11% to E. Vandeweghe, and 10% to C. A. Ragan. Method of transferring cut fur to a backing. 2,786,791, 3-26-57, Cl. 154-77.
- Vandeweghe, Robert : *See*—
 Vandeweghe, Joseph. 2,786,791.
- Van Dijk, Willem J. D. : *See*—
 Broeze, Johannes J., and van Dijk. 2,814,551.
 Evans, Harry D., and Van Dijk. 2,797,769.
- Van Dijk, Willem J. D. Loud-speaker enclosure. 2,810,448, 10-22-57, Cl. 181-31.
- Van Dijk, Willem J. D., to Shell Development Co. Reciprocating compression-reactor for short period, high temperature and high pressure chemical reactions. 2,814,552, 11-26-57, Cl. 23-252.
- Van Dijk, Willem J. D., to Shell Development Co. Method and apparatus for recovering shale oil from oil shale. 2,814,587, 11-26-57, Cl. 202-3.
- Van Dijk, Christiaan P. : *See*—
 Dierick, Gerarda F. E. M., van Dijk, and van der Plas. 2,784,136.
- Van Dijk, Christiaan P., N. Max, and J. B. de Jonge, to Shell Development Co. Preparation of diesters of terephthalic acid. 2,802,861, 8-13-57, Cl. 260-475.
- Van Dijk, Christiaan P. and F. J. F. van der Plas, to Shell Development Co. Process for polymerizing unsaturated compounds in an aqueous medium. 2,813,850, 11-19-57, Cl. 260-92.8.
- Van Dijk, Johannes H. J., A. H. Hoefkens, and F. R. Schepman, to North American Philips Co., Inc. Method of manufacturing optical, aspherical correction elements. 2,789,318, 4-23-57, Cl. 18-59.
- Van Dijk, Pieter, to Investigacao E Exploracao Industrial (S. A. R. L.). Process for separating kernels from hard-shelled nuts. 2,806,501, 9-17-57, Cl. 146-223.
- Vandiver, William W. : *See*—
 Mathis, Clyde H., Siedenstrang, and Vandiver. 2,813,141.
- Vandivere, Edgar F., Jr. Recording and reproducing systems. 2,780,679, 2-5-57, Cl. 179-100.1.
- Van Dolah, Delos B. : *See*—
 Hensgen, Bernard T., Van Dolah, Patterson, and Lis. 2,795,790.
 Lentz, Irvin R., and Van Dolah. 2,782,457.
- Van Dongen, Jan R. J., to Shell Development Co. Separation process. 2,807,156, 9-24-57, Cl. 62-175.5.
- Van Dongen, Dingeman, to N. V. Bronswerk. Vertically swinging closure operator. 2,779,589, 1-29-57, Cl. 268-75.
- Van Donkersgoed, Gerrit, and L. J. Tummers, to North American Philips Co., Inc. Transistor. 2,789,257, 4-16-57, Cl. 317-235.
- Van Doorn, Adriaan G., to North American Philips Co., Inc. Cathode-ray tube for image reproduction. 2,813,214, 11-12-57, Cl. 313-78.

- Van Dorn, Horace B., to The Fafnir Bearing Co. Race contour scanning gage. 2,781,661, 2-19-57, Cl. 73—37.9.
- Van Douwe, Dirk, to N. V. Maatschappij-Koffiepellerij Blaauwhoevenveem. Color sorting machine. 2,776,747, 1-8-57, Cl. 209—111.
- Vandre, Bernard G. Adjustable rear flap for boats. 2,807,228, 9-24-57, Cl. 114—145.
- Van Drie, Gerhardt W. Aggregate machine. 2,791,331, 5-7-57, Cl. 209—134.
- Van Dusen, Charles A., R. F. Wittenmyer, and J. A. Richter, to Throatless Press Co. Wide throat press. 2,799,187, 7-16-57, Cl. 78—42.
- Van Dusen, Harold A., Jr., to McGraw Co. Luminaires. 2,798,941, 7-9-57, Cl. 240—11.2.
- Van Dusen, Harold W. Sheet collating machine. 2,793,032, 5-21-57, Cl. 270—58.
- Van Dusen, Laurence W. Necktie hanger. 2,777,582, 1-15-57, Cl. 211—119.
- Van Duuren, Hendrik C. A., to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Telegraph system. 2,805,278, 9-3-57, Cl. 178—2.
- Van Dyke, George S., Jr.: See—
- Rove, Gene, Van Dyke, and Nabreski. 2,789,508.
- Van Eck, Constantijn L. V. P. B., and W. C. B. Smithuysen, to Shell Development Co. Hexafluorophosphoric acid and organic sulfur compounds. 2,789,116, 4-16-57, Cl. 260—329.3.
- Van Essen, Harold E., Jr.: See—
- McGuire, Willis C., Morehouse, Walde, and Van Essen. 2,815,313.
- Van Eyk, Christiaan J., to Seaboard Electric Co. Audio signal device. 2,797,409, 6-25-57, Cl. 340—384.
- Van Eyk, Christiaan J. Electromechanical timing device. 2,814,692, 11-26-57, Cl. 200—90.
- Van Fleet, Rodney S. Measuring rules. 2,795,050, 6-11-57, Cl. 35—138.
- Van Fleet, Vincent. Window guide spring assembly. 2,781,876, 2-19-57, Cl. 189—72.
- Van Fleet, Vincent, and E. Richards, to Security Sash & Screen Co. Awning. 2,814,079, 11-26-57, Cl. 20—57.5.
- Vang, Alfred, ½ to G. Hart. Washing machines having magnetically actuated diaphragms. 2,776,558, 1-8-57, Cl. 68—53.
- Vang, Alfred. Joining ends of wires. 2,777,046, 1-8-57, Cl. 219—104.
- Vang, Alfred. Protection of circuit breakers and metallic switches for carrying large currents. 2,789,253, 4-16-57, Cl. 317—11.
- Vang, Alfred. Means for controlling the movements of fish. 2,808,674, 10-8-57, Cl. 43—17.1.
- Vang, Alfred. Eradication of pests harmful to man, or to his domestic animals. 2,812,612, 11-12-57, Cl. 43—124.
- Van Gaasbeek, Richard, and E. A. Seiz. Filter. 2,786,576, 3-26-57, Cl. 210—152.
- Van Gelder, Gozewijn, to Hartford National Bank and Trust Co., as trustee. Transversely flexible coupling. 2,784,574, 3-12-57, Cl. 64—10.
- Vangor, William, to Lorraine Novelty Mfg. Co., Inc. United folding leg table. 2,792,269, 5-14-57, Cl. 311—82.
- Van Gorum, Adriaan H., to North American Philips Co., Inc. Automatic temperature regulating system. 2,808,496, 10-1-57, Cl. 219—20.
- Van Hardefeld, Andries, and F. M. van Tillo, to Stamicarbon N. V. Vibrating screen. 2,804,208, 8-27-57, Cl. 209—403.
- Van Hare, George, Jr., and L. N. Allen, Jr. Process of separating zinc from ammoniacal solutions of copper and zinc. 2,805,918, 9-10-57, Cl. 23—61.
- Van Hare, George F., Jr., to American Cyanamid Co. Precipitation of elemental metal powder. 2,813,020, 11-12-57, Cl. 23—61.
- Van Hecke, George J.: See—
- Griffith, Raymond C., and Van Hecke. 2,789,539.
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- Van Hekken, Frans, and M. R. Weingarten, to Radio Corp. of America. Color kinescopes. 2,795,718, 6-11-57, Cl. 313—85.
- Van Hess, Hubert W., and E. C. Hartwig, to Westinghouse Electric Corp. Electric discharge apparatus. 2,785,284, 3-12-57, Cl. 219—108.
- Van Hofweegen, Johannes M., to North American Philips Co., Inc. Push-pull frequency modulator. 2,805,395, 9-3-57, Cl. 332—24.
- Van Hoose, Neal C., to Agatan Stone and Machinery Co. Stone cutting machine. 2,798,475, 7-9-57, Cl. 125—23.
- Van Horn, John A., P. E. Biemiller, and J. H. Reese, to Hamilton Watch Co. Contact mechanism for battery operated watch. 2,806,908, 9-17-57, Cl. 200—19.
- Van Horn, Samuel E. Shingling scaffold. 2,814,533, 11-26-57, Cl. 304—21.
- Van Horn, Willis M., B. F. Shema, W. H. Shockley, and J. H. Conkey, to The Institute of Paper Chemistry. Sheets comprising filaments of fungi. 2,811,442, 10-29-57, Cl. 92—3.
- Van House, Robert M., to General Motors Corp. Laminated spring. 2,814,481, 11-26-57, Cl. 267—47.
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- Van Huben, Lewis C.: See—
- Alsdorf, Ralph E. 2,807,077.
- Van Huben, Lewis C. Radiator raising and transporting jacks. 2,784,860, 3-12-57, Cl. 214—650.
- Vani, James, to Controlled Heat Transfer Corp. Heat exchange apparatus. 2,791,888, 5-14-57, Cl. 62—91.5.
- Vanier, John J., and J. T. Landes, to The Western Star Mill Co. Apparatus for unloading bulk products. 2,799,407, 7-16-57, Cl. 214—17.
- Vanier, Vincent P. Pipe hanger. 2,780,429, 2-5-57, Cl. 248—59.
- Vanier de Saint Annay, Rene M. H., and M. L. Lefebvre, to Compagnie Francaise des Matieres Colorantes. New optical bleaching agents and processes for the preparation thereof. 2,813,864, 11-19-57, Cl. 260—249.6.
- Vaniman, George H., and C. O. Christensen. Packing apparatus and methods. 2,811,990, 11-5-57, Cl. 141—12.
- Vaniman, George H., and C. O. Christensen. Apparatus for packing foods. 2,812,785, 11-12-57, Cl. 141—164.
- Vaniman, Robert S., to General Telephone Laboratories, Inc. Cordless attendant's cabinet with call interception. 2,806,090, 9-10-57, Cl. 179—27.
- Van Iperen, Dirk C., to North American Philips Co., Inc. Method for the local heating of metallic workpieces by inductive HF-heating and HF-inductor. 2,785,263, 3-12-57, Cl. 219—10.41.
- Van Iperen, Dirk C., to North American Philips Co., Inc. Inductor. 2,790,055, 4-23-57, Cl. 219—10.79.
- Van Iperen, Dirk C., to North American Philips Co., Inc. Plate-shaped inductor for inductive high-frequency heating. 2,809,264, 10-8-57, Cl. 219—10.79.
- Van Julsingha, Jacob, to N. V. Centrale Suiker Maatschappij. Process for separating nitrogenous compounds from molasses by means of ion exchange. 2,785,179, 3-12-57, Cl. 260—326.3.
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- Vanko, John. Closure for collapsible tubes and the like. 2,808,184, 10-1-57, Cl. 222—525.
- Van Krevelen, Edward K., to General Mills, Inc. Code telemetering. 2,782,400, 2-19-57, Cl. 340—204.
- Van Lare, Earl J.: See—
- Brooker, Leslie G. S., and Van Lare. 2,778,823.
- Brooker, Leslie G. S., and Van Lare. 2,786,054.
- Van Lear, George A., and W. J. Glasson, to Hughes Aircraft Co. Servo-torque system. 2,816,451, 12-17-57, Cl. 74—202.
- Van Lear, Glenwood M. Electric cable. 2,800,524, 7-23-57, Cl. 174—116.
- Van Leeuwen, George. Flow control gates. 2,778,194, 1-22-57, Cl. 61—28.
- Van Leeuwen, Gordon, to Stoner Mfg. Corp. Dispensing apparatus and agitator therefor. 2,794,577, 6-4-57, Cl. 222—227.
- Van Leeuwen, Pieter, to North American Philips Co., Inc. Connecting strip. 2,802,971, 8-13-57, Cl. 317—112.
- Van Loon, Willem, to Stamicarbon N. V. Furnace suitable for use in performing reduction processes at high temperatures. 2,814,478, 11-26-57, Cl. 266—27.
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- Van Loon, Willem, and S. Koopal, to Stamicarbon N. V. Preparation of calcium carbide. 2,794,706, 6-4-57, Cl. 23—208.
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- Van Meter, Patrick J. Detachable body for trucks. 2,808,291, 10-1-57, Cl. 296—61.
- Van Meter, Theodore, to Vickers Inc. Single pump, plural motor power transmission. 2,799,996, 7-23-57, Cl. 60—97.
- Van Meter, Theodore, to Vickers Inc. Power transmission. 2,809,611, 10-15-57, Cl. 121—38.
- Van Meter, William J. Double-hinged door. 2,796,628, 6-25-57, Cl. 16—147.
- Van Moss, John H., Jr. Slack adjuster. 2,776,028, 1-1-57, Cl. 188—198.
- Van Ness, Hubert W., to Westinghouse Electric Corp. Electric discharge apparatus. 2,802,146, 8-6-57, Cl. 315—166.
- Van Nest, Arden L., and M. Wallberg, to Western Electric Co., Inc. Device for inserting protector blocks into protector block shells. 2,795,842, 6-18-57, Cl. 29—211.
- Van Nest, Francis H.: See—
- Smith, Andrew N., and Van Nest. 2,799,473.
- Van Nice, Robert I.: See—
- Hall, William G., and Van Nice. 2,798,970.
- Hall, William G., and Van Nice. 2,806,554.
- Van Niel, Clarence R., and J. J. Sasena, to Tinnerman Products, Inc. Closure fastener. 2,804,116, 8-27-57, Cl. 151—41.75.
- Van Norman, Truman B. Antiskid device. 2,811,225, 10-29-57, Cl. 188—5.
- Vano, Gerald L. Tape splicer. 2,789,620, 4-23-57, Cl. 154—42.3.
- Van Olphen, Hendrik, to Shell Development Co. Method of controlling the viscosity of drilling muds. 2,816,866, 12-17-57, Cl. 252—8.5.
- Van Oosterhout, Gerard W.: See—
- Duinker, Simon, and van Oosterhout. 2,813,256.

- Van Oosterhout, Gerard W., and A. Bol, to Hartford National Bank and Trust Co., as trustee. Method of providing silver layers. 2,776,915, 1-8-57, Cl. 117-212.
- Van Oosterhout, Gerard W., G. W. Rathenau, and J. Smit, to North American Philips Co., Inc. Ferromagnetic body. 2,818,551, 12-31-57, Cl. 336-212.
- Van Orden, Harold E.: See—
- Gregor, John R., and Van Orden. 2,811,430.
- Van Orden, Leo J.: See—
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- Van Order, Robert B., and R. H. Hill, to American Cyanamid Co. Manufacture of ultramarine blue. 2,806,802, 9-17-57, Cl. 106-305.
- Van Ord, Jay H., to A. C. Weber & Co., Inc. Elevating and supporting device. 2,789,875, 4-23-57, Cl. 312-30.
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- Van Overbeek, Adrianus J. W. M., to Hartford National Bank and Trust Co., as trustee. Circuit for television picture tubes. 2,784,342, 3-5-57, Cl. 315-21.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Transistor amplifier circuit. 2,812,390, 11-5-57, Cl. 179-171.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Transistor-oscillator circuit. 2,812,436, 11-5-57, Cl. 250-36.
- Van Peborgh, Robert. Transverse compensating bar stabilizer arrangement for vehicle suspensions. 2,796,267, 6-18-57, Cl. 280-112.
- Van Praag, Maurice. Device for fixing a transparency. 2,796,688, 6-25-57, Cl. 40-131.
- Van Ranst, Cornelius W. Air inlet arrangement for combustion engines. 2,796,853, 6-25-57, Cl. 123-55.
- Van Ranst, Cornelius W. Link saw chain. 2,796,895, 6-25-57, Cl. 143-135.
- Van Rijswijk, Anthonius: See—
- Vergers, Willem C. H. G., Kreek, and van Rijswijk. 2,807,953.
- Van Riper, Courtney J., to Union Bag-Camp Paper Corp. Method and apparatus for reducing rolls to sheets. 2,804,140, 8-27-57, Cl. 164-17.
- Van Roosbroeck, Willy W., to Bell Telephone Laboratories, Inc. Semiconductor translating device and circuit. 2,794,863, 6-4-57, Cl. 179-171.
- Van Rooy, Alphonsus F.: See—
- Niklas, Wilfrid F. K. J., van Wijngaarden and Van Rooy. 2,805,351.
- Van Rosen, Robert E., to Robert Gair Co., Inc. Box with automatic closure. 2,799,442, 7-16-57, Cl. 229-37.
- Van Rosen, Robert E. Handle for paperboard containers and the like. 2,807,407, 9-24-57, Cl. 229-52.
- Van Rossem, Walter J. Preparation of reversible hydrocolloid impressions. 2,799,054, 7-16-57, Cl. 18-55.1.
- Van Ryan, Anthony: See—
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- Van Ryan, Anthony, to McGraw-Edison Co. Circuit interrupter. 2,810,804, 10-22-57, Cl. 200-89.
- Van Ryan, Anthony, and K. H. Date, to McGraw-Edison Co. Circuit interrupter. 2,804,521, 8-27-57, Cl. 200-98.
- Van Ryan, Anthony, and K. H. Date, to McGraw-Edison Co. Circuit interrupter. 2,810,038, 10-15-57, Cl. 200-89.
- Van Schie, Robert J. Sheet transfer device. 2,783,872, 3-5-57, Cl. 198-218.
- Van Scoyk, Melvin W., to Winner Mfg. & Sales Co. Tire casing spotters. 2,814,073, 11-26-57, Cl. 18-18.
- Van Scoyoc, James N., to Armour Research Foundation of Illinois Institute of Technology. Magnetic amplifier. 2,794,165, 5-28-57, Cl. 323-89.
- Vansickle, Calvin L., to Dominion Foundries and Steel Ltd. Height level control for sheets being stacked. 2,801,756, 8-6-57, Cl. 214-6.
- Van Sickle, George A.: See—
- Arrighini, Artile, and Van Sickle. 2,789,337.
- Van Sicken, William C.: See—
- Schneider, Helmuth G., and Van Sicken. 2,786,828.
- Van Sittert, Paul R., to The Rotor Tool Co. Sanding machine. 2,815,613, 12-10-57, Cl. 51-135.
- Van Skike, Guy F., to Trans World Airlines, Inc. Valve guide assembly. 2,797,676, 7-2-57, Cl. 123-188.
- Van Slooten, Jacob, to Hartford National Bank and Trust Co., as trustee. Television receiver having superregenerative detection of the sound signal. 2,780,669, 2-5-57, Cl. 178-5.8.
- Van Slyke, Albert L. Dispenser. 2,781,152, 2-12-57, Cl. 222-81.
- Van Steenis, Otto L.: See—
- Roovers, Wilhelmus A., and Van Steenis. 2,780,892.
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- Van Steenis, Otto L., to North American Philips Co., Inc. Method of manufacturing cathode ray tube. 2,799,123, 7-16-57, Cl. 49-82.
- Van Stryk, Frederick G., and M. Kulka, to United States Rubber Co. Insecticides. 2,802,769, 8-13-57, Cl. 167-30.
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- Van Swaay, Henri. Method of forming splints. 2,800,129, 7-23-57, Cl. 128-90.
- Vant, Isadore N. Automatic burner. 2,812,017, 11-5-57, Cl. 158-81.
- Vant-Hull, Lorin L.: See—
- Smith, Sidney T., and Vant-Hull. 2,818,524.
- Van Tilburg, Jan. Transmission. 2,803,968, 8-27-57, Cl. 74-365.
- Van Tilburg, Jan. Mixture-compressing piston-combustion engine. 2,810,372, 10-22-57, Cl. 123-41.16.
- Van Tilburg, Piet: See—
- Greefkes, Johannes A., and Van Tilburg. 2,780,672.
- Van Tilburg, Piet, to North American Philips Co., Inc. System for pulse-code modulation. 2,798,118, 7-2-57, Cl. 179-15.
- Van Tillo, Franciscus M.: See—
- Van Hardefeld, Andries, and van Tillo. 2,804,208.
- Vantine, Harry, Jr. Crystal saving arrangement for multichannel high frequency electronic equipment. 2,816,229, 12-10-57, Cl. 250-36.
- Vantlander, Edward, to American Seal-Kap Corp. of Delaware. Stamping apparatus. 2,796,827, 6-25-57, Cl. 101-44.
- Van Tol, Martinus, to North American Philips Co., Inc. Circuit-arrangement for electrically measuring or regulating a variable factor. 2,787,710, 4-2-57, Cl. 250-36.
- Van 't Spijker, Peter, to Shell Development Co. Gas-liquid separator with quenching means and separating method. 2,796,389, 6-18-57, Cl. 196-93.
- Van Tuyle, Herbert O. Lumberman's rule. 2,790,242, 4-30-57, Cl. 33-107.
- Van Vactor, Alburus O. Automatic merchandising unit. 2,806,631, 9-17-57, Cl. 221-13.
- Van Vactor, Benjamin H., to National Mine Service Co. Exhaust gas conditioner. 2,790,506, 4-30-57, Cl. 183-26.
- Van Valkenburg, Howard E., to Sperry Products, Inc. Ultrasonic liquid depth indicator. 2,787,160, 4-2-57, Cl. 73-290.
- Van Valkenburg, Howard E., and E. G. Cook, to Sperry Products, Inc. Static scanning device in ultrasonic inspection of materials. 2,787,158, 4-2-57, Cl. 73-67.5.
- Van Veen, Anton. Hand counter. 2,818,214, 12-31-57, Cl. 235-117.
- Van Vleck, Forest A. Box stacking machine. 2,796,179, 6-18-57, Cl. 214-6.
- Van Voorhees, Harold E.: See—
- Walther, Frederick C., and Van Voorhees. 2,809,690.
- Vanvoorhees, Joan H.: See—
- Boone, Ronald E., and Aldrich. 2,786,553.
- Van Wagner, Rollo E., to The Fate-Root-Health Co. Saw chain with detachable cutters. 2,801,653, 8-6-57, Cl. 143-135.
- Van Weel, Adelbert, to North American Philips Co., Inc. Device for measuring the phase between two voltages. 2,787,762, 4-2-57, Cl. 324-85.
- Van Weel, Adelbert, to North American Philips Co., Inc. Frequency-stabilized oscillator. 2,790,078, 4-23-57, Cl. 250-36.
- Van Weelden, Bert: See—
- Cummings, Donald G., Woods, and Van Weelden. 2,783,389.
- Van Weenen, Franciscus L., and A. A. Dros, to North American Philips Co., Inc. Hot-gas reciprocating engine construction. 2,817,950, 12-31-57, Cl. 60-24.
- Van Wezel, Herman J., to Koninklijke Machinefabriek Gebr. Stork & Co. N. V. Continuously operating centrifugal machine. 2,779,473, 1-29-57, Cl. 210-69.
- Van Wezel, Herman J., to Koninklijke Machinefabriek Gebr. Stork & Co. N. V. Continuously operating centrifugal machine. 2,779,474, 1-29-57, Cl. 210-69.
- Van Wieringen, Adrianus: See—
- Van Amstel, Johannes J. A., Ploos, and van Wieringen. 2,803,791.
- Van Wieringen, Adrianus, to North American Philips Co., Inc. Semi-conductor electrode system. 2,805,369, 9-3-57, Cl. 317-236.
- VanWiggeren, Richard C., to Sperry Rand Corp. Unit type book stack. 2,803,351, 8-20-57, Cl. 211-136.
- Van Wijngaarden, Jan: See—
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- Van Winkle, Edgar W., to the United States of America as represented by the Secretary of the Navy. Focus compensation circuit. 2,808,537, 10-1-57, Cl. 315-22.
- Van Winkle, John L.: See—
- Morris, Rupert C., and Van Winkle. 2,815,361.
- Van Winkle, John L., to Shell Development Co. Preparation of trichloromethanephosphonic acid. 2,785,197, 3-12-57, Cl. 260-500.
- Van Wirt, Alfred E., L. J. Gagliano, and C. W. Shonnard, to Imperial Paper and Color Corp. Process for production of alkali ferrocyanides and ammonium sulfate. 2,788,259, 4-9-57, Cl. 23-76.
- Vanyo, John A., Jr.: See—
- Hibner, Delos E., Jr., and Vanyo. 2,811,954.
- Vanzo, Marcello, D. Giletta, and U. Nuara, to Pirelli, S. p. A. Machine for building pneumatic tires. 2,814,330, 11-26-57, Cl. 154-9.
- Vanzo, Marcello, D. Giletta, and U. Nuara. Process for building pneumatic tires. 2,814,331, 11-26-57, Cl. 154-14.

- Vapor Heating Corp.: *See*—
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- Vapor Recovery Systems Co.: *See*—
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- Varela, Andrew A., to American Cyanamid Co. Resinous polyester composition containing benzoguanamine formaldehyde resin to prevent cracking. 2,809,951, 10-15-57, Cl. 260-39.
- Varela, Andrew A., and H. T. Bangs, to American Cyanamid Co. Spray molding process. Re. 24,351, 8-27-57, Cl. 18-60.
- Varela, Andrew A., and H. T. Bangs, to American Cyanamid Co. Spray molding process. 2,781,553, 2-19-57, Cl. 18-60.
- Vargo, Paul, and T. A. Foster, Jr., to General Electric Co. Apparatus for making solder terminals. 2,808,636, 10-8-57, Cl. 29-25.2.
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Gardner, Bernard C., Salisbury, and Ward. 2,798,184.
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- Varian, Sigurd F., and D. L. Snow, to Varian Associates. High frequency device. 2,789,250, 4-16-57, Cl. 315-5.21.
- Varner, David E. Wire straightener. 2,803,287, 8-20-57, Cl. 153-100.
- Varner, John J. Sand trap and bottom hole separator. 2,783,716, 3-5-57, Cl. 103-220.
- Varrall, Ralph W., to Bell Aircraft Corp. Machining tool. 2,807,988, 10-1-57, Cl. 90-24.
- Varvel, Charles W., to Phillips Petroleum Co. Apparatus for measuring flow. 2,799,165, 7-16-57, Cl. 73-204.
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- Vasel, Gustav A. Printing plate. 2,791,052, 5-7-57, Cl. 41-25.
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- Vassel, Bruno, to International Minerals & Chemical Corp. Process for the production of tyrosine. 2,795,605, 6-11-57, Cl. 260-519.
- Vassel, Bruno, to International Mineral & Chemical Corp. Synthesis of betaine hydrate. 2,800,502, 7-23-57, Cl. 260-501.
- Vassel, Bruno, to International Minerals & Chemical Corp. Higher alkyl amine salts of glutamic acid. 2,802,864, 8-13-57, Cl. 260-501.
- Vassel, Bruno, to International Minerals & Chemical Corp. L-glutamine synthesis. 2,806,859, 9-17-57, Cl. 260-345.8.
- Vasseur, Jean P., to Societe Francaise Radio-Electrique. Pulse code modulation systems. 2,807,783, 9-24-57, Cl. 332-11.
- Vassiliev, Vladimir M., to Carbon Heater Corp. Fixed electrode water heater. 2,783,355, 2-26-57, Cl. 219-40.
- Vastano, Joseph J., to Flex-Let Corp. Link for expandable bracelets having an intermediate connector carrying plate. 2,805,541, 9-10-57, Cl. 59-79.
- Vastine Engineering Co. Inc.: *See*—
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- Vastine, Ray P., to Vastine Engineering Co. Inc. Fluid current conveyor system for sawdust-like material. 2,804,350, 8-27-57, Cl. 302-50.
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- Vaughan, Francis B.: *See*—
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- Vaughan, Harry H., to Jones & Laughlin Steel Corp. Beneficiation of nickel-containing iron ores. 2,797,155, 6-25-57, Cl. 75-1.
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- Vaughan, James R., Jr.: *See*—
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- Vaughan, James R., Jr., K. H. Wood, and R. W. Young, to American Cyanamid Co. Heterocyclic sulfonamides. 2,783,240, 2-26-57, Cl. 260-306.8.
- Vaughan, John C.: *See*—
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- Vaughan Mfg. Co.: *See*—
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- Vaughan, Paul J., to The Goodyear Tire & Rubber Co. Method of thermally sealing rubber hydrochloride films. 2,782,140, 2-19-57, Cl. 154-124.
- Vaughan, Robert C., to Dormeyer Corp. Food mixer. 2,807,447, 9-24-57, Cl. 259-105.
- Vaughan, Walter W. Film hanger. 2,817,280, 12-24-57, Cl. 95-100.
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- Vaughan, William E., F. F. Rust, and E. R. Bell, to Shell Development Co. Process for effecting free radical reactions involving abstraction of hydrogen by vaporized hydrogen peroxide. 2,818,441, 12-31-57, Cl. 260-632.
- Vaughn, Carvis U. Endless chain log turner. 2,792,034, 5-14-57, Cl. 143-102.
- Vaughn, Charles O., to Hunt Heater Corp. Barbecue machine. 2,796,019, 6-18-57, Cl. 99-346.
- Vaughn, Emmett C., to Kwik-Fit Corp. Window adapter. 2,813,311, 11-19-57, Cl. 20-11.
- Vaughn, Everett W., and H. E. Koerner, to Westinghouse Electric Corp. Manufacture of X-ray apparatus. 2,801,671, 8-6-57, Cl. 154-1.
- Vaughn, Guy W., Jr., and C. R. Sacchini, to Curtiss-Wright Corp. Marquette Metal Products Division. Card clothing treatment mechanism. 2,779,063, 1-29-57, Cl. 19-109.
- Vaughn, James R., and G. E. Paine. Combination fishing tackle and bait box. 2,816,390, 12-17-57, Cl. 43-26.
- Vaughn, Kenneth E. Mechanical gun and projectile for training dogs. 2,784,711, 3-12-57, Cl. 124-2.
- Vaughn, Kenneth E. Earring with hook for removably attaching a pendant ornament. 2,797,561, 7-2-57, Cl. 63-13.
- Vaughn, Ray A., to Ferro Stamping Co. Horse construction. 2,816,805, 12-17-57, Cl. 304-5.
- Vaughn, Rudolph M. Screw driver. 2,808,087, 10-1-57, Cl. 145-50.
- Vaughn, Sidney P. Combined mop and wringer. 2,813,287, 11-19-57, Cl. 15-119.
- Vaughn, William A.: *See*—
Harris, James O., and Vaughn. 2,792,422.
- Vavrinek, Frank B., to Western Electric Co., Inc. Device for burnishing, reaming, and deburring articles. 2,791,024, 5-7-57, Cl. 29-90.
- Vawter, James R. Educational device. 2,775,826, 1-1-57, Cl. 35-9.
- Vay, Harold E. Magnetic toy blocks. 2,795,893, 6-18-57, Cl. 46-24.
- Veach, Joseph P. Taco shell fryer. 2,792,774, 5-21-57, Cl. 99-426.
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West, Howard F., and Veale. 2,802,749.
West, Howard F., and Veale. 2,806,775.
- Veale, John H., to The Illinois Clay Products Co. Method of impregnation of refractory bodies with phosphoric acid. 2,805,174, 9-3-57, Cl. 117-65.
- Veale, John H., and H. F. West, to Illinois Clay Products Co. Method of making phosphate bonded silica refractory body. 2,802,750, 8-13-57, Cl. 106-69.
- Veale, John H., and H. F. West, to Illinois Clay Products Co. Method of strengthening iron ore agglomerates. 2,806,776, 9-17-57, Cl. 75-5.
- Veale, John H., and H. F. West, to Illinois Clay Products Co. Crust-bearing iron oxide agglomerate. 2,806,777, 9-17-57, Cl. 75-5.
- Veamas, Frank K., to Allis-Chalmers Mfg. Co. Expansion reamer for earth drills. 2,783,974, 3-5-57, Cl. 255-74.
- Veatch, Franklin: *See*—
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Hughes, Everett C., and Veatch. 2,800,444.
- Veatch, Franklin, to The Standard Oil Co. Method of inhibiting evaporation of volatile liquids and floating layer for use therein. 2,797,139, 6-25-57, Cl. 21-60.5.
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- Veatch, Franklin, to The Standard Oil Co. Method of inhibiting evaporation of volatile products and floating layer for use therein. 2,797,141, 6-25-57, Cl. 21-60.5.
- Veatch, Franklin, to The Standard Oil Co. Ammonia resistant cement. 2,804,393, 8-27-57, Cl. 106-90.
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- Veatch, Franklin, and R. W. Burhans, to The Standard Oil Co. Process of producing hollow particles and resulting product. 2,797,201, 6-25-57, Cl. 260-2.5.
- Vebra, Joseph, to Olin Mathieson Chemical Corp. Ethylene urea derivatives and process of production. 2,785,176, 3-12-57, Cl. 260-309.7.
- Vecchiola, Davide D.: *See*—
Leone, Joseph F., and Vecchiola. 2,799,869.
- Vecchiola, Paul H.: *See*—
Morton, Alden D., and Vecchiola. 2,794,233.
- Vector Mfg. Co.: *See*—
Randall, Clifton O., Zepernick, and McLoad. 2,793,355.
- Veder, Christian, to I. C. O. S. Impresa Costruzioni Opere Specializzate. Method for the construction of a cut-off wall. 2,791,886, 5-14-57, Cl. 61-31.
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Blackman, Fred T. 2,799,740.
Bliss, Harvey N. 2,798,671.
Bliss, Harvey N. 2,814,444.
- Veenhuizen, Herman J.: *See*—
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- Veersma, Walter, to Buss Machine Works. Planer chip breaker micro control. 2,788,035, 4-9-57, Cl. 144-244.
- Vegh, Frank J.: *See*—
Swander, Kenneth D., Jr., and Vegh. 2,802,935.

- Vegren, Conrad R. Quick acting connector. 2,777,718, 1-15-57, Cl. 287-119.
- Vegren, Conrad R., to the United States of America as represented by the Secretary of the Navy. Reaction nozzle comprising rotating throat sections. 2,811,015, 10-29-57, Cl. 60-35.6.
- Vegren, Conrad R. Method for resizing internally threaded rocket motor tubing. 2,811,730, 11-5-57, Cl. 10-152.
- Vegter, Herman J., to Stamicarbon N. V. Corn-starch process involving vertical classification. 2,778,752, 1-22-57, Cl. 127-67.
- Vehslage, Eugene P.: *See*—
Sammis, Edward A., Smith, and Vehslage. 2,787,760.
- Veit, Marianne: *See*—
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- Veitch, Donald N., to Hague & McKenzie Ltd. Protective coatings for metallic surfaces of articles and method of removal thereof. 2,802,595, 8-13-57, Cl. 220-64.
- Veitch, Thomas, Jr.: *See*—
Veitch, Thomas, Sr., and T. Veitch, Jr. 2,792,158.
- Veitch, Thomas, Sr., and T. Veitch, Jr., to Erie Meter Systems, Inc. Pressure evacuating means for storage vessels. 2,792,158, 5-14-57, Cl. 222-333.
- Veith, Franz S.: *See*—
Marschka, Frank D., Veith, and Kuzminski. 2,807,517.
- Veith, Franz S., to Radio Corp. of America. Preparation of porous photoconductive layers. 2,809,087, 10-8-57, Cl. 316-9.
- Vela, Adolf K. Temperature controlled steam trap. 2,793,814, 5-28-57, Cl. 236-59.
- Vela, Gonzalo G. Soap dispenser for washing machine. 2,816,427, 12-17-57, Cl. 68-17.
- Vela, Macedonio A., to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,794,840, 6-4-57, Cl. 260-666.
- Veldhuis, Albert C., to Wind Turbine Co. Automatic deicing system. 2,786,927, 3-26-57, Cl. 219-19.
- Veldhuis, Benjamin: *See*—
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- Veldhuizen, Adrianus G., to N. V. Nederlandsche Machinefabriek "Artillerie-Inrichtingen." Device for clamping a tool or a disc on the holder of a machine tool. 2,781,199, 2-12-57, Cl. 279-77.
- Veldhuysen, Gijbertus: *See*—
Zwakenberg, Wiechert, and Veldhuysen. 2,789,489.
- Velluz, Leon: *See*—
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Muller, Georges, and Velluz. 2,811,554.
- Velsicol Chemical Corp.: *See*—
Bluestone, Henry. 2,795,589.
Goldman, Arthur. 2,795,619.
Kleiman, Morton. 2,781,360.
Molotsky, Hyman M. 2,804,483.
Molotsky, Hyman M., and Ballweber. 2,795,608.
Polen, Percy B. 2,813,914.
Richter, Sidney B. 2,794,038.
- Velsicol Chemical Corp.: *See*—
Molotsky, Hyman M., and Ballweber. 2,807,579.
- Veltman, Preston L.: *See*—
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- Veltman, Preston L., to W. R. Grace & Co. Method of dehydrating gases. 2,810,455, 10-22-57, Cl. 183-114.2.
- Venable, Joseph W.: *See*—
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- Vendig, Herb W. Article of furniture having releasably interconnected superimposed sections. 2,787,380, 4-2-57, Cl. 211-135.
- Vendittiy, Anthony: *See*—
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- Vendittiy, Anthony, and J. O. Scherer, to R. P. Scherer Corp. Hypodermic injector. 2,816,543, 12-17-57, Cl. 128-173.
- Vendo Co., The: *See*—
Andrews, Boley A., Sabin, and Shontz. 2,783,917.
Childers, Spencer L. 2,791,889.
Hunter, Charley W. 2,801,031.
Johnson, Elmer C. 2,814,417.
- Venner, Richard T., Jr.: *See*—
Sprigg, Edward A., and Venner. 2,792,671.
- Venner, William M., P. L. Bowser, Jr., and W. F. Peterson, to Sterling Aluminum Products, Inc. Trunk piston and method of making same. 2,780,505, 2-5-57, Cl. 309-13.
- Venner, William M., P. L. Bowser, Jr., and W. F. Peterson, to Sterling Aluminum Products, Inc. Trunk piston. 2,795,468, 6-11-57, Cl. 309-13.
- Vennerholm, Gosta, and H. N. Bogart, to Ford Motor Co. Foundry practice. 2,779,675, 1-29-57, Cl. 75-130.
- Ventrollo Mfg. Co.: *See*—
Carrick, Charles W. 2,785,622.
- Ventura Farms Frozen Foods, Inc.: *See*—
Mead, Donald W. 2,788,030.
- Venturella, Joseph. Airplane toy balloon. 2,783,584, 3-5-57, Cl. 46-89.
- Venus, Wilibald, to Hahn & Kolb, Werkzeugmaschinen und Werkzeuge. Die casting apparatus. 2,808,627, 10-8-57, Cl. 22-68.
- Vera-Mege, Rafael. Steam pressing iron. 2,782,537, 2-26-57, Cl. 38-77.
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- Verbakel, Martinus: *See*—
Verhappen, Jacobus T., Maas, and Verbakel. 2,813,388.
Verhappen, Jacobus T., Maas, and Verbakel. 2,817,402.
- Verban, Emil M. and F. M. Paste dispenser. 2,785,832, 3-19-57, Cl. 222-100.
- Verban, Frances M.: *See*—
Verban, Emil M. and F. M. 2,785,832.
- Verbanac, Frank: *See*—
Pierson, Earl H., Verbanac, Foerster, and Boss. 2,804,456.
- Verbeek, Hans, and E. Gratzfeld, to Chemische Fabrik Wesseling A.-G. Production of finely divided Berlin blue. 2,793,133, 5-21-57, Cl. 106-304.
- Verbeke, Pol R.: *See*—
Stuelpnagel, Thomas R., and Verbeke. 2,796,491.
- Verberg, Govert, to Shell Development Co. Antioxidants. 2,813,834, 11-19-57, Cl. 252-406.
- Verbestel, Jean, to Compagnie Internationale des Brevets et Licences. Structural board. 2,798,019, 7-2-57, Cl. 154-45.9.
- Verble, John E. Warmer and cooker for canned foods. 2,785,275, 3-12-57, Cl. 219-43.
- Verbrugge, Joseph J.: *See*—
Lincoln, Clovis W., Zeigler, and Verbrugge. 2,779,199.
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Lincoln, Clovis W., Zeigler, Verbrugge, and Olson. 2,792,463.
- Verburg, Elmer: *See*—
Brunson, Virgil A., Verburg, and Vanden Hoek. 2,804,239.
- Verburg, Robert M., to General Aniline & Film Corp. Process for interpolymerization of maleic anhydride with vinyl alkyl ethers. 2,782,182, 2-19-57, Cl. 260-78.5.
- Vercella, Rudolph A.: *See*—
Seidel, Robert B., and Vercella. 2,813,165.
- Vercellone, Alberto: *See*—
Solazzo, Renato, and Vercellone. 2,811,563.
- Verderber, Frank J. Fountain squeegee. 2,789,299, 4-23-57, Cl. 15-131.
- Verdi, Columbus, to Fansteel Metallurgical Corp. Recovery of tungsten and copper scrap. 2,776,199, 1-1-57, Cl. 75-0.5.
- Verdi, John M.: *See*—
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- Verdick, Richard D.: *See*—
Eichhorn, Robert L., and Verdick. 2,810,493.
- Verdin, Roman: *See*—
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- Verdurin Co.: *See*—
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- Verenigte Aluminiumwerke Aktiengesellschaft: *See*—
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- Verenigte Deutsche Metallwerke Aktiengesellschaft: *See*—
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- Verenigte Glanzstoff-Fabriken Aktiengesellschaft: *See*—
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- Indest, Heinz. 2,800,497.
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Suess, Theodor E. 2,794,681.
Suess, Theodor E., Trenkler, Hautmann, and Rinesch. 2,800,631.
- Vergason, Durward L., to Sylvania Electric Products, Inc. Ultra high frequency tuning mechanism. 2,799,833, 7-16-57, Cl. 333-82.
- Vergers, Willem C. H. G., P. J. Kreek, and A. van Rijswijk, to American Enka Corp. Apparatus for the liquid treatment of warp form threads or yarns. 2,807,953, 10-1-57, Cl. 68-175.
- Vergobbi, Robert W., to Pneumatic Scale Corp. Ltd. Infusion bag. 2,794,744, 6-4-57, Cl. 99-77.1.
- Vergobbi, Robert W., to Pneumatic Scale Corp. Ltd. Infusion bag. 2,794,745, 6-4-57, Cl. 99-77.1.
- Verhagen, Edward L., to The Regina Corp. Floor polisher with attachment for cleaning rugs. 2,784,433, 3-12-57, Cl. 15-49.
- Verhagen, Jan: *See*—
Ensink, Johannes, and Verhagen. 2,776,372.
- Verhappen, Jacobus T., H. J. Maas and M. Verbakel, to N. V. Vereenigde Tabaksindustriën Mignot & De Block. Folding mechanisms for wrapping machines. 2,813,388, 11-19-57, Cl. 53-371.
- Verhappen, Jacobus T., H. J. Maas, and M. Verbakel, to N. V. Vereenigde Tabaksindustriën Mignot & De Block. Cutting device for wrapping machines. 2,817,402, 12-24-57, Cl. 164-14.

- Verik, Géza. Tricycle vehicles for children. 2,789,831, 4-23-57, Cl. 280-257.
- Verkstads Aktiebolaget Calor: *See*—
Fredholm, Gunnar I. 2,813,357.
- Verley, Guy M., to Sinclair Refining Co. Sulfonation of petroleum oils. 2,783,273, 2-26-57, Cl. 260-504.
- Verley, Guy M., to Sinclair Refining Co. Production of basic alkaline earth metal petroleum sulfonates. 2,817,679, 12-24-57, Cl. 260-504.
- Vermaas, Dirk, to American Enka Corp. Viscose solution and method of spinning. 2,781,275, 2-12-57, Cl. 106-165.
- Vermaas, Henricus G. P., and O. L. Van Steenis, deceased (by J. D. Heijligers, executor), to North American Philips Co., Inc. Cathode-ray tube. 2,785,821, 3-19-57, Cl. 220-23.
- Vermehren, Carl E. Recovery of hypophyses from animals. 2,784,449, 3-12-57, Cl. 17-45.
- Vermette, Albert P., and L. E. Myers, to Radio Corp. of America. Electron tube electrode. 2,799,796, 7-16-57, Cl. 313-356.
- Vermette, Howard. Double scroll chuck construction. 2,793,043, 5-21-57, Cl. 279-114.
- Vermette, Howard. Pipe cutters. 2,817,898, 12-31-57, Cl. 30-102.
- Vermeulen, Marc. Process for the preparation of sterile butter. 2,789,910, 4-23-57, Cl. 99-119.
- Vermilion, Willas L., Jr., to The Standard Oil Co. Stabilization method. 2,805,979, 9-10-57, Cl. 196-11.
- Vermilyea, David A., to General Electric Co. Foil for electrolytic condensers and process. 2,808,542, 10-1-57, Cl. 317-230.
- Vernco Corp.: *See*—
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- Vernet, Sergius: *See*—
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- Vernet, Sergius. Thermostatically actuated valve. 2,792,179, 5-14-57, Cl. 236-34.
- Vernier, George E. Underwater viewers. 2,795,165, 6-11-57, Cl. 88-1.
- Vernon Co., The: *See*—
Vernon, William F. 2,806,669.
- Vernon, Harold M. and L. B. Method and apparatus for the production of prostheses such as dentures. 2,806,253, 9-17-57, Cl. 18-33.
- Vernon, Lester B.: *See*—
Vernon, Harold M. and L. B. 2,806,253.
- Vernon, William F., to The Vernon Co. Reversible easel. 2,806,669, 9-17-57, Cl. 248-34.
- Ver Nooy, Burton, to T. D. Williamson, Inc. Pipe line instrument. 2,782,370, 2-19-57, Cl. 324-72.
- Ver Nooy, Burton, to T. D. Williamson, Inc. Position indicator for pipe scraper. 2,782,407, 2-19-57, Cl. 340-282.
- Ver Nooy, Burton, to T. D. Williamson, Inc. Pipe line plugger. 2,812,778, 11-12-57, Cl. 138-94.
- Vernsten, Maynette R.: *See*—
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- Vero, Robert E. Loading and unloading machine. 2,794,557, 6-4-57, Cl. 212-63.
- Veronesi, Giulio: *See*—
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- Verplank, Christian. Auxiliary tool attachment for circular sawing machines. 2,790,469, 4-30-57, Cl. 144-1.
- Verrant, Louis E. Centering gauge for wheel housing. 2,812,588, 11-12-57, Cl. 33-181.
- Verreault, Joseph, to Dominion Corset Co. Ltd. Brassiere and like foundation garment. 2,781,518, 2-19-57, Cl. 2-42.
- Verrinder, Ernest A., to Food Machinery and Chemical Corp. Ladder for wire bound boxes. 2,799,219, 7-16-57, Cl. 100-56.
- Verrinder, Ernest A., to Food Machinery and Chemical Corp. Box dumper. 2,804,982, 9-3-57, Cl. 214-306.
- Verrinder, Ernest A., and E. J. McGrath, to Food Machinery and Chemical Corp. Box segregator. 2,813,639, 11-19-57, Cl. 214-11.
- Verse, Hansheinrich, to North American Philips Co., Inc. Diagnostic X-ray device. 2,818,510, 12-31-57, Cl. 250-91.
- Versnel, Arie: *See*—
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- Verson Allsteel Press Co.: *See*—
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- Vervest, Wilhelmus L.: *See*—
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- Vesce, Vincent C., to The B. F. Goodrich Co. Pigmented vinylidene plastics and method for preparing the same. 2,786,822, 3-26-57, Cl. 260-41.
- Vesce, Vincent C., to The B. F. Goodrich Co. Process for preparing pigmented organic plastics. 2,793,195, 5-21-57, Cl. 260-29.6.
- Veselik, Emil: *See*—
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- Vesely, Jerome A., and C. B. Linn, to Universal Oil Products Co. Removal of organic peroxides from unsaturated hydrocarbons. 2,809,921, 10-15-57, Cl. 196-44.
- Vesque, Henri, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Low temperature separation of gaseous mixtures. 2,779,174, 1-29-57, Cl. 62-175.5.
- Vessels, Theodore R., to Steam-Cote Corp. Means for applying concrete. 2,795,406, 6-11-57, Cl. 259-151.
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- Vester, Benjamin H., Jr.: *See*—
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- Vesterdal, Hans G., and A. J. Morway, to Esso Research and Engineering Co. Degasification of non-gaseous fluids. 2,798,573, 7-9-57, Cl. 183-114.
- Vetere, Nicholas A., to Awnair Corp. of America. Fixed louvered awning assembly. 2,797,452, 7-2-57, Cl. 20-57.5.
- Vetri Industriali S. a. r. l.: *See*—
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- "Vetrocoke" S. p. A.: *See*—
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- Vetter, Otto B., to Hagan Chemicals & Controls, Inc. Boiler water gauges providing uncorrected level indications and level indications corrected for density of the boiler water. 2,791,906, 5-14-57, Cl. 73-291.
- Vetter, Otto B., to Hagan Chemicals & Controls, Inc. Correction signal generator for measuring apparatus. 2,803,136, 8-20-57, Cl. 73-345.
- Vetter, Otto B., to Hagan Chemicals & Controls, Inc. Multiple orifice valves. 2,811,174, 10-29-57, Cl. 138-45.
- Veum, John E. Shot gun shell reconditioning press assemblies. 2,807,186, 9-24-57, Cl. 86-23.
- Ve Zain, Leslie: *See*—
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- Via, Carlo, to Società Applicazioni Gomma Antivibranti S. A. G. A. Società per Azioni. Double acting resilient support for engine mountings. 2,781,990, 2-19-57, Cl. 248-9.
- Vial, Joseph. Mechanism for locking a rotating piece with respect to a cylindrical pivot. 2,817,418, 12-24-57, Cl. 188-69.
- Vialaron, André C. to Societe Des Produits Azotes. Method for producing melamine. 2,778,828, 1-22-57, Cl. 260-249.7.
- Viale S., Jorge. Instruments for measuring angles. 2,782,512, 2-26-57, Cl. 33-72.
- Viard, Marcel J., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Polymerized glycol sulfate and processes of preparing the monomer and polymer of glycol sulfate. 2,798,877, 7-9-57, Cl. 260-327.
- Vibbard, Edward L., to Bell Telephone Laboratories, Inc. Tape control arrangement for computer. 2,782,985, 2-26-57, Cl. 235-61.
- Vibber, Alfred W. Twisting and plying spindle balloon control. Re. 24,380, 10-22-57, Cl. 57-58.3.
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- Vibrane Corp.: *See*—
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- Vibra-Bath Corp.: *See*—
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- Vibrolator Mfg. Co.: *See*—
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- Vibro-Plus Corp.: *See*—
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Nordegren, Sven-Åke. 2,785,577.
- Vicario, Pierino, to G. Lester. Apparatus for shaping or welding thermoplastic materials. 2,778,919, 1-22-57, Cl. 219-39.
- Vicars, T. & T. Ltd.: *See*—
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- Vicenzi, Reno L.: *See*—
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- Vlcek Tool Co., The: *See*—
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- Vick, Ashley: *See*—
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- Vick, Ralph L.: *See*—
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- Vick, Selmer E. Self-centering bit. 2,792,726, 5-21-57, Cl. 77-55.
- Vickers-Armstrongs (Engineers) Ltd.: *See*—
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- Vickers-Armstrongs Ltd.: *See*—
Burrows, Raymond G. 2,815,698.
Edwards, Cyril R. R. 2,786,176.
Nasmith, John I., and Daniels. 2,812,176.
Pooley, Henry, and Parker. 2,788,961.
Walker, John R. D., Oates, and Coombes. 2,803,221.
Wood, George. 2,809,655.
- Vickers, Arthur E. J., and J. B. Maloney, to Thermal Syndicate Ltd. Refractory cement. 2,818,345, 12-31-57, Cl. 106-57.
- Vickers, Harry F. Eye exerciser. 2,785,671, 3-19-57, Cl. 128-76.5.

- Vickers Inc.: *See*—
 Andrews, Rufus A. 2,803,790.
 Badenoch, Benjamin W. 2,807,241.
 Barrett, John S., Martin, and Trickey. 2,791,308.
 Bennett, Clarence, and Buechler. 2,790,185.
 Bennett, Clarence, and Buechler. 2,790,186.
 Buechler, Lester W., and Schmidt. 2,807,776.
 Evans, Lawrence J. 2,807,724.
 Gatwood, Edward H. 2,782,598.
 Hallman, Russell H. 2,787,887.
 Hare, Richard C. 2,807,273.
 Herman, Kenneth R. 2,799,995.
 Hysler, John F. 2,782,322.
 Jeannin, John F., and Egge. 2,787,959.
 Keel, Adolf. 2,776,627.
 Keel, Adolf. 2,776,628.
 Keel, Adolf. 2,776,629.
 Klessig, Ernst F., and Jones. 2,809,593.
 Lee, Bernard. 2,780,770.
 Lee, Bernard. 2,780,771.
 Lee, Bernard. 2,780,772.
 Logan, Frank G., and Rau. 2,809,732.
 Miller, Gray W. 2,795,711.
 Pettibone, Raymond B. 2,782,718.
 Phelan, James E., Marich, and Larson. 2,803,223.
 Rau, David W. 2,809,731.
 Schmidt, William F., Jr. 2,778,987.
 Schmidt, William F., Jr. 2,807,775.
 Stanton, Warren N. 2,803,789.
 Steinitz, Stephan. 2,807,754.
 Steinitz, Stephan. 2,807,753.
 Stewart, Phillip G. 2,809,588.
 Tweedale, Ralph L. 2,777,287.
 Tweedale, Ralph L., and Klessig. 2,800,083.
 Van Meter, Theodore. 2,799,996.
 Van Meter, Theodore. 2,809,611.
- Vickers, John P. J. Bottle opener attachment for a bottle carrying carton. 2,806,393, 9-17-57, Cl. 81-3.3.
 Vickers, Julian. Tobacco curing stick. 2,808,283, 10-1-57, Cl. 294-5.5.
 Vickers, Roy G., to the Co. "Brevets Aero-Mecaniques S. A." Directional mounting for a gun. 2,807,987, 10-1-57, Cl. 89-41.
- Vickers, S. A. Ltd.: *See*—
 Cowie, Walter, Mansfield, Spiro, and Wood. 2,802,779.
- Vickery, William J.: *See*—
 Schremp, Frederick W., and Vickery. 2,803,329.
- Vickerys Ltd.: *See*—
 Scott, Harold E. B. 2,796,808.
- Vickland, John C.: *See*—
 Jensen, Arthur, Vickland, and Winklepleck. 2,797,429.
- Vickland, John C., to The Air Preheater Corp. Unitary gas turbine and regenerator. 2,784,552, 3-12-57, Cl. 60-39.51.
- Victor Adding Machine Co.: *See*—
 Lippert, Erhard M., Schultz, and Meyfeldt. 2,792,176.
 Schultz, Ralph L. 2,794,387.
- Victor Chemical Works: *See*—
 Bell, Russell, and Netherton. 2,791,488.
 Coleman, William B., and Goff. 2,811,456.
 Costello, James R. 2,811,469.
 Pfrengle, Otto. Re. 24,381.
- Victor Mfg. & Gasket Co.: *See*—
 Kosatka, Thomas O. 2,806,725.
 Lillis, Stephen M. 2,791,159.
 Lillis, Stephen M., and Toman. 2,799,578.
- Victor Supply Co.: *See*—
 Wernecke, Heinz C. 2,784,930.
- Victory Engineering Corp.: *See*—
 Bennett, Frank K. 2,818,482.
- Vidal, Frederick: *See*—
 Fand, Theodore I., and Vidal. 2,776,288.
- Videen, Otis R., to Wood Conversion Co. Production of impregnated fiber mats. 2,813,806, 11-19-57, Cl. 117-140.
- Viehmann, George A., and C. C. Harrison, to Newark Rivet Works. Adjustable folded garment support for luggage cases. 2,785,778, 3-19-57, Cl. 190-41.
- Vieli, Otto, to Spumalit-Anstalt. Machine for the fabrication of hardenable foamy plastic. 2,813,780, 11-19-57, Cl. 23-286.
- Vielmo, Oskar, to Robert Bosch G. m. b. H. Device for providing a slidable seal between a piston and cylinder. 2,777,741, 1-15-57, Cl. 309-33.
- Vienot, Randall E. Sewing machine desks. 2,815,999, 12-10-57, Cl. 312-241.
- Vier, Dwayne T.: *See*—
 Hister, Clarence F., and Vier. 2,776,263.
- Vierk, Ernest R., and T. J. Karr, to Sinclair Refining Co. Protective lubricant composition. 2,785,111, 3-12-57, Cl. 196-149.
- Vierkötter, Paul. Source of light. 2,783,407, 2-26-57, Cl. 313-109.
- Vierow, Thomas S. Depositing machine. 2,791,188, 5-7-57, Cl. 107-28.
- Vieth, Albert B., to McGraw-Edison Co. Battery plate assembling machine. 2,786,433, 3-26-57, Cl. 113-59.
- Vieth, Albert B., to Price Battery Corp. Machine for casting straps and posts onto groups of insulated battery plates. 2,799,905, 7-23-57, Cl. 22-58.
- Vieweg, Heinz, to Metzeler Gummiwerke A. G. Electric non-conductors for producing static electricity. 2,791,705, 5-7-57, Cl. 310-5.
- Viewlex, Inc.: *See*—
 Brownscombe, Philip J. 2,815,696.
 Halahan, John, Aronson, and Lyon. 2,795,994.
 Layne, Joseph L. 2,793,679.
 Pollan, David. 2,779,236.
- Vig, Arthur. Hay loader and stacker. 2,793,772, 5-28-57, Cl. 214-140.
- Viglietta, Michael J., to Royal Mounters, Inc. Display device. 2,803,076, 8-20-57, Cl. 40-124.1.
- Vigmstad, Trygve, to Chryster Corp. Hood or deck lid hinge. 2,783,495, 3-5-57, Cl. 16-180.
- Vigmstad, Trygve, to Chryster Corp. Hood or deck lid hinge. 2,797,434, 7-2-57, Cl. 16-184.
- Vigneaux, Lawrence E., to General Electric Co. Internal timing device. 2,786,525, 3-26-57, Cl. 161-15.
- Vigneri, Giuseppe. Reciprocating concrete screed. 2,813,467, 11-19-57, Cl. 94-45.
- Vigo, Benny E. Air-conditioned furniture article. 2,782,834, 2-26-57, Cl. 155-1.
- Vigren, Sten D., W. O. W. Broberg, and R. A. Zander. Electromagnetic switching devices. 2,786,163, 3-19-57, Cl. 317-176.
- Vigren, Sten D., W. O. V. Broberg, and R. A. Zander. Electric switching devices. 2,810,026, 10-15-57, Cl. 200-1.
- Viken, Reidar. Constructional toy. 2,791,868, 5-14-57, Cl. 46-30.
- Viking Industries, Inc.: *See*—
 Engle, Homer A. 2,807,764.
 Engle, Homer A. 2,808,559.
 Engle, Homer A., and Greene. 2,797,786.
- Viking Mfg. Co.: *See*—
 Erickson, John A. 2,815,116.
- Viking Pump Co.: *See*—
 Watson, Louis A. 2,816,513.
- Viking Tool and Die Co.: *See*—
 Schober, Wayne E. 2,792,230.
- Viking Tool & Machine Corp., The: *See*—
 Lindstrom, John. 2,792,818.
 Lundquist, Ingemar. 2,779,881.
- Viko Furniture Corp.: *See*—
 Kranz, William J. 2,779,648.
- Vilbig, Friedrich, to the United States of America as represented by the Secretary of the Air Force. Synthesizer for sound or voice reproduction. 2,793,249, 5-21-57, Cl. 179-1.
- Vilbig, Friedrich, to the United States of America as represented by the Secretary of the Air Force. Fast working frequency analyzer. 2,803,800, 8-20-57, Cl. 324-77.
- Vilkomerson, Benjamin S., to Radio Corp. of America. Signal generating systems. 2,795,733, 6-11-57, Cl. 315-27.
- Vilkomerson, Benjamin S., to Radio Corp. of America. Wave generating circuits. 2,808,454, 10-1-57, Cl. 178-5.4.
- Villa, Emineo. Method of preparing a jellified fuel. 2,801,910, 8-6-57, Cl. 44-7.
- Villa Torre, Alfonso. Bed assembly. 2,796,614, 6-25-57, Cl. 5-8.
- Ville, Jean A., and R. G. Blondé, to Societe Alsacienne de Constructions Mecaniques. Signal difference coded pulse communication system. 2,803,702, 8-20-57, Cl. 178-43.5.
- Villela, Oscar. Ladle nozzle and stopper construction. 2,791,814, 5-14-57, Cl. 22-84.
- Villiers, Charles A.: *See*—
 Cumming, James M., Sutton, Vorwerk, Harmon, and Villiers. 2,789,505.
- Villinger, Franz: *See*—
 Oestergaard, Paul, and Villinger. 2,809,448.
- Villman, Walter, to Siemens & Halske Aktiengesellschaft. Trunk switching in signaling system. 2,815,403, 12-3-57, Cl. 179-18.
- Villwock, Jaclyn D.: *See*—
 Balz, Emil H., Ornella, and Villwock. 2,798,020.
- Vincent, Andrew W., to Talk-O Products, Inc. Electrical distributing panel. 2,782,390, 2-19-57, Cl. 339-198.
- Vincent, Clarence K. Cooking apparatus. 2,786,463, 3-26-57, Cl. 126-25.
- Vincent, George C., to Imperial Chemical Industries Ltd. Separation of materials. 2,778,498, 1-22-57, Cl. 209-118.
- Vincent, George D., to The Eppley Laboratory, Inc. Cadmium standard cell. 2,816,946, 12-17-57, Cl. 136-88.
- Vincent, Harvard B.: *See*—
 Hodgdon, Frank B., and Vincent. 2,811,576.
- Vincent, Harvard B., and J. A. Logue, to Owens-Illinois Glass Co. Controlling implosions in cathode ray and other tubes. 2,785,820, 3-19-57, Cl. 22-2.1.
- Vincent, Hugh C., and F. J. Kirchmeyer, to Abbott Laboratories. Parenteral composition of water-soluble penicillin salt and penicillin salt of N-methyl-(2-hydroxy-1,2-diphenylethyl)-amine. 2,809,915, 10-15-57, Cl. 167-58.
- Vincent, Renic P.: *See*—
 Curnutt, Donald D., and Vincent. 2,789,645.
- Vincent, Vinton J. Liquid applying apparatus. 2,778,682, 1-22-57, Cl. 299-102.
- Vincent, William R.: *See*—
 Breining, Elmer R., and Vincent. 2,817,628.
- Vincenty, Carlos, to The People of Puerto Rico as represented by the Governor of Puerto Rico. Process of dehydrating molasses. 2,801,174, 7-30-57, Cl. 99-6.
- Vincius, Frank A. Self sealing and self locking plastic casket. 2,809,416, 10-15-57, Cl. 27-17.

- Vinco Corp.: *See*—
 Beam, Albert S., and Stapleton. 2,810,965.
 Johnson, Arden L. 2,786,462.
 Osplack, Joseph J. 2,776,529.
- Vine, Allyn C., to the United States of America as represented by the Secretary of the Navy. Square integrator. 2,817,148, 12-24-57, Cl. 33—121.
- Vine, Harold W. Trailer hitch for dump trucks. 2,799,531, 7-16-57, Cl. 298—17.
- Vinella, Frank P. Terrazzo surfacing machines. 2,800,749, 7-30-57, Cl. 51—180.
- Vinerson, Inc.: *See*—
 Vinner, Jack I. and S. H. 2,800,355.
- Vines, Luther: *See*—
 Samuels, Harold, Vines, and Doyle. 2,804,248.
- Vines, Oscar L.: *See*—
 Bowman, Paul E., and Vines. 2,815,700.
- Vines, Oscar L., to Continental Paper Co. Dispensing carton. 2,791,356, 5-7-57, Cl. 222—456.
- Vineyard, George H., to the United States of America as represented by the Secretary of the Navy. High frequency oscillator. 2,777,967, 1-15-57, Cl. 315—5.
- Vining, Arthur F. Devices for facilitating the parking of an automotive vehicle. 2,796,481, 6-18-57, Cl. 200—61.39.
- Vining, William H.: *See*—
 Dineen, Francis H., McNeight, and Vining. 2,777,760.
- Vining, William H., to E. I. du Pont de Nemours and Co. Apparatus for chemical reactions passing through viscous phase. 2,779,752, 1-29-57, Cl. 260—91.3.
- Vinkler, Richard H., and J. M. Økland, to A/S Frydenbø Slip & Mek. Verksted. Packing and sealing system for hydraulic motors. 2,806,451, 9-17-57, Cl. 121—99.
- Vinner, Jack I. and S. H., to the Vinerson, Inc. Grappling means. 2,800,355, 7-23-57, Cl. 294—88.
- Vinner, Sam H.: *See*—
 Vinner, Jack I. and S. H. 2,800,355.
- Vinson, Cleo F.: *See*—
 Vinson, Walter L. 2,788,802.
- Vinson, Walter L., deceased; C. F. Vinson, executrix. Flow control device. 2,788,802, 4-16-57, Cl. 137—614.19.
- Vinton, William U. Manhole extension. 2,801,579, 8-6-57, Cl. 94—34.
- Viola, Paul A. Grass trimming shears. 2,791,832, 5-14-57, Cl. 30—248.
- Vion, George D., to Whitlock Cordage Co. Rope merchandiser. 2,785,469, 3-19-57, Cl. 33—130.
- Vir Den, Ray: *See*—
 Sandri, Carlo. 2,804,706.
- Virchaux, Paul. Method of producing a seamless tubular surgical appliance. 2,807,946, 10-1-57, Cl. 66—184.
- Virgil, Theodore C., to The M. W. Kellogg Co. Recovery of fines in a hydrocarbon conversion process. 2,797,189, 6-25-57, Cl. 196—50.
- Virgilio, Patrick J. Guide for can opener key and tear strip. 2,784,866, 3-12-57, Cl. 220—52.
- Virginia-Carolina Chemical Corp.: *See*—
 Kean, Robert H., Taylor, and Venable. 2,790,705.
 Manzelli, Manlio A., Young, and Harowitz. 2,811,478.
- Virginia Smelting Co.: *See*—
 Wrenn, George T., Jr. 2,807,391.
- Virjune Mfg. Co., The: *See*—
 Cusack, Thomas J. 2,777,572.
- Virobik, John. Sportsman's boat. 2,803,837, 8-27-57, Cl. 9—5.
- Virta, Norman A.: *See*—
 Ullman, Fred E., and Virta. 2,788,027.
- Virtis Co., Inc.: *See*—
 Bender, Charles E. 2,809,773.
- Vischer, Ernst: *See*—
 Wettstein, Albert, Vischer, and Meystre. 2,778,776.
- Vischulis, George, Jr., to Stewart-Warner Corp. Windshield wiper drive and parking mechanism. 2,775,900, 1-1-57, Cl. 74—70.
- Vischulis, George, Jr., to Stewart-Warner Corp. Curved windshield wiper. 2,795,809, 6-18-57, Cl. 15—253.
- Visco Products Co.: *See*—
 Kirkpatrick, Willard H., and Walker. 2,790,777.
- Viscontini, Max: *See*—
 Karrer, Paul, and Viscontini. 2,792,402.
- Viskozki, Mike. Score keeping device. 2,791,047, 5-7-57, Cl. 40—30.
- Visnapuu, Naima: *See*—
 Fay, Philip S., and Visnapuu. 2,793,180.
- Visnapuu, Naima, to The Standard Oil Co. Electrolytic regeneration of alkylation sulfuric acid. 2,793,181, 5-21-57, Cl. 204—130.
- Visnapuu, Naima, to The Standard Oil Co. Process for the regeneration of spent alkylation sulfuric acid. 2,793,182, 5-21-57, Cl. 204—130.
- Visnick, Samuel. Filter tobacco product. 2,804,874, 9-3-57, Cl. 131—10.
- Visor, Frederick C., G. L. McNew, G. Koch, and A. Goenaga, to Chas. Pfizer & Co., Inc. Compositions and method for combating bacterial and fungal infections in plants. 2,777,791, 1-15-57, Cl. 167—16.
- Visos, Charles D., to Knapp-Monarch Co. Impact release toaster switch. 2,778,902, 1-22-57, Cl. 200—138.
- Visos, Charles D., to Knapp-Monarch Co. Switch for vacuum type coffee maker. 2,780,711, 2-5-57, Cl. 219—20.
- Visseaux, J., S. A.: *See*—
 Hanlet, Jacques Marie Noël. 2,804,580.
- Vistain, James E., Jr., to Admiral Corp. Automatic record player. 2,795,429, 6-11-57, Cl. 274—10.
- Vistain, James E., Jr., to Admiral Corp. Phonograph record player. 2,801,109, 7-30-57, Cl. 274—10.
- Visumatic Timer Co.: *See*—
 Hisle, James M. 2,787,738.
- Vitalis, Emil A., to American Cyanamid Co. Antistatic composition, treatment of shaped articles therewith, and treated articles. 2,798,044, 7-2-57, Cl. 252—8.7.
- Vitalis, Emil A., to American Cyanamid Co. Cake detergent and method for its production. 2,813,078, 11-12-57, Cl. 252—161.
- Vitaminus Ltd.: *See*—
 Green, Joseph, Daglish, and Poole. 2,776,303.
- Vitarama Corp., The: *See*—
 Waller, Fred. 2,816,477.
 Waller, Fred, Dresser, and Babish. 2,816,475.
- Vitez, Frank. Device for installing roller jewels or the like. 2,789,451, 4-23-57, Cl. 81—7.
- Vitha, Franz A.: *See*—
 Hansen, Hendrik N., and Vitha. 2,784,264.
- Vitka, William J. Rotary pump. 2,816,508, 12-17-57, Cl. 103—83.
- Vitkin, Theodore L., to Marmyte Co. Dispensing apparatus. 2,801,773, 8-6-57, Cl. 222—200.
- Vitrogen Products, Inc.: *See*—
 Russo, Frank X. 2,776,291.
- Vitramon Inc.: *See*—
 Lee, Pyungtoo W., and Weller. 2,779,975.
- Vitro Corp. of America: *See*—
 Armstrong, Albert C., and Kee. 2,790,147.
 Brown, Donald E. 2,808,576.
 Buntensch, Rudolph W. 2,808,723.
 Dougherty, James G., Jr., Freienmuth, and Armstrong. 2,798,153.
 Grimm, Ralph E. 2,816,251.
 Kee, Joseph W. 2,809,290.
 Koslov, Joseph. 2,779,659.
 Maninger, Ralph C. 2,786,145.
 Picciano, Michael A., and Ekstein. 2,779,811.
 Raynsford, Charles K. 2,795,695.
- Vitsky, Rochelle. Shower spray absorber. 2,794,200, 6-4-57, Cl. 15—128.
- Vittorio Necchi Societa per Azioni: *See*—
 Bono, Luigi. 2,784,917.
 Bono, Luigi. 2,811,124.
 Bono, Luigi. 2,816,807.
- Vittum, Paul M., and D. B. Julian, to Eastman Kodak Co. Preparation of color former dispersions. 2,801,170, 7-30-57, Cl. 96—97.
- Vivadent Corp.: *See*—
 Knappwost, Adolf. 2,798,816.
 Knappwost, Adolph. 2,802,268.
- Vivaldi and Co.: *See*—
 Baffi, Giuseppe. 2,793,624.
- Vivian, Merel C. Anti-skid tire chain and fastening means therefor. 2,781,814, 2-19-57, Cl. 152—242.
- Vivie, Wilhelmus L. L., to North American Philips Co., Inc. Cutter head of dry-shaving apparatus. 2,816,358, 12-17-57, Cl. 30—43.
- Vizard, William, to Barbour Welting Co. Shoe welting with a core and support for the same. 2,784,504, 3-12-57, Cl. 36—78.
- Vizard, William C., to Barbour Welting Co. Beaded welting. 2,775,829, 1-1-57, Cl. 36—78.
- Vizard, William C., to Barbour Welting Co. Beaded angle welting. 2,789,376, 4-23-57, Cl. 36—78.
- Vizard, William C., to Barbour Welting Co. Beaded shoe welting. 2,795,869, 6-18-57, Cl. 36—78.
- Vizcarrondo, Robert J., to A M P Inc. Electrical connectors. 2,804,602, 8-27-57, Cl. 339—276.
- Vize, Joseph C., 1/2 to S. M. Polios. Level and inclination determining device. 2,796,676, 6-25-57, Cl. 33—219.
- Vizza, Joseph. License plate holder. 2,775,832, 1-1-57, Cl. 40—125.
- Vlier Engineering Inc.: *See*—
 Cornelius, Paul D. 2,791,914.
- Vlugter, Johannes C., to Shell Development Co. Production of aralkyl hydroperoxides. 2,813,907, 11-19-57, Cl. 260—610.
- Vobbe, Wilhelm, to G. Kromschroder Aktiengesellschaft. Pipe joints for pipe systems and like fluid handling arrangements. 2,782,799, 2-26-57, Cl. 137—608.
- Voboril, Frank J. Unattended fishing rod holder with hook setting means. 2,799,111, 7-16-57, Cl. 43—15.
- Vodar, Boris, and N. Mostovetch, to Centre National de la Recherche Scientifique. Apparatus for applying material by thermal vaporization in the manufacture of electrical resistors. 2,801,607, 8-6-57, Cl. 118—49.1.
- Voegel, Max, to E. P. Larsh. Induction motor and control. 2,808,552, 10-1-57, Cl. 318—211.
- Voegeli, Wendelin L., to Allis-Chalmers Mfg. Co. Traction boosting system for tractors. 2,779,604, 1-29-57, Cl. 280—406.
- Voegtli, Walter, to G. D. Searle & Co. 17-aminoyohimbane and substitution products thereof. 2,793,210, 5-21-57, Cl. 260—288.
- Voegtli, Walter, to G. D. Searle & Co. 9-(piperazinoalkyl) norharman derivatives. 2,800,474, 7-23-57, Cl. 260—268.

- Voegtli, Walter, to G. D. Searle & Co. 3-(heterocyclic-substituted alkyl) thianaphthenes and salts thereof. 2,806,034, 9-10-57, Cl. 260—286.
- Voegtli, Walter, and R. A. Robinson, to G. D. Searle & Co. Alkoxyated benzoic acid esters of yohimbil alcohol. 2,785,164, 3-12-57, Cl. 260—287.
- Voelker, John G.: *See*—
Day, Carl L., and Voelker. 2,783,787.
- Voet, Andries, to J. M. Huber Corp. Dye toned printing inks. 2,785,079, 3-12-57, Cl. 106—23.
- Vog, Norman E., and H. M. Randall. Marble shooter. 2,791,210, 5-7-57, Cl. 124—16.
- Vogel, Aloysius H.: *See*—
Vogel, Edmund C. and A. H. 2,784,971.
- Vogel, Edmund C. and A. H. Tethered ball game device. 2,784,971, 3-12-57, Cl. 273—98.
- Vogel, Edward J., to The Liquid Carbonic Corp. Arc welding torch with adjusting means for non-depositing electrode. 2,798,145, 7-2-57, Cl. 219—75.
- Vogel, Edward J., to The Liquid Carbonic Corp. Shielding gas supply assembly for arc welding torch. 2,799,769, 7-16-57, Cl. 219—75.
- Vogel, Harold A., to No-Sag Spring Co. Zigzag spring soft edge construction for seats. 2,787,317, 4-2-57, Cl. 155—179.
- Vogel, Hilda I. Artist's accessory. 2,787,072, 4-2-57, Cl. 41—4.
- Vogel, Irwin R. Reversible ratchet wrench. 2,803,980, 8-27-57, Cl. 81—62.
- Vogel, Jerome P.: *See*—
Benson, Irving N., and Vogel. 2,793,618.
- Vogel, Lee C., to Union Oil Co. of California. Selective plugging in oil wells. 2,796,934, 6-25-57, Cl. 166—33.
- Vogel, Leo R., to S. Sewall. Twineless hay bale sticher. 2,814,983, 12-3-57, Cl. 100—88.
- Vogel, Paul C., to Allis-Chalmers Mfg. Co. Machine for making molds. 2,817,883, 12-31-57, Cl. 22—54.
- Vogel, Paul R., to Fabrique Solvè des Montres Paul Ditisheim S. A. Chronograph with distance indicating dial. 2,793,810, 5-28-57, Cl. 235—112.
- Vogel, Ralph B., to The National Lime and Stone Co. Lime kiln. 2,784,956, 3-12-57, Cl. 263—29.
- Vogel, Sol. Foundation bi-shoulder pad. 2,802,216, 8-13-57, Cl. 2—268.
- Vogel Tool & Die Corp.: *See*—
Koster, Frank. 2,776,003.
- Vogel, William G. Truck extension ladder. 2,779,525, 1-29-57, Cl. 228—45.
- Vogel, William G. Swinging cutter for weeds and the like. 2,787,058, 4-2-57, Cl. 30—318.
- Vogelaar, Bernard F., to Deere & Co. Leveling control system for agricultural machine. 2,801,511, 8-6-57, Cl. 56—209.
- Vogelaar, Bernard F., to Deere & Co. Hydraulic driving and steering transmission for vehicles. 2,818,125, 12-31-57, Cl. 180—648.
- Vogelaar, Bernard F., to Deere & Co. Hydraulic driving and steering transmission for vehicles. 2,818,126, 12-31-57, Cl. 180—648.
- Vogeley, Clyde E., Jr.: *See*—
Osial, Thaddeus A., and Vogeley. 2,788,497.
- Vogeley, Clyde E., Jr., and R. H. Webb, to the United States of America as represented by the Secretary of the Navy. Antenna feed modulation unit for ridge waveguide. 2,780,783, 2-5-57, Cl. 332—52.
- Vogeley, Clyde E., Jr., and W. L. Stahl, to the United States of America as represented by the Secretary of the Navy. Modulation in a ridged wave guide. 2,783,378, 2-26-57, Cl. 250—31.
- Vogeley, Clyde E., Jr., and T. A. Osial, to Westinghouse Electric Corp. Ridged waveguide microwave switch. 2,788,494, 4-9-57, Cl. 333—7.
- Vogelfänger, Georg: *See*—
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- Vögeli, Herbert: *See*—
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- Vogelsang, Emma E.: *See*—
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- Voges, Fred W. Safety circuit for molding machine. 2,805,447, 9-10-57, Cl. 18—30.
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- Vogt, Adolf: *See*—
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- Vogt, Clarence W. Multi-unit container. 2,779,526, 1-29-57, Cl. 229—34.
- Vogt, Clarence W. Apparatus for severing or perforating adhesive tape. 2,779,851, 1-29-56, Cl. 219—19.
- Vogt, Clarence W. Drive system for plastic metering apparatus and the like. 2,783,922, 3-5-57, Cl. 222—368.
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- Vogt, Clarence W. Apparatus for producing plastic masses. 2,787,972, 4-9-57, Cl. 107—15.
- Vogt, Clarence W. Tape cutting head and holder. 2,793,694, 5-28-57, Cl. 164—84.5.
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- Vogt, Edward G., to Universal-cyclops Steel Corp. Gas lock. 2,807,056, 9-24-57, Cl. 20—4.
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- Vogt, Kenneth S., to General Motors Corp. Salute control for automatic headlight dimmer system. 2,786,963, 3-26-57, Cl. 315—83.
- Vogt Knitting Mills, Inc.: *See*—
Palmer, Harry R. 2,790,316.
- Vogt, Kurt, to Bureau BBR. Machine for wrapping concrete containers with wire. 2,785,866, 3-19-57, Cl. 242—7.
- Vogt, Theodore B. H. Magnetized spot levels. 2,782,524, 2-26-57, Cl. 33—212.
- Vogt, William A., to Henry J. Kaiser Co. Gas scrubber. 2,783,031, 2-26-57, Cl. 261—22.
- Voight, Elmer C. Stackable carrying case. 2,802,589, 8-13-57, Cl. 220—19.
- Voigt, August C., to International Harvester Co. Mold handling apparatus for transporting sectional molds. 2,814,082, 11-26-57, Cl. 22—31.
- Voigt & Haefner Aktiengesellschaft: *See*—
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- Voigt, Johnston S., to American Motors Corp. Power steering linkage. 2,805,726, 9-10-57, Cl. 180—79.2.
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- Voigt, Robert H. Dehumidifier for an automotive distributor. 2,798,109, 7-2-57, Cl. 123—146.5.
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- Greger, Paul. 2,804,537.
- Meixner, Alfred. 2,813,470.
- Sewig, Rudolf. 2,783,696.
- Tronnier, Albrecht W. 2,810,322.
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- Voland and Sons, Inc.: *See*—
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- Volcik, Joseph: *See*—
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- Volckening, Lloyd I., to Ivers-Lee Co. Crush-resistant package. 2,780,353, 2-5-57, Cl. 206—65.
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- Volk, Emil A., Jr., to Bendix Aviation Corp. Accumulator. 2,814,252, 11-26-57, Cl. 103—138.
- Volk, Friedrich: *See*—
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- Volk, Joseph A., to Mandrel Industries, Inc. Transient switch. 2,818,479, 12-31-57, Cl. 200—144.
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- Volker, William. Rotatable heated massage device. 2,809,630, 10-15-57, Cl. 128—24.3.
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- Volland, Vernon G. Form for auto seat cover display. 2,790,252, 4-30-57, Cl. 35—49.
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- Vollmann, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Perchlorocyclopentenes in chlorinating reactions. 2,786,062, 3-19-57, Cl. 260—314.5.
- Vollmar, Joseph E., Jr. Method and apparatus for shipping pipe. 2,809,664, 10-15-57, Cl. 138—25.
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- Vollmer, Harden D., and W. L. Paulison, Jr., to Bailey Meter Co. Control systems. 2,790,429, 4-30-57, Cl. 122—479.
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- Rowen, John H., and von Aulock. 2,817,813.
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- Von Berg, Theodore B. Door and mirror construction. 2,807,192, 9-24-57, Cl. 88-85.
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- Von Euw, Adolfo. Bearings. 2,798,774, 7-9-57, Cl. 308-84.
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- Von Gugelberg, Hans L., to Bell Telephone Laboratories, Inc. Multicathode gaseous discharge devices. 2,785,355, 3-12-57, Cl. 315-84.6.
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- Von Hoene, Harry L.: *See*—
- Fox, John A., and von Hoene. 2,810,370.
- Von Hofen, John R.: *See*—
- McConnell, William M., and von Hofen. 2,799,172.
- Von Holzschuher, Ludwig F.: *See*—
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- Von, Isaiiah, to American Cyanamid Co. Alkylation process improvement for vat dyes. 2,781,362, 2-12-57, Cl. 260-355.
- Von Kotschubey, Nikolaus, W. Bugmann, and F. Maurer, to Landis & Gyr A. G. Recording electricity meters. 2,789,028, 4-16-57, Cl. 346-78.
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- Vonnegut, Bernard, to General Electric Co. Vortex whistle measuring instrument for fluid flow rates and/or pressure. 2,794,341, 6-4-57, Cl. 73-194.
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- Bookwalter, William H. 2,807,229.
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- Von Seemann, Carl, to American Home Products Corp. Basic alkoxyalkyl esters of phenothiazine-10-carboxylic acid. 2,778,824, 1-22-57, Cl. 260-243.
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- Von Tell, Edward E. Cargo-hatches. 2,780,197, 2-5-57, Cl. 114-202.
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- Voorhees, Milton S. Device for and method of forming curls. 2,789,565, 4-23-57, Cl. 132—7.
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- Vordahl, Milton B., P. F. Darby, and C. E. Newcomb, to Rem-Cru Titanium, Inc. Consumable electrode for melting of chemically reactive metals. 2,813,921, 11-19-57, Cl. 13—18.
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- Voreck, Wallace E., Jr.: *See*—
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- Vosbikian, Peter S., and T. S. Mops for dry or wet cleaning. 2,804,638, 9-3-57, Cl. 15—229.
- Vosbikian, Thomas S.: *See*—
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- Vose, Roy F. Bow magazine. 2,801,625, 8-6-57, Cl. 124—24.
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- Voss, Charles S. Footwear. 2,780,013, 2-5-57, Cl. 36—2.5.
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- Voss, Otto J., to The Simmons National Bank. Washing machine transmission. 2,810,295, 10-22-57, Cl. 74—82.
- Voss, Raymond O.: *See*—
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- Vossen, Edward, to Stop-Motion Devices Corp. Sectional frame for stop motion detecting devices. 2,787,148, 4-2-57, Cl. 66—163.
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- Vostrez, Robert. Rocking action wagon chassis. 2,805,079, 9-3-57, Cl. 280—111.
- Vouderis, Marino, to Joe Lowe Corp. Dispensing unit for making two flavored confections. 2,803,381, 8-20-57, Cl. 222—135.
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- Vreeland, George W., to Kaiser Steel Corp. Cooling device. 2,792,924, 5-21-57, Cl. 198—84.
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- Vrilakas, John: *See*—
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- Vrionis, George B. Spring wound rotisserie. 2,783,705, 3-5-57, Cl. 99—421.
- Vroom, Clifford G.: *See*—
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- Vulcan Chemical Co. Ltd.: *See*—
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- Vulcan Corp.: *See*—
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- Vulcan Jet and Turbine Corp.: *See*—
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- Vulcan Research Corp.: *See*—
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- Vuncannon, Sam H. Barbecue oven. 2,781,037, 2-12-57, Cl. 126—25.
- Vurdela, Nicholas J. Collapsible tube valve cap means. 2,808,971, 10-8-57, Cl. 222—548.
- Vyverberg, Robert G., to The Haloid Co. Prevention of ion-caused undercutting in xeroradiography. 2,802,948, 8-13-57, Cl. 250—65.
- Vyverberg, Robert G., to The Haloid Co. Xeroradiographic plates or elements. 2,809,294, 10-8-57, Cl. 250—65.
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- Waag, Harry O.: *See*—
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- Waage, Jacob. Manufacture of pile rugs, carpets and mats. 2,786,508, 3-26-57, Cl. 154—1.1.
- Waas, Samuel M., to Manley, Inc. Automatic lid control for popcorn kettles. 2,777,599, 1-15-57, Cl. 220—47.
- Waber, James W.: *See*—
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- Wachendorfer, Paul L., Sr.: *See*—
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- Wachtel, Jacques L., and W. L. Bryan, to Olin Mathieson Chemical Corp. Ion exchange purification of neomycin. 2,793,978, 5-28-57, Cl. 167—65.
- Wachtel, William L.: *See*—
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- Wachtendorff, George D., to Radiant Mfg. Corp. Projection screen. 2,812,020, 11-5-57, Cl. 160—24.
- Wachter, Joseph J., to Westinghouse Electric Corp. Resinous impregnating varnish and article produced therefrom. 2,785,144, 3-12-57, Cl. 260—29.3.
- Wachter, Paul H. Liner and refuse receptacle. 2,798,637, 7-9-57, Cl. 220—65.
- Wachter, Robert A.: *See*—
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- Wachter, William J. Impact tester for brittle materials. 2,778,219, 1-22-57, Cl. 73—12.
- Wack, Floyd W.: *See*—
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- Wackerhagen, Edward N., to Sheridan Products Inc. Carton holder. 2,810,502, 10-22-57, Cl. 224-45.
- Wackrow, Roger D.: *See*—
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- Waddell, Homer J., to Waddell Inc. Diaphragm for gas meters. 2,809,521, 10-15-57, Cl. 73-280.
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- Waddell, James S. Doughnut making machine. 2,797,652, 7-2-57, Cl. 107-14.
- Waddell, Roy. Guide for reciprocating saw. 2,776,680, 1-8-57, Cl. 143-163.
- Waddell, Russel B., Jr.: *See*—
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- Waddey, Walter E.: *See*—
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- Waddill, Paul M.: *See*—
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- Waddle, Cecil R., to Keuffel & Esser Co. Lettering instrument. 2,809,432, 10-15-57, Cl. 33-23.
- Waddle, Howard M.: *See*—
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- Wade, Charles E., and H. M. Newcomb, to Wade Electric Products Co. Electrical connectors. 2,814,025, 11-19-57, Cl. 339-256.
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- Wade, Edith E. Guard for chained door bolts. 2,798,753, 7-9-57, Cl. 292-264.
- Wade Electric Products Co.: *See*—
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- Wade, R. M., & Co.: *See*—
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- Wade, Robert C.: *See*—
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- Wade, Robert C., to National Distillers Products Corp. Flash bomb. 2,775,938, 1-1-57, Cl. 102-6.
- Wade, Robert H.: *See*—
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- Wade Tool Co., The: *See*—
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- Wade, Willard H.: *See*—
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- Wade, William W., to Monsanto Chemical Co. Treatment of phosphorus condenser water. 2,796,333, 6-18-57, Cl. 23-223.
- Wade, Worth, to American Viscose Corp. Shuttle propelling mechanism for looms. 2,784,743, 3-12-57, Cl. 139-142.
- Wade, Worth, to American Viscose Corp. Process of recovering waste coated fibers and products made therewith. 2,795,823, 6-18-57, Cl. 19-60.
- Wadelton, Edwin F., to Deere & Co. Coil spring cultivator shank and clamp. 2,785,618, 3-19-57, Cl. 97-198.1.
- Wadely, Harold E., to The Fifth Carpet Co., Inc. Process of producing phosphorescent yarn. 2,787,558, 4-2-57, Cl. 117-33.5.
- Wadey, Walter G., to the United States of America as represented by the Secretary of the Navy. Regulated vacuum-tube bias supply. 2,794,915, 6-4-57, Cl. 250-27.
- Wadey, Walter G., to the United States of America as represented by the Secretary of the Navy. Method for testing photo-electric surfaces. 2,811,890, 11-5-57, Cl. 88-14.
- Wadhams, Larry A.: *See*—
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- Wadley, Edward F.: *See*—
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- Wadö, Kurt R.: *See*—
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- Wadsworth, Francis T.: *See*—
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- Wadsworth, Howard M. Tubular trimmer condenser. 2,794,159, 5-28-57, Cl. 317-249.
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- Wadsworth, Paul W., to Bell Telephone Laboratories, Inc. Fire and police telephone reporting system. 2,816,958, 12-17-57, Cl. 179-5.
- Wadsworth, Raymond H.: *See*—
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- Wadsworth, William M.: *See*—
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- Waful, Charles C., to Spring Machinery Co. Cutter unit. 2,798,547, 7-9-57, Cl. 164-41.
- Wagar, Albert E.: *See*—
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- Waggner, James P.: *See*—
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- Wagner, Adam, to Ernst Leitz A.-G., Optische Werke. Flash synchronizing device for camera slit-type shutters. 2,800,063, 7-23-57, Cl. 95-11.5.
- Wagner, Anton R., to Nyby Bruks Aktiebolag. Restorable Fe-Cr-Ni alloy. 2,793,948, 5-28-57, Cl. 75-128.
- Wagner, Arthur F.: *See*—
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- Wagner, August J., to Sharon Tube Co. Butt-weld pipe manufacture. 2,792,206, 5-14-57, Cl. 263-3.
- Wagner, Carl J. Window construction. 2,797,778, 7-2-57, Cl. 189-65.
- Wagner, Carl J. Window frame construction. 2,803,320, 8-20-57, Cl. 189-75.
- Wagner, Carl J. Window sash and glass mounting and sealing means therefor. 2,807,339, 9-24-57, Cl. 189-78.
- Wagner, Charles D., to Shell Development Co. Radiological wear measurement method. 2,811,650, 10-29-57, Cl. 250-83.3.
- Wagner, Charles R. Louver type awning and operating mechanism therefor. 2,791,009, 5-7-57, Cl. 20-57.5.
- Wagner, Chester. Method of deep fat cooking foods under pressure. 2,778,736, 1-22-57, Cl. 99-1.
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- Wagner, Eddie B., to Mixermobile Mfg., Inc. Bucket supporting and operating mechanism. 2,797,002, 6-25-57, Cl. 214-140.
- Wagner, Eddie B., to Mixermobile Manufacturers, Inc. Loader. 2,811,265, 10-29-57, Cl. 214-140.
- Wagner, Edward C. Ultra high speed photographic projection printing machine. 2,803,991, 8-27-57, Cl. 88-24.
- Wagner, Edward J., to Dormeyer Corp. Induction motor rotor assembly. 2,781,466, 2-12-57, Cl. 310-211.
- Wagner, Edward W. Vehicle speed governor. 2,799,373, 7-16-57, Cl. 192-3.
- Wagner Electric Corp.: *See*—
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- Wagner, Elmer K., to Giddings & Lewis Machine Tool Co. Constant chip thickness motor control system for machine tools. 2,809,333, 10-8-57, Cl. 318-39.
- Wagner, Ernest A., to Union Carbide and Carbon Corp. Holder for underwater anode. 2,776,941, 1-8-57, Cl. 204-196.
- Wagner, Ernst, and A. Moeller, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bath solution and a process of treating metal surfaces. 2,809,138, 10-8-57, Cl. 148-6.17.
- Wagner, Frank C., and J. T. Burwell, Jr., to Horizons Inc. Bearing composition. 2,801,462, 8-6-57, Cl. 29-182.1.
- Wagner, George M., to Olin Mathieson Chemical Corp. Process of preparing phenol dichlorophenol-formaldehyde resins. 2,814,607, 11-26-57, Cl. 260-53.
- Wagner, George M., to Olin Mathieson Chemical Corp. Process for preparing phenol-dichlorophenol-formaldehyde resins. 2,816,090, 12-10-57, Cl. 260-53.
- Wagner, George M., and J. B. O'Hara, to Olin Mathieson Chemical Corp. Production of caprolactam. 2,797,216, 6-25-57, Cl. 260-239.3.

- Wagner, George O., to Elgin Instrument Co. Relay. 2,790,876, 4-30-57, Cl. 200—104.
- Wagner, Gertrud: *See*—
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- Wagner, Hans-Dieter: *See*—
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- Wagner, Harold B., and A. M. Lavan, to American Viscose Corp. Strand treatment testing. 2,788,562, 4-16-57, Cl. 28—22.
- Wagner, Harold H., to Caterpillar Tractor Co. Control for starter plunger engaging mechanism. 2,777,328, 1-15-57, Cl. 74—6.
- Wagner, Henry A.: *See*—
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- Wagner, Herbert A., to the United States of America as represented by the Secretary of the Navy. Gyroscopically stabilized platform system. 2,801,544, 8-6-57, Cl. 74—5.34.
- Wagner, Herbert L., to Detroit Stoker Co. Grate. 2,806,439, 9-17-57, Cl. 110—38.
- Wagner, Herbert M., to the United States of America as represented by the Secretary of the Army. Restangular pulse generator. 2,793,290, 5-21-57, Cl. 250—27.
- Wagner, Herbert M., to the United States of America as represented by the Secretary of the Army. Cathode interface impedance measurement. 2,793,343, 5-21-57, Cl. 324—20.
- Wagner, Jan K.: *See*—
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- Wagner, Jerome F., to David L. Jones Wholesale Floral Co. Flocking gun. 2,792,151, 5-14-57, Cl. 222—193.
- Wagner, John H., and E. C. Curry, to Ingersoll-Rand Co. Method of making an impeller. 2,807,871, 10-1-57, Cl. 29—156.8.
- Wagner, John O. Eye for dolls. 2,777,249, 1-15-57, Cl. 46—165.
- Wagner, John O. Doll's eyes. 2,791,869, 5-14-57, Cl. 46—165.
- Wagner, Joseph C.: *See*—
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- Wagner, Kenneth E. Paperboard tray. 2,794,585, 6-4-57, Cl. 229—27.
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- Wagner, Kurt, to August Sauter K. G. Projecting precision and analytical balances having a pointer with automatic indicating means. 2,807,189, 9-24-57, Cl. 88—24.
- Wagner, Lawrence R., to G & W Tool Co. Power operated rotary end-thrust cutter. 2,785,713, 3-19-57, Cl. 144—219.
- Wagner, Richard L., Jr.: *See*—
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- Wagner, Robert J., and F. L. Macaluso, to the United States of America as represented by the Secretary of the Army. Automatic temperature and water regulation for photographic developing. 2,793,003, 5-21-57, Cl. 257—4.
- Wagner, Robert M.: *See*—
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- Wagner, Tobias. Traffic signal with time lapse indication. 2,779,932, 1-29-57, Cl. 340—42.
- Wagner, Victor, to Victor Wagner & Son, Inc. Disposable ash tray. 2,796,211, 6-18-57, Cl. 229—3.5.
- Wagner, Victor, & Son, Inc.: *See*—
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- Wagner, Walter C. Anti-slipping attachment for crutches and canes. 2,799,287, 7-16-57, Cl. 135—54.
- Wagner, Willard F., to General Motors Corp. Direction signal. 2,800,540, 7-23-57, Cl. 200—61.34.
- Wagner, William F., and C. E. Cowdery, to Northrop Aircraft, Inc. Door locking mechanism. 2,788,997, 4-16-57, Cl. 292—341.17.
- Wagner, William T., ½ to The Dayton Rubber Co. and ½ to The B. F. Goodrich Co. Foam rubber mold construction. 2,797,442, 7-2-57, Cl. 18—39.
- Wagner, Willys P.: *See*—
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- Wagstaff, James B. Rolling process and apparatus. 2,787,046, 4-2-57, Cl. 29—18.
- Wahl, Arthur C., to the United States of America as represented by the United States Atomic Energy Commission. Process for separating plutonium from impurities. 2,813,004, 11-12-57, Cl. 23—14.5.
- Wahl Clipper Corp.: *See*—
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- Wahl, Eugene A. Powder feeding machine. 2,792,030, 5-14-57, Cl. 141—145.
- Wahl, Eugene A. Powder-feeding apparatus. 2,800,252, 7-23-57, Cl. 222—55.
- Wahl, John F. and L. J., to Wahl Clipper Corp. Seal for electric hair clipper. 2,789,347, 4-23-57, Cl. 30—208.
- Wahl, Leo J.: *See*—
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- Wahl, Leo J., to Wahl Clipper Corp. Clipper construction. 2,795,967, 6-18-57, Cl. 74—531.
- Wahl, Ottmar: *See*—
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- Wahlberg, Åke, to SKF Industries, Inc. Couplings. 2,780,079, 2-5-57, Cl. 64—7.
- Wahlgren, Wallace W.: *See*—
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- Wahlgren, Wallace W., to Electro Engineering Works. Push-pull modulating transformer. 2,798,202, 7-2-57, Cl. 332—43.
- Wahlert, Ernst H., to Granite City Steel Co. Self cleaning strainer for spray nozzle or the like. 2,809,073, 10-8-57, Cl. 299—59.
- Wahlin, Fred W., to Spraying Systems Co. Tapered strainer and assemblies. 2,779,478, 1-29-57, Cl. 210—170.
- Wahlroos, Arvi W., to Archer-Daniels-Midland Co. Method of preparing epoxidized oils and the like. 2,813,878, 11-19-57, Cl. 260—348.5.
- Wahlsten, Gösta L. B., to Atlas Copco Aktiebolag. Hammer piston for percussion apparatuses and percussion apparatus provided therewith. 2,787,984, 4-9-57, Cl. 121—31.
- Wahrmond, Robert C., to Esso Research and Engineering Co. Wire take-up device for a drum filter. 2,782,935, 2-26-57, Cl. 210—199.
- Waibel, Anthony J., to Ingersoll-Rand Co. Piston. 2,801,139, 7-30-57, Cl. 309—9.
- Waide, Robert L., to M. V. Screws. Composition of matter. 2,804,394, 8-27-57, Cl. 106—95.
- Wain-Roy Corp.: *See*—
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- Wainer, Eugene: *See*—
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- Wainer, Eugene, to Horizons Titanium Corp. Method of producing alkali metal titanium double fluorides in which the titanium has a valence of less than four. 2,793,098, 5-21-57, Cl. 23—88.
- Wainer, Eugene, to Titanium Corp. Preparation of alkali metal fluotitanates. 2,812,236, 11-5-57, Cl. 23—88.
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- Wainess, Harold, to Chem-Cor, Inc. Self-energizing fire extinguisher. 2,786,537, 3-26-57, Cl. 169—26.
- Wainio, Albert W.: *See*—
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- Wainshilbaum, Edward R., to the United States of America as represented by the Secretary of the Navy. Damper circuit. 2,778,973, 1-22-57, Cl. 315—27.
- Wainwright, Edward A.: *See*—
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- Wainwright, Carlyle H.: *See*—
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- Waisner, Alfred B. Means for adjusting the angularity of independently sprung wheels. 2,795,412, 6-11-57, Cl. 267—20.
- Waite Carpet Co.: *See*—
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- Waite, George F., to Curtiss-Wright Corp. Nylon liner for connecting rod bearings. 2,776,175, 1-1-57, Cl. 308—238.
- Waite, George F., to Curtiss-Wright Corp. Ornamental hub cap. 2,812,215, 11-5-57, Cl. 301—37.
- Waite, Griffin G., and A. Russell, to Sangamo Electric Co. Torque balancing adjustments for polyphase watt-hour meters. 2,807,782, 9-24-57, Cl. 324—137.
- Waite, Ralph D.: *See*—
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- Waite, William, and D. D. Grassick. Insulated pipe covering. 2,807,563, 9-24-57, Cl. 154—44.
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- Wakefield Bearing Corp.: *See*—
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- Wakefield, C. C., & Co.: *See*—
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- Wakefield, Thomas C.: *See*—
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- Wakefield, Thomas C., and J. E. Gallo, to the United States of America as represented by the Secretary of the Navy. Gyro simulator. 2,793,445, 5-28-57, Cl. 35—12.
- Wakeman, Alden H., to The Creamery Package Mfg. Co. Plate type heat exchanger. 2,777,674, 1-15-57, Cl. 257—245.
- Wakeman, Alden H., to The Creamery Package Mfg. Co. Plate type heat exchanger. 2,790,627, 4-30-57, Cl. 257—245.
- Waksman, Selman A., and H. A. Lechevalier, to Rutgers Research and Educational Foundation. Neomycin and process of preparation. 2,799,620, 7-16-57, Cl. 167—65.

- Walberg, Maynard E., to Allis-Chalmers Mfg. Co. Dusting mechanism. 2,803,085, 8-20-57, Cl. 43-148.
- Walbert, Charles R.: *See*—
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- Walbert Machine Co.: *See*—
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- Walchef, Luben S. Traction brace. 2,808,052, 10-1-57, Cl. 128-85.
- Walco Bead Co., Inc.: *See*—
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- Walcott, Henry R., Jr., to Bendix Aviation Corp. Electrical control system. 2,796,565, 6-18-57, Cl. 318-8.
- Wald, Harold C.: *See*—
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- Wald Industries, Inc.: *See*—
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Wilson, Rufus W. 2,798,765.
Wilson, Rufus W., and Bagshaw. 2,788,240.
- Wald, John R., Jr., to Wald Industries, Inc. Highway marking guard. 2,790,410, 4-30-57, Cl. 116-63.
- Walde, Arthur W.: *See*—
McGuire, Willis C., Morehouse, Walde, and Van Essen. 2,815,313.
- Walde, Stephen S., to Victor Blagden & Co. Ltd. Drum washing apparatus. 2,785,694, 3-19-57, Cl. 134-46.
- Walden, Harold G.: *See*—
Drew, Rodney H., and Walden. 2,792,753.
- Walden, Harry R. Casting or fishing rod supports. 2,798,684, 7-9-57, Cl. 248-47.
- Walden, Henrik: *See*—
Wisner, Isle R., Corbin, and Walden. 2,799,209.
- Walden, Henry W. Apparatus for filling ball point pens and cartridges therefor. 2,799,302, 7-16-57, Cl. 141-318.
- Walden, Henry W. Apparatus for rejuvenating ball-point pens. 2,800,275, 7-23-57, Cl. 233-26.
- Walden, Henry W. Apparatus for filling ball point pens. 2,816,580, 12-17-57, Cl. 141-258.
- Walden, John E. Electrically actuated lock mechanism. 2,798,751, 7-9-57, Cl. 292-144.
- Walden, Mayo K.: *See*—
Lundgren, Harold P., Walden, and Rose. 2,786,049.
- Walden, Mayo K., and H. P. Lundgren, to the United States of America as represented by the Secretary of Agriculture. Process for protecting wool from yellowing by applying dibutyl butanephosphonate. 2,809,131, 10-8-57, Cl. 117-141.
- Walden, Patrick T. Cigarette snuffer. 2,786,473, 3-26-57, Cl. 131-235.
- Waldensian Hosiery Mills, Inc.: *See*—
Bridges, Ervin R. 2,800,782.
- Waldes Kohinoor, Inc.: *See*—
Domenech, Gerardo A. and V. A. 2,816,340.
- Erdmann, Hans. 2,792,610.
- Erdmann, Hans. 2,806,274.
- Erdmann, Hans. 2,807,078.
- Erdmann, Hans. 2,814,858.
- Erdmann, Hans. 2,814,859.
- Feitl, Rudolf. 2,798,549.
- Feitl, Rudolf. 2,814,097.
- Feitl, Rudolf. 2,817,403.
- Shur, Ira. 2,814,324.
- Shur, Ira. 2,814,325.
- Soave, John G. 2,796,649.
- Soave, John G. 2,804,669.
- Wurzel, Hugo. 2,787,166.
- Wurzel, Hugo. 2,792,622.
- Wurzel, Hugo. 2,807,840.
- Wurzel, Hugo. 2,811,889.
- Wurzel, Hugo, and Millheiser. 2,787,926.
- Waldhauer, Charles H., Jr., to Minneapolis-Honeywell Regulator Co. Altitude control devices. 2,793,341, 5-21-57, Cl. 318-489.
- Waldie, William A.: *See*—
Nack, Herman R., and Waldie. 2,802,746.
- Waldin, Vincent H.: *See*—
Covington, Robert A., Jr., and Waldin. 2,781,894.
- Waldman, Daniel. Vehicle attached luggage carrier. 2,789,743, 4-23-57, Cl. 224-42.1.
- Waldman, Herman C. Parking meters. 2,815,842, 12-10-57, Cl. 194-1.
- Waldman, Joseph, to Joseph Waldman & Sons. Waterproof watch crown. 2,784,547, 3-12-57, Cl. 58-90.
- Waldman, Joseph, & Sons: *See*—
Waldman, Joseph. 2,784,547.
- Waldorf, Adrian, and W. H. Wade. Aerial pathfinder device. 2,814,199, 11-26-57, Cl. 73-178.
- Waldorf, Lindsey E., and E. R. Wiseman, to F. G. Johnson. Antenna mast. 2,790,171, 4-23-57, Cl. 343-886.
- Waldorf Paper Products Co.: *See*—
Brckett, John C. 2,812,857.
- Guyer, Reynolds. 2,810,476.
- Guyer, Reynolds, and Zastrow. 2,797,845.
- Jaeschke, Harold R. 2,797,856.
- Kelly, Melvin J. 2,800,266.
- Meyers, Harold S. 2,793,759.
- Myers, John H. 2,799,032.
- Radke, David B. 2,802,615.
- Zastrow, Harold G. 2,792,146.
- Waldrich, Oskar. Machine tool. 2,788,564, 4-16-57, Cl. 29-1.
- Waldron, Cloyd D. Fluid flowmeter. 2,775,890, 1-1-57, Cl. 73-207.
- Waldron, George W.: *See*—
Bloxsom, Allan P. 2,810,384.
- Waldron, John: *See*—
Stempel, Laszlo M. 2,778,303.
- Waldron, John, Corp.: *See*—
Stempel, Laszlo M. 2,793,588.
- Waldrop, Morris M.: *See*—
Hansen, Johannes P., and Waldrop. 2,791,305.
- Waldrop, Morris M., to Medley Mfg. Co., Inc. Overarm for fiber attenuating apparatus. 2,813,308, 11-19-57, Cl. 19-135.
- Waldstein, Albert E., to Raytheon Mfg. Co. Rate gyroscopes. 2,815,667, 12-10-57, Cl. 74-5.
- Wale, John, and A. G. Edgington, to Courtaulds Ltd. Bobbin with tail-tie. 2,783,954, 3-5-57, Cl. 242-125.
- Walen, Ernest A.: *See*—
DuFault, Homer D., and Walen. 2,794,497.
- Newell, Isaac L., and Walen. 2,817,610.
- Walendzik, Henry S.: *See*—
Clarke, William W., and Walendzik. 2,793,818.
- Walensky, Benno. Apparatus for scoring can lids. 2,777,410, 1-15-57, Cl. 113-15.
- Walensky, Benno. Apparatus for scoring flat bodies such as lids and end closures for cans and like containers. 2,790,408, 4-30-57, Cl. 113-15.
- Walentine, Joseph L.: *See*—
Rajchman, Jan A., Stuart-Williams, and Walentine. 2,796,086.
- Wales, George F. Game board and playing pieces. 2,798,724, 7-9-57, Cl. 273-131.
- Wales, George F. Method of manufacturing a perforating die. 2,803,152, 8-20-57, Cl. 76-107.
- Wales, Nathaniel B., Jr., to the United States of America as represented by the Secretary of the Navy. Aircraft crash marking device. 2,803,838, 8-27-57, Cl. 9-9.
- Wales, Nathaniel B., Jr., and J. W. Johnson, to the United States of America as represented by the Secretary of the Army. Mechanical integrating fuze (pneumatic). 2,807,210, 9-24-57, Cl. 102-70.
- Wales, Roger O., to Mast Development Co. Counter. 2,808,208, 10-1-57, Cl. 235-144.
- Wales-Strippit Corp.: *See*—
Taylor, Paul H. 2,778,426.
- Taylor, Paul H. 2,805,717.
- Taylor, Paul H. 2,807,323.
- Taylor, Paul H. 2,815,814.
- Taylor, Paul H., and Zumwalt. 2,785,887.
- Walgreen Co.: *See*—
Schmitt, Roland G., Braaten, and Swedberg. 2,780,832.
- Walgren, W. Edwin: *See*—
Alvernaz, Antonio L. 2,791,432.
- Walker, Alec H. B., to Westinghouse Brake & Signal Co. Ltd. Manufacture of dry rectifiers. 2,814,709, 11-26-57, Cl. 219-19.
- Walker, Alec H. B., and K. G. King, to Westinghouse Brake & Signal Co. Ltd. Alternating voltage wave-form distort-ing circuits. 2,783,395, 2-26-57, Cl. 307-106.
- Walker, Alec H. B., and D. E. Burch, to Westinghouse Brake and Signal Co. Ltd. Metal rectifier assemblies. 2,791,731, 5-7-57, Cl. 317-234.
- Walker, Alec H. B., and L. A. Cole, to Westinghouse Brake & Signal Co. Ltd. Jig for making contact with the electrodes of a dry contact rectifier. 2,794,895, 6-4-57, Cl. 219-19.
- Walker, Alec H. B., and L. J. Lockett, to Westinghouse Brake and Signal Co. Ltd. Metal rectifier assemblies. 2,802,158, 8-6-57, Cl. 317-234.
- Walker, Alexander H.: *See*—
Rife, Howard M., and Walker. 2,789,099.
- Walker, Alice: *See*—
Kirkpatrick, Willard H., and Walker. 2,790,777.
- Walker, Benjamin M., and A. N. T. St. John, to Resistoflex Corp. Method of making laminated tubing. 2,783,173, 2-26-57, Cl. 154-83.
- Walker, Brooks: *See*—
Schultz, Henry J. 2,792,567.
- Walker, Brooks. Vehicle fuel tanks. 2,808,892, 10-8-57, Cl. 180-1.
- Walker, Brooks, and H. J. Schultz; said Schultz assor. to said Walker. Depth indicator for conductive liquid. 2,779,015, 1-22-57, Cl. 340-249.
- Walker Brothers: *See*—
Weston, Cyril L. 2,813,143.
- Walker, David D.: *See*—
Garrison, James O., and Walker. 2,783,050.
- Garrison, Ralph P., and J. O., and Walker. 2,785,904.
- Walker, David E.: *See*—
Handwerk, Joseph H., Noland, and Walker. 2,805,473.
- Walker, Derek W. R. Method of bonding attachments to flexible sheet plastics. 2,801,948, 8-6-57, Cl. 154-116.
- Walker, Donald F. Electrical computing instruments. 2,781,170, 2-12-57, Cl. 235-61.
- Walker, Dunaway H. Straight beam clamp with angularly adjustable clamping surfaces. 2,815,053, 12-3-57, Cl. 144-303.

- Walker, Edward L., to Westinghouse Electric Corp. Parallel connected magnetic amplifier. 2,777,021, 1-8-57, Cl. 179-171.
- Walker, Elzo G. Well drill bit. 2,776,818, 1-8-57, Cl. 255-61.
- Walker, Eric E., W. R. Foggon, R. S. Locke, and M. P. Shaw, to British Celanese Ltd. Plasticized cellulose compound and a sheet made therefrom. 2,782,127, 2-19-57, Cl. 106-177.
- Walker, Eugene D. Seat-bed. 2,806,510, 9-17-57, Cl. 155-6.
- Walker, Eugene J.: See—
Bingenheimer, Melvin, and Walker. 2,813,167.
- Walker, Frank V. Thrust bearing support. 2,783,101, 2-26-57, Cl. 308-160.
- Walker, George P., to Johns-Manville Corp. Means for supporting articles on wall panels. 2,804,321, 8-27-57, Cl. 287-20.5.
- Walker, Harold N. Apparatus for operating valve gates for controlling discharge conduits in dam constructions. 2,779,160, 1-29-57, Cl. 61-25.
- Walker, Harry E., to J. B. Crane and H. E. Walker, trustees. Fish cutting machine. 2,799,043, 7-16-57, Cl. 17-4.
- Walker, Harry L., to Phillips Petroleum Co. Method of controlling fractionating column reflux. 2,816,858, 12-17-57, Cl. 202-40.
- Walker, Harry M., to Monsanto Chemical Co. Cyanoethylated lignin. 2,816,100, 12-10-57, Cl. 260-124.
- Walker, Hiram, & Sons, Inc.: See—
Dols, Harold D. 2,808,194.
- Walker, Howard M., to Northrop Aircraft, Inc. Rocket tube muzzle door. 2,792,754, 5-21-57, Cl. 89-1.7.
- Walker, Jack: See—
Weinstein, Seymore, and Walker. 2,778,517.
- Walker, Jack A., to Fairhaven Properties Corp. Display device for viewing transparencies. 2,795,067, 6-11-57, Cl. 40-102.
- Walker, Jay P., to National Tank Co. Method and means for treating oil well emulsion streams. 2,808,123, 10-1-57, Cl. 183-2.7.
- Walker, John L., Jr. Apparatus for developing photo-sensitive prints. 2,811,088, 10-29-57, Cl. 95-94.
- Walker, John M. Pea sheller. 2,807,267, 9-24-57, Cl. 130-30.
- Walker, John R. D., J. D. Oates, and J. E. M. Coombes, to Vickers-Armstrongs Ltd., and Metropolitan-Vickers Electrical Co. Ltd. Follow-up remote control systems. 2,803,221, 8-20-57, Cl. 121-39.
- Walker, John W. Occupant propelled roundabout. 2,789,820, 4-23-57, Cl. 272-33.
- Walker, Joseph B. Selective electrical lens adjusting mechanisms for variable magnification systems. 2,782,683, 2-26-57, Cl. 88-57.
- Walker, Joseph F., to E. I. du Pont de Nemours and Co. Distillation and fractional condensation of formaldehyde. 2,790,755, 4-30-57, Cl. 202-69.
- Walker Laboratories, Inc.: See—
Westcott, Franklin H. 2,794,762.
- Walker, Laurence R., to Bell Telephone Laboratories, Inc. Method and apparatus for measuring saturation magnetization of small ferromagnetic specimens. 2,810,882, 10-22-57, Cl. 324-58.5.
- Walker, Leander H., to the United States of America as represented by the Secretary of Agriculture. Desiccant packet. 2,789,369, 4-23-57, Cl. 34-80.
- Walker, Lee Roy H. Ring cushions for use in conjunction with invalid rings. 2,785,419, 3-19-57, Cl. 5-327.
- Walker Mfg. and Sales Corp.: See—
Ziph, Andrew H. 2,806,653.
- Walker, Marvin. Auxiliary support for sheet metal shear table. 2,783,108, 2-26-57, Cl. 311-17.
- Walker, Merle H.: See—
Brooks, John W., Reed, and Walker. 2,809,391.
- Walker, Norman A. Device to establish an electrical circuit. 2,779,842, 1-29-57, Cl. 200-142.
- Walker, Otto L.: See—
Luckhardt, Johannes. 2,796,917.
Luckhardt, Johannes. 2,796,918.
- Walker, Raymond W.: See—
Kolfenbach, John J., Wasserbach, and Walker. 2,782,592.
- Walker, Raymond W., and G. S. Tobias, to Esso Research and Engineering Co. Residual fuels. 2,793,945, 5-28-57, Cl. 44-76.
- Walker, Richard E., G. L. Bridger, and L. K. Arnold, to Iowa State College Research Foundation, Inc. Method of impregnating wood with wood-preserving oil. 2,799,597, 7-16-57, Cl. 117-120.
- Walker, Richard M., to the United States of America as represented by the Secretary of the Navy. Compact waveguide attenuator. 2,796,588, 6-18-57, Cl. 333-81.
- Walker, Richard M., to Sylvania Electric Products, Inc. Wave guide mode transformer. 2,800,632, 7-23-57, Cl. 333-21.
- Walker, Robert. Closure. 2,793,786, 5-28-57, Cl. 220-32.
- Walker, Robert B., H. O. Warner, and T. S. Hodgins, to Reichhold Chemicals, Inc. Process and catalyst for oxidation of methanol to formaldehyde. 2,812,310, 11-5-57, Cl. 252-470.
- Walker, Roy N. Screw-on pouring spout. 2,782,967, 2-26-57, Cl. 222-485.
- Walker, Thomas B. Shogging-attachment apparatus for knitting two-by-two ribbed-top hose on automatic-transfer circular knitting machines. 2,791,108, 5-7-57, Cl. 66-24.
- Walker, Thomas H.: See—
Start, Arthur T., Grayson, Dunkley, and Walker. 2,802,170.
- Walker, Thomas H., to International Standard Electric Corp. Electric trigger circuits. 2,806,153, 9-10-57, Cl. 307-88.5.
- Walker, Thomas, and J. F. Oughton, to G. N. R. D. Patent Holdings Ltd. Process for the separation of saturated and unsaturated keto-steroids. 2,814,630, 11-26-57, Cl. 260-397.45.
- Walker, Thomas P.: See—
Brame, Allen J. 2,777,346.
Fish, Herbert L. 2,787,180.
- Walker, Thorp B.: See—
Zucrow, Maurice J., and Walker. 2,801,517.
- Walker, Victor. Cutting or grinding machines. 2,795,087, 6-11-57, Cl. 51-89.
- Walker, Vincent, to The Parsons and Marine Engineering Turbine Research and Development Association. Cooling of gas turbine rotors. 2,815,926, 12-10-57, Cl. 253-39.15.
- Walker, Willard R.: See—
Glassey, Philip P., and Walker. 2,788,010.
- Walker, William. Grain cleaning and treating apparatus. 2,783,798, 3-19-57, Cl. 209-10.
- Walker, William E. Stripping machines. 2,778,286, 1-22-57, Cl. 93-36.
- Walker, William E., and C. L. Kennedy, to Radio Corp. of America. Telegraph receiving station. 2,805,279, 9-3-57, Cl. 178-2.
- Walker, William E., and J. S. Harris, to Radio Corp. of America. Telegraph system. 2,805,280, 9-3-57, Cl. 178-2.
- Walker, William E., Jr. Slip box for sand molds. 2,800,694, 7-30-57, Cl. 22-112.
- Walker, William S., and G. I. Mims. Paint brush wiper. 2,812,103, 11-5-57, Cl. 220-90.
- Walker, Woodrow A. Method of construction of dual jacket partition bullets. 2,792,618, 5-21-57, Cl. 29-1.23.
- Walklet, Mercer D., and E. A. Mueller, to The Hamlin Metal Products Corp. Collapsible shipping container. 2,793,780, 5-28-57, Cl. 220-6.
- Walkup, Lewis E., to The Haloid Co. Corona discharge device. 2,777,957, 1-15-57, Cl. 250-49.5.
- Walkup, Lewis E., to The Haloid Co. Method for developing electrostatic images. 2,784,109, 3-5-57, Cl. 117-17.5.
- Walkup, William O. Safety Switch. 2,796,479, 6-18-57, Cl. 200-61.5.
- Wall, Albert L. Collapsible ski sled. 2,783,052, 2-26-57, Cl. 280-20.
- Wall, Arvel L. Automatic trailer hitch brake mechanism. 2,800,294, 7-23-57, Cl. 188-112.
- Wall, Cleo. Earth digging machine. 2,782,534, 2-26-57, Cl. 37-85.
- Wall Colmonoy Corp.: See—
Oiphant, Lester E., and Peaslee. 2,800,711.
- Wall, Howard M., to Portco Corp. Wood flour press-method, apparatus and product. 2,780,987, 2-12-57, Cl. 100-35.
- Wall, Jack H.: See—
Lamb, Marvin G., and Wall. 2,793,426.
- Wall, Lester R., to the United States of America as represented by the Secretary of the Navy. Mine fin. 2,786,414, 3-26-57, Cl. 102-13.
- Wall, Monroe E.: See—
Kridner, Merle M., Cordon, and Wall. 2,784,144.
Kridner, Merle M., and Wall. 2,780,620.
Kridner, Merle M., and Wall. 2,785,107.
- Wall, Monroe E., to the United States of America as represented by the Secretary of Agriculture. Isosapogenins. 2,805,221, 9-3-57, Cl. 260-239.55.
- Wall, Monroe E., and E. S. Rothman, to the United States of America as represented by the Secretary of Agriculture. Process for extracting saponins from plant tissue. 2,791,581, 5-7-57, Cl. 260-210.5.
- Wall, Richard T., to C S W Plastic Types, Inc. Method of making flat printing plates of thermo-active material. 2,812,549, 11-12-57, Cl. 18-47.5.
- Wall, Robert L., and C. S. Duckwald, to General Electric Co. Apparatus for producing and measuring vibratory force. 2,803,760, 8-20-57, Cl. 310-8.4.
- Wall, T., & Sons Ltd.: See—
Stonestreet, George A., and Searle. 2,779,357.
- Wall, Virgil W., to Bell Telephone Laboratories, Inc. Visual indicator of harmonic distortion. 2,782,366, 2-19-57, Cl. 324-57.
- Wall, William H. Bottle cap and measuring device. 2,804,103, 8-27-57, Cl. 141-381.
- Wall Wire Products Co.: See—
Boorman, Harry S. 2,796,037.
Malone, Erwin L. 2,778,174.
- Wallace, Bert H., F. Sterne, and J. G. Edrich, to the United States of America as represented by the Secretary of the Navy. Running target. 2,793,038, 5-21-57, Cl. 273-105.2.
- Wallace Containers Co.: See—
Shapero, Wallace H. 2,786,238.
Shapero, Wallace H., and Davis. 2,815,896.
- Wallace, David A. Hoisting apparatus for vehicles. 2,800,200, 7-23-57, Cl. 187-8.9.
- Wallace, David J.: See—
Straley, James M., and Wallace. 2,785,157.
- Wallace, Earl C., and W. M. Rider, to The Hettrick Mfg. Co. Tent frame. 2,810,390, 10-22-57, Cl. 135-3.

- Wallace, Edgar C. Metal product incorporating molybdenum disulphide and method and additive for producing the same. 2,790,714, 4-30-57, Cl. 75-133.
- Wallace, Edward H., to United States Rubber Co. Pneumatic tire. 2,782,830, 2-26-57, Cl. 152-355.
- Wallace, Eugene E., to Wagner Electric Corp. Multiple shaft seal. 2,815,970, 12-10-57, Cl. 286-26.
- Wallace, Fred B.: *See*—
Pate, Hamp W., and Wallace. 2,790,623.
- Wallace, Henry W., to the United States of America as represented by the Secretary of the Navy. Double-universal nod mechanism. 2,811,719, 10-29-57, Cl. 343-761.
- Wallace, Hillary A.: *See*—
Babiarz, Raymond S., and Wallace. 2,785,081.
- Wallace, James. Mask for learning to swim above and under water. 2,780,224, 2-5-57, Cl. 128-145.
- Wallace, James B., and S. S. Fouse, to Westinghouse Electric Corp. Interlocking device for enclosed electric switch. 2,813,162, 11-12-57, Cl. 200-50.
- Wallace, James H. Tightening and holding device. 2,802,248, 8-13-57, Cl. 24-68.
- Wallace, James H. Manually releasable fastening device for safety belts and the like. 2,802,251, 8-13-57, Cl. 24-230.
- Wallace, James M., to Westinghouse Electric Corp. Circuit interrupters. 2,777,031, 1-8-57, Cl. 200-89.
- Wallace, James M., to Westinghouse Electric Corp. Three-phase circuit reclosers. 2,792,530, 5-14-57, Cl. 317-22.
- Wallace, James M., to Westinghouse Electric Corp. Automatic sectionalizing switch. 2,813,166, 11-12-57, Cl. 200-88.
- Wallace, James M., and A. W. Edwards, to Westinghouse Electric Corp. Circuit interrupter. 2,806,105, 9-10-57, Cl. 200-108.
- Wallace, Jeffrey J., to Gullett Gin Co. System for cleaning ginned cotton prior to baling. Re. 24,364, 10-1-57, Cl. 19-67.
- Wallace, John D. Transducer element mounting. 2,803,808, 8-20-57, Cl. 340-11.
- Wallace, John H., to U. S. Electrical Motors, Inc. Fluid pump drive. 2,784,672, 3-12-57, Cl. 103-87.
- Wallace, Maurice E., and R. F., to Feed-O-Matic Mfg. Corp. Method of feeding poultry or the like. 2,801,610, 8-6-57, Cl. 119-51.
- Wallace, Merle D. Combination hitch and tongue support actuator. 2,788,227, 4-9-57, Cl. 280-475.
- Wallace, Richard A. Die head with locking means for cam operated chaser supporting member. 2,816,300, 12-17-57, Cl. 10-96.
- Wallace, Robert. Motor-driven tooth extractor. 2,777,198, 1-15-57, Cl. 32-61.
- Wallace, Robert F.: *See*—
Wallace, Maurice E., and R. F. 2,801,610.
- Wallace, Robert L., Jr., to Bell Telephone Laboratories, Inc. Magnetic register. 2,805,407, 9-3-57, Cl. 340-17.
- Wallace Supplies Mfg. Co.: *See*—
De Witt, Edward J. 2,814,913.
- Wallace & Tiernan Co., Inc.: *See*—
Booth, George M. 2,804,778.
- Wallace & Tiernan Inc.: *See*—
MacKay, John R. 2,788,477.
- Marks, Henry C., and Glasgow. 2,817,621.
- Sprules, Francis J., and Marks. 2,802,800.
- Tarry, Eldred G. 2,780,066.
- Wallace, Valton, 50% to Seymour Hootkins. Switch. 2,780,700, 2-5-57, Cl. 200-160.
- Wallace, Wayne W. Coin container for glove compartments. 2,810,501, 10-22-57, Cl. 224-29.
- Wallace, Wayne W. Curtain, drapery and blind mounting plate. 2,810,540, 10-22-57, Cl. 248-263.
- Wallace, Wilfred J., to Rohr Aircraft Corp. Process for de-sealing titanium. 2,804,407, 8-27-57, Cl. 148-6.14.
- Wallach, Samuel, to Walco Bead Co., Inc. Bead loom. 2,802,255, 8-13-57, Cl. 28-15.
- Wallack, Franz F., to Grossglockner-Hochalpenstrassen Aktiengesellschaft. Throw wheel for snow removers. 2,794,271, 6-4-57, Cl. 37-43.
- Wallace, Donald A., to Emco Porcelain Enamel Co., Inc. Storage bins. 2,784,047, 3-5-57, Cl. 312-328.
- Wallberg, Marshall: *See*—
Van Nest, Arden L., and Wallberg. 2,795,842.
- Wallbrech, Edward C.: *See*—
Ebbeler, John R., and Wallbrech. 2,800,620.
- Wallden, Sven J.: *See*—
Berglund, Björn E. A., Gorling, Lindvall, and Wallden. 2,803,532.
- Walldow, Carl B. Selective multiple control mechanism for machine tools. 2,797,724, 7-2-57, Cl. 153-21.
- Wallen, George R.: *See*—
Phillips, Leonard R., Waeldner, Palmquist, Wallen, and Kurth. 2,814,446.
- Wallenborn, Nils: *See*—
Andersson, Bror, and Wallenborn. 2,806,934.
- Wallenbrock, Ralph E.: *See*—
Diamond, William J., Wallenbrock, and Derr. 2,792,959.
- Waller, Birgit: *See*—
Lundin, Harald. 2,785,084.
- Waller, Coy W.: *See*—
Webb, John S., Waller, and Weiss. 2,797,228.
- Waller, Coy W., M. J. Weiss, and J. S. Webb, to American Cyanamid Co. Substituted aminopyrrolicarboxylic acids and esters. 2,785,181, 3-12-57, Cl. 260-326.3.
- Waller, Coy W., M. J. Weiss, and J. S. Webb, to American Cyanamid Co. Substituted pyrrolicarboxamidopyrroles. 2,785,182, 3-12-57, Cl. 260-326.3.
- Waller, Coy W., M. J. Weiss, and J. S. Webb, to American Cyanamid Co. N[4-amino pyrrolyl-2-carbonyl]amino acids. 2,785,183, 3-12-57, Cl. 260-326.3.
- Waller, Fred, to The Vitarama Corp. Light intensity control with variable louvers for mosaic picture projection apparatus. 2,816,477, 12-17-57, Cl. 88-24.
- Waller, Fred, W. R. Dresser, and R. C. Babish, to The Vitarama Corp. Camera field indications by means of light beams. 2,816,475, 12-17-57, Cl. 88-16.
- Waller, Harry H. Collating machine. 2,790,637, 4-30-57, Cl. 270-58.
- Waller, Philip H. Ash tray with filter. 2,788,085, 4-9-57, Cl. 183-37.
- Waller, Philip H. Ash tray assembly. 2,799,280, 7-16-57, Cl. 131-241.
- Wallerich, George M.: *See*—
Pape, Robert C., and Wallerich. 2,801,628.
- Wallerius, John, to Sunbeam Corp. Process of hardening steel cartridge cases and apparatus for accomplishing such process. 2,789,928, 4-23-57, Cl. 148-13.
- Walleroth, Harold L. Detachable vehicle lamp support. 2,785,292, 3-12-57, Cl. 240-57.
- Wallerstein Co., Inc.: *See*—
Moses, William. 2,801,921.
- Wallerstein, Leon, Jr., to Lord Mfg. Co. Friction damper. 2,809,724, 10-15-57, Cl. 188-129.
- Walles, Wilhelm E.: *See*—
Hahn, Harold G., and Walles. 2,786,783.
- Walles, Wilhelm E., and H. G. Hahn, to The Dow Chemical Co. Coating process for polyethylene and composite articles obtained thereby. 2,786,780, 3-26-57, Cl. 117-62.
- Wallgren, Harold A., to Aktiebolaget Bahco. Gaseous fuel lamp. 2,796,753, 6-25-57, Cl. 67-88.
- Wallmann, Hedwig A., nee Hunziker. Rotary machine. 2,796,837, 6-25-57, Cl. 203-121.
- Wallin, Jack R., and D. N. Polhemus. Dew recorder. 2,808,722, 10-8-57, Cl. 73-171.
- Wallin, Maynard B.: *See*—
Dixon, Paul H., and Wallin. 2,775,920.
- Wallin, Robert E., to Sperry Rand Corp. Vibration dampening attachment. 2,796,149, 6-18-57, Cl. 188-1.
- Wallin, Sven: *See*—
Allander, Claes, Wallin, and Larsson. 2,790,508.
- Wallin, Walter, to the United States of America as represented by the Secretary of the Navy. Sinusoidal light chopper. 2,813,460, 11-19-57, Cl. 88-61.
- Walling, Cheves T.: *See*—
Schramm, Charles H., and Walling. 2,797,239.
- Walling, Cheves, and S. A. Buckler, to Heyden Newport Chemical Corp. Synthesis of hydroperoxides from Grignard reagents. 2,810,766, 10-22-57, Cl. 260-610.
- Walling, Francis L., to The Singer Mfg. Co. Fabric seams. 2,787,233, 4-2-57, Cl. 112-269.
- Wallingford, Harlan P.: *See*—
Shokal, Edward C., and Wallingford. 2,792,381.
- Wallingford, Vernon H., to Mallinckrodt Chemical Works. Container and closure for dangerous liquids. 2,806,637, 9-17-57, Cl. 222-215.
- Wallingford, Vernon H., and M. F. Kruty, to Mallinckrodt Chemical Works. Carboxyalkyl-iodoquinazolones. 2,786,055, 3-19-57, Cl. 260-251.
- Wallis, Albert E., to The International Nickel Co., Inc. Production of metal powder from carbonyl. 2,776,200, 1-1-57, Cl. 75-0.5.
- Wallis, Albert E., and D. H. West, to The International Nickel Co., Inc. Process of removing ferrous sulfate from sulfate solutions containing nickel and/or cobalt. 2,816,819, 12-17-57, Cl. 23-117.
- Wallis, Cyril T.: *See*—
Dyer, John B., and Wallis. 2,785,430.
- Von Schlichten, Frederick E., and Wallis. 2,791,244.
- Wallis, Cyril T., to General Motors Corp. Windshield wiper shaft assembly. 2,790,989, 5-7-57, Cl. 15-253.
- Wallis, Cyril T., to General Motors Corp. Windshield wiper arm assembly. 2,790,990, 5-7-57, Cl. 15-255.
- Wallis, Cyril T., to General Motors Corp. Flexible squeegee. 2,797,428, 7-2-57, Cl. 15-245.
- Wallis, Cyril T., to General Motors Corp. Windshield wiper blade assembly. 2,814,821, 12-3-57, Cl. 15-245.
- Wallis, Harry A. Garment display device. 2,805,803, 9-10-57, Cl. 223-68.
- Wallis, John S.: *See*—
Throckmorton, John W., and Wallis. 2,791,987.
- Throckmorton, John W., and Wallis. 2,796,051.
- Throckmorton, John W., and Wallis. 2,796,052.
- Wallis, Marvin E., to Sure-Seal Corp. Apparatus for producing continuous strands of wax. 2,806,250, 9-17-57, Cl. 18-15.
- Wallis, Ralph C., to Brainerd Bait Co. Artificial fishing bait. 2,809,462, 10-15-57, Cl. 43-42.08.
- Wallman, Clifford G.: *See*—
Armstrong, John D., Wallman, and Wittenberger. 2,804,192.
- Wallo, William H. Soap dispenser. 2,781,156, 2-12-57, Cl. 222-531.
- Wallo, William H. Solder lug collar. 2,807,791, 9-24-57, Cl. 339-221.

- Walmsley, John, to The Morgan Crucible Co. Ltd. Top roll for drafting frames. 2,778,066, 1-22-57, Cl. 19—142.
- Walouke, Charles A. Ground inserted vases. 2,792,960, 5-21-57, Cl. 220—18.
- Walpole, Harry J. Air diffuser. 2,796,821, 6-25-57, Cl. 98—40.
- Walraven, George M.: *See*—
- Larson, Kenneth R., and Walraven. 2,792,734.
- Walraven, George M., and E. H. Adams, to Snap-On Tools Corp. Pre-set torque indicating wrench. 2,792,733, 5-21-57, Cl. 81—52.4.
- Walrod, Riley P. Process for the production of fruit juice in the natural state thereof. 2,817,589, 12-24-57, Cl. 99—105.
- Walser, Henry J. Handbag receptacle system. 2,788,823, 4-16-57, Cl. 150—34.
- Walsh, Chester J.: *See*—
- Bogert, Virgil V., and Walsh. 2,804,476.
- Walsh, David A., T. H. Projector, and W. F. Mullis; said Projector and said Mullis, assors to the United States of America as represented by the Secretary of the Navy. Obturator probe for control of carbon arc lights. 2,805,357, 9-3-57, Cl. 314—20.
- Walsh, Edward J.: *See*—
- Robertson, George H., and Walsh. 2,801,360.
- Robertson, George H., and Walsh. 2,806,169.
- Walson, John P.: *See*—
- Horne, Emory H. 2,818,534.
- Walsh, John R. License plate bracket. 2,792,193, 5-14-57, Cl. 248—223.
- Walsh, John W.: *See*—
- Annabe, Weldon G., Hutchings, and Walsh. 2,787,531.
- Annabe, Weldon G., and Walsh. 2,794,040.
- Walsh, John W., and L. E. Hutchings, to Pure Oil Co. Solvent extraction of naphthalenes. 2,812,372, 11-5-57, Cl. 260—674.
- Walsh, Joseph H. Hydraulic system. 2,816,420, 12-17-57, Cl. 60—52.
- Walsh, Joseph S., to Fawick Corp. Anti-corrosion rotary air-seal assembly. 2,812,960, 11-12-57, Cl. 285—276.
- Walsh, Joseph W., and M. McCombe, to Mulconroy Co. Hose coupling with extrusion apertures in one member. 2,810,594, 10-22-57, Cl. 285—258.
- Walsh, Ralph W.: *See*—
- Martin, Earnest E. 2,797,972.
- Walsh, Ray J., and G. R. Stroup, 25% to H. Davenport. Can and bottle crushing and disposal machine. 2,800,159, 7-23-57, Cl. 153—10.5.
- Walsh, Robert, to ACF Industries, Inc. Engine mounting. 2,781,991, 2-19-57, Cl. 248—22.
- Walsh, Stanley, to The Chloride Electrical Storage Co. Ltd. Lead acid accumulators. 2,794,707, 6-4-57, Cl. 75—167.
- Walsh, Thomas E.: *See*—
- Loughlin, George P., and Walsh. 2,808,095.
- Walsh, Thomas S. Clear vision rain visors. 2,777,732, 1-15-57, Cl. 296—95.
- Walsh, William L., to S. H. Pomeroy Co., Inc. Sash connector apparatus. 2,813,296, 11-19-57, Cl. 16—197.
- Walston, Everett V. Glass building block aligner. 2,797,495, 7-2-57, Cl. 33—180.
- Walstrom, John E.: *See*—
- Worthington, Albert E., and Walstrom. 2,809,436.
- Walstrom, John E., to California Research Corp. Formation testing apparatus. 2,784,786, 3-12-57, Cl. 166—3.
- Walstrom, John E., to California Research Corp. Apparatus for electrical well-logging. 2,787,758, 4-2-57, Cl. 324—1.
- Walstrom, John E., to California Research Corp. Bottom-hole formation tester. 2,813,585, 11-19-57, Cl. 166—63.
- Walstrom, John E., to California Research Corp. Rubble cleaner for bottom hole formation tester. 2,813,586, 11-19-57, Cl. 166—63.
- Walter, Alfred E. Clamp on Christmas tree light. 2,782,296, 2-19-57, Cl. 240—10.
- Walter, Andrew T., and D. M. Young, to Union Carbide and Carbon Corp. Heat-stabilized polychlorotrifluoroethylene utilizing metal nitrites. 2,784,170, 3-5-57, Cl. 260—45.0.
- Walter, Charles T., and H. E. Haase, to Continental Can Co., Inc. Can packaging wrapper and can package formed therefrom. 2,800,224, 7-23-57, Cl. 206—65.
- Walter, Charles W.: *See*—
- Carmichael, Robert D., and Walter. 2,816,328.
- Walter, Georges. Hydraulic binding compounds and method of producing the same. 2,794,748, 6-4-57, Cl. 106—97.
- Walter, Hellmuth, to Worthington Corp. Gas compressor system. 2,776,087, 1-1-57, Cl. 230—116.
- Walter, Hellmuth, to Worthington Corp. Working pressure fluid generating apparatus. 2,793,497, 5-28-57, Cl. 60—39.55.
- Walter, Hellmuth. Rotary type combustion engine. 2,794,429, 6-4-57, Cl. 123—13.
- Walter, Hellmuth, to Worthington Corp. Rotary compressor. 2,801,791, 8-6-57, Cl. 230—152.
- Walter, Henry A., to Monsanto Chemical Co. Process for foaming resins using furan adduct foaming agents and foamable compositions containing same. 2,808,379, 10-1-57, Cl. 260—2.5.
- Walter, Herman, to L. Schuler A.-G. Mechanical brake with divided brake band. 2,780,320, 2-5-57, Cl. 188—77.
- Walter, Homer E., A. M. Sadler, J. P. Malkames, and C. D. Mitchell, dedicated to the free use of the people in the territory of the United States. Method of manufacturing cheese. 2,796,351, 6-18-57, Cl. 99—116.
- Walter, Jack C., to Minneapolis-Honeywell Regulator Co. Automatic gain control circuits for pulse type receivers. 2,786,902, 3-26-57, Cl. 179—171.
- Walter, James W. Portable foot sterilizer. 2,809,406, 10-15-57, Cl. 21—61.
- Walter, John M., to G. A. Gray Co. Compensated adjustment mechanism for machine tool spindles. 2,798,773, 7-9-57, Cl. 308—3.
- Walter, Jules G.: *See*—
- Cohn, Joseph, Walter, and Cohn. 2,792,615.
- Cohn, Joseph, Walter, and Cohn. 2,797,086.
- Walter Kidde Constructors, Inc.: *See*—
- Ferguson, A. Kingsley. 2,815,871.
- Walter, Leo N. Heating device, particularly for hot air heating systems. 2,793,638, 5-28-57, Cl. 126—106.
- Walter Mfg. Co. of Wisconsin: *See*—
- Hauemerson, Fred C. 2,778,597.
- Walter, Maurice. Transmission for motor vehicles. 2,776,572, 1-8-57, Cl. 74—15.63.
- Walter, Max, to Hoffmann-La Roche Inc. Basic derivative of 2-methyl-4-cyclohexylphenol and process for the manufacture thereof. 2,795,613, 6-11-57, Cl. 260—570.9.
- Walter, Otto L.: *See*—
- Luckhardt, Johannes. 2,788,058.
- Walter, Willy, M. Gladbach, and W. Messen., to A. Monforts, and M. Gladbach. Guiding arrangement for webs, comprising two movable pairs of rollers. 2,801,102, 7-30-57, Cl. 271—2.6.
- Walters, Albert A. Adapter for dial indicators. 2,791,033, 5-7-57, Cl. 33—148.
- Walters, Emmett L., to Libbey-Owens-Ford Glass Co. Method and apparatus for coating and marking lead strip. 2,800,416, 7-23-57, Cl. 117—8.
- Walters, George F., and B. M. Steele, to Oxi Corp. Apparatus for feeding and distributing granular material. 2,780,394, 2-5-57, Cl. 222—273.
- Walters, Gustav, to The Russell Mfg. Co. Venetian blind tape. 2,804,098, 8-27-57, Cl. 139—420.
- Walters, Gustav, L. J. Rasero, and D. B. Brownlow; said Rasero and said Brownlow assors, to The Russell Mfg. Co. Woven ladder tape and method of and apparatus for making the same. 2,801,456, 8-6-57, Cl. 28—72.
- Walters, Gustav, and A. Mann; said Mann, assor, to The Russell Mfg. Co. Apparatus for making Venetian-blind ladder tape. 2,803,288, 8-20-57, Cl. 154—1.6.
- Walters, Harry W. Form for casting regenerator checker-work supports of refractory material. 2,796,652, 6-25-57, Cl. 25—131.5.
- Walters, Maxwell I. Windshield wiper mechanisms. 2,785,429, 3-19-57, Cl. 15—253.
- Walters, Shelby L.: *See*—
- Werner, Robert C., and Walters. 2,782,369.
- Walters, Vernon G. K. Upholstery spring assemblies. 2,803,020, 8-20-57, Cl. 5—273.
- Walters, William L.: *See*—
- McDonald, Lloyd L., and Walters. 2,787,261.
- Walters, William R. Shaker screen constructions. 2,779,470, 1-29-57, Cl. 209—313.
- Walters, William R. Railway car construction with material handling means. 2,779,493, 1-29-57, Cl. 214—522.
- Walters, William R. Conveyor construction for railway ballast conditioning apparatus. 2,787,389, 4-2-57, Cl. 214—83.26.
- Walters, William R. Articulated connection for railway cars. 2,793,597, 5-28-57, Cl. 105—8.
- Walther, Alfred G.: *See*—
- Pomeroy, Frederick A., and Walther. 2,797,804.
- Walther, Frederick C.: *See*—
- Hess, William, Potchnik, and Walther. 2,793,907.
- Walther, Frederick C., to General Motors Corp. Seat mechanism. 2,795,266, 6-11-57, Cl. 155—14.
- Walther, Frederick C., and H. E. Van Voorhees, to General Motors Corp. Pivoted seat. 2,809,690, 10-15-57, Cl. 155—14.
- Walti, Hans, to Ardag, Applied Research and Development. Contour-milling method and means. 2,785,608, 3-19-57, Cl. 90—13.4.
- Walton, Arthur T.: *See*—
- Froudford, Don A., Meinsner, and Walton. 2,791,289.
- Walton Co., The: *See*—
- Miller, George J. 2,782,667.
- Weeks, Kenneth W. 2,781,683.
- Walton, Edward: *See*—
- Holly, Frederick W., and Walton. 2,811,531.
- Holly, Frederick W., Wagner, Walton, and Hoffman. 2,809,978.
- Walton, Edward, to Merck & Co., Inc. Production of α -lipoic acid intermediates. 2,792,414, 5-14-57, Cl. 260—455.
- Walton, Edward, and A. F. Wagner, to Merck & Co., Inc. Resolution of 7-carboethoxy-3-acetylthioheptanoic acid. 2,792,413, 5-14-57, Cl. 260—455.
- Walton, George, to The Drackett Co. Heat-producing compositions. 2,816,012, 12-10-57, Cl. 44—3.
- Walton, Guy E. Anchor post. 2,799,369, 7-16-57, Cl. 189—23.
- Walts, Earl E.: *See*—
- Maconeghy, Milton, and Walts. 2,792,810.
- Walts, Earl F., to Sylvania Electric Products Inc. Fluid treating apparatus. 2,792,855, 5-21-57, Cl. 141—87.
- Waltz, Maynard C., to Bell Telephone Laboratories, Inc. Method of plating silicon. 2,814,589, 11-26-57, Cl. 204—37.

- Walworth Co.: *See*—
 Bryant, Austin U. 2,791,238.
 Bryant, Austin U. 2,810,542.
 Bryant, Austin U. 2,810,543.
 Grove, Marvin H., and Bryant. 2,796,230.
 Jackson, George J. 2,806,265.
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- Walworth, Robert S., to Berlin Chapman Co. Foldable chair seating assemblage. 2,817,122, 12-24-57, Cl. 20—1.126.
- Waly, Adnan: *See*—
 Brasch, Arno, Huber, and Waly. 2,796,545.
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 Brasch, Arno, Huber, and Waly. 2,807,549.
 Brasch, Arno, Huber, and Waly. 2,807,551.
- Walz, Frederic F. Intermittent clutch. 2,781,880, 2-19-57, Cl. 192—33.
- Wampach, Robert G., to Teletype Corp. Telegraph signal distortion indicating apparatus. 2,811,582, 10-29-57, Cl. 178—69.
- Wan, Shen W., S. Strelzoff, and C. J. Barr, to Chemical Construction Corp. Separation of carbon dioxide from ammonia. 2,785,045, 3-12-57, Cl. 23—2.
- Wanamaker, Virgil H. Bumper attached trailer hitch. 2,791,445, 5-7-57, Cl. 280—502.
- Wanek, Otto: *See*—
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- Wander, Dr. A., A. G.: *See*—
 Schaltegger, Hermann. 2,778,840.
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- Wandrisco, Joseph M.: *See*—
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- Wang, Chao C., to Sperry Rand Corp. High frequency apparatus. 2,789,246, 4-16-57, Cl. 315—3.5.
- Wang, Pei: *See*—
 Crane, Horace I., and Wang. 2,793,146.
- Wang, Wensan. Smoker's appliance. 2,802,472, 8-13-57, Cl. 131—173.
- Wang, Wensan. Smoking pipe. 2,803,255, 8-20-57, Cl. 131—173.
- Wang, Wensan. Smoker's accessory. 2,804,079, 8-27-57, Cl. 131—207.
- Wang, Wensan. Pocket liquid cooling device. 2,805,556, 9-10-57, Cl. 62—92.
- Wang, Wensan. Smoking device. 2,805,670, 9-10-57, Cl. 131—207.
- Wang, Wensan. Smoking pipe. 2,807,268, 9-24-57, Cl. 131—207.
- Wang, Yuan S. Last line indicator. 2,778,473, 1-22-57, Cl. 197—189.
- Wanger, Claude J., to The Flushmaster Corp. Flush valve. 2,802,218, 8-13-57, Cl. 4—41.
- Wanielista, Walter: *See*—
 Larsen, Walter C., Ganshert, and Wanielista. 2,788,625.
- Wanish, George G. Tape measure device for catalogs and the like. 2,792,110, 5-14-57, Cl. 206—51.
- Wanke, Rudolf, and H. Zollner, to VEB Carl Zeiss Jena. Photographic objective comprising two collective and two dispersive members enclosing a diaphragm. 2,777,363, 1-15-57, Cl. 88—57.
- Wannamaker, William H., Jr.: *See*—
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- Wansink, Leo P., and C. L. Haynes, to C. F. Braun & Co. Riser for bubble cap assembly. 2,785,882, 3-19-57, Cl. 261—114.
- Wantz, Clarence: *See*—
 Demi, Roy C., and Wantz. 2,810,435.
- Wantz, Clarence. Timer controlled valve. 2,778,419, 1-22-57, Cl. 161—9.
- Wantz, Clarence. Control device for fluid fuel burners. 2,810,525, 10-22-57, Cl. 236—46.
- Wantz, Vernon L. Spectacle holder. 2,817,487, 12-24-57, Cl. 248—309.
- Wanzer, Arthur W.: *See*—
 Kalning, Frederick E., and Wanzer. 2,791,344.
- Wanzer, William G., to The De Laval Separator Co. Method and apparatus for washing discs. 2,788,008, 4-9-57, Cl. 134—101.
- War, United States of America as represented by the Secretary of: *See*—
 Bachmann, Werner E. 2,798,870.
 Bartelink, Everhard H. B., and Cady. 2,803,820.
 Bluford, Guion S., and Musser. 2,789,471.
 Close, Richard N. 2,807,017.
 Cunningham, Rhead D. 2,803,801.
 Gale, David. 2,799,855.
 Gehauf, Bernard, and Faber. 2,806,062.
 Gray, John W., Green, and Sayre. 2,784,908.
 Keiser, Morris, Daniels, and Jaffe. 2,800,831.
 Kroeger, William J., and Hirt. 2,800,081.
 Macy, Rudolph. 2,780,653.
 Millett, Walter E. 2,790,957.
 Morton, Harold S. 2,805,601.
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- Waraksa, Anthony S.: *See*—
 Schlegel, William M., and Waraksa. 2,792,778.
- Warburton, James: *See*—
 Hanisian, John, and Warburton. 2,786,802.
- Warburton, Rupert E. L.: *See*—
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- Ward, Austin C. J., to The Glacier Metal Co. Ltd. Method of manufacturing plain bearings and apparatus for making such bearings. 2,814,856, 12-3-57, Cl. 29—149.5.
- Ward, Curtis E.: *See*—
 Gardner, Bernard C., Salisbury, and Ward. 2,798,184.
- Ward, David R. Disposal unit for burning items. 2,800,864, 7-30-57, Cl. 110—18.
- Ward, Delbert J. Electric metering devices. 2,814,016, 11-19-57, Cl. 323—75.
- Ward, Donald R. Smoke-ring signaling drum. 2,788,607, 4-16-57, Cl. 46—9.
- Ward, Elmer F., to Task Corp. Eccentric load compensating strain gauge mount. 2,796,503, 6-18-57, Cl. 201—63.
- Ward, Elmer F., to Task Corp. Eccentric load compensating strain gauge mount. 2,803,134, 8-20-57, Cl. 73—141.
- Ward, Frank T., to J. V. Taylor, C. E. Morgan, and R. C. Read, copartners d. b. a. Rocketport Industries. Powder spraying apparatus and method. 2,789,015, 4-16-57, Cl. 302—52.
- Ward, Gerald E., M. Congdon, and M. E. Davis. Fluid metering device. 2,776,568, 1-8-57, Cl. 73—253.
- Ward, Gilbert J.: *See*—
 Longstreth, Murrey O., and Ward. 2,810,423.
- Ward Industries Corp.: *See*—
 Davis, Ernest. 2,807,396.
- Ward, Irving A.: *See*—
 Bletcher, Ralph E., and Ward. 2,789,013.
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 Bletcher, Ralph E., and Ward. 2,795,462.
- Ward, John O.: *See*—
 Kait, John K., and Ward. 2,793,113.
- Ward, John W. Adjustable coil-winding core. 2,809,674, 10-15-57, Cl. 140—92.2.
- Ward, Julius C., to General Precision Laboratory Inc. Variable mu wideband amplifier. 2,790,854, 4-30-57, Cl. 179—171.
- Ward, Lawrence T. Metering valve. 2,788,925, 4-16-57, Cl. 222—394.
- Ward, Lawrence T. Container filling spray valve. 2,802,490, 8-13-57, Cl. 141—20.
- Ward, Lawrence T. Spray dispensing valve. 2,812,884, 11-12-57, Cl. 222—394.
- Ward, Lawrence T. Spray device having a flexible sac lining. 2,816,691, 12-17-57, Cl. 222—183.
- Ward Leonard Electric Co.: *See*—
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- Ward, Michael J., C. H. Baker, and W. G. Wood. Cream and paste dispenser. 2,801,028, 7-30-57, Cl. 222—101.
- Ward, Paul S. Method for proofing and baking bread. 2,785,642, 3-19-57, Cl. 107—54.
- Ward, Peter W., to The General Electric Co. Ltd. Automatic telephone exchanges. 2,802,057, 8-6-57, Cl. 179—15.
- Ward, Ronald A.: *See*—
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- Ward, Roy: *See*—
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- Ward, Thomas C. Surgical brace. 2,808,050, 10-1-57, Cl. 128—78.
- Ward, Valley L., to Magnetic Devices, Inc. Electric circuit controller. 2,795,658, 6-11-57, Cl. 200—6.
- Ward, Warren F. Sucker rod protectors. 2,793,917, 5-28-57, Cl. 308—4.
- Ward, Wayne A. Rural mail box signal. 2,807,410, 9-24-57, Cl. 232—35.
- Ward, William A. Baby food feeder. 2,809,771, 10-15-57, Cl. 222—107.
- Ward, William C., to The Norwich Pharmacal Co. Chemical compound, 5-nitro-2-furaldehyde 4-(p-arsenophenyl) semicarbazone, and the non-toxic, water-soluble salts thereof. 2,808,414, 10-1-57, Cl. 260—347.3.
- Ward, William E.: *See*—
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- Wardell, MacArthur. Self-rocking hammock. 2,793,375, 5-28-57, Cl. 5—103.
- Wardell, Ross D. Scaffold and hoist structure. 2,798,574, 7-9-57, Cl. 187—2.
- Wardell, Winnifred A., to Rohm & Haas Co. Cellulose plissé-fabric and method of producing by applying 1,3 bis(hydroxymethyl) 2-imidazolidone and chemical shrinking agent. 2,810,624, 10-22-57, Cl. 8—114.5.
- Warden, Frederick W.: *See*—
 McWhirter, Eric M. S., and Warden. 2,814,440.
- Wardle, Isaac J. Carry-all with claw loading scraper apron. 2,795,872, 6-18-57, Cl. 37—126.
- Wardleworth, James: *See*—
 Lodge, Frank, and Wardleworth. 2,778,831.
- Wardley, Tressa. Face and neck protectors. 2,791,778, 5-14-57, Cl. 2—174.
- Wardwell, George W., Jr., to Sargent & Co. Door locks. 2,800,347, 7-23-57, Cl. 292—169.
- Ware, Charles E. Anti-friction cap for valve lifters. 2,795,217, 6-11-57, Cl. 123—90.

- Ware, John A. Combined garden markers and seed containers. 2,790,257, 4-30-57, Cl. 40-10.
- Ware, John H., Jr. Aluminum windows. 2,792,090, 5-14-57, Cl. 189-75.
- Ware, John H., Jr. Aluminum windows. 2,809,727, 10-15-57, Cl. 189-69.
- Ware Laboratories, Inc.: See—
- Yoder, Ervin. 2,780,328.
- Ware, Robert M. Electric liquid heater. 2,801,324, 7-30-57, Cl. 219-41.
- Ware, William H., Jr., to The Ralph M. Parsons Co. Indicator board. 2,787,850, 4-9-57, Cl. 40-65.
- Ware, William W.: See—
- Blood, Harold L., and Ware. 2,801,502.
- Wareham, Richard R.: See—
- Fairbank, Murry N., McCune, Wareham, and Whittier. 2,794,376.
- Fairbank, Murry N., and Wareham. 2,804,811.
- Wareham, Richard R., to Polaroid Corp. Photographic apparatus. 2,794,378, 6-4-57, Cl. 95-13.
- Warfield, James G. Trap. 2,801,493, 8-6-57, Cl. 43-59.
- Warford, Henry R. Fishing apparatus. 2,781,602, 2-19-57, Cl. 43-24.
- Wargo, Peter, to Stewart-Warner Corp. Two-speed speedometer drive. 2,797,588, 7-2-57, Cl. 74-368.
- Wargo, Peter, to Stewart-Warner Corp. Speed responsive control device. 2,813,264, 11-12-57, Cl. 340-264.
- Warhurst, James E.: See—
- Webb, Robert J., and Warhurst. 2,818,200.
- Warhus, John D., to General Electric Co. Flow control device. 2,781,058, 2-12-57, Cl. 138-45.
- Warhus, John D., to General Electric Co. Water saving apparatus for clothes washing machines or the like. 2,786,483, 3-26-57, Cl. 137-122.
- Waring, Ellis T. Centrifugal nut cracker having stationary anvil. 2,806,496, 9-17-57, Cl. 146-9.
- Warino, Nicholas L. Portable clothes dryer. 2,787,841, 4-9-57, Cl. 34-58.
- Wark, Emerson L.: See—
- Pichler, Joseph R., Brubaker, Shuler, and Wark. 2,779,165.
- Wark, John D.: See—
- Hawthorne, Kenneth B., Hanlon, Schladermundt, Metzler, and Wark. 2,790,609.
- Holzwarth, Henry A., and Wark. 2,785,551.
- Wark, Marian E. Cleaning apparatus. 2,813,291, 11-19-57, Cl. 15-209.
- Warkentien, Robert H., to Jas. P. Marsh Corp. Electric timer. 2,803,300, 8-20-57, Cl. 161-15.
- Warlam, Arpad A., to the United States of America as represented by the Secretary of the Air Force. Drop penetrometer. 2,796,760, 6-25-57, Cl. 73-82.
- Warlick, Frank: See—
- Wertman, David, and Warlick. 2,779,246.
- Warlick, Frank. Hydraulic breech control system. 2,789,472, 4-23-57, Cl. 89-4.
- Warlick, Frank. Projectile buffer. 2,790,358, 4-30-57, Cl. 89-45.
- Warlick, Frank. Turret gun gas ejection system. 2,798,412, 7-9-57, Cl. 89-1.
- Warman, Bloomfield J., to Siemens Brothers & Co., Ltd. Mult-gap cold-cathode electric discharge tubes and their use for counting and like purposes. 2,792,526, 5-14-57, Cl. 315-84.6.
- Warman, Bloomfield J., to Siemens Brothers & Co. Ltd. Chain circuits such as are used for counting, storage, and like purposes in automatic exchange systems. 2,798,983, 7-9-57, Cl. 315-84.5.
- Warman, Bloomfield J., to Siemens Brothers & Co. Ltd. Automatic telephone and like selecting systems. 2,804,604, 8-27-57, Cl. 340-167.
- Warman, Bloomfield J., to Siemens Brothers & Co. Ltd. Automatic telephone systems. 2,807,671, 9-24-57, Cl. 179-18.
- Warmath, Perry. Tag holder. 2,808,962, 10-8-57, Cl. 221-34.
- Warmoltz, Nicolaas, and P. P. M. Schampers, to North American Philips Co., Inc. Radiation detector. 2,805,345, 9-3-57, Cl. 250-83.3.
- Warnant, Julien: See—
- Hagemann, Guy, Nomine, and Warnant. 2,805,978.
- Warnecke, Robert, and H. Huber, to Compagnie Generale de Telegraphie Sans Fil. Traveling wave tubes. 2,786,959, 3-26-57, Cl. 315-3.5.
- Warnecke, Robert, O. Dohler, and W. Kleen, to Compagnie Generale de Telegraphie Sans Fil. Progressive wave tube comprising an output cavity and a drift space. 2,794,143, 5-28-57, Cl. 315-3.5.
- Warnecke, Robert, W. Kleen, H. Huber, and O. Dohler, to Compagnie Generale de Telegraphie Sans Fil. Ultra-high frequency amplifying tube. 2,794,146, 5-28-57, Cl. 315-5.16.
- Warnecke, Wilhelm, and F. Rings, to G. Kromschroder Aktiengesellschaft. Gas filter. 2,799,357, 7-16-57, Cl. 183-43.
- Warner, Albert C. Thread cutting tool. 2,810,188, 10-22-57, Cl. 29-96.
- Warner, Archibald A., to Borg-Warner Corp. Shield for drive mechanism. 2,796,749, 6-25-57, Cl. 64-4.
- Warner, Boyd W. Adjustable height poultry feeder. 2,793,616, 5-28-57, Cl. 119-61.
- Warner Brothers Co., The: See—
- La Bue, Seraphina C. 2,799,021.
- Warner Bros. Pictures, Inc.: See—
- Mueller, William A. 2,778,874.
- Tondreau, Albert W. 2,797,626.
- Warner, Dale A.: See—
- Tarrant, Paul, and Warner. 2,804,484.
- Warner, Douglas K. High lift airfoil system. 2,809,793, 10-15-57, Cl. 244-42.
- Warner, Edmund M.: See—
- Dolecki, Matthew J., and Warner. 2,813,984.
- Warner Electric Brake & Clutch Co.: See—
- Harter, Paul A. 2,808,917.
- Pierce, William C. 2,796,962.
- Warner, Fred, L. L. Calhoun and J. E. Herbe, to Avco Mfg. Corp. Process for making grids. 2,800,929, 7-30-57, Cl. 140-71.5.
- Warner, Fred J., W. H. Easton, and B. S. Davenport. Fuel pressure regulator. 2,794,321, 6-4-57, Cl. 62-1.
- Warner, Frederick P., and C. E. Carlson, to Warner Mfg. Co. Moistening trough for pre-pasted wallpaper. 2,794,419, 6-4-57, Cl. 118-419.
- Warner, Harold O.: See—
- Walker, Robert B., Warner, and Hodgins. 2,812,310.
- Warner, Heinrich. Convertible hard top for automobiles. 2,812,975, 11-12-57, Cl. 296-117.
- Warner-Lambert Pharmaceutical Co.: See—
- Doczi, John. 2,795,579.
- Leonard, Frederick, and Anderson. 2,788,751.
- Scudi, John V., Duesel, and Mayurnik. 2,789,980.
- Warner Lewis Co.: See—
- Thompson, Malcolm W. 2,781,909.
- Thompson, Malcolm W. 2,788,129.
- Warner Mfg. Co.: See—
- Warner, Frederick P., and Carlson. 2,794,419.
- Warner Mfg. Corp.: See—
- Lipman, Leonard M. 2,778,100.
- Lipman, Leonard M. 2,794,522.
- Warner, Milton Y., to Whirlpool-Seeger Corp. Two-temperature refrigeration system. 2,780,072, 2-5-57, Cl. 62-4.
- Warner, Milton Y., to Whirlpool-Seeger Corp. Refrigerator compressor. 2,797,857, 7-2-57, Cl. 230-58.
- Warner, Milton Y., to Whirlpool-Seeger Corp. Lubricating bearings of refrigerator compressor. 2,809,872, 10-15-57, Cl. 308-172.
- Warner, Paul F., to Phillips Petroleum Co. Process for controlling activity of copper reagent solutions. 2,790,008, 4-23-57, Cl. 260-608.
- Warner, Roger M., to The Champion Paper and Fibre Co. Apparatus for measuring surface speed. 2,786,978, 3-26-57, Cl. 324-70.
- Warner, Scott D., to United States Steel Corp. Apparatus for unloading pallets. 2,792,133, 5-14-57, Cl. 214-38.
- Warner, Stanley L. Process of separating plattain (buckhorn) seed from small crop seeds such as clover, alfalfa and many others of similar size and specific gravity. 2,794,550, 6-4-57, Cl. 209-46.
- Warner, Sterling W., to American Viscose Corp. Fluid controlling system. 2,780,877, 2-12-57, Cl. 34-156.
- Warner & Swasey Co., The: See—
- Ebersold, Robert C. 2,781,879.
- Lance, George M. 2,802,456.
- Longstreet, James R. 2,807,052.
- Nichta, John J. 2,799,075.
- Sandelin, Olle E. 2,794,214.
- Sandelin, Olle E. 2,813,307.
- Warner & Swasey Research Corp., The: See—
- Tandler, William S., and Grossman. 2,807,175.
- Warner, Walter C., and E. E. Gruber, to The General Tire and Rubber Co. Hydraxone stabilized plastic film. 2,786,044, 3-19-57, Cl. 260-45.5.
- Warner, William D., and W. McFarland. Inside cutter. 2,803,301, 8-20-57, Cl. 164-0.7.
- Warner, William T. Precision hammer. 2,787,179, 4-2-57, Cl. 81-52.35.
- Warner, William W. Body traction apparatus with an extensible table. 2,787,262, 4-2-57, Cl. 128-71.
- Warnes, Don E.: See—
- Lund, Robert E., and Warnes. 2,777,752.
- Warnken, Elmer P., to Cincinnati Testing & Research Laboratories. Compressor blade and method of making. 2,796,215, 6-18-57, Cl. 230-134.
- Warnock, William R., to Ansul Chemical Co. Foam-compatible fire-extinguishing composition. 2,816,864, 12-17-57, Cl. 252-7.
- Warp, Harold, to Flex-O-Glass, Inc. Outlet control plug for irrigation tubing. 2,811,392, 10-29-57, Cl. 299-106.
- Warren, Charles, 40% to J. H. Davis. Oil radiator for motorcycles. 2,781,859, 2-19-57, Cl. 180-33.
- Warren, Charles G.: See—
- Dusenbury, Theodore P., Ellsworth, and Warren. 2,816,755.
- Dusenbury, Theodore P., and Warren. 2,816,756.
- Warren, Charles S., to Radio Corp. of America. Magnetic switching system. 2,785,389, 3-12-57, Cl. 340-174.
- Warren, Charles W., to The Perkin-Elmer Corp. Apparatus for compensating radiant beams. 2,803,752, 8-20-57, Cl. 250-209.
- Warren, Charles W., to The Perkin-Elmer Corp. Spectrophotometer compensation control. 2,804,549, 8-27-57, Cl. 250-209.
- Warren, Clarence C. Shield or protector for a valve stem. 2,816,566, 12-17-57, Cl. 137-382.

- Warren, Edward J., $\frac{1}{2}$ to O. P. Schoolfeld. Vehicle opened automatic closing gate. 2,799,103, 7-16-57, Cl. 39-18.
- Warren, Francis G. R., to RCA Victor Co., Ltd. Scan antenna. 2,814,040, 11-19-57, Cl. 343-909.
- Warren, Francis G. R., and S. E. A. Pinnell, to RCA Victor Co., Ltd. Scan antenna. 2,814,037, 11-19-57, Cl. 343-754.
- Warren, Fredrick W.: *See—*
Crabbe, John D., and Warren. 2,788,838.
- Warren, Henry E. Vibration and wear reducing bearing structure. 2,805,903, 9-10-57, Cl. 308-36.
- Warren, Henry R., to National Cylinder Gas Co. Dielectric heating systems and applicators. 2,783,344, 2-26-57, Cl. 219-10.55.
- Warren, Henry R., to National Cylinder Gas Co. High-frequency heating applicators. 2,783,345, 2-26-57, Cl. 219-10.55.
- Warren, Henry R., to National Cylinder Gas Co. High-frequency heating applicators. 2,783,346, 2-26-57, Cl. 219-10.55.
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- Warren, Henry R., to National Cylinder Gas Co. High-frequency heating applicators. 2,783,349, 2-26-57, Cl. 219-10.55.
- Warren, Horace G., to Consolidated Electrodynamics Corp. Vacuum system apparatus. 2,806,644, 9-17-57, Cl. 230-101.
- Warren, Horace G., and M. E. Johnson, to Consolidated Electrodynamics Corp. Apparatus for drying sealed containers. 2,781,588, 2-19-57, Cl. 34-1.
- Warren, Howard C. Automatic control circuits. 2,813,263, 11-12-57, Cl. 340-213.
- Warren, J. C., Corp.: *See—*
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- Warren, Jane: *See—*
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- Warren, Northam, Corp.: *See—*
Warren, Northam, Jr. 2,776,051.
- Warren, Northam, Jr., to Northam Warren Corp. Lipstick case. 2,776,051, 1-1-57, Cl. 206-56.
- Warren Petroleum Corp., Inc.: *See—*
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- Warren, Ray C., to Hershel California Fruit Products Co., Inc. Skin separator. 2,776,690, 1-8-57, Cl. 146-43.
- Warren, S. D., Co.: *See—*
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- Brinnick, Frederic E., Doggett, and Oransky. 2,778,735.
- Brinnick, Frederic E., Reilly, and Doggett. 2,778,301.
- Frost, Frederic H., and Lane. 2,780,563.
- Hart, Robert T. 2,776,226.
- Warren, Samuel C., to George Koch Sons, Inc. Direct fired water heaters. 2,810,382, 10-22-57, Cl. 126-360.
- Warren, Steven. Flash recognition training device. 2,791,843, 5-14-57, Cl. 35-35.
- Warren-Teed Products Co., The: *See—*
Hoff, Donald A. 2,809,913.
- Warren, William D. Basket with insert. 2,790,573, 4-30-57, Cl. 217-122.
- Warren, William M. Welding rod holder. 2,778,927, 1-22-57, Cl. 219-144.
- Warrick, Frederick P., Co.: *See—*
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- Warriner, Ben, IV, to General Precision Laboratory Inc. Automatic frequency control for frequency modulated generators. 2,778,999, 1-22-57, Cl. 332-19.
- Warring, Stig E.: *See—*
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- Aasma, Felix, Håård, and Warring. 2,799,728.
- Warring, Stig E., to Telefonaktiebolaget L M Ericsson. Method for directing the electron beam of a binary trochotron periodically. 2,811,669, 10-29-57, Cl. 315-21.
- Warrington, Albert R. V., to The English Electric Co., Ltd. Cases for electrical instruments. 2,802,972, 8-13-57, Cl. 317-113.
- Warrington, Arthur: *See—*
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- Warrington, Fred R., Sr. Folding pack axe. 2,793,664, 5-28-57, Cl. 145-2.
- Warrington, Harold G., to Dominion Magnesium Ltd. Briquettes for metal recovery. 2,808,322, 10-1-57, Cl. 75-3.
- Warsack, George L., to The Kno-Kure Co. Material treating system and apparatus. 2,794,212, 6-4-57, Cl. 18-6.
- Warschau, Hans: *See—*
Paulsmeier, Fritz, and Warschau. 2,808,006.
- Warschawsky, Curtis B.: *See—*
Nicholson, William Q., and Warschawsky. 2,798,138.
- Wartian, George. Latch for sliding doors. 2,810,284, 10-22-57, Cl. 70-99.
- Warwick, Emma B. C. Adjustable cross-word puzzle apparatus. 2,795,863, 6-18-57, Cl. 35-35.
- Warwick, John, to Specialties Development Corp. Yarn tension responsive switch. 2,801,307, 7-30-57, Cl. 200-61.18.
- Warwick, John. Easel apparatus. 2,814,142, 11-26-57, Cl. 41-4.
- Wasco Supply Co.: *See—*
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- Wash Overshot and Spear Engineers, Inc., The: *See—*
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- Le Bus, Franklin L., Sr. 2,817,555.
- Washabaugh, Edward P., to American-Marietta Co. Pipe lifting hook. 2,801,128, 7-30-57, Cl. 294-82.
- Washabaugh, Edward P., to American-Marietta Co. Mechanism for shaping a wire cage by stretching. 2,814,326, 11-26-57, Cl. 153-35.
- Washabaugh, Frank J., to United States Steel Corp. Pay-off mechanism for dead reels. 2,784,921, 3-12-57, Cl. 242-128.
- Washbourn, Kenneth D. R.: *See—*
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- Washburn, C. The: *See—*
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- Lawrence, John R. 2,809,580.
- Washburn, Ernest L., to Illinois Development Laboratories, Inc. Cooking process. 2,785,980, 3-19-57, Cl. 99-88.
- Washburn, Frederick L., Jr., to National Union Electric Corp. Pulse-counting systems. 2,807,747, 9-24-57, Cl. 315-8.5.
- Washburn, George N., to Ozark Fisheries, Inc. Medium for the transportation and storage of live fish. 2,783,736, 3-5-57, Cl. 119-5.
- Washburn, Harold W., and C. E. Berry, to Consolidated Electrodynamics Corp. Mass spectrometry. 2,784,318, 3-5-57, Cl. 250-41.9.
- Washburn, Howard H.: *See—*
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- Puddicombe, Albert L., and Washburn. 2,813,693.
- Washburn, Lucius H. Apparatus responsive to temperature conditions. 2,787,685, 4-2-57, Cl. 200-142.
- Washington Machine & Tool Works, Inc.: *See—*
Lanier, Reginald S. 2,777,352.
- Washington Steel Products, Inc.: *See—*
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- Wasilislin, Michael E., and D. E. Wernz, to The Glenn L. Martin Co. Core manufacture. 2,780,716, 2-5-57, Cl. 219-83.
- Waskie, George M. Extensible vehicle lamp. 2,796,515, 6-18-57, Cl. 240-7.1.
- Wasko, Bernard, to Voland and Sons, Inc. Bead chain drive. 2,791,911, 5-14-57, Cl. 74-243.
- Wasley, Arthur J., to The Farmington Co., Inc. Textile machinery, and more particularly to top rolls for textile spinning or roving frames, and the like. 2,806,258, 9-17-57, Cl. 19-142.
- Wasley, Roy E. Bent arm signal for golfers. 2,809,042, 10-8-57, Cl. 273-183.
- Wasley, William L.: *See—*
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- Waslov, Alphonsus J., to C. P. Boyd. Apparatus for reeling wire. 2,803,412, 8-20-57, Cl. 242-25.
- Wasmandorff, Carlton, to Hoffman Radio Electronics Corp. Radio communication by neutral frequency deviation. 2,797,313, 6-25-57, Cl. 250-8.
- Wasp, Edward J.: *See—*
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- Clancey, James T., Phinney, Regan, and Wasp. 2,791,471.
- Wasp, Edward J. Fluid heaters. 2,789,521, 4-23-57, Cl. 110-98.
- Wassco Electric Products Corp.: *See—*
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- Wassel, Eugene S.: *See—*
Nothmann, Gerhard A., and Wassel. 2,799,968.
- Wassel, Eugene S., to the United States of America as represented by the Secretary of the Army. Positive action cam track for automatic guns with rotatable cartridge drum. 2,786,394, 3-26-57, Cl. 89-155.
- Wassell, Frank L., to G. P. Wassell. Correspondence filing mechanism. 2,790,443, 4-30-57, Cl. 129-16.
- Wassell, Frank L., to G. P. Wassell. Card for card file. 2,800,130, 7-23-57, Cl. 129-16.7.
- Wassell, Georgene P.: *See—*
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- Wassell, Frank L. 2,800,130.
- Wasser, Forrest F., and C. H. Hook. Securing device. 2,789,833, 4-23-57, Cl. 280-400.
- Wasserbach, Theodore B.: *See—*
Kolffenbach, John J., Wasserbach, and Walker. 2,782,592.
- Wasserlein, Henry G., to Wassco Electric Products Corp. Smoking pipe dryer. 2,809,441, 10-15-57, Cl. 34-51.
- Wasserman, Max. Skylight construction. 2,780,283, 2-5-57, Cl. 160-26.
- Wasserman, Max. Skylight dome construction. 2,790,400, 4-30-57, Cl. 108-16.
- Wasserman, Max. Ventilator cover. 2,803,184, 8-20-57, Cl. 98-84.
- Wasserman, Morris, to Meat Industry Suppliers, Inc. Composition and method for inhibiting color changes of cured meat products. 2,812,261, 11-5-57, Cl. 99-222.
- Wasserman, Morris, to Meat Industry Suppliers, Inc. Brines containing sodium tripolyphosphate. 2,812,262, 11-5-57, Cl. 99-222.
- Wasserman, Rene D., to Eutectic Welding Alloys Corp. Welding flux for cast iron. 2,799,607, 7-16-57, Cl. 148-26.
- Wasserman, Rene D., and J. F. Quaas, to Eutectic Welding Alloys Corp. Metallic arc electrode for welding copper and copper alloys. 2,806,805, 9-17-57, Cl. 117-202.

- Wassermann, Heinrich, and P. Van Ackeren, to Koppers Co., Inc. Apparatus for charging horizontal coke ovens. 2,793,176, 5-21-57, Cl. 202-251.
- Wassermann, Rudolf, to Vorwerk & Sohn. Components for use in producing footwear and the production of such components. 2,815,306, 12-3-57, Cl. 154-46.
- Wasson, Jones I., to Esso Research and Engineering Co. Oil compositions containing solid particles. 2,781,314, 2-12-57, Cl. 232-18.
- Wasson, Loerwood C., to A. O. Smith Corp. Modulalting gas control apparatus. 2,784,913, 3-12-57, Cl. 236-92.
- Wassyn, Seymour D., and R. H. Ensign, to Hough Mfg. Corp. Wood splint window shades. 2,808,222, 10-1-57, Cl. 248-262.
- Waste King Corp.: See—
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- Wastl, Max E. Reader training device. 2,782,528, 2-26-57, Cl. 35-35.
- Wasyluk, Joseph. Canopy carrier for strollers. 2,798,651, 7-9-57, Cl. 224-42,46.
- Wasynczuk, Victor: See—
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- Watanabe, Warren H.: See—
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- Waterbury Pressed Metal Co., The: See—
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- Waterbury Tack Co., Inc.: See—
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- Waterfill, Robert W., to Buensod-Stacey, Inc. Flow control apparatus. 2,794,598, 6-4-57, Cl. 236-13.
- Waterhouse, Ernest L., and L. L. Zinsmeister, to Eaton Mfg. Co. Core wash. 2,786,771, 3-26-57, Cl. 106-38,28.
- Waterhouse, Ernest L., and L. L. Zinsmeister, to Eaton Mfg. Co. Sand core coating composition. 2,809,117, 10-8-57, Cl. 106-38,28.
- Waterhouse, Lewis O., A. Cederlund, and K. J. Hall, to Crompton & Knowles Loom Works. Weft stop motion for narrow ware loom. 2,788,025, 4-9-57, Cl. 139-371.
- Waterhouse, Robert B.: See—
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- Waterhouse, William J., W. H. McLaughlin, and A. W. Claverie, to Technical Engineering Service, Inc. Two-stroke cycle internal combustion engine. 2,797,672, 7-2-57, Cl. 123-65.
- Waterman, Hein I.: See—
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- Waterman, Hein I., J. W. Klinkenberg, and J. M. Oelderik, to Shell Development Co. Manufacture of aromatics. 2,798,889, 7-9-57, Cl. 260-673.
- Waterman, Hein I., J. W. Klinkenberg, and J. M. Oelderik, to Shell Development Co. Manufacture of aromatics. 2,798,890, 7-9-57, Cl. 260-673.
- Waterman, Neil S. Plastic holder and the like. 2,779,459, 1-29-57, Cl. 206-1.
- Waterman Pen Co., Inc.: See—
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- Waterman, Peter: See—
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- Waterman, William: See—
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- Waterous Co.: See—
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Thomas, David F., and Hill. 2,790,393.
Thomas, David F., and Hill. 2,795,236.
Thomas, David F., and Hill. 2,800,295.
- Waters Corp., The: See—
Conrad, Matthew. 2,816,997.
- Waters, Edward G. Leg holders for and in combination with operating table. 2,792,266, 5-14-57, Cl. 311-11.
- Waters, George C., Jr. Automatic releasable safety coupling for tractor-trailer vehicles. 2,815,224, 12-3-57, Cl. 280-432.
- Waters, Harry F. Tag. 2,796,686, 6-25-57, Cl. 40-20.
- Waters, Henry C., to Perforating Guns Atlas Corp. Electrical well logging system. 2,779,912, 1-29-57, Cl. 324-1.
- Waters, Henry C., to Perforating Guns Atlas Corp. Dual frequency well logging system. 2,779,913, 1-29-57, Cl. 324-1.
- Waters, Herbert H., to The Firestone Tire & Rubber Co. Method of vulcanizing tubeless tires. 2,779,386, 1-29-57, Cl. 154-14.
- Waters, James L., to James L. Waters, Inc. Gas analysis apparatus. 2,802,109, 8-6-57, Cl. 250-43,5.
- Waters, James L., Inc.: See—
Waters, James L. 2,802,109.
- Waters, Joseph L. Joint for paperboard sheets. 2,796,638, 6-25-57, Cl. 20-15.
- Waters, Joseph L. Ball catcher. 2,805,070, 9-3-57, Cl. 273-181.
- Waters, Lawrence W., to United Can & Glass Co. Peach pitter. 2,799,311, 7-16-57, Cl. 146-28.
- Waters, Paul L., to National Research Development Corp. Electronic information storage systems and discharge tubes therefor. 2,777,060, 1-8-57, Cl. 250-27.
- Waters, Percy L.: See—
Chamberlain, Eric A. C., Waters, and Robertson. 2,778,499.
- Waters, Richard H., to Sylvania Electric Products Inc. Traveling wave tube mixer. 2,805,333, 9-3-57, Cl. 250-20.
- Waters, Robert S., to A. O. Smith Corp. Centrifugal actuator and switch. 2,812,401, 11-5-57, Cl. 200-80.
- Waters, Warren P., to Hughes Aircraft Co. Alkali metal alloy agents for auto-fluxing in junction forming. 2,817,609, 12-24-57, Cl. 148-1,5.
- Watford Electric & Mfg. Co. Ltd.: See—
Gascoine, Arthur C., and Craven. 2,784,274.
- Wathen, William A., and H. G. Thompson, to Massey-Harris-Ferguson, Inc. Wagon hitch for harvesters. 2,793,053, 5-21-57, Cl. 280-460.
- Watkin, Robert W., to The Edwin M. Knowles China Co. Ware-forming apparatus. 2,813,324, 11-19-57, Cl. 25-26.
- Watkin, Wilfrid B. C., to Powers-Samas Accounting Machines Ltd. Card-locating apparatus. 2,798,668, 7-9-57, Cl. 235-61,11.
- Watkins, Charles H., to Universal Oil Products Co. Hydrocarbon coking process. 2,780,587, 2-5-57, Cl. 202-18.
- Watkins, Charles H., and A. J. de Rosset, to Universal Oil Products Co. Production of lubricating oils. 2,787,582, 4-2-57, Cl. 196-49.
- Watkins, Dean A.: See—
Field, Lester M., and Watkins. 2,800,602.
Johnson, Horace R., and Watkins. 2,809,321.
- Watkins, Donald B., to Sylvania Electric Products Inc. Dummy lead inserter for wafer stems. 2,781,613, 2-19-57, Cl. 49-76.
- Watkins, John. Flower box. 2,782,562, 2-26-57, Cl. 47-38.
- Watkins, Lee K., to American Radiator & Standard Sanitary Corp. Pop-up valve. 2,807,806, 10-1-57, Cl. 4-203.
- Watkins, Nathan F., to Sumter Mfg. Co. Log-slab-debarking apparatus. 2,792,860, 5-21-57, Cl. 144-208.
- Watkins, Thomas B.: See—
Murray, George, and Watkins. 2,788,445.
- Watkins, Thomas E., to Socony Mobil Oil Co., Inc. Method of treating lime base drilling fluids to reduce water loss. 2,816,071, 12-10-57, Cl. 252-8,5.
- Watkins, Thomas E., to Socony Mobil Oil Co., Inc. Method of reducing water loss of lime base drilling fluids. 2,816,072, 12-10-57, Cl. 252-8,5.
- Watkins, Thomas I.: See—
Leiper, John W. G., and Watkins. 2,814,583.
Short, Wallace F., and Watkins. 2,803,629.
- Watkins, Willie R., to A. T. Staples. Hair clipper. 2,807,086, 9-24-57, Cl. 30-133.
- Watkins, James H. Electric cartridge fuses. 2,811,609, 10-29-57, Cl. 200-133.
- Watler, Robert W.: See—
Hibbitt, Alec E. W., Couzens, Watler, and Batchelor. 2,810,086.
- Watling, Robert G.: See—
Harley, Joseph J., Henneberger, and Watling. 2,785,217.
- Watlington, Lee S. Coin-controlled bottle dispenser. 2,777,605, 1-15-57, Cl. 221-133.
- Watro, Peter. Guide attachment for paint brushes. 2,807,041, 9-24-57, Cl. 15-248.
- Watrous, Ward W., Jr., to Gera Corp. Adjustable baffle for gaseous discharge devices. 2,786,956, 3-26-57, Cl. 313-204.
- Watrous, Ward W., Jr., to Chatham Electronics, Division of Gera Corp. Electrode insulator. 2,787,722, 4-2-57, Cl. 313-199.
- Watrous, Ward W., Jr., to Chatham Electronics, Div. of Gera Corp. Grid system for gaseous discharge device. 2,797,348, 6-25-57, Cl. 313-194.
- Watrous, Ward W., Jr., to Chatham Electronics, Division of Gera Corp. Anode support. 2,803,776, 8-20-57, Cl. 313-219.
- Watson, Albert T.: See—
Boynnton, Harry G., Cornell, Lewis, and Watson. 2,807,640.
Cier, Harry E., Lewis, and Watson. 2,812,302.
Mosesman, Max A., and Watson. 2,780,358.
- Watson, Alexander N., to Foremost Fittings Co. Wedge type of compression tube coupling. 2,791,452, 5-7-57, Cl. 285-342.
- Watson, Bert. Five point star describing instrument. 2,797,493, 7-2-57, Cl. 33-174.
- Watson, Charles E.: See—
Pennington, William A., and Watson. 2,817,494.
- Watson, Edmund A.: See—
Sheffer, John W., and Watson. 2,777,782.
Sheffer, John W., and Watson. 2,810,336.
- Watson Elevator Co., Inc.: See—
Bregman, Myron W. 2,804,587.
Callaway, Clarence R. 2,792,469.
Raque, Arthur E. 2,804,296.
- Watson, Eric I.: See—
Senkowski, Alexander, and Watson. 2,790,522.
Senkowski, Alexander, and Watson. 2,816,456.

- Watson, George R.: *See*—
Fetterley, Guy H., and Watson. 2,801,903.
Fetterley, Guy H., and Watson. 2,806,799.
- Watson, Glenn W., to Detroit Wabek Bank and Trust Co. Method of balancing current volume and steam generation by use of current conducting films. Re. 24,283, 2-26-57, Cl. 219-40.
- Watson, Gordon T. Page clip. 2,784,470, 3-12-57, Cl. 24-66.
- Watson, Harold J., and H. D. Kluge, to The Texas Co. Extreme pressure lubricant compositions. 2,796,403, 6-18-57, Cl. 252-47.5.
- Watson, Hugh G., to M. C. Watson, d. b. a. Wyllie Webb Co. Collapsible golf bag carrier. 2,806,709, 9-17-57, Cl. 280-38.
- Watson, Isabella J. Shoe bag. 2,780,260, 2-5-57, Cl. 150-1.
- Watson, James P. Snap acting mechanism. 2,798,915, 7-9-57, Cl. 200-69.
- Watson, James P. Gyroscope. 2,815,668, 12-10-57, Cl. 74-5.1.
- Watson, James S., to Olin Mathieson Chemical Corp. Production of tetraalkylhydrazines. 2,818,379, 12-31-57, Cl. 204-158.
- Watson, Jesse R. Gyro combining limited freedom and angular rate sensitivity. 2,815,584, 12-10-57, Cl. 33-204.
- Watson, John A., to The British Thomson-Houston Co. Ltd. Electric circuit controllers. 2,785,241, 3-12-57, Cl. 200-16.
- Watson, Lester K. Weight assembly and locking clutch collar. 2,796,269, 6-18-57, Cl. 287-52.09.
- Watson, Lloyd M., and G. H. Slattery, to National Distillers and Chemical Corp. Process for the preparation of alkali metal derivatives of conjugated diolefins and vinyl aromatic compounds. 2,816,935, 12-17-57, Cl. 260-665.
- Watson, Louis A., to Viking Pump Co. Pump. 2,816,513, 12-17-57, Cl. 103-126.
- Watson, Marie L.: *See*—
Watson, Hugh G. 2,806,709.
- Watson, Michael L., to the United States of America as represented by the Secretary of the Navy. Microwave antenna. 2,814,039, 11-19-57, Cl. 343-844.
- Watson, Millard O., to Cardwell Westinghouse Co. Cushioning device for railroad cars. 2,789,810, 4-23-57, Cl. 267-9.
- Watson, Orla E. Nesting hand truck. 2,818,267, 12-31-57, Cl. 280-33.99.
- Watson, Richard: *See*—
Gardner, Henry A., and Watson. 2,786,821.
- Watson, Richard A. Combined acceleration and deceleration control. 2,781,116, 2-12-57, Cl. 192-3.
- Watson, Roger W.: *See*—
Fields, Ellis K., and Watson. 2,802,771.
- Watson, W. & Sons Ltd.: *See*—
Hopkins, Harold H. 2,782,684.
- Watson, Wallace B., to General Electric Co. Electronic cursor. 2,797,411, 6-25-57, Cl. 343-11.
- Watson, William E.: *See*—
Hayworth, Curtis B., and Watson. 2,813,006.
- Watt, James, to Modglin Co., Inc. Combined mop and wringer. 2,794,998, 6-11-57, Cl. 15-119.
- Watter, Michael, to The Budd Co. Apparatus for transferring articles from one machine to another. 2,815,866, 12-10-57, Cl. 214-1.
- Watter, Michael, to The Budd Co. Article transfer or handler means, especially for feeding sheets. 2,815,948, 12-10-57, Cl. 271-14.
- Wattier, Francis E. Printing plate construction. 2,811,444, 10-29-57, Cl. 96-37.
- Watts, Bernard N., to General Electric Co. Cathode and method of manufacture. 2,813,995, 11-19-57, Cl. 313-346.
- Watts, Bernard N., and J. R. Howells, to The British Thomson-Houston Co. Ltd. Apparatus for the detection of infrared radiation. 2,794,926, 6-4-57, Cl. 250-83.3.
- Watts Electric & Mfg. Co.: *See*—
Longnecker, Harry F. 2,801,397.
- Watts, Gilbert E., to Resilla Cots and Rollers Ltd. Fibre drafting cots, aprons and the like. 2,816,326, 12-17-57, Cl. 19-143.
- Watts, Gilbert E., S. B. Hainsworth, and H. J. Perry, to J. H. Fenner & Co., Ltd. Production of power transmission and conveyor belting. 2,800,701, 7-30-57, Cl. 28-80.
- Watts, Howard W. Spring urged clamping bench stop. 2,786,501, 3-26-57, Cl. 144-307.
- Watts, Robert A., Jr.: *See*—
Schulz, Wallace W., Watts, and Moore. 2,796,424.
- Watts, Willard J.: *See*—
Ricketts, Louis F., Kuhlmeier, and Watts. 2,792,056.
- Watts, William S., to Aircraft-Marine Products, Inc. Electrical connector. 2,783,447, 2-26-57, Cl. 339-276.
- Watts, Willie H.: *See*—
Stambauch, Robert P., and Watts. 2,782,806.
- Watts, Willie H., and R. P. Stambauch, to Union Carbide Corp. Reinforced carbonaceous pipe and method of making same. 2,807,282, 9-24-57, Cl. 138-76.
- Waugh, Dale L.: *See*—
Kenney, Harry W., Waugh, and Capstick. 2,783,818.
- Waugh, Dale L., to The Dayton Rubber Co. Method of manufacturing belts. 2,796,911, 6-25-57, Cl. 154-4.
- Waugh, Dale L., to The Dayton Rubber Co. Flexible conveyor and power transmission belt. 2,802,511, 8-13-57, Cl. 154-4.
- Waugh Equipment Co.: *See*—
Pelikan, George A. 2,815,865.
- Waukesha Motor Co.: *See*—
Armstrong, James K., Erickson, and Willis. 2,799,782.
Erickson, Melvin E., Kern, and Willis. 2,809,812.
- Way, Peter J.: *See*—
McLean, Donald H., and Way. 2,810,694.
- Way, Thomas H., and D. G. McLeod, to United States Rubber Co. Suction press roll. 2,793,571, 5-28-57, Cl. 92-53.
- Waychoff, Everett H., to United States Steel Corp. Horizontal looper for strip-processing line. 2,808,258, 10-1-57, Cl. 271-2.2.
- Wayman, Morris: *See*—
Charles, Frank R., and Wayman. 2,792,313.
Seymour, George W., Wayman, and Holkestad. 2,789,902.
- Waymouth, John F.: *See*—
Peek, Sandford C., Jr., and Waymouth. 2,776,391.
- Wayne, Charles R.: *See*—
Geyer, Bernard H., and Wayne. 2,808,204.
- Wayne Mfg. Co.: *See*—
Ballard, Louis M. 2,782,439.
Ballard, Louis M. 2,783,095.
Newport, John L. 2,784,440.
- Wayne Pump Co., The: *See*—
Hearn, Robert T. 2,807,290.
Kuhn, George. 2,778,471.
- Wean Engineering Co., Inc., The: *See*—
Donald, William P. 2,816,762.
McArthur, Donald A., and Geiszler. 2,797,918.
- Weapons, Inc.: *See*—
Marsh, Roger. 2,801,485.
- Weasler, Anthony V. Phase-controlled, telescopically extensible shaft for connecting two universal joints. 2,810,274, 10-22-57, Cl. 64-1.
- Weatherford, William D., Jr.: *See*—
Capell, Robert G., Karr, and Weatherford. 2,776,250.
Capell, Robert G., Karr, and Weatherford. 2,779,718.
- Weatherhead, Albert J., Jr., to The Weatherhead Co. Method of fabricating hose coupling members. 2,808,643, 10-8-57, Cl. 29-508.
- Weatherhead Co., The: *See*—
Courtot, Louis B. 2,813,730.
Courtot, Louis B. 2,813,945.
St. Clair, Theodore A. 2,798,507.
St. Clair, Theodore A. 2,807,144.
St. Clair, Theodore A., and Garretson. 2,778,720.
Weatherhead, Albert J., Jr. 2,808,643.
- Weatherill, William T., to American Machine & Foundry Co. Decomposition chamber for monopropellant fuel. 2,801,322, 7-30-57, Cl. 219-39.
- Weatherly, Earl R., to Sun Oil Co. Contacting apparatus. 2,802,573, 8-13-57, Cl. 210-289.
- Weatherproof Products Corp., The: *See*—
Hettinger, Daniel M. 2,775,795.
Hettinger, Daniel M. 2,786,230.
- Weathers, Paul: *See*—
Demuth, Galan W., and Weathers. 2,806,401.
- Weather Shields Ltd.: *See*—
Perks, Joseph, and Bishop. 2,810,334.
- Weaver, Clay: *See*—
Mochel, Walter E., and Weaver. 2,818,403.
- Weaver, Clay, to E. I. du Pont de Nemours and Co. Process for preparing yellow colloidal silver. 2,806,798, 9-17-57, Cl. 106-1.
- Weaver, Earl M.: *See*—
Hawthorne, Herbert J., and Weaver. 2,783,973.
- Weaver, Fred W. Humidifier and dust collector for industrial purposes. 2,816,621, 12-17-57, Cl. 183-24.
- Weaver, Fred W. Humidifier and dust collector for internal combustion engines. 2,816,622, 12-17-57, Cl. 183-25.
- Weaver, Harrison, Jr., to Brillion Iron Works. Rotary hoe. 2,812,701, 11-12-57, Cl. 97-212.
- Weaver, Howard: *See*—
Holland, Edward J., Norton, and Weaver. 2,803,038.
- Weaver, James L., and J. J. Polkosky, to Radio Corp. of America. Phototubes. 2,794,140, 5-28-57, Cl. 313-102.
- Weaver, Jeremiah W., to the United States of America as represented by the Secretary of Agriculture. Process of preparing triallyl phosphate-polyhalomethane polymers and process of flameproofing textile therewith. 2,778,747, 1-22-57, Cl. 117-136.
- Weaver, John A. A. Switch. 2,816,182, 12-10-57, Cl. 200-11.
- Weaver, John J. L.: *See*—
Smart, David L., and Weaver. 2,818,533.
- Weaver, Mark L. and W., to Weavers' Electric Brand. Branding implements. 2,777,933, 1-15-57, Cl. 219-30.
- Weaver, Miles A.: *See*—
Greminger, George K., Jr., and Weaver. 2,805,952.
Greminger, George K., Jr., and Weaver. 2,810,659.
- Weaver, Miles A., and G. K. Greminger, Jr., to The Dow Chemical Co. Cold mix cake icing. 2,785,982, 3-19-57, Cl. 99-139.
- Weaver, Miles A., K. D. Bacon, and G. K. Greminger, Jr., to The Dow Chemical Co. Friedcake mix containing water-soluble cellulose ethers. 2,802,740, 8-13-57, Cl. 99-94.
- Weaver, Miles A., and G. K. Greminger, Jr., to The Dow Chemical Co. Cake mixes containing water-soluble cellulose ethers. 2,802,741, 8-13-57, Cl. 99-94.
- Weaver, Stuart M., to Loomis Machine Co. Outboard bearing. 2,814,207, 11-26-57, Cl. 74-216.5.
- Weaver, Thomas L.: *See*—
Gaffney, William N., and Weaver. 2,783,997.

- Weaver, William R. : *See*—
Breese, John M., and Weaver. 2,789,590.
- Weaver, William R. Telescope sight mount. 2,803,880, 8-27-57, Cl. 33—50.
- Weaver, William R. Telescope sight mount for firearms. 2,803,907, 8-27-57, Cl. 42—1.
- Weaver, Wright : *See*—
Weaver, Mark L. and W. 2,777,933.
- Weavers' Electric Brand : *See*—
Weaver, Mark L. and W. 2,777,933.
- Weaving Research & Textile Commission Agents Ltd. : *See*—
Shimwell, Derrick W. 2,795,244.
Shimwell, Derrick W. 2,816,576.
Shimwell, Derrick W. 2,816,577.
- Web Controls Corp. : *See*—
Frankel, Sydney. 2,796,222.
- Weba, Inc. : *See*—
Weber, Emmerich. 2,804,319.
- Webb, Basil T. Prefabricated enclosure. 2,787,028, 4-2-57, Cl. 20—2.
- Webb, Cecil E., to M. S. Bowne, trustee. Mechanism for finishing the ends of clay pipes. 2,784,232, 6-4-57, Cl. 25—109.
- Webb, Cecil E., to M. S. Bowne, trustee. Clay pipe cutting mechanism. 2,789,334, 4-23-57, Cl. 25—39.
- Webb, Cecil E., to M. S. Bowne, trustee. Tubular drill for perforating clay pipes. 2,805,461, 9-10-57, Cl. 25—105.
- Webb, Charles C. : *See*—
Leek, Wayne E., Morse, and Webb. 2,782,688.
- Webb, Daniel I. Work table with selective rotating tools. 2,785,711, 3-19-57, Cl. 144—1.
- Webb, Derrel D., to Houston Engineers, Inc. Gas operated well seal. 2,807,325, 9-24-57, Cl. 166—63.
- Webb, Edmond F. Fuel filter. 2,788,125, 4-9-57, Cl. 210—172.
- Webb, Ernest C. : *See*—
Runniger, Frederick L., Webb, and Wright. 2,804,916.
- Webb, Floyd L., and R. A. Conrad. Egg filling process and the resulting product. 2,800,409, 7-23-57, Cl. 99—138.
- Webb, George C., to Arthur H. Thomas Co. Rotor containing comminuting mill with floating check plates between rotor ends and mill casing. 2,816,716, 12-17-57, Cl. 241—73.
- Webb, George L., to Essex Wire Corp. Directional signal mounting plate assembly. 2,812,395, 11-5-57, Cl. 200—61.34.
- Webb, Guy, Jr., and D. F. Romer. Gun charger. 2,790,351, 4-30-57, Cl. 89—1.
- Webb, Helen E. Toe spacing scuffs or sandals. 2,808,662, 10-8-57, Cl. 36—11.5.
- Webb, Irving D., to Union Oil Co. of California. Sulfoxide containing detergent compositions. 2,787,595, 4-2-57, Cl. 252—138.
- Webb, J. A., Belting Co., Inc. : *See*—
Strickler, Robert R. 2,801,730.
- Webb, James C. Measuring tape level indicating device. 2,807,887, 10-1-57, Cl. 33—207.
- Webb, Jervis B., Co. : *See*—
Da Roza, Frank G., Brennan, and Schenk. 2,794,536.
McCaull, Edward W., and Jessop. 2,803,198.
Schenk, Adelbert J. 2,794,538.
- Webb, John S. : *See*—
Waller, Coy W., Weiss, and Webb. 2,785,181.
Waller, Coy W., Weiss, and Webb. 2,785,182.
Waller, Coy W., Weiss and Webb. 2,785,183.
- Webb, John S., and H. G. Arlt, Jr., to American Cyanamid Co. Process of producing pyrazinamide. 2,780,624, 2-5-57, Cl. 260—250.
- Webb, John S., C. W. Waller, and M. J. Weiss, to American Cyanamid Co. Alkylpyrrole carboxylic acids and derivatives thereof. 2,797,228, 6-25-57, Cl. 260—326.3.
- Webb, Joseph H. Anti-slipping device for the feet. 2,813,356, 11-19-57, Cl. 36—7.6.
- Webb, Richard H. : *See*—
Vogele, Clyde E., Jr., and Webb. 2,780,783.
- Webb, Richard L. : *See*—
Frazza, Everett J., and Webb. 2,791,610.
- Webb, Robert J., and J. E. Warhurst, to Aerostyle Ltd. Powder spray device. 2,818,200, 12-31-57, Cl. 222—194.
- Webb, Wesley L., and R. C. Messmer, to American Viscose Corp. Testing instrument. 2,790,244, 4-30-57, Cl. 33—147.
- Webb, Wyllie, Co. : *See*—
Watson, Hugh G. 2,806,709.
- Webber, Stanley E., to General Electric Co. Magnetron and systems therefor. 2,799,828, 7-16-57, Cl. 332—5.
- Webber, William O. : *See*—
Hall, Ike D., and Webber. 2,794,711.
- Webber, William O., to Esso Research and Engineering Co. Solvent desphalting of residual oils with wash oil to remove metal contaminants. 2,793,167, 5-21-57, Cl. 196—14.46.
- Webbere, Fred J. : *See*—
Thomson, Robert F., and Webbere. 2,809,407.
- Webcor, Inc. : *See*—
Brown, William. 2,795,961.
Dale, Colin B. 2,801,811.
Dale, Colin B. 2,818,263.
- Weber, A. C. & Co., Inc. : *See*—
Van Ord, Jay H. 2,789,875.
- Weber, Alexander, to H. Beer, and Firm Awepa. Supporting and drawing device for curtains and the like. 2,786,522, 3-26-57, Cl. 160—345.
- Weber, Anton, to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. Electrodes for electron discharge tubes. 2,817,572, 12-24-57, Cl. 316—6.
- Weber, Arno : *See*—
Möhrling, Gustav, and Weber. 2,799,913.
- Weber, Bertha, and D. Neola. Manicuring apparatus. 2,816,556, 12-17-57, Cl. 132—75.
- Weber, Bonnie M. Snap fastener ornament cap assembly. 2,799,910, 7-23-57, Cl. 24—216.
- Weber, Charles W., to Beclawat (Canada) Ltd. Wiper mechanisms. 2,802,231, 8-13-57, Cl. 15—250.5.
- Weber, Charles W., and W. S. Barnhart, to Minnesota Mining and Mfg. Co. Preparation of perhalocloacetyl peroxides. 2,816,147, 12-10-57, Cl. 260—610.
- Weber, Edmund H., ½ to B. K. Olsson. Radio transmitting and receiving signal system. 2,783,369, 2-26-57, Cl. 246—30.
- Weber, Edward H., Jr., to Bell Telephone Laboratories, Inc. Amplifier with high frequency compensation. 2,802,069, 8-6-57, Cl. 179—171.
- Weber, Emmerich, to Weba, Inc. Lugged conduit coupling device with latch sleeve manipulator. 2,804,319, 8-27-57, Cl. 285—316.
- Weber, Ford. Sharpener attachment. 2,788,622, 4-16-57, Cl. 51—241.
- Weber, Frank A. Camera for taking stereoscopic images without abnormal stereoscopic effect. 2,792,745, 5-21-57, Cl. 88—16.6.
- Weber, H. G., and Co., Inc. : *See*—
Falz, Friedrich K. 2,815,782.
Jacobsen, Paul W. 2,787,467.
- Weber, Herbert H., and Jacobsen. 2,815,210.
- Weber, Harold, to Celanese Corp. of America. Extruder. 2,791,802, 5-14-57, Cl. 18—8.
- Weber, Harold, and S. A. Petersen, to Celanese Corp. of America. Packaging of tow. 2,798,348, 7-9-57, Cl. 53—124.
- Weber, Harold C., to Universal Oil Products Co. Fluid contacting process and apparatus. 2,813,011, 11-12-57, Cl. 23—270.5.
- Weber, Harry M., to The Sherwin-Williams Co. Flexible core for paint roller and paint roller including same. 2,815,563, 12-10-57, Cl. 29—116.
- Weber, Harry W., Jr. : *See*—
Johnson, Ronald E., and Weber. 2,807,467.
- Weber, Herbert : *See*—
Willwacher, Erwin, and Weber. 2,806,951.
- Weber, Herbert H., and P. W. Jacobsen, to H. G. Weber & Co., Inc. Apparatus for stacking bags and the like. 2,815,210, 12-3-57, Cl. 271—89.
- Weber, Ira, to Interchemical Corp. Elimination of haze from finishes. 2,778,741, 1-22-57, Cl. 106—193.
- Weber, Ira, to Interchemical Corporation. Method of finishing wood. 2,802,712, 8-13-57, Cl. 8—6.5.
- Weber, Ira, and J. H. Basto, to Interchemical Corp. Spherical pigments and method of preparing same. 2,776,267, 1-1-57, Cl. 260—21.
- Weber, Israel, and L. Berger, to the United States of America as represented by the Secretary of the Army. Apparatus for testing the flexibility of materials. 2,777,322, 1-15-57, Cl. 73—100.
- Weber, Johannes : *See*—
Helmschrott, Hans, Hurst, and Weber. 2,798,469.
- Weber, John, Jr. Manually actuated fountain soldering iron. 2,797,293, 6-25-57, Cl. 219—27.
- Weber, Joseph : *See*—
Surmatis, Joseph D., and Weber. 2,783,257.
Surmatis, Joseph D., and Weber. 2,806,882.
Surmatis, Joseph D., and Weber. 2,809,215.
- Weber, Karl F., to Weber Showcase & Fixture Co., Inc. Wall case standard. 2,783,961, 3-5-57, Cl. 248—243.
- Weber, Kenneth R. : *See*—
Buhr, August G., and Weber. 2,812,118.
- Weber-Knap Co. : *See*—
Lundell, Kermit A. 2,812,539.
- Weber, Laurance A., to Bell Telephone Laboratories, Inc. Carrier ringing circuit. 2,808,464, 10-1-57, Cl. 179—87.
- Weber, Leo L., to Essex Wire Corp. Temperature responsive control circuit. 2,779,852, 1-29-57, Cl. 219—20.
- Weber, Oscar : *See*—
Riat, Henri, and Weber. 2,816,102.
- Weber, Raymond C. : *See*—
Eipper, Daniel C., and Weber. 2,775,821.
- Weber, Richard E., and P. A. Panfile, to Weston Electrical Instrument Corp. Apparatus responsive to changes in frequency. 2,818,541, 12-31-57, Cl. 318—318.
- Weber, Rudi, to Jagenberg-Werke Akt.-Ges. Cross cutting machines of the rotary cutter drum type. 2,778,422, 1-22-57, Cl. 164—61.
- Weber Showcase & Fixture Co., Inc. : *See*—
Weber, Karl F. 2,783,961.
- Weber, Theodore, Jr., to Simmonds Aerocessories, Inc. Measuring condenser for liquid quantity gauges. 2,802,975, 8-13-57, Cl. 317—246.
- Weber, Victor, H. J. Tyler, and W. J. Russell, to Robertshaw-Fulton Controls Co. Thermostatic control for surface heaters. 2,786,930, 3-26-57, Cl. 219—37.

- Weber, Victor, and R. F. Garner, to Robertshaw-Fulton Controls Co. Control and indicating system for fluid fuel burners. 2,800,283, 7-23-57, Cl. 236-94.
- Weber, Victor, and R. F. Garner, to Robertshaw-Fulton Controls Co. Control and indicating device for fluid fuel burners. 2,800,284, 7-23-57, Cl. 236-94.
- Weber, Vitezslav, to Aero Zipp Fasteners Ltd. Sliders for sliding clasp fasteners. 2,799,070, 7-16-57, Cl. 24-205.14.
- Weber, Walter O. Refuse truck with load packing means. 2,793,769, 5-28-57, Cl. 214-82.
- Weber, William C., and D. B. Hoffman. Aileron load transducer. 2,795,134, 6-11-57, Cl. 73-141.
- Weber, William F., and O. Hedstrom, to Armour and Co. Article washing apparatus. 2,811,163, 10-29-57, Cl. 134-70.
- Webley, Reginald S., to Electric & Musical Industries Ltd. Electronic storage tubes. 2,787,724, 4-2-57, Cl. 315-12.
- Webre, Jean M. Paraffin scraper. 2,797,757, 7-2-57, Cl. 166-176.
- Webster, Alexander H., to R. W. Webster and Co. Ltd. Sterilising machines and the like. 2,818,012, 12-31-57, Cl. 99-362.
- Webster, Benjamin C., to Harvey Hubbell, Inc. Top wired electrical cap and connector. 2,815,495, 12-3-57, Cl. 339-174.
- Webster, Benjamin C., and H. Hubbell, to Harvey Hubbell, Inc. Top wired electrical cap and connector. 2,810,116, 10-15-57, Cl. 339-103.
- Webster, Carl M., and R. F. Snyder, to The Goodyear Tire & Rubber Co. Web positioning device. 2,782,030, 2-19-57, Cl. 271-26.
- Webster, Charles W.: *See*—
Osborne, Alec V., and Webster. 2,811,339.
- Webster-Chicago Corp.: *See*—
Dale, Colin B. 2,795,428.
- Webster, Daniel F., Jr.: *See*—
Symes, John J., and Webster. 2,791,380.
- Webster, Donald S., to the United States of America as represented by the United States Atomic Energy Commission. Removal of material from processing tanks. 2,793,753, 5-28-57, Cl. 210-153.
- Webster Electric Co.: *See*—
Campbell, Richard H. 2,783,308.
Jensen, Clarence F. 2,780,680.
Munroe, David J. 2,779,347.
Munroe, David J. 2,783,951.
Munroe, David J. 2,794,398.
- Webster, George J., and J. S. Martinez, to Phillips Petroleum Co. Apparatus for removing scale from pellet mills. 2,812,541, 11-12-57, Cl. 18-1.
- Webster, Harold F.: *See*—
Pound, Robert V., and Webster. 2,791,691.
- Webster, Harold F., to General Electric Co. Apparatus for producing a hollow electron beam. 2,803,772, 8-20-57, Cl. 313-157.
- Webster, Hugh G., to Kolene Corp. Electrolytic ferrous metal cleaning. 2,801,215, Cl. 204-145.
- Webster, Hugh G. Salt spool holders. 2,801,609, 8-6-57, Cl. 119-51.
- Webster, Isaac E. Dispensing device. 2,816,549, 12-17-57, Cl. 123-266.
- Webster, James G., deceased (G. P. Clay and H. C. R. Pearson, executors), and L. Aldred, to Imperial Chemical Industries Ltd. Tablet counting and batching machines. 2,781,947, 2-19-57, Cl. 221-296.
- Webster, John L.: *See*—
Revell, Donald H., and Webster. 2,797,448.
Revell, Donald H., and Webster. 2,797,449.
- Webster, John V., and B. T. Aasland, to Sears, Roebuck & Co. Adjustable wheeled support and hitch for disk harrows. 2,797,542, 7-2-57, Cl. 55-73.
- Webster, Joseph H. Maximum speed indicating devices. 2,778,707, 1-22-57, Cl. 346-18.
- Webster, Maxine: *See*—
Crawley, Glen W. 2,814,445.
- Webster, Milo E., to Otto Bernz Co., Inc. Portable apparatus utilizing pressurized gas fuel. 2,793,504, 5-28-57, Cl. 62-1.
- Webster, R. W., and Co. Ltd.: *See*—
Webster, Alexander H. 2,818,012.
- Webster, Robert: *See*—
Kagley, William H., Wylie, and Webster. 2,805,951.
- Webster, Warren, & Co.: *See*—
Morgan, David E., and Tolan. 2,790,606.
- Webster, Wendell H.: *See*—
Kline, Arthur E., and Webster. 2,806,361.
- Webster, William, and D. C. Quin, to Hercules Powder Co. Manufacture of beta-naphthol. 2,776,322, 1-1-57, Cl. 260-621.
- Webster, William, and D. P. Young, to Hercules Powder Co. 1,1,3-trimethylindane-3-hydroperoxide. 2,807,650, 9-24-57, Cl. 260-610.
- Webster, William, and B. H. M. Thompson, to Hercules Powder Co. Removal of hydroperoxides carbinols from aromatic hydroperoxides. 2,812,357, 11-5-57, Cl. 260-610.
- Webster, William M., Jr.: *See*—
Johnson, Edward O., and Webster. 2,782,320.
Malter, Louis, Johnson, and Webster. 2,792,527.
- Webster, William M., Jr., to Radio Corp. of America. Method and structure for gas tube modulation. 2,793,313, 5-21-57, Cl. 313-189.
- Weck, Herman I.: *See*—
Seelig, Herman S., and Weck. 2,815,357.
- Weck, Herman I., to Standard Oil Co. Aromatic synthesis from CO and H₂. 2,791,583, 5-7-57, Cl. 260-449.
- Weckel, Kenneth G., and J. D. Hume. Cranberry puncturing machine. 2,783,803, 3-5-57, Cl. 146-56.
- Weden, Edward L., Jr., to Republic Steel Corp. Apparatus for handling skelp in a continuous butt-weld furnace. 2,813,706, 11-19-57, Cl. 263-3.
- Wedgeworth, George C. Ground clearing tractor attachment. 2,808,665, 10-8-57, Cl. 37-2.
- Wedin, Ivar T. American gage standard design thread ring. 2,793,443, 5-28-57, Cl. 33-199.
- Wedlick, Frank V., and F. A. Tyrone, to Killam Gas Burner Co. Gas burners. 2,818,112, 12-31-57, Cl. 158-116.
- Wedner, Benjamin M.: *See*—
Eckler, Norman H., Jacobson, and Wedner. 2,779,485.
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Jacobson, Eugene W., and Wedner. 2,800,972.
- Weedman, John A.: *See*—
Hawkins, Harold M., and Weedman. 2,809,222.
- Weedman, John A., to Phillips Petroleum Co. Crystal purification process. 2,813,099, 11-12-57, Cl. 260-290.
- Weedman, John A., and R. A. Findlay, to Phillips Petroleum Co. Separation apparatus. 2,816,821, 12-17-57, Cl. 23-273.
- Weedman, Mearl M. Pole carrying, handling and setting. 2,792,947, 5-21-57, Cl. 214-3.
- Weekly, Willis B. Back and head rest. 2,813,577, 11-19-57, Cl. 155-182.
- Weeks, Clarence L., to Ethyl Corp. Safety storage system. 2,786,598, 3-26-57, Cl. 220-89.
- Weeks, J. A.: *See*—
Swenson, Paul F. 2,815,175.
- Weeks, Kenneth W., to The Walton Co. Broken tap extractor. 2,781,683, 2-19-57, Cl. 81-90.
- Weeks, Lloyd E., to Monsanto Chemical Co. Erosion control. 2,802,303, 8-13-57, Cl. 47-9.
- Weeks, Robert L.: *See*—
Holder, Clinton H., Weeks, and Knox. 2,779,317.
- Weeks, Robert L., to Esso Research and Engineering Co. Method of deoiling wax while supplying supplemental agitation produced by bubbling vaporized solvent through the wax while cooling. 2,809,152, 10-8-57, Cl. 196-18.
- Weeks, Walter K., to General Electric Co. Adjustable slot toaster. 2,788,734, 4-16-57, Cl. 99-390.
- Weeks, Walter R., to General Electric Co. Pressure cooking apparatus. 2,812,414, 11-5-57, Cl. 219-20.
- Weeks, Walter R., to General Electric Co. Thermostatic control system. 2,816,203, 12-10-57, Cl. 219-20.
- Weeks, William L. Mechanical insect killing device. 2,776,520, 1-8-57, Cl. 43-135.
- Weema, Constant J. Manufacture of separator for dialyzing apparatus. 2,778,096, 1-22-57, Cl. 29-163.5.
- Weempe, Sam O., to Master Tank and Welding. Transport tank truck. 2,784,747, 3-12-57, Cl. 141-21.
- Weems, Charles H. Spoon provided with means for discharge of material. 2,794,335, 6-4-57, Cl. 65-12.
- Weenerbo, Erik, to Industriaktiebolaget Luxor. Phonographs. 2,814,494, 11-26-57, Cl. 274-9.
- Weesner, Carl W.: *See*—
Leffingwell, Wallace B., and Weesner. 2,808,353.
- Weesner, William E., to Monsanto Chemical Co. Production of hydroperoxides using certain beta diketones as oxidation initiators. 2,792,424, 5-14-57, Cl. 260-610.
- Weesner, William E., to Monsanto Chemical Co. Production of hydroperoxides using malonic esters as oxidation initiators. 2,792,425, 5-14-57, Cl. 260-610.
- Weesner, William E., to Monsanto Chemical Co. Production of hydroperoxides using α -aryl ketones as oxidation initiators. 2,792,426, 5-14-57, Cl. 260-610.
- Weglarz, John J., to International Harvester Co. Shell mold sprue construction. 2,808,629, 10-8-57, Cl. 22-134.
- Wegler, Richard: *See*—
Freytag, Helmut, Lober, Wegler, and Peter. 2,815,336.
- Wegler, Richard, F. Grewe, and E. Regel, to Farbenfabriken Bayer Aktiengesellschaft. Fungicidal compositions of N-arylhydroxyarylmethylamines. 2,784,138, 3-5-57, Cl. 167-31.
- Wegler, Richard, F. Grewe, and K. Mehlhose, to Farbenfabriken Bayer Aktiengesellschaft. Sulfonic acid derivatives. 2,816,111, 12-10-57, Cl. 260-293.4.
- Weglin, Walter. Method of decorating candles. 2,817,225, 12-24-57, Cl. 67-22.5.
- Wegman, Edwin H.: *See*—
Group, Seymour, and Wegman. 2,814,924.
- Wegman, Ernest C., and P. H. Wilson, to General Electric Co. Gyro setting arrangement. 2,814,955, 12-3-57, Cl. 74-5.6.
- Wegman, S. J., Co., The: *See*—
Group, Seymour, and Wegman. 2,814,924.
- Wegmann, Emil: *See*—
Schlatter, Hans A., and Wegmann. 2,781,026.
Schlatter, Hans A., and Wegmann. 2,787,698.
- Wegmann, Jacques: *See*—
Gross, Jean, Menzi, and Wegmann. 2,785,040.
- Wehe, James M.: *See*—
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- Wehn, Julius, and W. Busch. Dust collecting apparatus. 2,805,900, 9-10-57, Cl. 302-64.
- Wehrenfenning, Hugo: *See*—
Leitz, Ludwig, and Wehrenfenning. 2,805,608.

- Wehrfritz, Robert L. Toy gun construction. 2,817,329, 12-24-57, Cl. 124-27.
- Wehrle, Thomas O.: See—
- Wilson, William A., and Wehrle. 2,788,310.
- Wehrli, Walter: See—
- Grandjean, Philippe, Kappeler, Schneider, Steinemann, and Wehrli. 2,817,654.
- Iselin, Ernst, and Wehrli. 2,813,854.
- Kehrer, Fritz, and Wehrli. 2,815,337.
- Neier, Reinhard, Petitjean, and Wehrli. 2,779,758.
- Ruckstuhl, Hans, and Wehrli. 2,779,753.
- Ruckstuhl, Hans, and Wehrli. 2,779,757.
- Steinemann, Willy, and Wehrli. 2,813,856.
- Wehrmann, Ralph F.: See—
- Xntema, Leonard F., and Wehrmann. 2,804,406.
- Wehrmeister, Herbert L., to Commercial Solvents Corp. Preparation of calcium DL-pantothenate. 2,780,645, 2-5-57, Cl. 260-534.
- Wehrung, Woodrow W. Form for casting tanks. 2,777,185, 1-15-57, Cl. 25-124.
- Weibel, Erich S., to Bell Telephone Laboratories, Inc. Electronic analogue multiplier. 2,805,021, 9-3-57, Cl. 235-61.
- Weibel, Erich S., to Bell Telephone Laboratories, Inc. Synthesis of complex waves. 2,817,707, 12-24-57, Cl. 179-1.
- Weibel, John, Jr., to General Motors Corp. Refrigerating apparatus. 2,816,636, 12-17-57, Cl. 192-35.
- Weichert, Joseph. Level attachment for a portable electric drill. 2,806,296, 9-17-57, Cl. 33-207.
- Weickmann, August: See—
- Basedach, Heinrich, Seefelder, Spaenig, and Weickmann. 2,808,437.
- Weide, Rudolph C., to General Motors Corp. Controller. 2,784,265, 3-5-57, Cl. 200-5.
- Weiden, Richard A.: See—
- Olsen, Herbert C., and Weidener. 2,808,380.
- Weidenhamer, Clarence W. Dental educational device. 2,812,578, 11-12-57, Cl. 32-71.
- Weidenhammer, James A.: See—
- Buslik, Walter S., and Weidenhammer. 2,781,984.
- Weidenhammer, James A., to International Business Machines Corp. Device for converting and reinscribing magnetically recorded data. 2,807,005, 9-17-57, Cl. 340-174.
- Weidenhammer, James A., and W. S. Buslik, to International Business Machines Corp. Tape feed mechanism. 2,792,217, 5-14-57, Cl. 271-23.
- Weidenheimer, Joseph F.: See—
- Carstensen, Jens T., Knight, Valentine, and Weidenheimer. 2,789,920.
- Hansen, Lloyd F., and Weidenheimer. 2,799,592.
- Joyner, Austin, and Weidenheimer. 2,807,568.
- Valentine, William, and Weidenheimer. 2,813,123.
- Weidenheimer, Joseph F., L. Ritter, and F. J. Richter, to American Cyanamid Co. Process of phthaloylation amino acids. 2,783,245, 2-26-57, Cl. 260-326.
- Weidman, Verne W., to E. I. du Pont de Nemours and Co. Modified polytetrafluoroethylene compositions and products related thereto. 2,782,180, 2-19-57, Cl. 260-41.
- Weidmann, Ernst: See—
- Farny, Paul, and Weidmann. 2,799,259.
- Weidner, Charles L.: See—
- McGarry, James A., Weidner, and Bergstedt. 2,790,732.
- Weidner, Ralph J., to Allen Electric & Equipment Co. Cam angle indicating circuit. 2,807,778, 9-24-57, Cl. 324-28.
- Weidner, Ralph J., to Allen Electric & Equipment Co. Means for checking ignition timing of an internal combustion engine. 2,817,058, 12-17-57, Cl. 324-16.
- Weidner, William C.: See—
- Thompson, Ivan P., Allmang, and Weidner. 2,812,274.
- Weien, Paul: See—
- Garfunkel, Louis X. 2,817,200.
- Weig, Morris O. Portable inflatable traffic diverting device. 2,808,803, 10-8-57, Cl. 116-63.
- Weigel, Albert C., and H. G. Meissner, to Combustion Engineering, Inc. Apparatus for feeding bagasse. 2,796,198, 6-18-57, Cl. 222-80.
- Weigel, Alois. Box pull spring hitch. 2,797,082, 6-25-57, Cl. 267-73.
- Weigel, Edward M., to Eastman Kodak Co. Film lacquer. 2,798,004, 7-2-57, Cl. 117-2.
- Weigel, Raymond A., to Rysor Heater Co. Air conditioning apparatus. 2,799,143, 7-16-57, Cl. 62-3.
- Weigham, William R.: See—
- Smith, John O., and Weigham. 2,805,924.
- Weigham, William R., to Courtaulds Ltd. Manufacture of viscose. 2,787,615, 4-2-57, Cl. 260-218.
- Weih, Julius, to Ideal Toy Corp. Articulating mechanism for doll limbs. 2,788,611, 4-16-57, Cl. 46-173.
- Weihe, Adolf, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process of modifying carbon black. 2,793,100, 5-21-57, Cl. 23-209.1.
- Weihe, Adolf, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for refining of carbon blacks. 2,793,101, 5-21-57, Cl. 23-209.9.
- Weihe, Vernon L., to Westinghouse Air Brake Co. Navigational system. 2,804,615, 8-27-57, Cl. 343-106.
- Weihl, Rudolph O. Device to control smoke. 2,805,651, 9-10-57, Cl. 122-379.
- Weihsmann, Peter R. Motor vehicle with variable ground clearance suspension sensitive to speed. 2,818,273, 12-31-57, Cl. 280-124.
- Weijer, Berend, J. Draijer, and L. C. Ball, to North American Phillips Co., Inc. Resilient contacts for use in weak-current apparatus. 2,802,923, 8-13-57, Cl. 200-166.
- Weikert, Roy J., to General Films, Inc. Method of packaging. 2,783,599, 3-5-57, Cl. 53-30.
- Weil, Edward. Sponge rubber dish washer. 2,789,305, 4-23-57, Cl. 15-244.
- Weil, Edward. Sponge with nestable handle. 2,816,315, 12-17-57, Cl. 15-244.
- Weil, Frederick M., M. L. Ingalsbe, R. E. Stein, and J. G. McCann, to Giffillan Bros., Inc. Radar reflector for circularly polarized radiation. 2,786,198, 3-19-57, Cl. 343-18.
- Weil, Frederick M., R. E. Stein, and J. G. McCann, to Giffillan Bros., Inc. Circularly polarizing antenna assembly. 2,800,657, 7-23-57, Cl. 343-756.
- Weil, Hilde F.: See—
- Fields, Ernest. 2,794,296.
- Weil, James K., R. G. Bistline, Jr., and A. J. Stirton, to the United States of America as represented by the Secretary of Agriculture. Esters of hydroxyalkanesulfonates with alpha-sulfonated long-chain fatty acids. 2,806,044, 9-10-57, Cl. 260-400.
- Weil, Jay D.: See—
- Nutter, William L., and Weil. 2,805,499.
- Weil, Nicholas A., to the M. W. Kellogg Co. Skirt supported vessels. 2,802,596, 8-13-57, Cl. 220-69.
- Weil, Robert S.: See—
- King, Gilbert, Roberts, and Weil. 2,777,034.
- Weil, Solomon, to Kem Mfg. Co., Inc. Pre-positioned contact set. 2,777,909, 1-15-57, Cl. 200-31.
- Weil, Walter M.: See—
- Cooper, Hugh S. 2,802,721.
- Cooper, Hugh S. 2,802,729.
- Weiland, Carl, to Aktiebolaget Separator. Centrifuge for separating solid components from liquids. 2,788,937, 4-16-57, Cl. 233-21.
- Weiler, Joseph F., to Olin Mathieson Chemical Corp. Vinyl chloride polymers plasticized with a polychloro-di-tertiary-butyl-benzene compound. 2,811,498, 10-29-57, Cl. 260-33.8.
- Weiler, Willie C. Plow mold board with cleaning apparatus. 2,795,179, 6-11-57, Cl. 97-115.
- Weill, Bruno R., to Thonet Industries, Inc. Chair and detachable cushion therefor. 2,783,828, 3-5-57, Cl. 155-184.
- Weiman, Albert W.: See—
- Clubb, Roy E., and Weiman. 2,809,618.
- Weimer, Paul. Incontinence protector. 2,789,560, 4-23-57, Cl. 128-295.
- Weimer, Paul K.: See—
- Borkan, Harold, and Weimer. 2,789,157.
- Weimer, Paul K., to the United States of America as represented by the Secretary of the Army. Television camera storage tube. 2,777,970, 1-15-57, Cl. 315-11.
- Weimer, Paul K., to Radio Corp. of America. Color pickup tubes. 2,813,989, 11-19-57, Cl. 313-67.
- Weimont, Joseph, to Kimball Co. Machine for attaching tickets to merchandise. 2,778,019, 1-22-57, Cl. 1-3.
- Weinberg, Alvin M.: See—
- Christy, Robert F., and Weinberg. 2,806,819.
- Wigner, Eugene P., Ohlinger, Young, and Weinberg. 2,810,689.
- Weinberg, Bernard D. Progressive compression apparatus for treatment of bodily extremities. 2,781,041, 2-12-57, Cl. 128-60.
- Weinberg, Elliott L.: See—
- Ramsden, Hugh E., Weinberg, and Tomka. 2,789,104.
- Ramsden, Hugh E., Weinberg, and Tomka. 2,790,785.
- Tomka, Louis A., and Weinberg. 2,789,105.
- Tomka, Louis A., and Weinberg. 2,789,106.
- Tomka, Louis A., and Weinberg. 2,798,862.
- Weinberg, Elliott L., to Metal & Thermit Corp. Rubber compositions. 2,789,102, 4-16-57, Cl. 260-45.75.
- Weinberg, Elliott L., to Metal & Thermit Corp. Organotin derivatives of hydroxy and phenolic acids. 2,796,412, 6-18-57, Cl. 260-45.75.
- Weinberg, Elliott L., and L. A. Tomka, to Metal & Thermit Corp. Rubber stabilized with hydrocarbon tin compounds. 2,789,103, 4-16-57, Cl. 260-45.75.
- Weinberg, Elliott L., and L. A. Tomka, to Metal & Thermit Corp. Rubber stabilizers. 2,789,107, 4-16-57, Cl. 260-45.75.
- Weinberg, Lewis. Pattern marking device. 2,805,085, 9-3-57, Cl. 282-5.
- Weinberg, Lowell C. Aircraft having bomb bay air flow control apparatus. 2,791,387, 5-7-57, Cl. 244-137.
- Weinberger, Frank W.: See—
- Parker, James E., and Weinberger. 2,807,432.
- Weinberger, Harold. Multiple skewer. 2,815,706, 12-10-57, Cl. 99-419.
- Weinberger, Karl, to Schloemann Aktiengesellschaft. Article transfer mechanism. 2,796,974, 6-25-57, Cl. 198-177.
- Weinberger, Morris. Saw tool. 2,783,798, 3-5-57, Cl. 145-31.
- Weinberger, Sanford M.: See—
- Quermann, Thomas R., and Weinberger. 2,786,357.
- Weindel, Fred, Jr., to L. F. Grammes & Sons, Inc. Emblem attaching means. 2,805,832, 9-10-57, Cl. 248-226.
- Weiner, James R.: See—
- Eckert, John P., Jr., Weiner, Shaw, and Auerbach. 2,781,446.

- Weiner, Jessie A. Combination knitters gauge and tape measure. 2,806,286, 9-17-57, Cl. 33-2.
- Weiner, Meyer C., to Pennant Corp. Container. 2,818,192, 12-31-57, Cl. 220-4.
- Weiner, Morris, to Pizor Container Corp. Can carrying carton. 2,785,846, 3-19-57, Cl. 229-52.
- Weiner, Norman. Flush valve guide for flush tanks. 2,778,028, 1-22-57, Cl. 4-57.
- Weiner, Simon, to Auto Bumper Straightening Dies Corp. Apparatus for straightening metallic vehicle bumpers. 2,788,831, 4-16-57, Cl. 153-48.
- Weinfurt, William J.: *See*—
Loeffler, Alvin F., Stramowski, and Weinfurt. 2,810,522.
Rigert, Max, and Weinfurt. 2,806,926.
- Weinfurt, William J., and E. J. Stramowski, to McGraw Edison Co. Remote control device. 2,817,247, 12-24-57, Cl. 74-502.
- Weingand, Edward E. Snow hoe. 2,799,952, 7-23-57, Cl. 37-53.
- Weingand, Richard. Method of improving the adhesion of synthetic sausage casings to the filling. 2,785,074, 3-12-57, Cl. 99-176.
- Weingand, Richard. Method of producing synthetic sausage casings. 2,802,744, 8-13-57, Cl. 99-176.
- Weingand, Richard, and H. Reissmann. Method of producing synthetic sausage skins and products produced thereby. 2,813,034, 11-12-57, Cl. 99-176.
- Weingart, Ben: *See*—
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- Weingart, Richard I. N.: *See*—
Keefe, Lincoln M. 2,802,473.
- Weingart, Richard I. N., G. A. Loeb, and J. C. Wagner, to General Register Corp. Key interlock in ticket issuing machine. 2,795,185, 6-11-57, Cl. 101-69.
- Weingart, Vernon R. Packaging apparatus for packing perishable foods in ice. 2,781,066, 2-12-57, Cl. 141-317.
- Weingart, Vernon R., and O. W. Hannum. Method and apparatus for tying bags. 2,780,898, 2-12-57, Cl. 53-14.
- Weingarten, Morris R.: *See*—
Van Hekken, Frans, and Weingarten. 2,795,718.
- Weinman, Eugene A.: *See*—
Johnson, William B., and Weinman. 2,799,626.
- Weinman, Irving. Child's pillow or similar article. 2,795,161, 6-11-57, Cl. 84-94.
- Weinman, James A.: *See*—
Herb, Raymond G., and Weinman. 2,816,243.
- Weinmann, Carl E.: *See*—
Fuglie, Elmer A., and Weinmann. 2,793,868.
- Weinmann, Carl E., to A. T. O'Neil and G. H. Danielson. Hand trucks. 2,797,832, 7-2-57, Cl. 214-383.
- Weinmayr, Victor: *See*—
Andiolotti, Willard F., and Weinmayr. 2,791,597.
- Weinmayr, Viktor, to E. I. du Pont de Nemours and Co. Purification of anhydrous hydrogen fluoride. 2,777,754, 1-15-57, Cl. 23-153.
- Weinmayr, Viktor, to E. I. du Pont de Nemours and Co. Process of preparing cyclopentadienylsodium. 2,777,887, 1-15-57, Cl. 260-665.
- Weinreis, John M., T. F. Cleary, and S. Chodroff, to Norda Essential Oil & Chemical Co. Germicidal soaps composition. 2,814,597, 11-26-57, Cl. 252-107.
- Weinon, Inc.: *See*—
O'Neil, John G. 2,800,267.
- Weinrich, Arthur R., to Libbey-Owens-Ford Glass Co. Reversible rear view mirror. 2,797,620, 7-2-57, Cl. 88-77.
- Weinrich, William W., to Houdry Process Corp. Contacting liquid hydrocarbons in a moving bed hydrocarbon conversion system. 2,800,432, 7-23-57, Cl. 196-52.
- Weinstein, Abraham S. Paint can channel cover and brush support. 2,812,886, 11-12-57, Cl. 222-569.
- Weinstein, Alex J.: *See*—
Bechtold, Edwin W., Kapilow, and Weinstein. 2,800,052.
- Weinstein, Harold: *See*—
Pritikin, Nathan, and Weinstein. 2,796,504.
- Weinstein, Seymour, and J. Walker. Outboard motor loader for vehicle. 2,778,517, 1-22-57, Cl. 214-450.
- Weinstock, Harry H., Jr.: *See*—
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- Weinstock, Robert, to the United States of America as represented by the Secretary of the Navy. Wave shield. 2,801,411, 7-30-57, Cl. 343-18.
- Weinstock, Walter W.: *See*—
Johnson, Miles C., and Weinstock. 2,818,523.
- Weintraub, Irving: *See*—
Stovall, John R., Jr., and Weintraub. 2,783,648.
- Weintraub, Nelson: *See*—
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- Weir, Donald A.: *See*—
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Terry, Victor J., Ridler, and Weir. 2,788,940.
- Weir, Edgar V. Magnetic amplifier circuit using complex feedback. 2,817,807, 12-24-57, Cl. 323-89.
- Weir, Frank, to United States Steel Corp. Tuyere. 2,781,190, 2-12-57, Cl. 266-41.
- Weir, Franklin T., F. Catz, and J. H. Gartner, to Self Park System. Ticket dispensing device. 2,815,206, 12-3-57, Cl. 271-24.
- Weir, Kenneth H. Power transmission apparatus. 2,784,576, 3-12-57, Cl. 64-20.
- Weir, Lee D., and L. Whitcomb. Apparatus for controlling truck operation from crane cab. 2,781,134, 2-12-57, Cl. 212-38.
- Weir, Ralph K. Pan lifting device. 2,777,725, 1-15-57, Cl. 294-34.
- Weis, Frank G., to Smith and Loveless, Inc. Weighing tank switch control system. 2,779,562, 1-29-57, Cl. 249-1.
- Weis, Frank G., to Smith & Loveless, Inc. Package single ejector lift station for sewage. 2,817,299, 12-24-57, Cl. 103-241.
- Weis, William A.: *See*—
Berninger, Kenneth L., Neef, and Weis. 2,791,237.
Treseder, Robert C., Berninger, Weis, Dinsmore, and Taylor. 2,804,154.
- Weisberg, Harry, to Londat Aetz Fabric Co. Process of cyanoethylating cellulose textiles by adding an alkynitrile to the acrylonitrile and products produced therefrom. 2,812,999, 11-12-57, Cl. 8-120.
- Weisberg, Sidney M., to Allied Electric Products, Inc. Protective grounding device for a high frequency antenna. 2,777,094, 1-8-57, Cl. 317-61.
- Weisberg, Sidney M., to Allied Electric Products, Inc. Lightning arrester. 2,777,096, 1-8-57, Cl. 317-69.
- Weisblat, David I.: *See*—
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Lytle, Douglas A., and Weisblat. 2,813,876.
- Weise, Frank, to Cornell Research Foundation, Inc. Adjuster means for kitchen units. 2,785,938, 3-19-57, Cl. 312-140.3.
- Weise, Frank, to The Cornell Research Foundation, Inc. Door and housing therefor. 2,807,835, 10-1-57, Cl. 20-16.
- Weise, Johannes, W. Hahn, K. Kromer, and R. Noack, to Veb Zeiss Ikon. Photographic shutters. 2,815,702, 12-10-57, Cl. 95-63.
- Weisenbach, Charles O.: *See*—
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- Weisenborn, Frank L., to Olin Mathieson Chemical Corp. Synthesis of alkaloids. 2,796,420, 6-18-57, Cl. 260-286.
- Weiser, George L.: *See*—
Nichols, Charles A., Weiser, and Goodwin. 2,781,678.
- Weiser, Jack. Mathematical device for writing instruments. 2,777,636, 1-15-57, Cl. 235-87.
- Weisgarber, Norman A. Hinge. 2,777,156, 1-15-57, Cl. 16-179.
- Weisgerber, Cyrus A., to Hercules Powder Co. Reaction of polyvinylphthalimides and alkylene polyamines and products thereof. 2,817,645, 12-24-57, Cl. 260-78.
- Weiskopf, Edwin C., and A. Ferrari, Jr., to Technicon International, Ltd. Receptacle carrier for tissue processing. 2,800,102, 7-23-57, Cl. 118-425.
- Weiskopf, Edwin C., and A. Ferrari, Jr., to Technicon International Ltd. Receptacle carrier for tissue processing. 2,810,366, 10-22-57, Cl. 118-503.
- Weisman, Maurice, to Modern Coffees, Inc. Infusible coffee bag. 2,786,761, 3-26-57, Cl. 98-77.1.
- Weisman, Sam, and J. A. Fine, to Flood Control Wave Co. Flood control means. 2,792,011, 5-14-57, Cl. 137-110.
- Weisner, John W., to H. T. Matthews. Tobacco leaf stringer. 2,785,808, 3-19-57, Cl. 214-5.5.
- Weiss, Aaron J. Oven clothes-dryer. 2,775,824, 1-1-57, Cl. 34-90.
- Weiss, Arthur J., to Robert Gair Co., Inc. Hat carton insert. 2,781,896, 2-19-57, Cl. 206-9.
- Weiss, Arthur J., to Robert Gair Co., Inc. Blank for folding boxes and the like. 2,794,587, 6-4-57, Cl. 229-30.
- Weiss, Arthur J., to Continental Can Co., Inc. Folding paper board center handle carrier. 2,806,643, 9-17-57, Cl. 229-52.
- Weiss, Benjamin. One-operation hem and length, garment marker. 2,790,239, 4-30-57, Cl. 33-9.
- Weiss, David E.: *See*—
Kaplan, Arthur Y., Hoyt, Smith, Tafel, Tavani, Christian, and Weiss. 2,796,815.
- Weiss, Dewey S. Locked clevis. 2,793,886, 5-28-57, Cl. 287-20.5.
- Weiss, Gilbert F. Angling device. 2,785,868, 3-19-57, Cl. 242-84.1.
- Weiss, Harry. Attachment for a removable bridge or partial denture. 2,803,060, 8-20-57, Cl. 32-5.
- Weiss, Howard E., to Chrysler Corp. Vehicle speed controlled horn system. 2,802,197, 8-6-57, Cl. 340-62.
- Weiss, Joseph. Switch controlling governor. 2,802,913, 8-13-57, Cl. 200-33.
- Weiss, Leo A., to Avien, Inc. Capacitive liquid measuring apparatus. 2,789,445, 4-23-57, Cl. 73-304.
- Weiss, Louis: *See*—
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- Weiss, Martin J.: *See*—
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Waller, Coy W., Weiss, and Webb. 2,785,183.
Webb, John S., Waller, and Weiss. 2,797,228.
- Weiss, Martin J., to American Cyanamid Co. Sulfonium compounds. 2,785,204, 3-12-57, Cl. 260-607.
- Weiss, Max T., to Bell Telephone Laboratories, Inc. Non-reciprocal directive antenna arrays. 2,786,999, 3-26-57, Cl. 343-853.
- Weiss, Mortimer E., to Gulton Industries, Inc. Ultrasonic soldering iron. 2,815,430, 12-3-57, Cl. 219-26.
- Weiss, Paul, to Vereinigte Aluminium-Werke Aktiengesellschaft. Metal producing apparatus. 2,782,023, 2-19-57, Cl. 266-18.

- Weiss, Philip: *See*—
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Gerecht, John F., Krems, and Weiss. 2,806,844.
- Weiss, Richard, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Mechanism for holding film flat in roll film cameras. 2,788,724, 4-16-57, Cl. 95-31.
- Weiss, Richard C.: *See*—
Koryta, Leonard D. 2,801,150.
- Weiss, Roy J.: *See*—
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- Weiss, Shirley L. Filament bar casing and method of making same. 2,817,046, 12-17-57, Cl. 317-234.
- Weiss, Thomas B. Electric plug receptacle. 2,799,839, 7-16-57, Cl. 340-164.
- Weiss, Ulrich: *See*—
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- Weiss, Walter J., and W. L. Hall, to The Texas Co. Drilling fluid. 2,802,783, 8-13-57, Cl. 252-8.5.
- Weiss, Willi, to Société Brevets Aero-Mécaniques, S. A. Explosive shells. 2,806,428, 9-17-57, Cl. 102-73.
- Weisse, Ernst. Cover and container for food-preserve-container. 2,777,125, 1-8-57, Cl. 220-55.
- Weisselberg, Arnold. Stage evaporator apparatus. 2,782,844, 2-26-57, Cl. 159-18.
- Weissenbach, Joseph. Combustion chamber. 2,810,377, 10-22-57, Cl. 123-191.
- Weissenberg, Gustav, to Ernst Leitz G. m. b. H. Method and apparatus for obtaining ultramicroscopic images in an ion microscope. 2,799,779, 7-16-57, Cl. 250-49.5.
- Weissenberg, Gustav, and N. Meinert, to Ernst Leitz, G. m. b. H. Optical glass. 2,777,774, 1-15-57, Cl. 106-47.
- Weissenberger, Alfons, to Goetzwerke Friedrich Goetze Aktiengesellschaft. Clamping devices. 2,807,873, 10-1-57, Cl. 29-269.
- Weissert, Josef: *See*—
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- Weissnitz, Morris: *See*—
Orzech, Stanley, and Weissnitz. 2,805,805.
- Weissman, Seymour, to The W. L. Maxson Corp. Two-stage magnetic amplifier. 2,809,241, 10-8-57, Cl. 179-171.
- Weisz, Daniel I., to Beaver-Advance Corp. Hoisting mechanisms. 2,808,165, 10-1-57, Cl. 214-630.
- Weisz, Daniel I., to Beaver-Advance Corp. Separable connections or cam locks. 2,808,297, 10-1-57, Cl. 304-40.
- Weisz, Daniel I., to Beaver-Advance Corp. Latch studs for scaffolds. 2,810,612, 10-22-57, Cl. 304-40.
- Weisz, Paul B., to Socony Mobil Oil Co., Inc. Method for detecting hydrocarbons in soil gases. 2,786,144, 3-19-57, Cl. 250-43.5.
- Weisz, Robert O.: *See*—
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- Weisz, Thibaud, to Société Française de Maroquinerie Sans Couture "Le Tanneur" & "Tanneries du Bugey." Coin purse. 2,800,156, 7-23-57, Cl. 150-37.
- Weisz, Thomas A., to J. S. Kamborian. Apparatus for melting and dispensing thermoplastic adhesive. 2,809,772, 10-15-57, Cl. 222-146.
- Weisz, Thomas A., to J. S. Kamborian. Device for melting adhesive. 2,815,429, 12-3-57, Cl. 219-21.
- Weisz, William J., and D. R. Jones, to Motorola, Inc. Apparatus for detecting motion in a confined space. 2,782,405, 2-19-57, Cl. 340-258.
- Weisz, William J., and G. R. Madland, to Motorola, Inc. Portable electronic unit. 2,810,068, 10-15-57, Cl. 250-14.
- Weirbrecht, Gerhard, and J. Müller, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of lower carboxylic paracids. 2,802,025, 8-6-57, Cl. 260-502.
- Weinauer, Gustav A., to Lepetit S. p. A. Oxazol-5-one compounds. 2,782,203, 2-19-57, Cl. 260-307.
- Weitz, Marcus: *See*—
Koomtz, Franklin N., and Weitz. 2,806,117.
- Weitzel, Edward W., to Western Electric Co., Inc. High-frequency transmission cables. 2,805,276, 9-3-57, Cl. 174-113.
- Weitzel, Edward W., to Shuford Mills. Soil soaking devices. 2,807,505, 9-24-57, Cl. 299-104.
- Weitzel, Fred M. Weight shifter and balancing device or hitch. 2,779,606, 1-29-57, Cl. 280-489.
- Welch, Albert B., to Westinghouse Electric Corp. Color television tube. 2,792,522, 5-14-57, Cl. 315-12.
- Welch, Albert F., and W. S. Erwin (deceased), by K. S. Erwin, administratrix, to General Motors Corp. Engine power indicator. 2,800,014, 7-23-57, Cl. 73-116.
- Welch Allyn, Inc.: *See*—
Moore, William C. 2,790,437.
Moore, William C. 2,797,684.
- Welch, Clyde I. Angle establishing and determining device. 2,802,271, 8-13-57, Cl. 33-102.
- Welch, Donald H.: *See*—
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- Welch, Douglas F., R. A. Bell, and K. B. Randall, to The British Thomson-Houston Co. Ltd. Starters for prime movers such as gas turbines. 2,775,865, 1-1-57, Cl. 60-39.14.
- Welch, Edward E. Gloves for directing traffic. 2,787,236, 4-2-57, Cl. 116-35.
- Welch, Edward S., Jr., to Fenwal Laboratories, Inc. Dielectric heat sealing method and apparatus. 2,816,596, 12-17-57, Cl. 154-42.
- Welch, Eldred V.: *See*—
Bloom, Albert, and Welch. 2,798,871.
- Welch, Elvin C., to Automation Development Corp. Incremental stepper motor. 2,809,335, 10-8-57, Cl. 318-139.
- Welch, Gerald C. Dial indicator. 2,777,207, 1-15-57, Cl. 33-172.
- Welch, Grant. Shell dispenser. 2,777,604, 1-15-57, Cl. 221-113.
- Welch, Harlan C. Wind director. 2,785,620, 3-19-57, Cl. 98-2.
- Welch, Herman P., to Backstay Welt Co. Bias cut spliced fabric strip. 2,792,318, 5-14-57, Cl. 154-43.
- Welch, Jerome B., to Cutler-Hammer, Inc. Magnetic force resistance welding machine. 2,776,362, 1-1-57, Cl. 219-86.
- Welch, Lester M.: *See*—
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- Welch, Lester M., to Carter Bell Mfg. Co. Cyclodiene sulfoxide and process of preparing the same. 2,806,843, 9-17-57, Cl. 260-79.
- Welch, Lester M., to Esso Research and Engineering Co. Divinyl benzene modified polymers. 2,815,335, 12-3-57, Cl. 260-88.1.
- Welch, Lester M., H. L. Wilson, and L. B. Turner, to Esso Research and Engineering Co. Divinyl aromatic modified isooctolefin-multiolefin copolymers. 2,781,334, 2-12-57, Cl. 260-80.7.
- Welch, Parker C., to Morton Packing Co. Dough docking mechanism. 2,806,438, 9-17-57, Cl. 107-15.
- Welch, Paul V.: *See*—
Abbott, Henry H., and Welch. 2,794,859.
- Welch, Peter: *See*—
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- Welch, Philip N.: *See*—
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- Welch, Pierre R. Method of coating a surface with polyhalocarbon resin and article formed thereby. 2,777,783, 1-15-57, Cl. 117-75.
- Welch, W. M., Mfg. Co.: *See*—
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Petry, Stanton H., and Grosse. 2,800,834.
- Welch, William W., Sr. Switch mounting. 2,794,874, 6-4-57, Cl. 200-52.
- Welcher, Richard P.: *See*—
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- Welcher, Richard P., to American Cyanamid Co. Preparation of cyanoformamide. 2,804,470, 8-27-57, Cl. 260-465.4.
- Welcher, Richard P., to American Cyanamid Co. Manufacture of cyanoformamide. 2,804,471, 8-27-57, Cl. 260-465.4.
- Welcher, Richard P., and D. W. Kaiser, to American Cyanamid Co. Method of preparing thioammeline. 2,780,623, 2-5-57, Cl. 260-249.8.
- Weld, Foster E., to The Gamewell Co. Facsimile synchronizing apparatus. 2,779,820, 1-29-57, Cl. 178-69.5.
- Weld, Foster E., to The Gamewell Co. Variable impedance device. 2,782,288, 2-19-57, Cl. 201-48.
- Weldes, Helmut: *See*—
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- Welding Industry Research & Patent Corp.: *See*—
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- Welding Research, Inc.: *See*—
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- Welding Sales & Engineering Co.: *See*—
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- Weldon, William C., Sr. Mechanic's creeper. 2,780,472, 2-5-57, Cl. 280-32.6.
- Weldy, Robert K.: *See*—
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- Welker, Heinrich, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor devices and methods of their manufacture. 2,798,989, 7-9-57, Cl. 317-237.
- Well Completions, Inc.: *See*—
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- Well, Roy E., to Art Metal Construction Co. Office record devices. 2,795,205, 6-11-57, Cl. 116-135.
- Well Surveys, Inc.: *See*—
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- Welland, John E., 1/2 to Geecan Ltd. Indicating instruments. 2,795,878, 6-13-57, Cl. 40-77.
- Wellauer, Edward J., to The Falk Corp. Fabricated structure. 2,789,480, 4-23-57, Cl. 90-11.
- Wellborn, William W., to Firth Sterling, Inc. Carburized tungsten alloy article. 2,778,757, 1-22-57, Cl. 148-32.
- Wellens, Alexander M. Telescoping brows. 2,803,841, 8-27-57, Cl. 14-71.
- Weller, Barton L.: *See*—
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- Weller, Edward F., Jr.: *See*—
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- Weller Electric Corp.: *See*—
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- Weller, Leo G., to Fuller Co. Pneumatic conveying systems. 2,795,463, 6-11-57, Cl. 302-3.

- Weller, Ray H., to General Motors Corp. Cloth cutting machine. 2,791,276, 5-7-57, Cl. 164-206.
- Weller, Sol W.: *See*—
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- Weller, Sol W., to Houdry Process Corp. Hydrogenation of sulfur-contaminated olefins. 2,776,934, 1-8-57, Cl. 196-78.
- Weller, Warren C., and H. B. Johnson, to the United States of America as represented by the Secretary of the Navy. Connector for structural elements. 2,781,110, 2-12-57, Cl. 189-36.
- Welles, Donald P., Jr., to Besley-Welles Corp. Fluteless swaging taps. 2,807,813, 10-7-57, Cl. 10-152.
- Welles, Ernest I., and S. M. Edelstein, to Dexter Chemical Corp. Antistatic and rewetting treatment of textile material. 2,809,159, 10-8-57, Cl. 252-8.8.
- Welling, Alvin F. Holder for magnetic tape reels. 2,813,633, 11-19-57, Cl. 211-41.
- Wellinger, Arthur J. Butter spreader. 2,814,868, 12-3-57, Cl. 30-124.
- Wellington, Joseph C., Jr., to Thompson Products, Inc. Generator control system. 2,801,380, 7-30-57 Cl. 322-27.
- Wellington, Joseph C., Jr., S. H. Fairweather, and F. H. Guth, to Thompson Products, Inc. Automatic speed and stabilizing control using variable transmission. 2,795,747, 6-11-57, Cl. 318-13.
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- Wellington, Joseph C., Jr., W. L. Hinde, and S. H. Fairweather, to Thompson Products, Inc. Alternator control. 2,800,594, 7-23-57, Cl. 307-57.
- Welliver, Clarence L., to Hughes Aircraft Co. Pulse edge brightening circuit. 2,812,472, 11-5-57, Cl. 315-22.
- Welliver, Marshall L. Display and dispensing container. 2,802,602, 8-13-57, Cl. 22-154.
- Wellman Engineering Co., The: *See*—
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- Wellman, John W.: *See*—
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- Wellman Mfg. Co., The: *See*—
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- Wellman, S. K., Co., The: *See*—
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- Wellman, Samuel K., to The S. K. Wellman Co. Apparatus for welding metallic brake lining backing to brake shoes and the like. 2,793,283, 5-21-57, Cl. 219-78.
- Wellman, Samuel K., to The S. K. Wellman Co. Method of making clutch plate. 2,799,603, 7-16-57, Cl. 148-12.4.
- Wellman, Samuel K., to The S. K. Wellman Co. Metallic brake shoe. 2,804,947, 9-3-57, Cl. 188-251.
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- Wellman, William W., to Colgate-Palmolive Co. Guanidine salts of N-higher aliphatic amino carboxylic acids and compositions thereof. 2,778,773, 1-22-57, Cl. 167-93.
- Wells, Bruce A.: *See*—
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- Wells, Bruce A., to General Electric Co. Control system for variable exhaust area reaction power plant. 2,805,544, 9-10-57, Cl. 60-35.6.
- Wells, Bruce C.: *See*—
 Nadrowski, Arthur S., and Wells. 2,808,881.
- Wells, Clark F. Self powered mixing device. 2,803,260, 8-20-57, Cl. 137-99.
- Wells, Clifford M. Saddle-type pipe or rod bending machine. 2,796,909, 6-25-57, Cl. 153-39.
- Wells, Earl J. Chuck. 2,805,074, 9-3-57, Cl. 279-46.
- Wells, Edward M.: *See*—
 Ramsay, John F., and Wells. 2,788,440.
- Wells, Elwood D.: *See*—
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- Wells, Elwood D., and R. B. Faris, Jr., to The Standard Oil Co. Asphalt emulsions containing small amounts of lead naphthenate to improve adhesivity. 2,786,775, 3-26-57, Cl. 106-277.
- Wells, Franklin H., to A M P Inc. Electrical connection and method. 2,795,769, 6-11-57, Cl. 339-276.
- Wells, Fred S., to Stephens-Adamson Mfg. Co. Side loading and unloading moving sidewalk. 2,805,752, 9-10-57, Cl. 198-16.
- Wells, Harry C., to Seaview Industries, Inc. Adjustable pitch awning. 2,780,848, 2-12-57, Cl. 20-57.5.
- Wells, Hugh O., to P. R. Mallory & Co., Inc. Low loss vibrator mechanism. 2,809,250, 10-8-57, Cl. 200-90.
- Wells, Jewell W. Pipe line stoppers. 2,811,985, 11-5-57, Cl. 138-93.
- Wells, John F. Fluid pressure actuated heavy duty tire mounting nad demounting device. 2,818,108, 12-31-57, Cl. 157-1.2.
- Wells, John W., to Man-Wel, Inc. Salmon egg dispenser and applicator. 2,787,080, 4-2-57, Cl. 43-55.
- Wells, Leland E., to The Electric Storage Battery Co. Electrolyte level control for a storage battery. 2,786,090, 3-19-57, Cl. 136-177.
- Wells, Louis: *See*—
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- Wells, Mansel S. Apparatus for testing for parallelism of connecting rod journals. 2,796,673, 6-25-57, Cl. 33-180.
- Wells, Norman C. Bottom hole pressure control in well drilling. 2,786,652, 3-26-57, Cl. 255-24.
- Wells, Philip H., and C. H. Cramer, to The Western Union Telegraph Co. Submarine cable amplifier and wave shaper. 2,794,853, 6-4-57, Cl. 178-63.
- Wells, Preston A., Jr.: *See*—
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- Wells, Robert F., to General Railway Signal Co. Safety track switch control system. 2,817,013, 12-17-57, Cl. 246-161.
- Wells, Robert M., to International Harvester Co. Deburring machine for gears and the like. 2,814,168, 11-26-57, Cl. 51-89.
- Wells, Robert S., and E. J. G. Beeson, to General Electric Co. Manufacture of lamps with luminescent screens. 2,777,743, 1-15-57, Cl. 316-11.
- Wells, Sheldon E., to Lombard Corp. Recoil shock absorber for metal stretcher. 2,776,695, 1-8-57, Cl. 153-35.
- Wells, William D.: *See*—
 Engberg, William M., and Wells. 2,777,335.
- Wells, William H., to Bendix Aviation Corp. Mass spectrometer. 2,790,080, 4-23-57, Cl. 250-41.9.
- Wells, Willis L., to Lambert Engineering Co. Photoflash cartridge ejector. 2,778,275, 1-22-57, Cl. 89-1.5.
- Wells, Willis L., to American Machine & Foundry Co. Bowling pin setting mechanism. 2,798,721, 7-9-57, Cl. 273-42.
- Welsbach Corp., The: *See*—
 Grosse, Aristid V., and Nodiff. 2,809,881.
 Grosse, Aristid V., and Nodiff. 2,809,882.
- Welsh, Charles W.: *See*—
 Mathews, Joseph A., Erickson, Welsh, and Mann. 2,788,400.
- Welsh, James W., to Signal-Stat Corp. Welded joints and method of making the same. 2,790,891, 4-30-57, Cl. 219-91.
- Welsh, James W., to Signal Stat Corp. Flasher sounder. 2,806,921, 9-17-57, Cl. 200-122.
- Welsh Mfg. Co.: *See*—
 Lindblom, Frank W. 2,783,681.
 Lindblom, Frank W. 2,811,896.
- Welsh, Matilda D. Combined baby carriage, bassinet and stroller. 2,777,706, 1-15-57, Cl. 280-31.
- Welsh, Matilda D. Folding baby stroller. 2,803,470, 8-20-57, Cl. 280-41.
- Welsh, Milton L. Adjustable gasket cutter. 2,778,108, 1-22-57, Cl. 30-300.
- Welsh, Ormonde P., to Parten Machinery Co. Pneumatic rotary sheet feeding mechanism. 2,797,092, 6-25-57, Cl. 271-29.
- Welsh Ormonde P., to Parten Machinery Co. Envelope processing machine. 2,800,841, 7-30-57, Cl. 93-62.
- Welsh, Paul L., to Owens-Corning Fiberglass Corp. Fibrous glass mats and manufacture thereof. 2,801,673, 8-6-57, Cl. 154-29.
- Welsh, Sharp F. Safety foot walker. 2,785,731, 3-19-57, Cl. 155-22.
- Welsh, Wayne C.: *See*—
 Emerick, Lloyd C., and Welsh. 2,818,320.
- Welsh, Wm. H., Co., Inc.: *See*—
 Matthews, Charles L. 2,812,825.
 Matthews, Charles L. 2,812,900.
- Welter, Erwin G., to Hall-Welter Co., Inc. Indicating means in check writers. 2,786,411, 3-26-57, Cl. 101-20.
- Wetli, George R., to Sperry Rand Corp. Caging mechanisms. 2,799,169, 7-16-57, Cl. 74-5.1.
- Weltronic Co.: *See*—
 Shipman, Roy W., and McMullan. 2,813,245.
- Wetly, Frank, to Carbonic Dispenser, Inc. Pressure cap with integral pressure release mechanism for syrup tanks and the like. 2,779,515, 1-29-57, Cl. 222-394.
- Wetly, Stanley R. Nail driver. 2,798,220, 7-9-57, Cl. 1-47.
- Welz, Alfred, to Filtrox-Werk A. G. Apparatus for making boardlike products from a fibrous cement mixture. 2,779,252, 1-29-57, Cl. 92-39.
- Welz, Harry, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of oximes. 2,818,380, 12-31-57, Cl. 204-158.
- Welz, Harry, and A. Giltges, to Farbenfabriken Bayer Aktiengesellschaft. Production of nitrohydrocarbons. 2,813,913, 11-19-57, Cl. 260-644.
- Wemp, Ernest E., deceased; by L. A. Wemp and W. O. Kronner, executors. Anti-creep brake and gear phaser for an automatic transmission. 2,797,780, 7-2-57, Cl. 192-3.
- Wemp, Lila A.: *See*—
 Wemp, Ernest E. 2,797,780.
- Wendeborn, Helmut, W. Schwartz, C.-A. Maelzer, and H. Rausch, to Metallgesellschaft Aktiengesellschaft. Process for producing lead from lead sulfide containing materials. 2,797,158, 6-25-57, Cl. 75-77.
- Wendel, Lorenz A., to The Singer Mfg. Co. Loom driving and control devices. 2,797,781, 7-2-57, Cl. 192-12.
- Wendel, Nolan A. Tacos mold. 2,814,981, 12-3-57, Cl. 99-426.

- Wendela, Hugo H., to General Motors Corp. Ventilator valve assembly. 2,791,957, 5-14-57, Cl. 98—2.
- Wendell, Charles B., Jr., and G. E. Engelson, to Godfrey L. Cabot, Inc. Process and apparatus for the production of aluminum oxide from aluminum chloride. 2,780,323, 2-5-57, Cl. 23—142.
- Wendell Mfg. Co.: *See—*
- Benkowski, Joseph R. 2,788,538.
- Wendell, Samuel I.: *See—*
- Ryder, Frank A., and Wendell. 2,775,944.
- Ryder, Frank A., and Wendell. 2,804,018.
- Wender, Simon H., and D. W. Fox, to the United States of America as represented by the United States Atomic Energy Commission. Preparation of flavonoid glucosides. 2,786,832, 3-26-57, Cl. 260—210.
- Wendler, Norman L.: *See—*
- Hirschmann, Ralph F., Wendler, and Miller. 2,781,363.
- Hirschmann, Ralph F., Wendler, and Ruyle. 2,779,774.
- Wendt, Fritz, Kommanditgesellschaft: *See—*
- Amrhein, Heinz, and Landeck. 2,806,329.
- Wendt, Gerhard R., to American Home Products Corp. N-propylene derivatives. 2,800,471, 7-23-57, Cl. 260—42.
- Wendt, Günther, to Vereinigte Aluminiumwerke Aktiengesellschaft. Process of producing cryolite from washing and waste liquors containing sodium fluoride. 2,783,128, 2-26-57, Cl. 23—88.
- Wendt, Harry C., to General Electric Co. Electromagnetic telemetering device. 2,794,181, 5-28-57, Cl. 197—340.
- Wendt, Harry C., to General Electric Co. Gyro setting apparatus. 2,801,542, 8-6-57, Cl. 74—54.
- Wendt, Otto E.: *See—*
- Schörfling, Karl H., and Wendt. 2,791,071.
- Wendt, Otto F. Sewer pipe cleaning attachment. 2,780,820, 2-12-57, Cl. 15—104.3.
- Wengel, Raymond W., to Eastman Kodak Co. Continuous film loop holder for repeating projectors. 2,808,259, 10-1-57, Cl. 271—2.15.
- Wenger, Abraham. Machine and method for printing on confections. 2,797,637, 7-2-57, Cl. 101—126.
- Wenger, Harvey M. Barn cleaning apparatus. 2,812,055, 11-5-57, Cl. 198—224.
- Wenger, Hermann L. Portable filter for cigarettes, cigars, smoking pipes and the like. 2,815,030, 12-3-57, Cl. 131—173.
- Wengert, Emil F. K.: *See—*
- Uhlenhaut, Rudolf E., Rotweiler, and Wengert. 2,790,964.
- Wenke, Helmuth B. C. Roll shutters. 2,803,297, 8-20-57, Cl. 160—133.
- Wenker, Henry. Improved indicator dyes. 2,806,023, 9-10-57, Cl. 260—200.
- Wen-Mac Corp.: *See—*
- Boultinghouse, A. C. 2,800,744.
- Wenner, Wilhelm: *See—*
- Plati, John T., and Wenner. 2,784,222.
- Plati, John T., and Wenner. 2,802,826.
- Wenner, Wilhelm, to Hoffmann-La Roche Inc. 1-isonicotinyl-2-hydroxyalkyl-hydrazines. 2,798,076, 7-2-57, Cl. 260—295.
- Wennerberg, Gunnar, to Lear, Inc. Magnetic modulator systems. 2,790,948, 4-30-57, Cl. 323—56.
- Wennerbo, Erik, and G. Hedberg, to Industriaktiebolaget Luxor. Phonographs. 2,814,956, 12-3-57, Cl. 74—199.
- Wenner-Gren, Axel L.: *See—*
- Hinsken, Josef, and Holzer. 2,788,749.
- Wenny, Daniel H., Jr.: *See—*
- Boothby, Otis L., and Wenny. 2,804,415.
- Wenthe, Stephen J., and T. C. Murray, to Eastman Kodak Co. Document endorsing apparatus. 2,783,710, 3-5-57, Cl. 101—234.
- Wentland, Robert J., to The Richardson Co. Asphaltic molding compositions and molded articles containing wood fiber. 2,806,825, 9-17-57, Cl. 260—9.
- Wentling, William H., to The Lau Blower Co. Blowers. 2,776,088, 1-1-57, Cl. 230—117.
- Wentsel, Robert J. Take-up reel for electric cords. 2,805,290, 9-3-57, Cl. 191—124.
- Wentworth, Gerald G. Fishing lure. 2,791,859, 5-14-57, Cl. 43—42.02.
- Wentz, Alan W. Separable fastener structure. 2,785,453, 3-19-57, Cl. 24—217.
- Wentz, Edward A.: *See—*
- Daley, Horace S., and Wentz. 2,792,324.
- Wentz, Richard K.: *See—*
- Trimble, George S., Jr., Wentz, and Magyar. 2,814,453.
- Wentz, Richard K. Container. 2,812,109, 11-5-57, Cl. 222—52.
- Wentzien, John H., H. E. Brickner, and H. G. W. Acanfora, Jr., to The Borden Co. Wheel mounted guard for tire inflation. 2,784,776, 3-12-57, Cl. 157—1.
- Wenzel, Frederick A., to Cornell Paperboard Products Co. Package for mouse traps and the like. 2,806,589, 9-17-57, Cl. 260—45.14.
- Wenzel, Robert H., 25% to P. M. Rogers. High voltage rectifier. 2,793,325, 5-21-57, Cl. 315—246.
- Wenzelberger, Elwood P., to The Commonwealth Engineering Co. of Ohio. Automatic tank dump valve mechanism. 2,790,309, 4-30-57, Cl. 62—114.
- Wenzelberger, Elwood P., to The Commonwealth Engineering Co. of Ohio. Quick opening mechanism for tanks. 2,790,493, 4-30-57, Cl. 161—7.
- Wenzelberger, Elwood P., to The Commonwealth Engineering Co. of Ohio. Apparatus for dehydration of liquids by freezing. 2,794,327, 6-4-57, Cl. 62—114.
- Wenzelberger, Elwood P., to The Commonwealth Engineering Co. of Ohio. Apparatus for dehydrating heat sensitive materials from liquids. 2,800,001, 7-23-57, Cl. 62—124.
- Wenzelberger, Elwood P., to The Commonwealth Engineering Co. of Ohio. Reaction products of dextran-modified polyester with urea-formaldehyde alcohol condensates and method of producing. 2,809,176, 10-8-57, Cl. 260—17.3.
- Wenzelberger, Elwood P., to The Commonwealth Engineering Co. of Ohio. Dextran and drying oil fatty acids-modified polyesters and method of producing the polyesters. 2,818,396, 12-31-57, Cl. 260—9.
- Wenzl, Josef, to W. Jordan. Device for separating air or gas from motor fuel. 2,811,219, 10-29-57, Cl. 183—2.5.
- Werbner, Alvin J. Cap or hat holder. 2,812,124, 11-5-57, Cl. 224—5.
- Werder, Ernest A.: *See—*
- Shataloff, Nicholas S., and Werder. 2,787,288.
- Werder, William: *See—*
- O'Brien, Lois M., and Werder. 2,812,518.
- Wermiczky, Benny: *See—*
- Pearson, Reinhold A., and Wermiczky. 2,780,148.
- Werfel, Bernard, $\frac{1}{2}$ to F. Gerhardt. Flexible pinched frame body. 2,783,908, 3-19-57, Cl. 280—106.
- Werfell, Arnold, to Pailhard S. A. Photographic objectives comprising five components axially aligned and air separated. 2,811,082, 10-29-57, Cl. 88—57.
- Werft, August R.: *See—*
- Core, Jesse R., and Werft. 2,780,448.
- Werker, William A., to Bendix Aviation Corp. Receptacle for volatile liquids. 2,799,425, 7-16-57, Cl. 220—14.
- Werkzeugmaschinenfabrik Adolf Waldrich Coburg: *See—*
- Dornhöfer, Ewald. 2,799,138.
- Werly, Emil F., to Pillsbury Mills, Inc. Fluidizing lecithin. 2,777,817, 1-15-57, Cl. 252—1.
- Werne, John V., J. A. Dever, and J. A. Duke, to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,814,731, 11-26-57, Cl. 250—83.1.
- Werneck, Heinz C., to Victor Supply Co. Clinch nut fastener. 2,784,930, 3-12-57, Cl. 248—188.
- Werner, Byron H.: *See—*
- Reid, Robert J., Smith, and Werner. 2,802,802.
- Reid, Robert J., and Werner. 2,802,801.
- Reid, Robert J., and Werner. 2,802,804.
- Werner, Ephraim. Method for scarfing steel. 2,793,969, 5-28-57, Cl. 148—9.5.
- Werner, Frank R., and W. G. Sterzer, to The National Cash Register Co. Re-inking mechanism for cash registers. 2,798,429, 7-9-57, Cl. 101—336.
- Werner, Frank R., C. W. Topper, and K. C. Flint, to The National Cash Register Co. Mechanism to shift record material from printing to reading position. 2,800,854, 7-30-57, Cl. 101—93.
- Werner, Franz, to Jos. Schneider & Co. Optical system with automatic adjustment to preselected diaphragm opening. 2,803,182, 8-20-57, Cl. 95—64.
- Werner, Glenn C.: *See—*
- Hagenlocher, Ernest, and Werner. 2,788,650.
- Hagenlocher, Ernest, and Werner. 2,790,312.
- Werner, Henry H. Concrete slab and embedded duct structure. 2,783,639, 3-5-57, Cl. 72—14.
- Werner, Jesse, R. Steckler, and F. A. Hessel, to General Aniline & Film Corp. Modified phenol-formaldehyde resin compositions and process of sizing glass surface therewith. 2,809,953, 10-15-57, Cl. 260—43.
- Werner, Jesse, R. Steckler, and F. A. Hessel, to General Aniline & Film Corp. Amine-formaldehyde resin compositions modified with vinyl pyrrolidone polymers and process of sizing glass surface therewith. 2,813,844, 11-19-57, Cl. 260—45.2.
- Werner, Leo C., S. A. Lopenski, and N. J. Rainone, to Westinghouse Electric Corp. Silica coating apparatus for incandescent lamp bulbs. 2,806,444, 9-17-57, Cl. 118—49.1.
- Werner, Lincoln H., and C. R. Scholz, to Ciba Pharmaceutical Products, Inc. Organic mercury compounds. 2,790,800, 4-30-57, Cl. 260—242.
- Werner, Lincoln H., and C. R. Scholz, to Ciba Pharmaceutical Products, Inc. Organic mercury compounds. 2,790,812, 4-30-57, Cl. 260—340.6.
- Werner, Lincoln H., and C. R. Scholz, to Ciba Pharmaceutical Products, Inc. Organic mercury compounds. 2,790,816, 4-30-57, Cl. 260—431.
- Werner, Lincoln H., and C. R. Scholz, to Ciba Pharmaceutical Products, Inc. Organic mercury compounds. 2,790,817, 4-30-57, Cl. 260—431.
- Werner, Louis B., B. A. Fries, and G. T. Seaborg. Method of concentrating fissionable material. 2,776,185, 1-1-57, Cl. 23—14.5.
- Werner, Louis B., and O. F. Hill, to the United States of America as represented by the United States Atomic Energy Commission. Metal recovery process. 2,815,265, 12-3-57, Cl. 23—14.5.
- Werner, Otto B. H., to Siemens-Schuckertwerke Aktiengesellschaft. Saturation-controllable reactor devices. 2,786,177, 3-19-57, Cl. 323—66.
- Werner, Palmer J., and A. W. Uhlenkott. Ice cube container and dispenser. 2,804,996, 9-3-57, Cl. 222—108.

- Werner & Pfeleiderer Maschinenfabriken und Ofenbau: *See*—
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- Werner, Ralph M., to Poised Powder Corp. Variable-speed transmission. 2,800,030, 7-23-57, Cl. 74—199.
- Werner, Robert C., to Mine Safety Appliances Co. Alternating current electromotive liquid metal pump. 2,787,219, 4-2-57, Cl. 103—1.
- Werner, Robert C., and S. L. Walters, to Callery Chemical Co. Determination of contamination of liquid metals. 2,782,369, 2-19-57, Cl. 324—65.
- Werner, Robert V.: *See*—
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- Werner, Vernon F. Rear view mirror wiper assembly. 2,814,823, 12-3-57, Cl. 15—250.
- Wernert, Karl. Sealing arrangement for shafts. 2,779,611, 1-29-57, Cl. 286—9.
- Wernig, James H.: *See*—
Makela, Armas G., McClelland, and Wernig. 2,800,676.
- Wernig, James H., to General Motors Corp. Weatherstrip seal for automobile rear compartment. 2,793,070, 5-21-57, Cl. 296—76.
- Wernli, John M.: *See*—
Dolby, Ray M., Fisher, and Wernli. 2,797,263.
- Werntz, James H.: *See*—
Bechtold, Max F., and Werntz. 2,810,162.
- Wernz, Donald E.: *See*—
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- Werstein, Frank A.: *See*—
Dieterich, Richard E., and Werstein. 2,801,614.
- Wert, Edward: *See*—
Williams, Merl A., and Wert. 2,799,097.
- Werth, Carl H. Contour boring and turning machine. 2,814,964, 12-3-57, Cl. 82—2.
- Wertheimer, Jack R., and R. T. Sand. Safety razor. 2,793,432, 5-28-57, Cl. 30—60.5.
- Wertheimer, Jack R., and R. T. Sand. Safety razor having a sectional cap and operating means for said cap. 2,795,846, 6-18-57, Cl. 30—60.5.
- Wertman, David, and F. Warlick. Hydraulic rammer control and drive system. 2,779,246, 1-29-57, Cl. 89—47.
- Werts, Richard A.: *See*—
Haines, Marcus W., Taylor, Werts, and Ford. 2,796,937.
- Wertz, Ellis, to Allis-Chalmers Mfg. Co. Slat control mechanism for cotton harvesters. 2,784,545, 3-12-57, Cl. 56—41.
- Wertz, John L., $\frac{1}{2}$ to R. E. Myers. Articulated toy and spoon for hand feeding an infant. 2,787,055, 4-2-57, Cl. 30—123.
- Wertz, John L., 50% to R. E. Myers. Fishing bobber. 2,817,932, 12-31-57, Cl. 43—43.1.
- Wertz, Louis S., and L. Turzillo, to Intrusion-Prepakt, Inc. Process and apparatus for grouting porous formations. 2,782,605, 2-26-57, Cl. 61—36.
- Wesbecher, Frank. Foldable table with hinged top. 2,791,477, 5-7-57, Cl. 311—80.
- Wesberry, Leon M. Door bolt and lock. 2,787,154, 4-2-57, Cl. 70—118.
- Wesberry, Leon M. Device for packaging groceries and similar articles. 2,808,127, 10-1-57, Cl. 187—19.
- Wescott, John T., 2nd. Rubber thread feeding machine. 2,801,735, 8-6-57, Cl. 203—1.
- Wesix Electric Heater Co.: *See*—
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- Wesloc Screw, Inc.: *See*—
West, Maxwell A. 2,800,829.
West, Maxwell A. 2,800,936.
- Wesp, George L.: *See*—
Sloccombe, Robert J., and Wesp. 2,784,172.
- Wesp, George L., and R. J. Sloccombe, to Monsanto Chemical Co. Stabilized acrylonitrile polymers. 2,813,845, 11-19-57, Cl. 260—45.75.
- Wessel, Carl, to Automation-Engineering Corp. Casting apparatus. 2,785,449, 3-19-57, Cl. 22—79.
- Wessel, Hans. Cleaning nozzles. 2,800,678, 7-30-57, Cl. 15—367.
- Wessel, Hubert L., to Western Electric Co., Inc. Methods of and apparatus for making electrical conductors. 2,805,538, 9-10-57, Cl. 57—11.
- Wessinger, George D., to Sterling Drug Inc. Fluoride-containing dentifrices. 2,818,371, 12-31-57, Cl. 167—93.
- Wessolek, Rudolf, to Koppers Co., Inc. Process for the gasification of a liquid carbonaceous fuel. 2,776,195, 1-1-57, Cl. 48—215.
- Wessolek, Rudolf, to Koppers Co., Inc. Regenerative coke oven battery. 2,777,808, 1-15-57, Cl. 202—139.
- Wesson, Alexander J.: *See*—
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Olpin, Henry C., Wesson, and McGill. 2,802,714.
- Wesson Tool Co.: *See*—
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- West, Albert E. Safety voltage detector. 2,779,919, 1-29-57, Cl. 324—72.5.
- West, Charles E.: *See*—
Booth, John G., Du Bois and West. 2,808,725.
- West, Charles E. Apparatus for measuring the size of circular objects. 2,788,583, 4-16-57, Cl. 33—178.
- West, Charles F., to Soroban Engineering, Inc. Perforated member sensing mechanisms. 2,796,476, 6-18-57, Cl. 200—46.
- West, Charles F., J. E. De Turk, and J. H. MacNeill, to Raytheon Mfg. Co. Apparatus for photoelectrically cataloging digital data on magnetic tape. 2,782,398, 2-19-57, Cl. 340—174.
- West, Charles F., B. K. Smith, and F. R. Dean, to Raytheon Mfg. Co. Pulse stretchers. 2,802,101, 8-6-57, Cl. 250—27.
- West, Charles P., to Westinghouse Electric Corp. Metal-enclosed switchgear. 2,777,024, 1-8-57, Cl. 200—50.
- West, Cutler D., to Polaroid Corp. Electro-optical devices. 2,788,710, 4-16-57, Cl. 88—61.
- West, Cutler D., to Polaroid Corp. Optical products. 2,793,148, 5-21-57, Cl. 154—2.65.
- West, Cutler D., to Polaroid Corp. Electro-optical devices. 2,811,898, 11-5-57, Cl. 88—61.
- West, De Witt H.: *See*—
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- West, De Witt H., D. M. Llewellyn, and R. W. Floyd, to The International Nickel Co., Inc. High frequency cores. 2,812,276, 11-5-57, Cl. 148—31.55.
- West Disinfecting Co.: *See*—
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- West, Donald F.: *See*—
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- West, Eric F. Machines for shearing metal strip into narrower strips. 2,784,783, 3-12-57, Cl. 164—60.
- West, Everett J.: *See*—
Black, William A., and West. 2,788,868.
Black, William A., and West. 2,804,555.
- West, Francis, Jr.: *See*—
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- West, Frank B., and R. T. Milligan, to Shell Development Co. Resolution of aqueous carbonyl-carbinol mixtures. 2,791,550, 5-7-57, Cl. 202—39.5.
- West, Fred W.: *See*—
Smith, Richard A., and West. 2,785,729.
- West, Fred W., to The M. W. Kellogg Co. Cross-linking of polymers of fluoroolefins with amines. 2,793,200, 5-21-57, Cl. 260—87.7.
- West, George, Jr., to The Dayton Rubber Co. Loom picker. 2,786,492, 3-26-57, Cl. 139—159.
- West, George L., to Pittsburgh Plate Glass Co. Adjustable hinge mechanism. 2,781,542, 2-19-57, Cl. 16—129.
- West, George L., A. E. Kunzl, and G. M. Brown, to Pittsburgh Plate Glass Co. Door-operating system. 2,800,323, 7-23-57, Cl. 268—66.
- West, George R.: *See*—
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- West, Howard F.: *See*—
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Veale, John H., and West. 2,806,776.
Veale, John H., and West. 2,806,777.
- West, Howard F., and J. H. Veale, to The Illinois Clay Products Co. Chemically bonded silica brick. 2,802,749, 8-13-57, Cl. 106—69.
- West, Howard F., and J. H. Veale, to Illinois Clay Products Co. Charging ore and the like and its preparation. 2,806,775, 9-17-57, Cl. 75—5.
- West, Howard K., to Dextdale Hosiery Mills. Reinforced knitted fabric. 2,809,510, 10-15-57, Cl. 66—177.
- West, James R., to Sperry Rand Corp. Reversible ratchet drive mechanism. 2,797,795, 7-2-57, Cl. 198—203.
- West, James R., to Sperry Rand Corp. Harvester infeed mechanism. 2,800,217, 7-23-57, Cl. 198—104.
- West, Maurice C. Coin bank. 2,779,128, 1-29-57, Cl. 46—2.
- West, Maxwell A., to Wesloc Screw, Inc. Cruciform recessed screw. 2,800,829, 7-30-57, Cl. 85—45.
- West, Maxwell A., to Wesloc Screw, Inc. Cruciform screw driver. 2,800,936, 7-30-57, Cl. 145—50.
- West, Michael J.: *See*—
Montefalco, Jack M., and West. 2,786,675.
- West, Michael J., to The B. F. Goodrich Co. Registering and control of intermittent web travel in measured lengths. 2,816,710, 12-17-57, Cl. 235—132.
- West, Milton J.: *See*—
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- West, Paul B., and G. C. Anderson, to Saco-Lowell Shops. Drawing mechanisms. 2,813,309, 11-19-57, Cl. 19—165.
- West, Ralph, and K. Meri, to Mohawk Business Machines Corp. Record-playback system for magnetic recording. 2,810,791, 10-22-57, Cl. 179—100.2.
- West, Ralph G., to Electroflo Meters Co. Ltd. Fluid-flow measuring devices. 2,803,962, 8-27-57, Cl. 73—211.
- West, Robert C., G. G. Binder, Jr., and W. A. Freeman, Jr., to Esso Research and Engineering Co. Recovery of uncontaminated cores. 2,812,160, 11-5-57, Cl. 255—1.4.
- West, Robert L. Golf tee. 2,815,953, 12-10-57, Cl. 273—33.
- West, Russell A.: *See*—
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- West, Theo J.: *See*—
Pye, David J., West, Craven, and Patterson. 2,809,943.
- West, Thomas F., Jr. Assembled knocked down chair. 2,792,877, 5-21-57, Cl. 155—196.
- West, Walter D., and R. Karney. Photographic cameras. 2,788,723, 4-16-57, Cl. 95—18.
- West, Wilfred H.: *See*—
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- West, William E., Jr.: *See*—
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- Westbeck, Gunnar A. E. G.: *See*—
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- West Bend Aluminum Co.: *See*—
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Pike, Kenneth R. 2,816,571.
- Westberg, Johan B.: *See*—
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- Westbrook, Lowell V., to Barber-Colman Co. Control apparatus. 2,817,758, 12-24-57, Cl. 250-27.
- Westbrook, Nathaniel A. Hydraulic reversing mechanism. 2,809,613, 10-15-57, Cl. 121-150.
- Westbrook, Thomas W.: *See*—
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- Westbury, Roy: *See*—
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- Westby, George C., to Key Metals Corp. Chemical and electrochemical extraction of chromium from its ores. 2,803,594, 8-20-57, Cl. 204-105.
- Westby, Thor H. Hot dip coating apparatus. 2,817,312, 12-24-57, Cl. 118-122.
- West Canadian Collieries, Ltd.: *See*—
Morrison, Robert L. 2,808,213.
- Westcott, Franklin H., to Walker Laboratories, Inc. Body deodorant for internal use. 2,794,762, 6-4-57, Cl. 167-55.
- Westcott, Vernon C., S. B. Williams, and W. J. Haywood, Jr., to Trans-Sonics, Inc. Pressure measuring device. 2,800,796, 7-30-57, Cl. 73-398.
- Westcott, William B., Jr., to Fairchild Engine and Airplane Corp. Retractable aircraft landing gear. 2,811,326, 10-29-57, Cl. 244-102.
- Westcott, William B., Jr., and W. A. Gail, to The Cleveland Pneumatic Tool Co. Lock mechanism for fluid motors. 2,811,136, 10-29-57, Cl. 121-40.
- Westdahl, Sven A. Trolling float. 2,798,331, 7-9-57, Cl. 43-43.13.
- Wester, Ingvar D. Tamping stick. 2,787,933, 4-9-57, Cl. 86-21.
- Westerlund, Paul H.: *See*—
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- Western Brass Works: *See*—
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- Western Electric Co., Inc.: *See*—
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Banzhof, William S., Jr. 2,777,162.
Banzhof, William S., Jr. 2,796,041.
Barth, Eugene I. 2,796,360.
Beisinger, Clarence L., and Jurnak. 2,790,499.
Bennett, Wesley F., and Yeich. 2,786,389.
Birchler, Robert O. 2,802,605.
Birchler, Robert O. 2,809,271.
Birchler, Robert O., and Fedor. 2,776,781.
Birchler, Robert O., and Larsen. 2,790,359.
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Bouwman, Bert J., and Gellatly. 2,813,374.
Boynnton, Wentworth D., and Mueller. 2,810,951.
Brauer, William F. 2,805,310.
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Broughton, William W., Clifford, Friis, and May. 2,812,585.
Brown, Raymond W. 2,776,561.
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Brown, Walter C. 2,812,676.
Bunch, Tillman T. 2,802,337.
Cheshko, Anatoly. 2,810,436.
Christoffel, Frank A. 2,779,094.
Clemons, Dale R. 2,790,607.
Clough, Robert C., Dvorak, and Stuhlfauth. 2,801,328.
Coder, Fred T., and Schaufelberger. 2,787,303.
Danek, Joseph R. 2,796,128.
Dazey, Russell L., and Solecki. 2,813,614.
Drom, Edwin L. 2,813,502.
Dumas, Edward E. 2,796,907.
Eger, Edward F. 2,796,710.
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Flowers, Alfred A. 2,804,365.
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Frulish, Howard J. 2,797,171.
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From, Charles A., Jr. 2,800,811.
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- Western Electric Co., Inc.: *See*—Continued
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Garbe, Howard W. 2,778,261.
Gillis, Randall, Larson, and Stine. 2,790,299.
Gorgol, Leonard J., and Liberty. 2,790,647.
Gosmann, Enart. 2,789,194.
Gray, Alvin N. 2,806,130.
Gray, John B., III. 2,796,512.
Gray, John B., III, and Yeich. 2,801,329.
Guthrie, John B., Jr. 2,790,142.
Hafer, Giles P. 2,779,544.
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Hall, Howard S., Long, and Yeich. 2,795,687.
Hancock, William M. 2,808,587.
Hauflmann, Alexander M. 2,812,993.
Hart, Earl. 2,800,722.
Hastings, Charles L. 2,777,990.
Hauck, Leon P., and Scheidt. 2,779,545.
Hauschild, William E., and Solecki. 2,794,535.
Heckman, Edward A., and Tesche. 2,781,590.
Henning, George E. 2,791,803.
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Hubbard, Walter E. 2,798,394.
Hughes, David A. 2,801,316.
Kalbow, Theodore W. 2,787,700.
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Kalbow, Theodore W., and Reichelt. 2,775,819.
Kane, John T. 2,779,221.
Kiemele, John F., and Stewart. 2,797,288.
Kittel, Claude A., and Kulick. 2,789,273.
Lamoureux, Gilbert J. 2,796,965.
Larsen, Einer W. 2,784,598.
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Lazarr, Thaddeus R. L. 2,783,500.
Lerch, Brooke W. 2,811,746.
Lloyd, Stanley M. 2,814,706.
Loughlin, George P., and Walsh. 2,808,095.
Mannisto, Orville H. 2,812,001.
Marcus, Jerome R. 2,797,879.
Marcus, Jerome R., and Radakovich. 2,788,620.
McCarthy, Lawrence A. 2,782,368.
McCoy, Clarence E. 2,812,674.
McDuffee, John K. 2,804,906.
McGraw, George P., Jr. 2,781,983.
Minchenko, George, and Cheplis. 2,789,196.
Mitchell, Gerald A., and Yost. 2,801,387.
Monahan, Jack J. 2,801,965.
Moran, Martin F. 2,808,655.
Nelson, Stanley C. 2,809,070.
Otto, Willard C. 2,796,976.
Paulson, Christian. 2,791,243.
Paulson, Christian. 2,811,813.
Peterson, Charles L. 2,809,027.
Pierce, William A. 2,816,365.
Prymek, Milton C. 2,779,723.
Pugh, Emerson. 2,798,716.
Quinlan, Amos L. 2,759,202.
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Kapke, John T. 2,793,663.
Rayburn, Vincent A. 2,801,057.
Reichelt, Lester O. 2,801,603.
Richards, Alfred V., and Schaufelberger. 2,810,309.
Roach, Charles J. 2,784,966.
Robinson, John A. 2,785,378.
Russell, Alexander G. 2,816,066.
Rutherford, Albert D., Jr. 2,779,696.
Scheidt, Gerald A. 2,783,025.
Schilha, Vincenc. 2,790,495.
Seamans, James O. 2,803,009.
Slechta, Henry C. 2,793,601.
Snorek, Stanley J. 2,783,840.
Soderman, George W. 2,776,008.
Spainhour, Carroll D. 2,779,275.
Stocker, Edward T. 2,784,483.
Stoltz, James F. 2,790,530.
Sudderth, Walter E. 2,807,364.
Swain, Thomas T. 2,782,046.
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Triteline, Charles F. 2,797,715.
Van Nest, Arden L., and Wallberg. 2,795,842.
Vavrinek, Frank B. 2,791,024.
Weitzel, Edward W. 2,805,276.
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Wilburn, Julian E. 2,776,801.
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- Western Engineering Trust: *See*—
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- Western Gold and Platinum Co.: *See*—
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- Western Lithograph Co.: *See*—
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- Western Precipitation Corp.: *See*—
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- Western Progress, Inc.: *See*—
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- Western Star Mill Co., The: *See*—
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Grieselhuber, William. 2,789,730.
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- Western Union Telegraph Co., The: *See*—
Boughtwood, John E. 2,794,854.
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Glaser, Harry W., and Melick. 2,816,161.
Hackenberg, John H., Worthen, and Ridings. 2,785,223.
Hallden, Frederick G., and Zabriskie. 2,816,001.
Haupt, Frank J., and Ramhorst. 2,818,468.
Hill, Archie S., and Zabriskie. 2,805,115.
Miller, William E., and Hallden. 2,789,027.
Ridings, Garvice H., and Hackenberg. 2,806,081.
Steenek, Robert. 2,783,100.
Turner, Frank T. 2,794,856.
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- Westest Technical Corp.: *See*—
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- Westfahl, Jerome C., to The B. F. Goodrich Co. Preparation of dicyano halo-ethane cyclic compounds. 2,788,360, 4-9-57, Cl. 260—465.
- Westfahl, Jerome C., to The B. F. Goodrich Co. Substituted methyl malononitriles. 2,802,019, 8-6-57, Cl. 260—464.
- Westfahl, Jerome C., to The B. F. Goodrich Co. 1,1-dicyano ethyl-substituted active methylene compounds and methods for their preparation. 2,804,469, 8-27-57, Cl. 260—464.
- Westfahl, Jerome C., to The B. F. Goodrich Co. 1,1-dicyano betathioethers and method of preparation. 2,812,345, 11-5-57, Cl. 260—465.
- Westfalenhütte Aktiengesellschaft: *See*—
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- Westfall, Marie S.: *See*—
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- Westfall, Paul J. Four wheel drive tractor. 2,802,539, 8-13-57, Cl. 180—47.
- Westfall, William R., deceased; M. S. Westfall executrix of said W. R. Tool for inserting puncture closing plugs in tubeless tires. 2,804,792, 9-3-57, Cl. 81—15.7.
- Westfield Mfg. Co., The: *See*—
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- Westgard, Max W. Bedding support. 2,803,021, 8-20-57, Cl. 5—319.
- Westgate, Oscar L., to The R. T. French Co. Non-drip controllable-flow bottle and closure. 2,785,841, 3-19-57, Cl. 222—545.
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- Westin, Axel, to The Westin Process Co. Heel protector for shoes. 2,789,375, 4-23-57, Cl. 36—75.
- Westin, Axel E. and S., to Westin Process Co. Method of lubricating tubular workpieces in dies. 2,791,674, 5-7-57, Cl. 219—154.
- Westin, Karl G., to Aktiebolaget Westin & Backlund. Molding machines and a method of manufacturing casting molds. 2,782,472, 2-26-57, Cl. 22—32.
- Westin, Karl G., to Aktiebolaget Westin & Backlund. Molding machine. 2,797,454, 7-2-57, Cl. 22—45.
- Westin Process Co.: *See*—
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- Westin, Sven: *See*—
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- Westling, Carl J., to Vulcan Research Corp. Material handling device. 2,792,954, 5-21-57, Cl. 214—147.
- Westinghouse Air Brake Co.: *See*—
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Bone, Herbert L. 2,779,583.
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Bowman, Spencer. 2,787,456.
Bush, Rankin J. 2,804,353.
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Cook, Earle S. 2,785,932.
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Cotter, George L. 2,796,300.
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Dodd, Arthur E. 2,790,070.
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Doriot, Kenneth E. 2,794,857.
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- Westinghouse Air Brake Co.: *See*—Continued
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Hines, Claude M. 2,789,017.
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Hursh, Charles M. 2,785,295.
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Jados, Walter T. 2,789,020.
Jeffrey, William B., and Von Behren. 2,812,986.
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Koch, Alfred L., Jr. 2,800,645.
Logan, John W., Jr. 2,784,928.
Martin, Paul N. 2,779,908.
Martin, Paul N. 2,800,579.
May, Harry C. 2,804,352.
McClure, Glenn T. 2,802,700.
McClure, Glenn T. 2,802,701.
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McClure, Glenn T., Rush, and Cook. 2,785,933.
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Rush, John W. 2,789,019.
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Sexton, Everett P. 2,802,699.
Shaw, Noble C. 2,805,301.
Sherrick, James W. 2,814,680.
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Staples, Crawford E. 2,783,370.
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Utt, Orval L. 2,808,541.
Weihe, Vernon L. 2,804,615.
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- Westinghouse Brake & Signal Co. Ltd.: *See*—
French, Eric L. 2,802,973.
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Walker, Alec H. B. 2,814,709.
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- Westinghouse-Bremss-Gesellschaft, m. b. H.: *See*—
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Alibert, Eugene F. 2,809,336.
Aldous, George C. 2,810,056.
Allen, Harvey G. 2,799,227.
Alpert, Daniel. 2,808,980.
Antel, Damon C., Ricks, and Colaiaico. 2,795,040.
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Arnott, Edward G. F. 2,780,746.
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Baker, Benjamin F., Aspey, and Frisch. 2,788,191.
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Baker, Rest R. 2,785,354.
Balash, Edward J. 2,798,955.
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Benton, James M. 2,798,969.
Berry, David W. 2,814,349.
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Bock, Ashley P. 2,813,186.
Bogdan, David A. 2,787,457.
Bonatz, Richard T. 2,780,305.
Bonn, Robert P. 2,802,153.
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Book, Herbert W. 2,795,779.
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Boyer, John L., and Albert. 2,806,187.
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Bright, Richard L. 2,780,782.
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Brown, Charles R. 2,784,317.
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 Carlson, Raymond L. 2,803,261.
 Carpenter, Chester P. 2,785,221.
 Carpenter, Walter E. 2,810,660.
 Carter, John C. G. 2,795,649.
 Carter, John C. G. 2,806,184.
 Carter, John M. 2,813,977.
 Casanova, Louis A. 2,798,000.
 Cellerini, Albert R., and Skalka. 2,795,670.
 Ceresa, Myron, and Woehrie. 2,785,117.
 Chabala, Leonard V. 2,785,345.
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 Champney, Guy W. 2,795,280.
 Chauvin, David M. 2,802,064.
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 Christian, Carl A., and Murcek. 2,813,243.
 Clark, Earl K. 2,813,415.
 Cochran, John M. 2,798,996.
 Collins, Howard W. 2,809,303.
 Corteggiano, William L., and Good. 2,812,870.
 Courtney, Arthur W., Jr. 2,811,019.
 Cushing, George B. 2,792,476.
 Dailey, Hampton J., and Knochel. 2,776,473.
 Dailey, Hampton J., and Rapaport. 2,813,216.
 Daines, Geoffrey A., and Hasell. 2,794,563.
 Davis, Robert E. 2,792,317.
 Decker, Richard O. 2,813,247.
 Dickerson, Henry A. 2,817,049.
 Dickinson, Robert C., and Frink. 2,777,035.
 Donahue, James E. 2,787,124.
 Dorfman, Hiller D., and Flick. 2,797,277.
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 Drews, Donald W. 2,788,480.
 Drexler, John J. 2,776,733.
 Duckett, Edward J., and Klotzbaugh. 2,792,493.
 Dunlop, James. 2,792,080.
 Dyer, Lloyd W., and Born. 2,780,788.
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 Dyer, Lloyd W., and Jones. 2,795,766.
 Eames, William F. 2,776,732.
 Eames, William F. 2,795,295.
 Eames, William F. 2,795,297.
 Eames, William F. 2,806,553.
 Eber, Mortimer. 2,794,699.
 Edwards, Andrew W. 2,792,529.
 Edwards, Andrew W. 2,795,671.
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 Egglestone, Robert W. 2,806,195.
 Egglestone, Robert W. 2,813,234.
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 Eitel, William W., Jr., and Bantz. 2,812,687.
 Elbling, Irving N., and Langer. 2,785,192.
 Else, Harry D. 2,780,738.
 Else, Howard M. 2,780,743.
 Eppig, Henry J. 2,783,632.
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 Ernst, Wentworth A., Karnavas, and Bish. 2,808,630.
 Ernst, Wentworth A., Parr, Evans, and Lee. 2,813,047.
 Eskowitz, Irving. 2,816,426.
 Ewing, Clifton H. 2,793,373.
 Ewing, Clifton H. 2,811,316.
 Farr, Kenneth E. 2,777,089.
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 Fickett, Walter A. 2,780,724.
 Fields, Arnold C. 2,789,657.
 Fields, Arnold C. 2,796,948.
 Fields, Arnold C. 2,798,572.
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 Findley, Joseph D., Jr. 2,809,251.
 Florschutz, Fritz E., and Lentjes. 2,790,880.
 Foley, William J. 2,781,641.
 Ford, James G. 2,780,785.
 Foster, Newton C. 2,785,383.
 Foster, Newton C. 2,808,623.
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 Glassburn, William E. 2,792,531.
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 Gugli, Walter B. 2,809,339.
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 Higby, Richard F. 2,777,067.
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 Hooper, Charles K. 2,795,782.
 Horn, Merl E., Tremblay, and Florchutz. 2,813,170.
 Horstman, Clifford C. 2,792,511.
 Horton, William F., Reisman, Decker, and Ramey. 2,792,547.
 Hyde, Merritt A. 2,813,231.
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 Koch, Gustav H. 2,792,512.
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 Large, William E. 2,785,346.
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 Lepppe, Richard M. 2,813,252.
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 Loehr, Robert W. 2,778,929.
 Lopenski, Stanley A., Meister, and Wainio. 2,811,131.
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 Lowry, Lewis R., Jr., and Richards. 2,795,679.
 Ludwig, Howard C. 2,818,353.
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 Montgomery, James P., Jr. 2,788,479.
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 Morgan, Donald C. 2,776,852.
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 Oglesbee, Wendell. 2,792,556.
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 Okress, Ernest C. 2,806,179.
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 Osial, Thaddeus A., and Vogeley. 2,788,497.
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 Rau, Frank J. 2,808,519.
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 Richardson, Earl L. 2,789,656.
 Risacher, Gerard H. 2,813,173.
 Rissler, Lennius R. 2,791,808.
 Rively, Clair M. 2,811,846.
 Rixton, Frederick H. 2,777,091.
 Roberts, Roland W. 2,795,752.
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 Rosenberg, David M., and Blair. 2,801,315.
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 Thomas, Leslie D. 2,799,014.
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 Thorp, Arthur G., II. 2,801,071.
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 Tull, Robert H. 2,794,602.
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 Vaughn, Everett W., and Koerner. 2,801,671.
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 Wallace, James M. 2,777,031.
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 Willard, Robert G. 2,791,882.
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 Westling, Carl J., to Vulcan Research Corp. Truck-mounted material handling device. 2,812,091, 11-5-57, Cl. 214-652.
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- Weston Hydraulics, Ltd.: *See*—
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- Weston, Joseph P., to General Dynamics Corp. Signalling system for a manual cordless type switchboard. 2,790,853, 4-30-57, Cl. 179-27.
- Weston, Lawrence P. Seed and fertilizer tape. 2,812,618, 11-12-57, Cl. 47-56.
- Weston, Pearl: *See*—
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- Weston, Roy, deceased, by P. Weston, executrix, $\frac{1}{2}$ to P. Barkley. Nipple for pressure lubrication. 2,788,088, 4-9-57, Cl. 184-105.
- West Penn Closure Corp.: *See*—
 Allen, Chester S. 2,4338.
- Westphal, Armin W., J. T. Laurie, and B. F. Irwin, to Northrop Aircraft, Inc. Aircraft engine hoist and mounting system. 2,815,184, 12-3-57, Cl. 244-54.
- Westphal, Franz: *See*—
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 Schlichting, Otto, Westphal, Pachaly, and Amann. 2,812,358.
- Westphal, Robert A.: *See*—
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- West Point Mfg. Co.: *See*—
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- Westwood, Thomas, to Joseph Lucas (Industries) Ltd. Automatic metal casting machine. 2,780,855, 2-12-57, Cl. 29-2.
- Wetherald, Robert W.: *See*—
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- Wetherill, John P.: *See*—
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- Wetig, George D. Glare shield for mounting on the cowl of an automobile. 2,813,749, 11-19-57, Cl. 296-97.
- Wetroff, Georges, and I. Raitzyn, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Production of hexachlorocyclopentadiene. 2,795,622, 6-11-57, Cl. 260-648.
- Wetroff, Georges, and G. D'IVacheff, and J. Khaladji, to Organico, S. A. Pyrolysis of ricinoleates. 2,807,633, 9-24-57, Cl. 260-410.9.
- Wetter, Fritz: *See*—
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- Wetterholm, Gustav A.: *See*—
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- Wettstein, Albert, E. Vischer, and C. Meystre, to Ciba Pharmaceutical Products Inc. Manufacture of 21 hydroxy steroids. 2,778,776, 1-22-57, Cl. 195-51.
- Wettstein, Albert, and J. Schmidlin, to Ciba Pharmaceutical Products, Inc. Manufacture of dehydro compounds of the pregnane series. 2,782,211, 2-19-57, Cl. 260-397.3.
- Wettstein, Lee E. Load equalizing trailer hitch. 2,817,542, 12-24-57, Cl. 280-406.
- Wettstein, Walter, A. Renner, and G. Widmer, to Ciba Ltd. Process for the manufacture of benzonitrile. 2,788,361, 4-9-57, Cl. 260-465.
- Wetzel, John W., to General Electric Co. Hydrophobic silicas. 2,802,850, 8-13-57, Cl. 260-448.2.
- Wetzel, Karl, to G. Kromschroder Aktiengesellschaft. Gas meter. 2,815,661, 12-10-57, Cl. 73-273.
- Wetzel, Theodore A., to Kearney & Trecker Corp. Pattern support and adjustable template. 2,777,201, 1-15-57, Cl. 33-23.
- Wetzel, Theodore A., to Kearney & Trecker Corp. Motor speed control. 2,785,365, 3-12-57, Cl. 318-231.
- Wetzel, Theodore A., to Kearney & Trecker Corp. Tracer mechanism. 2,786,396, 3-29-57, Cl. 90-13.5.
- Wetzler, Justin J., to The Englander Co., Inc. Structure for furniture and the like. 2,794,494, 6-4-57, Cl. 155-180.
- Wetzler, Justin J., to The Englander Co., Inc. Structure for furniture and the like. 2,794,495, 6-4-57, Cl. 155-180.
- Wetzler, Justin J., to The Englander Co., Inc. Vertically adjustable hospital bed. 2,807,808, 10-1-57, Cl. 5-63.
- Wex, Hans B. Guard shoe for a vacuum cleaner. 2,798,243, 7-9-57, Cl. 15-246.
- Wexler, Benjamin, and M. C. Collapsible garment form. 2,814,424, 11-26-57, Cl. 223-68.
- Wexler, Mark. Magnetic alignment elements for continuous form typewriters or machines. 2,802,558, 8-13-57, Cl. 197-142.
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- Wexler, Morton. Garment hanger locking device. 2,795,025, 6-11-57, Cl. 24-231.
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- Weyer, Donald E., to Dow Corning Corp. Powdered siloxane resin and process of preparing cellular resin therefrom. 2,803,606, 8-20-57, Cl. 260-2.5.
- Weyerhaeuser Timber Co.: *See*—
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- Weygandt, Paul L.: *See*—
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- Whalen, Elizabeth. Toy bank. Re. 24,355, 9-17-57, Cl. 46-2.
- Whalen, Frank B., to Prior Products, Inc. Auxillary spring for vehicles. 2,791,419, 5-7-57, Cl. 267-45.
- Whalen, Frank B., to Prior Products, Inc. Vehicle train assembly. 2,813,727, 11-19-57, Cl. 280-408.
- Whalen, John N., to F. A. Bronzo. Vehicle spring member. 2,784,963, 3-12-57, Cl. 267-5.
- Whalen, John N., to F. A. Bronzo. Adjustable back for chairs. 2,806,512, 9-17-57, Cl. 155-163.
- Whaley, Arthur G. Hose washer. 2,784,432, 3-12-57, Cl. 15-40.
- Whaley, Fred S.: *See*—
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- Whaley, Harry A. Window means. 2,807,839, 10-1-57, Cl. 20-55.
- Whaley, Randall M.: *See*—
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- Whaley, Thomas H., to The Texas Co. Production of metal oxides. 2,785,049, 3-12-57, Cl. 23-146.
- Whaley, Thomas H., to The Texas Co. Production of hydrogen-nitrogen mixtures. 2,795,559, 6-11-57, Cl. 252-374.
- Whaley, Thomas P.: *See*—
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- Whaley, Thomas P., to Ethyl Corp. Method of producing titanium. 2,777,763, 1-15-57, Cl. 75-84.
- Whaley, William. Conveyor type loading machines. 2,788,076, 4-9-57, Cl. 180-6.7.
- Whaley, William. Mine transfer cars. 2,804,220, 8-27-57, Cl. 214-83.36.
- Whaley, William E. Mobile signs. 2,812,605, 11-12-57, Cl. 40-129.
- Whall, Richard E.: *See*—
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- Whalley, George W.: *See*—
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- Wharton, Armistead, to General Dynamics Corp. Pulsing timer. 2,814,683, 11-26-57, Cl. 200-38.
- Wharton, Armistead, and R. R. Dever, to General Dynamics Corp. Feeding, cutting, and stacking strip material. 2,780,288, 2-5-57, Cl. 164-49.
- Wharton, Richard H., to The Standard Register Co. Method of making a transfer. 2,790,742, 4-30-57, Cl. 154-121.
- Wharton, William. Tractor vehicles with trailers. 2,815,223, 12-3-57, Cl. 280-406.
- Whatley, Marvin E.: *See*—
 Bridger, Grover L., Whatley, and Shaw. 2,815,262.
- Wheaton, Edward G. Hot-dog broiler for cooking hot-dogs over an open fire. 2,804,819, 9-3-57, Cl. 99-441.
- Wheatley, Denis, to C. A. V. Ltd. Means for actuating road vehicle direction indicators of the flashing type. 2,790,934, 4-30-57, Cl. 315-77.
- Wheatley, Edward W.: *See*—
 Downing, John, Fisher, and Wheatley. 2,780,571.
- Wheatley, Edward W., A. Hodge, and J. W. Fisher, to British Celanese Ltd. Production and use of solutions of acrylonitrile polymers. 2,806,010, 9-10-57, Cl. 260-29.6.
- Wheatley, John B.: *See*—
 Gaubatz, Arthur W., Prachar, Wheatley, and Zimmerman. 2,809,503.
- Wheatley, John B., to General Motors Corp. Gas turbine engine with hydraulic thrust balancing. 2,779,531, 1-29-57, Cl. 230-116.
- Wheatley, John B., to General Motors Corp. Turbine bearing lubrication system. 2,804,280, 8-27-57, Cl. 253-39.15.
- Wheatley, John B., O. P. Prachar, A. W. Gaubatz, and D. G. Zimmerman, to General Motors Corp. Power plant cooling and thrust balancing systems. 2,791,091, 5-7-57, Cl. 60-39.66.
- Wheatley, John B., and D. G. Zimmerman, to General Motors Corp. Means for cooling stator vane assemblies. 2,793,832, 5-28-57, Cl. 253-39.1.

- Wheatley, John B., A. W. Gaubatz, and F. R. Short, to General Motors Corp. Compressor inlet de-icing. 2,800,273, 7-23-57, Cl. 230-132.
- Wheatley, Marjorie F.: *See*—
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- Wheatley, Samuel E., and K. L. Baker, to the United States of America as represented by the Secretary of the Navy. Firing device for a point detonating fuze. 2,812,714, 11-12-57, Cl. 102-80.
- Wheatley, William B., to Bristol Laboratories Inc. New amine salts of penicillin. 2,814,621, 11-26-57, Cl. 260-239.
- Wheaton Brass Works: *See*—
Krone, Howard C., and Meyer. 2,795,391.
- Wheaton, Henry H., and C. K. Czermak. Centripetal type turbine. 2,803,430, 8-20-57, Cl. 253-55.
- Wheaton, Jack M., to Owens-Illinois Glass Co. Container closure fitment. 2,789,719, 4-23-57, Cl. 215-56.
- Wheaton, T. C., Co.: *See*—
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- Wheaton, Wilbur T.: *See*—
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- Wheeldeck Mfg. Co., Inc.: *See*—
Scholfeld, Richard P. 2,778,454.
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- Wheeler, Blakeslee G.: *See*—
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- Wheeler, Bryce A.: *See*—
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- Wheeler, Bryce A., to Hughes Aircraft Co. Cross-spring flexure pivot. 2,793,028, 5-21-57, Cl. 267-1.
- Wheeler, C. H., Mfg. Co.: *See*—
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- Wheeler, Charles H.: *See*—
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- Wheeler, Charles J. Apparatus for severing cast iron pipe and the like. 2,793,433, 5-28-57, Cl. 30-92.
- Wheeler, Charles J. Apparatus for severing cast iron pipe and the like. 2,798,288, 7-9-57, Cl. 30-100.
- Wheeler, Donald D.: *See*—
Ikenberry, Ernest A., Kundiger, and Wheeler. 2,777,876.
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Kundiger, Donald G., and Wheeler. 2,802,875.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalides. 2,802,818, 8-13-57, Cl. 260-152.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalides. 2,802,830, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-(4-methylphenoxy)phthalide. 2,802,831, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-(4-chlorophenoxy)phthalide. 2,802,832, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Dipthalides. 2,802,833, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-tetrahydrofurfuryloxyphthalide. 2,802,834, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-benzoyloxyphthalide. 2,802,835, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-cyclohexyloxyphthalide. 2,802,836, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-(2-formamidoethoxy)phthalide. 2,802,837, 8-13-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. N,N'-diphthalidylmelamine. 2,804,458, 8-27-57, Cl. 260-249.6.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalides. 2,809,965, 10-15-57, Cl. 260-209.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalides. 2,811,535, 10-29-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Dipthalides. 2,811,536, 10-29-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. N-phthalidyl carbanilates. 2,814,627, 11-26-57, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalides. 2,817,668, 12-24-57, Cl. 260-343.3.
- Wheeler, Edward N., to Celanese Corp. of America. Production of polyenic aldehydes and alcohol. 2,810,761, 10-22-57, Cl. 260-601.
- Wheeler, Edwin F. Adjustable pipe bending tool with separable parts. 2,804,791, 9-3-57, Cl. 81-15.
- Wheeler, George C. Turtle wheel-toy. 2,791,434, 5-7-57, Cl. 280-122.
- Wheeler, George D., and R. Wilson. Oscillating motor. 2,781,462, 2-12-57, Cl. 310-32.
- Wheeler, George R.: *See*—
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- Wheeler, Harold A., to General Motors Corp. Adjustable air outlet grill. 2,790,371, 4-30-57, Cl. 98-40.
- Wheeler, Harry E., and N. L., and C. W. Durieux, to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College. Reproducing process. 2,780,732, 2-5-57, Cl. 250-106.
- Wheeler, Henry H., to International Cigar Machinery Co. Cigar bunch and method and apparatus for making same. 2,775,969, 1-1-57, Cl. 131-14.
- Wheeler, Henry H., to International Cigar Machinery Co. Cigar machine. 2,805,665, 9-10-57, Cl. 131-21.
- Wheeler Insulated Wire Co., Inc. The: *See*—
Thomas, Aldrich R. 2,808,461.
- Wheeler, John A., to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor. 2,782,158, 2-19-57, Cl. 204-193.
- Wheeler, John A., to the United States of America as represented by the United States Atomic Energy Commission. Means for cooling reactors. 2,812,304, 11-5-57, Cl. 204-193.2.
- Wheeler, Leonard K., and A. C. Frost, to Her Majesty's Postmaster General. Electronic regenerative repeater. 2,816,956, 12-17-57, Cl. 178-70.
- Wheeler, Leslie F., to United Aircraft Corp. Burner construction. 2,800,768, 7-30-57, Cl. 60-39.74.
- Wheeler, Marcus A.: *See*—
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- Wheeler, Myron S.: *See*—
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- Wheeler, Naomi L.: *See*—
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- Wheeler Reflector Co.: *See*—
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- Wheeler, Sidney W. Pruning saw. 2,817,899, 12-31-57, Cl. 30-166.
- Wheeler, Warren G.: *See*—
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- Wheeler, Warren R. Adjustable choke. 2,807,903, 10-1-57, Cl. 42-79.
- Wheeler, Will L., to North American Aviation, Inc. Aircraft fuel pump and tank arrangement. 2,792,192, 5-14-57, Cl. 244-135.
- Wheeler, William R.: *See*—
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- Wheeler, William R., to Sylvania Electric Products Inc. Strut cathode support. 2,808,529, 10-1-57, Cl. 313-289.
- Wheeler, William R., to Sylvania Electric Products Inc. Ceramic frame grid. 2,818,522, 12-31-57, Cl. 313-268.
- Wheelhouse, Walter W.: *See*—
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- Wheeling Steel Corp.: *See*—
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- Wheelock, George L.: *See*—
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- Wheelock, George L., and G. P. Ferrini, to The B. F. Goodrich Co. Aqueous interpolymers dispersions and nonblocking films therefrom. 2,791,571, 5-7-57, Cl. 260-29.7.
- Wheelock, Lewis T., to International Business Machines Corp. Electronic verifier. 2,788,663, 4-16-57, Cl. 73-156.
- Wheelock, Silas M.: *See*—
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- Wheelwright, Earl J.: *See*—
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- Whelan, John M., Jr., to Union Carbide and Carbon Corp. Production of dihydroxy diphenyl alkanes. 2,792,429, 5-14-57, Cl. 260-619.
- Wheland Co., The: *See*—
McColl, Allan C., and Ramsey. 2,800,225.
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- Whelen, Myron S.: *See*—
Perkins, Melvin A., and Whelen. 2,782,207.
- Whelen, Myron S., to E. I. du Pont de Nemours and Co. Production of copper-phthalocyanine precursor. 2,795,586, 6-11-57, Cl. 260-314.5.
- Whelton, John M., to United States Machinery Corp. Inseam trimming machines. Re. 24,344, 8-6-57, Cl. 12-4.3.
- Wherry, C. A.: *See*—
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- Wherry, Clyde W. Knee action mounting. 2,788,965, 4-16-57, Cl. 267-20.
- Wherry, Donald M. Highly selective keying circuit. 2,786,138, 3-19-57, Cl. 250-36.
- Whetstone, Richard R.: *See*—
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- Whetstone, Richard R., and A. R. Stiles, to Shell Development Co. Carbamylalkenyl phosphorus-containing esters. 2,802,855, 8-13-57, Cl. 260-461.
- Whiffen and Sons Ltd.: *See*—
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- Whillock, Arthur F., and F. E. Williams, to Hall Telephone Accessories Ltd. Apparatus for stacking letters and like articles. 2,778,638, 1-22-57, Cl. 271-87.
- Whipple, Edson L. Electrically-controlled safety lock. 2,806,729, 9-17-57, Cl. 292-336.3.
- Whipple, Edson L. Vehicle door safety lock. 2,815,085, 12-3-57, Cl. 180-82.
- Whirl-Air-Flow Corp.: *See*—
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- Whirlpool Corp.: See—
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 Baillif, Ernest A. 2,797,553.
 Burris, Frank H. 2,775,883.
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 Morrison, Harold E. 2,800,176.
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- Whisler, Forrest B.: See—
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- Whisler, Norris H.: See—
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- Whisler, Ralph H., Jr., to The Gabriel Co. Shock absorber. 2,788,092, 4-9-57, Cl. 188-88.
- Whistler, Charles C., Jr., to General Motors Corp. Heat exchanger. 2,792,201, 5-14-57, Cl. 257-255.
- Whiston, Earl R., and H. E. Smith, to American Cyanamid Co. Process of isolation of choline salts. 2,803,651, 8-20-57, Cl. 260-501.
- Whitacre, Donald D. Mold plug. 2,798,268, 7-9-57, Cl. 22-148.
- Whitacre, John D. Ice fishing signal device. 2,786,294, 3-26-57, Cl. 43-17.
- Whitacre, John R.: See—
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- Whitaker, Arthur C.: See—
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- Whitaker, Arthur C., to Gulf Research & Development Co. Oxidation of aldehydes. 2,779,808, 1-29-57, Cl. 260-676.
- Whitaker, Jesse L. Indicator for dairy delivery service. 2,776,638, 1-8-57, Cl. 116-130.
- Whitaker, Paul, to Stewarts & Lloyds Ltd. Method and apparatus for continuously casting metal bars, billets, or the like. 2,799,065, 7-16-57, Cl. 22-57.2.
- Whitby, Harvie W., to Sprague Electric Co. Low temperature motor starting arrangement. 2,786,172, 3-19-57, Cl. 318-221.
- Whitby, Kenneth T., to Pillsbury Mills, Inc. Apparatus for determining the particle size distribution of finely divided materials. 2,817,970, 12-31-57, Cl. 73-432.
- Whitby, Lawrence, and H. A. Robinson, to The Dow Chemical Co. Dry cell battery. 2,806,078, 9-10-57, Cl. 136-133.
- Whitco Hardware Mfg. Co. Pty Ltd.: See—
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- Whitcroft, John, to The British Thomson-Houston Co. Ltd. Circuit arrangement for dynamo-electric machines having a rotating contact surface. 2,800,598, 7-23-57, Cl. 310-220.
- Whitcroft, Robert J.: See—
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- Whitcroft, Robert J., N. F. Hinton, and F. A. Claridge, to Stanton Instruments Ltd. Servo control for automatic weight loading. 2,812,172, 11-5-57, Cl. 265-48.
- White, Albert R. Combined quick-coupler and hollow core for an oil-refining pack. 2,778,502, 1-22-57, Cl. 210-170.
- White, Albert R. Quick-couplers for securing oil-refining elements in housings. 2,778,503, 1-22-57, Cl. 210-170.
- White, Alton T. Preserving textiles and leather. 2,786,010, 3-19-57, Cl. 167-38.7.
- White, Amanda L. Fitted hanger for garments. 2,782,968, 2-26-57, Cl. 223-92.
- White, Amanda L. Jumping rabbit and egg pull game. 2,792,224, 5-14-57, Cl. 273-1.
- White, Andrew R.: See—
 Herreshoff, Alexander G., White, and Wagner. 2,813,491.
- White, Arthur W. Dust laden air separator. 2,818,135, 12-31-57, Cl. 183-26.
- White, Ben M.: See—
 White, Ben W., B. M., and J. H. 2,782,467.
 White, Ben W., B. M., and J. H. Friction window support. 2,782,467, 2-26-57, Cl. 20-52.4.
- White, Carroll T. Cross-polarized lighting technique for improving operation of cathode-ray tube displays. 2,793,361, 5-21-57, Cl. 340-369.
- White, Charles B. Venetian blind and mechanisms useful therein. 2,794,499, 6-4-57, Cl. 160-115.
- White, Charles H. Invalid lift for automobiles. 2,792,951, 5-21-57, Cl. 214-75.
- White, Charles F., to Evans Medical Supplies Ltd. Method and apparatus for the production of coated tablets. 2,795,199, 6-11-57, Cl. 107-1.
- White, Charles S. Low friction fabric material. 2,804,886, 9-3-57, Cl. 139-420.
- White, Charles S., and A. F. Garbarino, to Lewis-Shepard Co. Pallets. 2,817,485, 12-24-57, Cl. 248-120.
- White, Charles W.: See—
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- White, Claude. Pipe clamp. 2,817,556, 12-24-57, Cl. 294-116.
- White, Curtis H. Tire chain applying tool. 2,795,157, 6-11-57, Cl. 81-15.8.
- White, Dale, to Westinghouse Electric Corp. Tap changers. 2,785,242, 3-12-57, Cl. 200-18.
- White Development Corp.: The: See—
 White, John U. 2,797,609.
- White, Donald C. Cab cooling unit. 2,802,348, 8-13-57, Cl. 62-140.
- White, Donald W., Jr., to the United States of America as represented by the United States Atomic Energy Commission. Heat treated uranium alloy and method of preparing same. 2,789,072, 4-16-57, Cl. 148-13.
- White, Eldridge S., to Robbins Tire and Rubber Co., Inc. Liner sleeve for tire retreading mold. 2,791,805, 5-14-57, Cl. 18-18.
- White, Ellis R., to Shell Development Co. Diperoxides. 2,813,127, 11-12-57, Cl. 260-610.
- White, Eric L. C.: See—
 Bruce, John, Huntley, and White. 2,785,304.
- White, Eric L. C., to Electric & Musical Industries Ltd. Circuits for the re-insertion of the direct current component in electric signals. 2,785,222, 3-12-57, Cl. 178-7.1.
- White, Eric L. C., to Electric & Musical Industries Ltd. Valve chain circuits. 2,802,104, 8-6-57, Cl. 250-27.
- White, Eugene B. Apparatus for expanding finely divided particles of obsidian-like material. 2,810,810, 10-22-57, Cl. 219-10.65.
- White, Eugene T., Jr.: See—
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- White, Ezra L., to Rock of Ages Corp. Ornamentation. Re. 2,436,0, 9-24-57, Cl. 41-34.
- White, Francis B., and A. G. Parker, to Foster Wheeler Corp. Distilling apparatus. 2,776,938, 1-8-57, Cl. 202-173.
- White, Frank H. Pipe bender. 2,780,121, 2-5-57, Cl. 81-15.
- White, Frank L.: See—
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- White, Fred E., to A. A. and F. T. Tellier. Fishhook extractor. 2,779,123, 1-29-57, Cl. 43-53.5.
- White, Frederick L., to P. R. Mallory & Co., Inc. Reed damped vibrator arm mechanism. 2,785,248, 3-12-57, Cl. 200-90.
- White, Fredrick L., and P. I. Fettinger, to P. R. Mallory & Co., Inc. Flared contact structure. 2,797,283, 6-25-57, Cl. 200-166.
- White, George F. Concrete form tie. 2,794,234, 6-4-57, Cl. 25-131.
- White, George L. Illuminated display device. 2,798,939, 7-9-57, Cl. 240-10.1.
- White, Gerald: See—
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- White, Gerard D., to Natser Corp. Merchandise package. 2,801,744, 8-6-57, Cl. 206-79.
- White, Gifford E., to Statham Laboratories, Inc. Vibrometers. 2,789,192, 4-16-57, Cl. 201-63.
- White, Gifford E., and D. S. Pensyl, to The Sperry Rand Corp. Control systems. 2,784,402, 3-5-57, Cl. 343-117.
- White, Halbert C., and D. V. Wysong, to The Dow Chemical Co. Method of making serine. 2,783,274, 2-26-57, Cl. 260-534.
- White, Harold D., and R. M. Childs, dedicated to the public. Dump basket. 2,801,126, 7-30-57, Cl. 294-71.
- White, Harry. Vent pipe support apparatus. 2,816,726, 12-17-57, Cl. 248-57.
- White, Harry J.: See—
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- White, Henry G. R., to the United States of America as represented by the Secretary of the Navy. Thermal erecting device for gyroscopes. 2,789,436, 4-23-57, Cl. 74-5.44.
- White, Howard T. Motor driven pumps. 2,782,721, 2-26-57, Cl. 103-87.

- White, Howard T. Motor driven pumps. 2,796,835, 6-25-57, Cl. 103-87.
- White, Howard T. Motor driven pump. 2,810,348, 10-22-57, Cl. 103-87.
- White, Jack M., to ACF Industries, Inc. Carburetor fuel inlet valve. 2,801,645, 8-6-57, Cl. 137-411.
- White, Jack M., and A. C. Korte, to ACF Industries, Inc. Fuel injection system. 2,813,523, 11-19-57, Cl. 123-119.
- White, James C. Nursing nipple. 2,803,251, 8-20-57, Cl. 128-252.
- White, James T. Clearer roll. 2,787,026, 4-2-57, Cl. 19-140.
- White, Joe, to General Motors Corp. Electro-magnetic diaphragm horn and circuit breaker therefor. 2,803,004, 8-13-57, Cl. 340-388.
- White, John B. Tool and die indicator. 2,787,836, 4-9-57, Cl. 33-172.
- White, John C. Revolving holder for tooth paste and tooth brushes. 2,788,130, 4-9-57, Cl. 211-65.
- White, John E., to the United States of America as represented by the Secretary of Commerce. Long-life gas-filled tubes. 2,793,314, 5-21-57, Cl. 313-218.
- White, John F., to Monsanto Chemical Co. Alumina aerogel and process of preparing same. 2,816,079, 12-10-57, Cl. 252-317.
- White, John F., and D. A. Williams, to Monsanto Chemical Co. Alumina sols and gels and process of producing same. 2,798,049, 7-2-57, Cl. 252-313.
- White, John F., and W. S. Wilson, to Monsanto Chemical Co. Methods of preparing hydrogels and aerogels. 2,807,588, 9-24-57, Cl. 252-317.
- White, John U. Optical system providing a long optical path. 2,779,230, 1-29-57, Cl. 88-1.
- White, John U., to The White Development Corp. Apparatus for correcting for image curvature in monochromators. 2,797,609, 7-2-57, Cl. 88-14.
- White, John W., to Technical Oil Tool Corp. Magazine type wound clip applicator. 2,789,288, 4-23-57, Cl. 1-49.1.
- White, Johnny H.: *See*—
White, Ben W., B. M., and J. H. 2,782,467.
- White, Joseph, to Westinghouse Brake & Signal Co. Ltd. Liquid filled dash pot device. 2,791,298, 5-7-57, Cl. 188-98.
- White, Joseph E.: *See*—
Withers, Raymond A. Re. 24,409.
- White, Joseph F.: *See*—
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- White, Joseph F. Bearing mounting device. 2,789,871, 4-23-57, Cl. 308-189.
- White Laboratories, Inc.: *See*—
Markus, Richard L. 2,810,716.
- White, Le Roy A.: *See*—
Hartman, Albert M., and White. 2,812,440.
- White, Milton G., to the United States of America as represented by the Secretary of the Navy. Magnetron pulsing control circuit. 2,777,954, 1-15-57, Cl. 250-36.
- White Motor Co., The: *See*—
Baster, Forest S. 2,784,705.
Baster, Forest S. 2,791,286.
- White, Norman O., to Now Industries, Inc. Filter. 2,793,709, 5-28-57, Cl. 183-26.
- White, Norman W. Pneumatic tent structure. 2,782,794, 2-26-57, Cl. 135-1.
- White, Paul B., to United States Steel Corp. Process of fabricating coated steel products. 2,814,578, 11-26-57, Cl. 148-12.
- White, Paul F., to Furnas Electric Co. Electric switch assembly. 2,814,681, 11-26-57, Cl. 200-16.
- White, Paul V., and G. N. Everest, to The Okonite Co. Electric power cables of the solid type. 2,781,285, 2-12-57, Cl. 154-221.
- White, Philip G., to American Scientific Laboratories, Inc. Stable concentrated sulfaquinoxaline solutions and method for preparing. 2,783,178, 2-26-57, Cl. 167-53.1.
- White, Ralph J. Beach cabana. 2,818,078, 12-31-57, Cl. 135-1.
- White, Rex V. Automobile evaporator cooler. 2,786,406, 3-26-57, Cl. 98-2.
- White, Richard B., to Kent-Moore Organization, Inc. Bolt-holding wrench with rotation counting means. 2,790,343, 4-30-57, Cl. 81-55.
- White, Robert C.: *See*—
Jones, Harry H., and White. Re. 24,281.
- White, Robert C., to Bendix Aviation Corp. Spark gap semi-conductors. 2,806,005, 9-10-57, Cl. 252-516.
- White, Robert C., and U. A. Martin. Pitch changing attachment for stringed musical instruments. 2,781,685, 2-19-57, Cl. 84-312.
- White, Robert E.: *See*—
Funk, William H., Snyder, and White. 2,797,899.
- White, Robert L. Woven belt constructions. 2,781,062, 2-12-57, Cl. 139-425.
- White, Roby B.: *See*—
Altfillich, Michael D., Powers, and White. 2,813,423.
- White-Rodgers Co.: *See*—
Lutz, Charles H., Durrett, Posta, and Sasel. 2,817,395.
- White, Roger E., to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,794,144, 5-28-57, Cl. 315-3.5.
- White, Roger L., to The Lawrence Paper Co. Container. 2,809,775, 10-15-57, Cl. 229-34.
- White, Roland J.: *See*—
Norton, David A., and White. 2,813,689.
- White, Roland J., to Boeing Airplane Co. Aircraft control surface boost arrangements. 2,787,429, 4-2-57, Cl. 244-82.
- White, Roy L., to Phillips Petroleum Co. Flood type gas scrubber. 2,817,689, 12-24-57, Cl. 260-677.
- White, S. S., Dental Mfg. Co.: *See*—
Uhler, Wilmer P. 2,813,337.
Uhler, Wilmer P. 2,817,545.
- White Sewing Machine Corp.: *See*—
Ayres, Waldemar A. 2,781,011.
Ayres, Waldemar A. 2,802,437.
Ayres, Waldemar A. 2,802,710.
Ayres, Waldemar A. 2,808,793.
Ayres, Waldemar A. 2,808,794.
Ayres, Waldemar A. 2,808,797.
Ayres, Waldemar A. 2,818,039.
Barrett, Ralph A. 2,800,009.
- Whitgrove, Nathaniel E. Re. 24,308.
- Whitgrove, Nathaniel E. 2,802,438.
- White, Stanley B. Propagation recording system. 2,776,365, 1-1-57, Cl. 250-2.
- White, Walter L., and J. O. Hill. Filter adapter for aerial camera stereo cone. 2,817,273, 12-24-57, Cl. 95-12.5.
- White, Walter R., and G. F. Nadeau, to Eastman Kodak Co. Roller coating apparatus. 2,775,954, 1-1-57, Cl. 118-258.
- White, Wilfred A. S., to Imperial Chemical Industries Ltd. High speed process for desizing and bleaching cotton goods. 2,790,699, 4-30-57, Cl. 8-139.1.
- White, Wilfred A. S., to Imperial Chemical Industries Ltd. Process of bleaching and desizing cotton gray goods with organic solvent degreasing and dewaxing and peroxygen bleaching. 2,803,517, 8-20-57, Cl. 8-111.
- White, William C., to General Electric Co. Electrical vapor detector. 2,806,991, 9-17-57, Cl. 324-33.
- White, William E., to Bethlehem Steel Co. Hinged welded fabric. 2,787,193, 4-2-57, Cl. 94-8.
- White, William E. Door check. 2,799,888, 7-23-57, Cl. 16-82.
- White, William E., and J. R. Clark, to said J. R. Clark and T. Somerville, III. Brick cage. 2,781,901, 2-19-57, Cl. 206-65.
- White, William M., and R. A. Fox, to Eastman Kodak Co. Automatic contact printer. 2,780,153, 2-5-57, Cl. 95-73.
- White, William P. Interlocking metal weather stripping for jalousie windows. 2,796,640, 6-25-57, Cl. 20-62.
- Whitcar, Alten E.: *See*—
Bartlett, Richard J., and Whitcar. 2,807,289.
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- White Castle System, Inc.: *See*—
Lenherr, Chester P. 2,781,732.
- Whitefield, Harry: *See*—
Barbiera, Guido, and Whitefield. 2,793,429.
- Whitefield, James H.: *See*—
Smith, Perry M., and Whitefield. 2,792,917.
- Whiteford, Carlton L. Tool handles. 2,808,088, 10-1-57, Cl. 145-61.
- Whiteford, Carlton L. Handle for tools. 2,809,846, 10-15-57, Cl. 279-102.
- Whitehead, Arthur F.: *See*—
Tiano, Dominic W., and Whitehead. 2,808,856.
- Whitehead, Derek J., and J. H. T. Petch, to Magnesium Elektron Ltd. Magnesium base alloys. 2,788,272, 4-9-57, Cl. 75-168.
- Whitehead, Edwin C., to Technicon International, Ltd. Tissue-holder receptacles and method of preparing tissue for microscopic examination. 2,783,180, 2-26-57, Cl. 167-84.5.
- Whitehead, Emily G.: *See*—
Bellato, Frank A. 2,800,904.
- Whitehead, Eric A. N., to Elliott Brothers (London) Ltd. Waveguide magic-tee junctions. 2,801,391, 7-30-57, Cl. 333-11.
- Whitehead & Kales Co.: *See*—
Huebshman, Paul J. 2,778,672.
Stough, Gerald D. 2,780,371.
Stough, Gerald D. 2,808,788.
Stough, Gerald D. 2,808,789.
Stough, Gerald D. 2,817,305.
- Whitehead, Leslie T., to Power Jets (Research and Development) Ltd. Construction of gas turbine plant. 2,803,429, 8-20-57, Cl. 253-39.
- Whitehead, Ned. Tamper revealing identification card. 2,780,015, 2-5-57, Cl. 40-2.2.
- Whitehead, Robert C., Jr.: *See*—
Booth, John G., Newbold, and Whitehead. 2,814,312.
- Whitehead, Ulysses D., and S. B. Oren. Mortar mixer. 2,809,816, 10-15-57, Cl. 259-178.
- Whitehead, William, and L. M. Heming, to Celanese Corp. of America. Process of delustering and then completely saponifying cellulose ester filaments. 2,776,869, 1-8-57, Cl. 8-129.
- Whitehill, Albert J. Hair curling device. 2,781,047, 2-12-57, Cl. 132-40.
- Whitehill, Norris D.: *See*—
Foster, Henry W., Betty, and Whitehill. 2,795,175.
- Whitehorn, Richard M., to Bendix Aviation Corp. Anti-pulling duplexer. 2,782,299, 2-19-57, Cl. 250-13.

- Whitehorn, Richard M., to Bendix Aviation Corp. Continuously rotatable microwave phase shifter. 2,783,439, 2-26-57, Cl. 333-31.
- Whitehorn, Robert M.: *See*—
- Bourns, Marlan E., Harrison, and Whitehorn. 2,811,619. Goepfinger, Edward J., Whitehorn, Bourns, and Harrison. 2,780,776.
- Whitehouse, Irving, M. E. Graham, and W. A. Reed, to Republic Steel Corp. Process of treating iron in gas-pervious form to improve its characteristics. 2,811,433, 10-29-57, Cl. 75-5.
- Whitehouse, Karl C., and H. Z. Lecher, to American Cyanamid Co. Derivatives of 2-naphthylphosphonic acid. 2,799,701, 7-16-57, Cl. 260-500.
- Whitehouse, Zebulon W., O. M. Schulze, and H. F. Fischer, to Republic Steel Corp. Method and apparatus for charging furnaces. 2,812,866, 11-12-57, Cl. 214-29.
- Whitehurst, Joe R., to Ideal Industries, Inc. Sliver-actuated stop motion. 2,811,753, 11-5-57, Cl. 19-166.
- Whiteley, Alfred H., to Whiteley Electrical Radio Co. Ltd. Loudspeaker diaphragms. 2,818,130, 12-31-57, Cl. 181-32. Whiteley Electrical Radio Co. Ltd.: *See*—
- Whiteley, Alfred H. 2,818,130.
- Whiteley, Robert S., to Esso Research and Engineering Co. Methods of making silica-alumina catalysts. 2,785,140, 3-12-57, Cl. 252-455.
- Whiteley, Robert S., C. N. Kimberlin, Jr., and R. E. Schexnailder, Jr., to Esso Research and Engineering Co. Processes for the manufacture of catalysts. 2,809,169, 10-8-57, Cl. 252-448.
- Whitely, Richard L., to Radio Corp. of America. Magnetic switching device. 2,816,278, 12-10-57, Cl. 340-174.
- Whiteman, Donald J., and J. J. Koryn, to Anti-Corrosive Metal Products Co., Inc. Automatic screw machine attachment. 2,783,484, 3-5-57, Cl. 10-8.
- Whitemore, Edward J., and G. S. Baldock, to Ferranti Ltd. Wave guide discharge cells. 2,777,972, 1-15-57, Cl. 315-39.
- Whitenack, Ray M., to International Business Machines Corp. Transistor amplifier clipping circuit. 2,803,758, 8-20-57, Cl. 307-88.5.
- Whitener, Philip C.: *See*—
- Cheney, Gordon H., Russell, and Whitener. 2,813,421.
- Whitener, Philip C., to Boeing Airplane Co. Wind tunnel model supports. 2,795,137, 6-11-57, Cl. 73-147.
- Whitesel, Joseph C., to Mack Molding Co. Inc. Flagged bristle and brush made from same. 2,812,530, 11-12-57, Cl. 15-159.
- Whitesell, Harry. Wheels. 2,781,669, 2-19-57, Cl. 74-230.3.
- Whitesell, John C., to Crance Co. Molded diaphragm mat. 2,805,455, 9-10-57, Cl. 22-42.
- Whitesell, Morris W. Backup means for working on automobile body tops. 2,797,725, 7-2-57, Cl. 153-32.
- Whiteside, George R.: *See*—
- Sorfaen, Chester C., and Whiteside. 2,787,775.
- Whitfield, Augustus C.: *See*—
- Whitfield, Edward C. 2,777,917.
- Whitfield, Edward C., $\frac{1}{2}$ to J. C. Whitfield and $\frac{1}{2}$ to A. C. Whitfield. Safety appliances for mine locomotives. 2,777,917, 1-15-57, Cl. 200-115.5.
- Whitfield, Jean C.: *See*—
- Whitfield, Edward C. 2,777,917.
- Whitfield, John F.: *See*—
- Malone, Cyril A., France, and Whitfield. 2,782,662.
- Whitfield, Joseph E.: *See*—
- English, Alfred C., and Whitfield. 2,805,681.
- Whitfield, Joseph E., to Capitol Products Corp. Pressure relief valve. 2,788,799, 4-16-57, Cl. 137-494.
- Whitfield, Joseph E., to Capitol Products Corp. Method and machine for forming rotors. 2,792,763, 5-21-57, Cl. 90-3.
- Whitfield, Marshall G. Light metal piston with reinforcement, and the like. 2,793,922, 5-28-57, Cl. 309-14.
- Whitfield, Marshall G., to Whitfield & Sheshunoff, Inc. Casting light metal against iron, and article formed thereby. 2,797,460, 7-2-57, Cl. 22-204.
- Whitfield, Marshall G., and W. C. Cheney. Reinforced light metal piston. 2,793,923, 5-28-57, Cl. 309-14.
- Whitfield, Marshall G., and V. Sheshunoff, to Whitfield & Sheshunoff, Inc. Aluminum coated ferrous bodies and processes of making them. 2,800,707, 7-30-57, Cl. 29-197.
- Whitfield & Sheshunoff, Inc.: *See*—
- Whitfield, Marshall G. 2,797,460.
- Whitfield, Marshall G., and Sheshunoff. 2,800,707.
- Whitin Machine Works: *See*—
- Dudley, John S. 2,802,241.
- Snow, Gerald A. 2,794,532.
- Whiting, Carl A., to General Electric Co. Water heater cabinet structure. 2,804,056, 8-27-57, Cl. 122-13.
- Whiting Corp.: *See*—
- Jenkins, William O., and Menardi. 2,778,442.
- Morey, Woodruff A. 2,804,493.
- Whiting, Harold W.: *See*—
- Kauffmann, William M., and Whiting. 2,779,155.
- Whiting, Orion T., Jr.: *See*—
- Saunders, Norman. 2,781,507.
- Whiting, Theo C. Counterbalanced door for cargo carrying vehicle bodies. 2,786,712, 3-26-57, Cl. 296-106.
- Whitley, Charlie L., Sr. Loom feeler mechanism. 2,787,291, 4-2-57, Cl. 139-270.
- Whitley, Charlie L., Sr. Loom feeler mechanism. 2,787,292, 4-2-57, Cl. 139-280.
- Whitley, Robert W.: *See*—
- Alburn, Harvey E., and Whitley. 2,795,529.
- Whitlock Cordage Co.: *See*—
- Vion, George D. 2,785,469.
- Whitlock, Robert A., Jr., to Aquamatic Inc. Pilot controlled fluid pressure operated diaphragm valve. 2,796,886, 6-25-57, Cl. 137-604.
- Whitlock, Robert A., Jr., to Aquamatic Inc. Mixed bed deionizing apparatus. 2,803,347, 8-20-57, Cl. 210-190.
- Whitlock, Robert G., $\frac{1}{2}$ to H. H. Grueter. Stocking washer. 2,786,347, 3-26-57, Cl. 68-213.
- Whitman, Craig L.: *See*—
- Dillon, Thomas P., and Whitman. 2,794,119.
- Whitman, Gerald M.: *See*—
- Graham, Peter J., and Whitman. 2,817,674.
- Whitman, Jess R. Shingle gage for stapler. 2,812,515, 11-5-57, Cl. 1-49.
- Whitman, Lawrence C., to General Electric Co. Vaporization cooled transformers. 2,777,009, 1-8-57, Cl. 174-15.
- Whitman, Warren C. Self-adjusting quadrupedal support for tables and the like. 2,787,087, 4-2-57, Cl. 45-139.
- Whitman, William C.: *See*—
- Beck, James M., Jr., Wheeler, and Whitman. 2,792,713.
- Whitmarsh, Vincent J. Reflecting angle measuring surveying instrument. 2,802,389, 8-13-57, Cl. 88-2.2.
- Whitmire, Blanton J.: *See*—
- Davis, William E., and Whitmire. 2,811,289.
- Whitmire Research Laboratories, Inc.: *See*—
- Davis, William E., and Whitmire. 2,811,289.
- Whitmore, Keith E., to Eastman Kodak Co. Photographic color correction using colored and uncolored couplers. 2,808,329, 10-1-57, Cl. 96-9.
- Whitmore, Ralph D.: *See*—
- Hurd, Yorick G., and Whitmore. 2,800,097.
- Whitney, Arthur C. Tent stake. 2,817,346, 12-24-57, Cl. 135-15.
- Whitney Blake Co.: *See*—
- Judisch, Carl H. 2,804,647.
- Quackenbush, Edward C. 2,779,008.
- Quackenbush, Edward C. 2,801,395.
- Whitney, Byrl A. Rotary disc lawn mower. 2,806,339, 9-17-57, Cl. 56-25.4.
- Whitney Chain Co., The: *See*—
- Grzywna, John A., and Swanson. 2,799,090.
- Swanson, Bror W. 2,782,523.
- Swanson, Bror W. 2,785,476.
- Swanson, Bror W. 2,817,154.
- Whitney, Lewis H. 2,778,094.
- Whitney, Charles A., and W. E. Tinker, to Pratt & Whitney Co. Inc. Pneumatic gage. 2,814,121, 11-26-57, Cl. 33-147.
- Whitney, Donald B., J. H. Wing, and R. E. Haynes, to American Optical Co. Lens testing device. 2,792,748, 5-21-57, Cl. 88-56.
- Whitney, Eugene C., to Westinghouse Electric Corp. Terminal concentric bushing with current transformer. 2,809,358, 10-8-57, Cl. 336-174.
- Whitney, Gordon E.: *See*—
- Haynes, Munro K., Lawrence, and Whitney. 2,800,280.
- Whitney, Gordon E., to International Business Machines Corp. Magnetic control for scale of two devices. Re. 24,358, 9-17-57, Cl. 307-88.
- Whitney, Harold L.: *See*—
- Petersen, Erwin P., and Whitney. 2,781,440.
- Whitney, Harry M.: *See*—
- Hill, Donald, and Whitney. 2,776,906.
- Whitney, Lewis H., to Whitney Chain Co. Manufacture of chain rollers. 2,778,094, 1-22-57, Cl. 29-148.4.
- Whitney, Martin J.: *See*—
- Pool, Stuart D., and Whitney. 2,797,103.
- Whitney, Ralph T., to Westinghouse Air Brake Co. Safety interlock apparatus for anti-wheel slide equipment. 2,800,370, 7-23-57, Cl. 303-21.
- Whitney, Roy P., S.-T. Han, and J. L. Davis, to The Institute of Paper Chemistry. Treatment of spent sulfate liquor. 2,802,791, 8-12-57, Cl. 252-183.
- Whitney, William B., to Phillips Petroleum Co. Oxidation of petroleum. 2,786,803, 3-26-57, Cl. 196-142.
- Whitney, William V. Trailer for transporting and launching boats. 2,808,953, 10-8-57, Cl. 214-505.
- Whitton, Arthur L., and R. J. Byers, to Chicago Mill and Lumber Co. Crate. 2,790,544, 4-30-57, Cl. 206-46.
- Whitton Machine Co., The: *See*—
- Highberg, George A. 2,809,612.
- Whitson, Clare H.: *See*—
- Whitson, John W. 2,798,769.
- Whitson, John W., $\frac{1}{2}$ to C. H. Whitson. Liquid fuel injectors. 2,798,769, 7-9-57, Cl. 299-107.6.
- Whittaker, Norman A. Butchering and skinning devices. 2,773,054, 1-22-57, Cl. 17-1.
- Whittaker, Robert H.: *See*—
- Thompson, John H., and Whittaker. 2,794,948.
- Whitten, Owen M., to Kelsey-Hayes Co. Power brakes with transfer valve. 2,804,178, 8-27-57, Cl. 188-152.
- Whitten, Owen M., to Kelsey-Hayes Co. Booster device. 2,812,639, 11-12-57, Cl. 60-54.6.
- Whittenberg, William C.: *See*—
- Wright, Robert L., and Whittenberg. 2,785,343.

- Whittier, Ellerton W., to The Foxboro Co. Transformer. 2,811,699, 10-29-57, Cl. 336-69.
- Whittier, Sidney B.: *See*—
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- Whittingham, John C.: *See*—
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- Whittingham, Wallace J. Adjustable head rest. 2,804,127, 8-27-57, Cl. 155-177.
- Whittington, William E.: *See*—
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- Whittleton, Reginald T., to Aloxx Corp. Mineral oil composition as lubricant for steam cylinders and marine engines, and additive therefor. 2,814,596, 11-26-57, Cl. 252-55.
- Whittley, Donald C.: *See*—
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- Whittman, Norman M. Means for securing umbrella ribs. 2,796,073, 6-18-57, Cl. 135-28.
- Whitton, John B. Expansion plug. 2,818,120, 12-31-57, Cl. 166-187.
- Whittum, Warren C., to Farrel-Birmingham Co., Inc. Roll-positioning device for mills and calenders. 2,785,021, 3-12-57, Cl. 308-58.
- Wiancko Engineering Co.: *See*—
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- Wiancko, Thomas H. Twist tube pressure gauge. 2,788,665, 4-16-57, Cl. 73-411.
- Wiancko, Thomas H., and R. E. Talmo, to Wiancko Engineering Co. Accelerometer testing system. 2,788,654, 4-16-57, Cl. 73-1.
- Wibault, Michel, to Vibrane Corp. Aircraft with enclosed rotor. 2,807,428, 9-24-57, Cl. 244-23.
- Wibell, Martin: *See*—
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- Wibell, Martin, and R. B. Immel, to Westinghouse Electric Corp. Electric switch. 2,780,690, 2-5-57, Cl. 200-67.
- Wiberg, Eric A., to Telefonaktiebolaget L M Ericsson. Contact spring groups for electromagnetic connecting devices for obtaining a variation of the chronological order for the contact functions of the group. 2,779,843, 1-29-57, Cl. 200-166.
- Wiberg, Eric A., to Telefonaktiebolaget L M Ericsson. Contact spring group in electromagnetic connecting apparatus. 2,782,270, 2-19-57, Cl. 200-1.
- Wiberg, Orjan: *See*—
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- Wible, Paul E., Jr. Motor speed control system. 2,803,793, 8-20-57, Cl. 318-314.
- Wiborg, Eric J., to Pro-Tect-U Jalousie Corp. Weather stripping for louver construction. 2,786,243, 3-26-57, Cl. 20-62.
- Wich, Emil A.: *See*—
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- Wichita Precision Tool Co., Inc.: *See*—
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- Wick, Anne. Puncturing devices. 2,786,528, 3-26-57, Cl. 164-124.
- Wick, Richard M., and R. Schneidewind, to Bethlehem Steel Co. Electrolytic treatment of metal surfaces. 2,780,592, 2-5-57, Cl. 204-56.
- Wick, Robert S.: *See*—
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- Wicke, Alfred F., Jr.: *See*—
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- Wicke, Robert L.: *See*—
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- Wicker, Ronald J.: *See*—
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- Wickerham, Warren E., and O. K. Doolen, to Gulf Research & Development Co. Indicating circuit for flux-valves. 2,809,345, 10-8-57, Cl. 324-43.
- Wickerham, William R., to Westinghouse Electric Corp. Synchro-tie lag compensator. 2,792,543, 5-14-57, Cl. 318-44.
- Wickersham, Roy G., and S. J. Hopps. Heater for testing electronic condensers. 2,785,267, 3-12-57, Cl. 219-21.
- Wickersham, Wilfred H., to Bendix Aviation Corp. Magnetic coupling device. 2,792,093, 5-14-57, Cl. 192-215.
- Wickes, David R. Power-driven hand tool. 2,794,303, 6-4-57, Cl. 51-170.
- Wickesser, Arthur, to The Liquidometer Corp. Moisture proof means for connecting a coaxial cable to a fitting. 2,785,384, 3-12-57, Cl. 339-94.
- Wickett, John A., to Monsanto Chemical Co. Foundry sand compositions and process of making. 2,817,128, 12-24-57, Cl. 22-193.
- Wickham, Henry P.: *See*—
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- Wickland, Nels E. Strainer device. 2,795,334, 6-11-57, Cl. 210-419.
- Wicklander, Anders E. Means for introducing a fluid agent into a tank. 2,776,716, 1-8-57, Cl. 169-4.
- Wicklitz, John E., to Phillips Petroleum Co. Stabilized unsaturate-SO₂ resins containing acrylates. 2,779,749, 1-29-57, Cl. 260-79.3.
- Wicklitz, John E., and T. J. Kennedy, to Phillips Petroleum Co. Synthetic rubber paste latices. 2,776,295, 1-1-57, Cl. 260-29.7.
- Wickliffe, Edward M. Clamp. 2,792,612, 5-21-57, Cl. 24-259.
- Wicklund, Curtis C. Diamond carrier. 2,801,787, 8-6-57, Cl. 229-87.5.
- Wickman, Klas R.: *See*—
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- Wicks, Donald L., to Foley Mfg. Co. Utensil. 2,811,152, 10-29-57, Cl. 126-385.
- Wicks, Lewis G.: *See*—
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- Wickstrom, John A., to Mother's Cake & Cookie Co. Perforated paper cookie conveyor. 2,791,189, 5-7-57, Cl. 107-57.
- Wickstrom, Svante T., to R. E. Craton. Practice piano. 2,788,698, 4-16-57, Cl. 84-408.
- Wiczor, Sol B. Differential. 2,791,132, 5-7-57, Cl. 74-711.
- Wiczor, Sol B. Multiway valve. 2,792,017, 5-14-57, Cl. 137-599.1.
- Widdop, Mary E.: *See*—
Dimmick, Glenn L., and Widdop. 2,782,685.
- Widell, Emil G., to Radio Corp. of America. Core alloy for indirectly heated cathodes. 2,778,970, 1-22-57, Cl. 313-337.
- Wideman, Ewell F. Bleeding valve for air brake cylinders. 2,779,635, 1-29-57, Cl. 303-68.
- Widenhouse, Marvin G.: *See*—
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- Wideröe, Rolf, to Aktiengesellschaft Brown, Boveri & Cie. Electron accelerator for producing roentgen-ray pencils deflectable in space. 2,798,177, 7-2-57, Cl. 313-55.
- Widess, Moses B.: *See*—
Dyk, Karl, and Widess. 2,810,444.
- Widgen, Albert F., to American Machine and Metals, Inc. Ironing machine. 2,795,874, 6-18-57, Cl. 38-55.
- Widiger, Alexander H., Jr., M. L. Aaron, and G. F. Dugan, to The Dow Chemical Co. Method of making trichlorophenols from tetrachlorobenzenes. 2,799,713, 7-16-57, Cl. 260-623.
- Widiger, Alexander H., Jr., M. L. Aaron, and G. F. Dugan, to The Dow Chemical Co. Method of hydrolyzing di- and trichlorobenzenes. 2,799,714, 7-16-57, Cl. 260-623.
- Widiger, Almar T., and F. R. Lennox, to The Dow Chemical Co. Rotary hopper for extruders and the like. 2,799,047, 7-16-57, Cl. 18-12.
- Widmer, Emil: *See*—
Lang, Jules, and Widmer. 2,818,306.
- Widmer, Gustav: *See*—
Gams, Alphonse, Kraus, Preiswerk, Widmer, and Wiedland. 2,786,794.
- Wettstein, Walter, Renner, and Widmer. 2,788,361.
- Widmer, Hans. Tool for making a pipe coupling. 2,805,591, 9-10-57, Cl. 81-15.
- Widrich, Anton. Cigarette holder. 2,776,662, 1-8-57, Cl. 131-175.
- Width, Robert B., to Welding Sales & Engineering Co. Water cooled electric welding assembly. 2,794,900, 6-4-57, Cl. 219-120.
- Wiebe, Albert. X-ray inspection apparatus. 2,813,201, 11-12-57, Cl. 250-53.
- Wiebe, Arthur, to G. Miller. Sprinkler head. 2,793,910, 5-28-57, Cl. 299-60.
- Wieber, Andrew J. Portable foldable enclosure. 2,804,083, 8-27-57, Cl. 135-4.
- Wieczorek, Eugene E., to In-Sink-Erator Mfg. Co. Centrifugal oiling system for garbage disposal unit. 2,814,449, 11-26-57, Cl. 241-46.
- Wiedemann, Erwin, to Saul & Co., as nominee of Fidelity Union Trust Co. Optical arrangement for the reproduction of refractive index gradients. 2,780,955, 2-12-57, Cl. 88-14.
- Wiedemann, Erwin, to Saul & Co., as nominee of Fidelity Union Trust Co. Device for the direct interferometric recording of changes in refractive index gradients. 2,792,743, 5-21-57, Cl. 88-14.
- Wiedemann Machine Co.: *See*—
Wiedemann, Theodore A. 2,807,219.
- Wiedemann, Theodore A., to Wiedemann Machine Co. High speed follower gauge trolley structure. 2,807,219, 9-24-57, Cl. 104-247.
- Wieden, Herbert J., to Union Asbestos & Rubber Co. Generator output reversing switch. 2,778,897, 1-22-57, Cl. 200-61.39.
- Wiedenmeier, George W. Dispensers. 2,782,966, 2-26-57, Cl. 222-455.
- Wiederhold, Gerhard L.: *See*—
Robson, Frederick W., and Wiederhold. 2,782,792.
- Wiediger, Alfred J. Gauging and punching device. 2,812,589, 11-12-57, Cl. 33-197.
- Wiedis, Robert: *See*—
Cuny, Richard P., and Wiedis. 2,776,394.
Flanigen, Cameron D., and Wiedis. 2,811,832.
- Wiedmann, Adolf: *See*—
Seulen, Gerhard, Kuhlbars, Detzel, and Wiedmann. 2,787,566.
- Wiegand, Edwin L., Co.: *See*—
Boggs, Alben C. 2,816,207.
Boggs, Alben C., and Fox. 2,807,696.
Dicome, Herman C. 2,810,815.
Douden, Quentin H. 2,816,205.
Drugmand, Lester D. 2,817,742.
Drugmand, Lester D., and Williams. 2,786,125.
Eckblad, Alvin W. 2,816,206.
McOrlly, Joseph. 2,790,062.

- Wiegand, Francis J., to Curtiss-Wright Corp. Clamp for parts operating at different temperatures. 2,811,331, 10-29-57, Cl. 253-39.
- Wiegand, Frederick W. Selective plugging of oil wells. 2,805,720, 9-10-57, Cl. 166-32.
- Wiegand, John R. Interceptor transformer. 2,798,987, 7-9-57, Cl. 317-123.
- Wiegand, Philip J.: *See*—
Simon, Eli, Thomas, and Wiegand. 2,782,423.
- Wieggers, Irvin E., to Hamilton-Thomas Corp. Double stage valve for pumps or the like. 2,779,290, 1-29-57, Cl. 103-39.
- Wieland, Werner: *See*—
Gams, Alphonse, Kraus, Preiswerk, Widmer, and Wieland. 2,786,794.
- Wielechowski, Jozef, to Lan-Elec Ltd. Food slicing machines. 2,783,804, 3-5-57, Cl. 146-102.
- Wielechowski, Jozef, to Lan-Elec Ltd. Food slicing machines. 2,783,805, 3-5-57, Cl. 146-102.
- Wielicki, Edward A.: *See*—
Lytton, Marion R., Wielicki, and Lewis. 2,776,946.
- Wieman, Robert L., to Commercial Solvents Corp. Preparing chemical dextran. 2,784,143, 3-5-57, Cl. 167-78.
- Wiemer, Kurt F. G. and P. E. A., to Pola-Lux Gesellschaft für Blendschutz und Raumbildprojektion mit beschränkter Haftung. Stereo projection apparatus. 2,811,077, 10-29-57, Cl. 88-16.6.
- Wiemer, Paul E. A.: *See*—
Wiemer, Kurt F. G. and P. E. A. 2,811,077.
- Wienand, Michael, to Dynamit Actien-Gesellschaft vormals Alfred Nobel & Co. Method of producing armoured synthetic plastic tubes. 2,796,797, 6-25-57, Cl. 87-9.
- Wieneke, Frederick L., to Barber-Colman. Reed support for warp handling machines. 2,807,861, 10-1-57, Cl. 28-45.
- Wiens, Jacob H., 30% to R. C. Lawlor. Stereoscopic reconnaissance system. 2,798,115, 7-2-57, Cl. 178-6.5.
- Wiens, Jacob H., 30% to R. C. Lawlor. Aerial survey system. 2,798,116, 7-2-57, Cl. 178-6.7.
- Wier, Bert. Valve coupling. Re. 24,406, 12-17-57, Cl. 284-17.
- Wier, Bert. Valve coupling. 2,799,517, 7-16-57, Cl. 284-17.
- Wier, Thomas P., Jr.: *See*—
Johnston, Robert W. B., and Wier. 2,790,754.
- Wierber, Emil T.: *See*—
Wiese, Herbert F., and Wierber. 2,798,852.
- Wierzbna, Thad. Electrical switch actuated by a sliding door. 2,793,263, 5-21-57, Cl. 200-61.75.
- Wierzbiicki, Alexander, to Dewrance & Co., Ltd. Machining of planar seatings. 2,809,483, 10-15-57, Cl. 51-241.
- Wieschel, John E., to The Heil Co. Tractor cabs. 2,795,458, 6-11-57, Cl. 296-102.
- Wiese, Herbert F., and E. T. Wierber, to The Lubrizol Corp. Oil-soluble metal-containing materials and methods for preparing same. 2,798,852, 7-9-57, Cl. 252-42.7.
- Wiese, Herbert K.: *See*—
Banes, Fred W., Wiese, and Slotterbeck. 2,793,238.
Slotterbeck, Ober C., Wiese, and Hubbard. 2,818,430.
- Wiese, Herbert K., to Esso Research and Engineering Co. Exoisomer of dicyclopentadiene dicarboxylic acid. 2,781,395, 2-12-57, Cl. 260-468.
- Wiese, Herbert K., to Esso Research and Engineering Co. Production of dicyclic olefins and derivatives. 2,810,001, 10-15-57, Cl. 260-666.
- Wiese, Herbert K., and J. H. McAteer, to Esso Research and Engineering Co. Process for preparing polycyclic dibasic acid. 2,781,397, 2-12-57, Cl. 260-514.
- Wiese, Herman, to Atlas-Werke Aktiengesellschaft. Electro acoustic measuring apparatus especially audio meter. 2,802,053, 8-6-57, Cl. 179-1.
- Wiesenhof, Eugene. Fish skinning tool. 2,810,154, 10-22-57, Cl. 17-7.
- Wiesenthal, Walter E. Machine for cleaning grain. 2,793,749, 5-28-57, Cl. 209-315.
- Wiesner, Clarence C.: *See*—
Hosford, William F., and Wiesner. 2,794,459.
- Wiesinger, Frederick C., to Wildman Jacquard Co. Pattern means for knitting machines. 2,814,937, 12-3-57, Cl. 66-50.
- Wiesman, Clarence K., and W. K. Perrin, to Armour and Co. Process of curing bacon and composition therefor. 2,781,271, 2-12-57, Cl. 99-159.
- Wiessner, F. H., Inc.: *See*—
Binette, Thomas J. 2,811,125.
- Wiest, Waldo H., Jr., ½ to Herbert M. Rosenthal. Device for cleaning and polishing magnetic metal surfaces. 2,795,808, 6-18-57, Cl. 15-227.
- Wigert, George W., to American Can Co. Reclosure container. 2,804,232, 8-27-57, Cl. 220-54.
- Wigert, George W., and T. F. Brennan, to American Can Co. Dispensing container. 2,791,359, 5-7-57, Cl. 222-480.
- Wiggin, Lyman J., and H. H. Elder, to Reeves Sound Studios, Inc. Variable gain amplifiers. 2,803,711, 8-20-57, Cl. 179-171.
- Wiggins, John H. Balancing or stabilizing mechanism for vertically movable. 2,778,719, 1-22-57, Cl. 48-176.
- Wiggins, John H. Liquid storage tank and gas holder. 2,785,825, 3-19-57, Cl. 220-85.
- Wiggins, John H. Side wall shoe supporting mechanism for floating tank roofs. 2,790,575, 4-30-57, Cl. 220-26.
- Wiggins, John H. Pontoon type floating tank roof. 2,802,591, 8-13-57, Cl. 220-26.
- Wiggins, John H. Metal storage tank. 2,804,028, 8-27-57, Cl. 108-1.
- Wiggins, John H. Suspension roof structure for storage tanks. 2,805,631, 9-10-57, Cl. 108-1.
- Wiggins, John H. Double deck floating roof. 2,806,625, 9-17-57, Cl. 220-26.
- Wiggins, John H. Automatic emergency drain for floating tank roof. 2,808,958, 10-8-57, Cl. 220-26.
- Wiggins, John H. Method of building metal storage tanks. 2,812,574, 11-12-57, Cl. 29-429.
- Wightman, Lawrence W.: *See*—
Feiertag, Karl M., and Wightman. 2,778,965.
- Wightman, Lawrence W., to General Electric Co. Means for holding parts on a shaft. 2,783,069, 2-26-57, Cl. 287-52.
- Wightman, Lawrence W., to General Electric Co. Sump pump. 2,787,960, 4-9-57, Cl. 103-25.
- Wightman, Perry E.: *See*—
Ellison, Henry H., and Wightman. 2,787,736.
- Wigington, Everett E. Bladed instrument having a sheath. 2,793,434, 5-28-57, Cl. 30-151.
- Wiglesworth, Victor T.: *See*—
Anderson, Elmer G. 2,784,573.
- Wiglesworth, Victor T. Clips for garment hangers. 2,810,172, 10-22-57, Cl. 24-81.
- Wignall, Melvin C. Firing pin for firearms. 2,793,455, 5-28-57, Cl. 42-69.
- Wigner, Eugene P.: *See*—
Creutz, Edward C., Ohlinger, Wigner, and Young. 2,796,398.
- Wigner, Eugene P., to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for the measurement of neutron absorption. 2,781,307, 2-12-57, Cl. 204-193.
- Wigner, Eugene P., to the United States of America as represented by the United States Atomic Energy Commission. Neutronic reactor. 2,806,820, 9-17-57, Cl. 204-193.2.
- Wigner, Eugene P., L. A. Ohlinger, G. J. Young, and A. M. Weinberg, to the United States of America as represented by the United States Atomic Energy Commission. Fluid moderated reactor. 2,810,689, 10-22-57, Cl. 204-193.2.
- Wigner, Eugene P., L. A. Ohlinger, and G. J. Young, to the United States of America as represented by the United States Atomic Energy Commission. Isotope conversion device. 2,815,321, 12-3-57, Cl. 204-193.2.
- Wigton-Abbott Corp.: *See*—
Hendel, Frank J. 2,786,084.
Sowerwine, Elbert O., Jr. 2,776,244.
Sowerwine, Elbert O., Jr. 2,776,245.
- Wike, Ralph A. Convertible vehicle. 2,800,086, 7-23-57, Cl. 105-159.
- Wikle, George F., and P. Phillips, to United States Rubber Co. Tire trimming apparatus. 2,815,073, 12-3-57, Cl. 164-10.2.
- Wikle, Richard H. Plastic bag. 2,785,720, 3-19-57, Cl. 150-1.
- Wiklund, Myron: *See*—
Noojin, Augustus Y., Jr., and Wiklund. 2,788,069.
- Wikswa, John P.: *See*—
Marcot, Guy C., and Wikswa. 2,804,374.
- Wiktor, Dominik: *See*—
Christensen, Paul M., and Wiktor. 2,811,605.
- Wilansky, Harold, to Corning Glass Works. Cerium oxide polishing composition. 2,816,824, 12-17-57, Cl. 51-308.
- Wilbespan Research Labs., Inc.: *See*—
Williams, Richard E. 2,796,534.
- Wilbourn, Orion T. Color guide for fishing lures. 2,809,458, 10-15-57, Cl. 43-1.
- Wilbro Corp.: *See*—
Geisler, William. 2,777,411.
Geisler, William. 2,791,366.
- Wilbur, Donald A.: *See*—
Peters, Philip H., Jr., and Wilbur. 2,810,095.
Peters, Philip H., Jr., and Wilbur. 2,810,096.
Peters, Philip H., Jr., and Wilbur. 2,814,777.
- Wilbur, Donald A., and P. H. Peters, Jr. High frequency diode magnetron. 2,803,773, 8-20-57, Cl. 313-157.
- Wilbur, Irvin M.: *See*—
Bruck, George, Harter, and Wilbur. 2,798,160.
- Wilbur, Sinclair F., to Sargeant and Wilbur, Inc. Hump type furnace belt drive. 2,797,075, 6-25-57, Cl. 263-8.
- Wilburn, Julian E., to Western Electric Co., Inc. Apparatus for coiling filamentary materials. 2,776,801, 1-8-57, Cl. 242-25.
- Wilckens, Eibe A., and H. A. Rau, to Crown Cork & Seal Co., Inc. Shell feeding mechanism. 2,804,837, 9-3-57, Cl. 113-113.
- Wilckens, Kurt W., to Heinemann Electric Co. Electro-magnetic circuit breaker. 2,781,433, 2-12-57, Cl. 200-88.
- Wilckens, Kurt W., deceased, by G. K. Schubert, administrator, to Heinemann Electric Co. Multi-pole circuit breaker. 2,817,730, 12-24-57, Cl. 200-107.
- Wilco Co.: *See*—
Flaxman, Marcellus T. 2,802,788.
- Wilco Metal Products, Inc.: *See*—
Einhorn, Harry E. 2,806,563.
Einhorn, Harry E. 2,815,862.
- Wilcox, Donald F.: *See*—
Stewart, Aubrey P., Jr., Wilcox, and Johnson. 2,788,283.

- Wilcox, Dwight D., Jr., to the United States of America as represented by the Secretary of the Navy. Electronic differential digital computer. 2,813,678, 11-19-57, Cl. 235-92.
- Wilcox, Fred A.: *See—*
Bergmann, Donald E., Wilcox, Van der Klott, and Tenney. 2,803,546.
- Wilcox-Gay Corp.: *See—*
Hironimus, Walter C. 2,778,646.
Hironimus, Walter C. 2,782,042.
Hironimus, Walter C. 2,793,039.
- Wilcox, Isaac L., to Oswego Falls Corp. End closure for container. 2,784,901, 3-12-57, Cl. 229-43.
- Wilcox, Isaac L., and H. Pesch, to Oswego Falls Corp. Machine for applying slip covers to paper containers. 2,781,946, 2-19-57, Cl. 221-158.
- Wilcox, James B., to S. R. Bowen Co. Side or lateral hole formation tester. 2,799,347, 7-16-57, Cl. 166-152.
- Wilcox, James W., to The Alliance Clay Product Co. Apparatus for scoring column from which bricks are made. 2,778,086, 1-22-57, Cl. 25-1.
- Wilcox, John D. Safety guard for electric fans. 2,791,373, 5-7-57, Cl. 230-275.
- Wilcox, Lloyd P., to United States Steel Corp. Electrical test apparatus. 2,804,591, 8-27-57, Cl. 324-51.
- Wilcox, Martin J. Diverting means for conveyor system. 2,776,739, 1-8-57, Cl. 198-31.
- Wilcox, Nathan T.: *See—*
Ashenfelder, Warren E., Johnson, and Wilcox. 2,799,975.
- Wilcox, Oswin B., to E. I. du Pont de Nemours and Co. Production of improved pigments. 2,780,558, 2-5-57, Cl. 106-300.
- Wilcox, Paul W., K. H. Beyer, Jr., and C. Ziegler, to Merck & Co., Inc. Method of producing a diuretic effect with p-carboxybenzenesulfonamide. 2,789,938, 4-23-57, Cl. 167-55.
- Wilcox, Roy C., to Radio Corp. of America. Web feeding means. 2,782,355, 2-19-57, Cl. 318-302.
- Wilcox, Roy M. Gas-driven pump device. 2,784,671, 3-12-57, Cl. 103-47.
- Wilcox, Roy M. Thermally balanced gas fluid pumping system. 2,813,398, 11-19-57, Cl. 60-51.
- Wilcox, Wilven F. Automobile curtain. 2,803,282, 8-20-57, Cl. 150-52.
- Wilde, Charles A. T., to D. M. Fraser Ltd. Combination plug and receptacle. 2,788,404, 4-9-57, Cl. 200-51.08.
- Wilde, Edward E. H., to The United States of America as represented by the Secretary of the Air Force. Digital to analog converter. 2,814,006, 11-19-57, Cl. 318-28.
- Wilde, Francis E. J., Jr. Bracket for casement window. 2,783,073, 2-26-57, Cl. 292-288.
- Wilde, Frederick G., and H. F. Johnson, to Paragon-Revolute Corp. Safety device for machines for making prints. 2,797,793, 7-2-57, Cl. 198-110.
- Wildeboer, Marinus, to North American Philips Co., Inc. Electric lamp. 2,799,421, 7-16-57, Cl. 220-21.
- Wilder, Edward A., to S. C. Johnson & Son, Inc. Method of reacting sugar cane wax with a calcium compound and compositions containing same. 2,806,827, 9-17-57, Cl. 260-28.
- Wilder, Justin E., to Penn Controls Inc. Wrap switch. 2,814,686, 11-26-57, Cl. 200-67.
- Wilder, Lawrence B.: *See—*
Harper, Richard V., and Wilder. 2,794,758.
- Wilder, Selden H. Telescoping, adjustable supports. 2,790,657, 4-30-57, Cl. 287-58.
- Wilder, Stuart, Jr.: *See—*
Goldthwaite, John L., and Wilder. 2,799,918.
- Wilder, Stuart, Jr., to General Motors Corp. Blade fastening means. 2,781,962, 2-19-57, Cl. 230-134.
- Wilder, Stuart, Jr., to General Motors Corp. Sheet metal blade and manufacture. 2,799,919, 7-23-57, Cl. 29-156.8.
- Wildermann, Otto, to Ensign Ribbon Burners, Inc. Ribbon type gas burner with flame control. 2,807,320, 9-24-57, Cl. 158-114.
- Wilders, Johannes H. A.: *See—*
Sanders, Theodorus P. W., and Wilders. 2,792,303.
- Wildhaber, Ernest, to The Gleason Works. Method and machine for making gears. 2,775,922, 1-1-57, Cl. 90-6.
- Wildhaber, Ernest. Universal joint. 2,777,306, 1-15-57, Cl. 64-21.
- Wildhaber, Ernest. Universal joint. 2,777,307, 1-15-57, Cl. 64-21.
- Wildhaber, Ernest. Fuel tank filling apparatus with automatic shut-off. 2,777,461, 1-15-57, Cl. 137-235.
- Wildhaber, Ernest, to The Gleason Works. Mechanical movement for converting rotary motion into reciprocating motion having an adjustable non-harmonic stroke and a quick return stroke. 2,782,647, 2-26-57, Cl. 74-69.
- Wildhaber, Ernest, to The Gleason Works. Method of cutting toothed face coupling members. 2,787,939, 4-9-57, Cl. 90-94.
- Wildhaber, Ernest. Gearless differential. 2,790,334, 4-30-57, Cl. 74-650.
- Wildhaber, Ernest. Locking differential. 2,791,919, 5-14-57, Cl. 74-714.
- Wildhaber, Ernest, and N. W. Fowler, to The Gleason Works. Machine for cutting clutch teeth and the like. 2,782,690, 2-26-57, Cl. 90-94.
- Wildhagen, Carl: *See—*
Rothe, Walter, Schroder, and Wildhagen. 2,793,582.
- Wildhagen, Gerhard, to Siemens & Halske Aktiengesellschaft. Two-way loudspeaker intercommunication system. 2,802,055, 8-6-57, Cl. 179-1.
- Wildi, Bernard S.: *See—*
Emerson, William S., and Wildi. 2,795,618.
- Wildi, Bernard S., and E. Altwickler, to Monsanto Chemical Co. Reduction of 5,7-unsaturated sterols. 2,813,879, 11-19-57, Cl. 260-397.2.
- Wildi, Bernard S., and W. S. Emerson. Peroxide compounds and method of preparing same. 2,818,437, 12-31-57, Cl. 260-610.
- Wilding, Charles E. Scouring device having a pivoted handle for bath tubs, sinks, etc. 2,790,193, 4-30-57, Cl. 15-210.
- Wilding, Sidney W., to The Amalgamated Dental Co. Ltd. Dropper device for measuring and dispensing. 2,782,964, 2-26-57, Cl. 222-422.
- Wildman Jacquard Co.: *See—*
Clauser, Walter L. 2,786,343.
- Wildman Mfg. Co.: *See—*
Howie, Kenneth. 2,780,083.
- Wilds, Robert B., and J. R. Ames, to the United States of America as represented by the United States Atomic Energy Commission. Line-above-ground attenuator. 2,807,785, 9-24-58, Cl. 333-81.
- Wildy, Ronald G., to Powers-Samas Accounting Machines Ltd. Record card controlled adding machines. 2,783,943, 3-5-57, Cl. 235-61.9.
- Wildy, Ronald G., to Powers-Samas Accounting Machines Ltd. Record card controlled statistical machines. 2,786,412, 3-26-57, Cl. 101-93.
- Wiles, Richard E., Jr., and B. C. Noah. Loud-speaker control system. 2,778,875, 1-22-57, Cl. 179-1.
- Wiles, Western: *See—*
Hoffman, Herbert O., and Wiles. 2,815,753.
Hoffman, Herbert O., and Wiles. 2,815,754.
- Wiley, Bruce F., to Phillips Petroleum Co. Improved apparatus for making measurements in a well. 2,788,662, 4-16-57, Cl. 73-151.
- Wiley, Bruce F., and R. A. Doubt, to Phillips Petroleum Co. Flowmeter. 2,786,351, 3-26-57, Cl. 73-155.
- Wiley, Bruce F., and F. H. Cullison, to Phillips Petroleum Co. Motor control circuit. 2,803,197, 8-20-57, Cl. 103-233.
- Wiley, Carl A., to Goodyear Aircraft Corp. Light modulator. 2,780,958, 2-12-57, Cl. 88-61.
- Wiley, Robert F., to Lynch Corp. Take-out for glassware. 2,783,589, 3-5-57, Cl. 49-14.
- Wiley, William C., to Bendix Aviation Corp. Electron multiplier. 2,789,228, 4-16-57, Cl. 250-41.9.
- Wiley, William C., to Bendix Aviation Corp. Mass spectrometer. 2,793,295, 5-21-57, Cl. 250-41.9.
- Wiley, William C., to Bendix Aviation Corp. Mass spectrometer. 2,794,125, 5-28-57, Cl. 250-41.9.
- Wiley, William C., to Bendix Aviation Corp. Mass spectrometer. 2,797,336, 6-25-57, Cl. 250-41.9.
- Wiley, William R. Golf putter having aligning indicia thereon. 2,781,197, 2-12-57, Cl. 273-164.
- Wilfert, Karl: *See—*
Barényi, Béla, and Wilfert. 2,778,673.
Barényi, Béla, and Wilfert. 2,797,952.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Interior lighting system for motor vehicles. 2,783,365, 2-26-57, Cl. 240-7.1.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Device for heating and ventilation, particularly of motor vehicles. 2,787,205, 4-2-57, Cl. 98-2.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Arrangement of side buffer strips on motor vehicles. 2,788,998, 4-16-57, Cl. 293-62.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Arrangement of windows for the discharge and the admission of air from and to vehicles, particularly power-driven vehicles. 2,790,675, 4-30-57, Cl. 296-44.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Upholstered seat. 2,796,116, 6-18-57, Cl. 155-180.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Socket for sealing steering column and controls in sectional vehicle body. 2,797,955, 7-2-57, Cl. 296-28.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Resilient lead-in connections for cables, rods, etc. in motor vehicles of the cellular type. 2,799,528, 7-16-57, Cl. 296-28.
- Wilfong, Robert E., to E. I. du Pont de Nemours and Co. Spinneret plate for melt spinning. 2,804,645, 9-3-57, Cl. 18-8.
- Wilhelm, Edward J. Retrieving device. 2,783,731, 3-5-57, Cl. 116-124.
- Wilhelm, Fred R. Tube cutter. 2,802,262, 8-13-57, Cl. 30-105.
- Wilhelm, Hans: *See—*
Fikentscher, Hans, and Wilhelm. 2,808,383.
- Wilhelm, Harley A.: *See—*
Spedding, Frank H., and Wilhelm. 2,787,536.
Spedding, Frank H., Wilhelm, and Keller. 2,782,116.
Spedding, Frank H., Wilhelm, and Keller. 2,785,065.
Spedding, Frank H., Wilhelm, and Keller. 2,787,538.
Spedding, Frank H., Wilhelm, and Keller. 2,797,160.
- Wilhelm, Harley A., to the United States of America as represented by the United States Atomic Energy Commission. Method of forming crucibles and reaction chambers for production of uranium of high purity. 2,785,064, 3-12-57, Cl. 75-84.1.

- Wilhelm, Harley A., to the United States of America as represented by the United States Atomic Energy Commission. Method of producing metal. 2,787,537, 4-2-57, Cl. 75-84.1.
- Wilhelm, Harley A., and D. H. Ahmann, to the United States of America as represented by the United States Atomic Energy Commission. Electrodeposition of uranium. 2,781,304, 2-12-57, Cl. 204-1.5.
- Wilhelm, Harley A., and C. F. Gray, to the United States of America as represented by the United States Atomic Energy Commission. Method of reclaiming uranium. 2,782,117, 2-19-57, Cl. 75-84.1.
- Wilhelm, Harley A., and C. F. Gray, to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for vacuum casting of uranium. 2,782,475, 2-26-57, Cl. 22-73.
- Wilhelm, Henry T., to Bell Telephone Laboratories, Inc. Impedance measuring means. 2,783,435, 2-26-57, Cl. 324-57.
- Wilhelm, John A.: *See*—
McEwan, James, and Wilhelm. 2,780,945.
- Wilhelm, Joseph F., to Krueger Sentry Gauge Co. Tank gauge with remote indicator. 2,797,577, 7-2-57, Cl. 73-318.
- Wilhide, Charles W., to The Black & Decker Mfg. Co. Guard for portable power driven circular saw. 2,790,468, 4-30-57, Cl. 143-159.
- Wilhoite, Howard J. Leg extension device. 2,802,217, 8-13-57, Cl. 3-4.
- Wilke, Gunther: *See*—
Ziegler, Karl, Wilke, and Holzkamp. 2,781,410.
- Wilkening Mfg. Co.: *See*—
Pien, Hsia-Si. 2,777,740.
- Wilkins, Arno G. K.: *See*—
Ostermann, Hans J., Wilkins, and Bryan. Re. 24,267.
- Wilkinson Corp.: *See*—
Wilkerson, Dewey L. 2,816,564.
- Wilkerson, Daniel C., to General Motors Corp. Speed responsive fluid control means. 2,775,910, 1-1-57, Cl. 74-752.
- Wilkerson, Dewey L., to Wilkerson Corp. Automatic fluid flow control system. 2,816,564, 12-17-57, Cl. 137-110.
- Wilkerson, Edward D. Camber correcting method and means. 2,778,401, 1-22-57, Cl. 153-32.
- Wilkes, Gilbert: *See*—
Maybury, Paul C., and Wilkes. 2,801,412.
- Wilkes, John F.: *See*—
Crum, Ferris B., and Wilkes. 2,783,200.
- Wilkes, Luther W. Aircraft wing with variable nose slot. 2,780,425, 2-5-57, Cl. 244-42.
- Wilkes, Reuben. Drafting spline. 2,790,245, 4-30-57, Cl. 33-177.
- Wilkey, Harold H., and J. F. Curley, 52% to said Wilkey, 24% to said Curley, and 24% to J. M. Naifeh. Soil tilling machine. 2,788,725, 4-16-57, Cl. 97-10.
- Wilkie Co., The: *See*—
McLaughlin, John J. Re. 24,319.
- Wilkie, Robert C., to Pacific Mills. Fluid treatment of textile fibers. 2,779,977, 2-5-57, Cl. 19-66.
- Wilkie, Robert C., to Pacific Mills. Textile fiber package. 2,780,838, 2-12-57, Cl. 19-66.
- Wilkie, Robert C., to Pacific Mills. Apparatus for indicating and recording variations of silver thickness. 2,795,051, 6-11-57, Cl. 33-148.
- Wilkie, Robert J., and L. L. Cruise, to Continental Machines, Inc. Power saw with improved coolant applicator. 2,815,562, 12-10-57, Cl. 29-68.
- Wilkin, Ellsworth D., to McCulloch Motors Corp. Wheel adjusting means for lawn mower. 2,776,844, 1-8-57, Cl. 280-44.
- Wilkins, Edward W., to Wilkins & Mitchell Ltd. Power-driven wringing machines. 2,796,754, 6-25-57, Cl. 68-255.
- Wilkins, Howard W.: *See*—
Shockey, Newton E., and Wilkins. 2,800,151.
- Wilkins, Marion D., and K. E. Smith, to Turco Products, Inc. Bag opener. 2,796,184, 6-18-57, Cl. 214-305.
- Wilkins & Mitchell Ltd.: *See*—
Wilkins, Edward W. 2,796,754.
- Wilkins, Richard A., to Revere Copper and Brass, Inc. Method and apparatus for recovering zinc. 2,781,257, 2-12-57, Cl. 75-88.
- Wilkins, Richard A., to Revere Copper and Brass Inc. Method and apparatus for recovering the copper of electrically insulated copper wire. 2,815,278, 12-3-57, Cl. 75-72.
- Wilkinson, Alvin H. Drive selector. 2,803,326, 8-20-57, Cl. 192-48.
- Wilkinson, Alvin H., to Cabot Shops, Inc. Cable winding clamping apparatus. 2,811,322, 10-29-57, Cl. 242-117.
- Wilkinson, Clarence E., to The Texas Co. Coating wet metal surfaces with asphalt cutback compositions. 2,793,138, 5-21-57, Cl. 117-49.
- Wilkinson, Clarence M. Chute construction. 2,808,625, 8-10-57, Cl. 20-16.
- Wilkinson, Donald: *See*—
Murray, Peter, Denton, and Wilkinson. 2,807,857.
- Wilkinson, Dwight A. Stubbing apparatus. 2,810,939, 10-29-57, Cl. 19-143.5.
- Wilkinson, Dwight M.: *See*—
Kullgren, Gilbert V., and Wilkinson. 2,807,096.
Kullgren, Gilbert V., and Wilkinson. 2,807,097.
- Wilkinson, James W., to Hastings Mfg. Co. Oil filter cartridge. 2,797,811, 7-2-57, Cl. 210-65.
- Wilkinson, Joseph M.: *See*—
Witwer, Daniel B., and Wilkinson. 2,811,449.
- Wilkinson, Joseph M., and R. E. Field, to General Aniline & Film Corp. Acylated polyesters of dihydroxyalkanes with dicarboxylic acids. 2,815,354, 12-3-57, Cl. 260-404.8.
- Wilkinson, Roger G.: *See*—
Levinger, Joseph S., Sampson, Snell, and Wilkinson. 2,781,309.
- Wilkinson Sword Co. Ltd.: *See*—
Mathisen, Anders. 2,782,402.
Mathisen, Anders. 2,783,845.
Mathisen, Anders. 2,787,330.
Mathisen, Anders. 2,797,760.
Randolph, Harry B., and Mathisen. 2,798,562.
- Wilkinson Sword Ltd.: *See*—
Mathisen, Anders. 2,795,282.
- Wilkinson, William K.: *See*—
Jackson, Harold L., and Wilkinson. 2,794,015.
Rothrock, Henry S., and Wilkinson. 2,788,339.
- Wilkinson, William K., to E. I. du Pont de Nemours and Co. Regeneration of ion exchange resins. 2,812,312, 11-5-57, Cl. 260-2.1.
- Wilklow, Mary E. B. Garment forms. 2,777,618, 1-15-57, Cl. 223-69.
- Wilks, Sylreel S., and F. V. Garbich, to the United States of America as represented by the Secretary of the Air Force. Respiratory apparatus. 2,776,659, 1-8-57, Cl. 128-30.
- Will, Phillip C., and R. L. Luce, to The Hydro-Blast Corp. Method for reclaiming used foundry sand. 2,783,511, 3-5-57, Cl. 22-217.
- Will, Theodore, to Fund-Del Inc. Safety match book folders. 2,784,838, 3-12-57, Cl. 206-29.
- Will, Theodore, to Fun-Del Inc. Perforated tear sheet for cigarette and the like packages. 2,789,752, 4-23-57, Cl. 229-51.
- Will, Theodore, to Fund-Del, Inc. Container cap. 2,800,240, 7-23-57, Cl. 215-10.
- Will, Theodore, to Fund-Del Inc. Cigarette pull tab ejector and the like packages. 2,801,769, 8-6-57, Cl. 221-260.
- Willard, Gerald W., to Bell Telephone Laboratories, Inc. Frequency discriminator employing multiply resonant piezoelectric vibrator. 2,779,191, 1-29-57, Cl. 73-67.8.
- Willard, Miles J., Jr.: *See*—
Cording, James, Jr., and Willard. 2,787,553.
- Willard, Miles J., Jr., and J. Cording, Jr., to the United States of America as represented by the Secretary of Agriculture. Dehydration of cooked potato. 2,780,552, 2-5-57, Cl. 99-207.
- Willard, Robert G., to Westinghouse Electric Corp. Variable area nozzle for jet propulsion engine. 2,791,882, 5-14-57, Cl. 60-35.6.
- Willard, Robert P., to Moore Business Forms, Inc. Card stacker. 2,796,260, 6-18-57, Cl. 271-88.
- Willard, Robert P., to Kidder Press Co., Inc. Ductor device for inking mechanisms for printing presses. 2,817,293, 12-24-57, Cl. 101-350.
- Willardson, Robert K., H. L. Goering, and T. C. Harman, to The Battelle Development Corp. Intermetallic compounds of groups III and V metals containing small amounts of nickel, cobalt or iron. 2,778,802, 1-22-57, Cl. 252-62.3.
- Willauer, Paul H.: *See*—
Willauer, Russell H. and P. H. 2,811,857.
Willauer, Russell H. and P. H. 2,789,439.
- Willauer, Russell H., and P. H. Willauer. Chain and chain link. 2,811,857, 11-5-57, Cl. 74-250.
- Willauer, Russell H. and P. H. Chain and chain link. 2,789,439, 4-23-57, Cl. 74-250.
- Willcox, Dale F., to Furnas Electric Co. Motor driven tap switch. 2,790,860, 4-30-57, Cl. 200-6.
- Willcox, Frederick P., to Fairchild Camera and Instrument Corp. Photographic shutter. 2,782,702, 2-26-57, Cl. 95-63.
- Willcox, Frederick P., to Fairchild Camera and Instrument Corp. Camera shutter having a combined brake and latch. 2,803,181, 8-20-57, Cl. 95-63.
- Willcox & Gibbs Sewing Machine Co.: *See*—
Howell, John D., and Nelson. 2,778,329.
Nelson, Clarence R. 2,812,735.
- Willcox, Leland J. Golf ball dispensing and teeing machine. 2,789,824, 4-23-57, Cl. 273-201.
- Willcox, Oswin B., to E. I. du Pont de Nemours and Co. Method and means for commingling and reacting fluid substances. 2,791,490, 5-7-57, Cl. 23-202.
- Willcox, Oswin B., to E. I. du Pont de Nemours and Co. Coating protected alkali metal product and process. 2,798,831, 7-9-57, Cl. 148-6.14.
- Wille, Herbert S.: *See*—
Edwards, Francis E., and Wille. 2,816,670.
- Willeke, William H. Collapsible bird cage. 2,783,738, 3-5-57, Cl. 119-17.
- Willems, Jakob: *See*—
Brandt, Hermann, and Willems. 2,791,416.
- Willems, Peter. Mixing and dispersing devices. 2,789,800, 4-23-57, Cl. 259-135.
- Willenbrock, Arthur, Jr., and A. H. Redding, to Westinghouse Electric Corp. Gas turbine power plant apparatus. 2,798,661, 7-9-57, Cl. 230-122.
- Willert, William H., to Frank W. Egan & Co. Plastics extruder with mixing head. 2,785,438, 3-19-57, Cl. 13-12.
- Willert, William H., to Frank W. Egan & Co. Plastic extruder with evaporative cooling system. 2,796,632, 6-25-57, Cl. 18-12.

- Willett, George E. Seed treating process and material therefor. 2,789,398, 4-23-57, Cl. 47-58.
- Willett, Willis M., 20% to G. Grady. Lead jointer. 2,785,450, 3-19-57, Cl. 22-118.
- Wiley, Claude S., to Wiley Sign Co., Inc. Block type or three dimension sign. 2,778,134, 1-22-57, Cl. 40-130.
- Wiley, Frank G.: *See*—
Macklem, Sutherland, and Wiley. 2,785,941.
- Wiley, Meroe: *See*—
Wiley, Ralph M., and M. Wiley. 2,813,195.
- Wiley, Ralph M., and M. Wiley. Door lock illuminator. 2,813,195, 11-12-57, Cl. 240-213.
- Wiley Sign Co., Inc.: *See*—
Wiley, Claude S. 2,778,134.
- Willhauck, Augustus D., to United Shoe Machinery Corp. Breech mechanisms. 2,779,242, 1-29-57, Cl. 89-21.
- Willi, Alfred: *See*—
Richter, Carl, and Willi. 2,793,158.
- Willi, Richard B., to Baldwin-Lima-Hamilton Corp. Hydraulic machine with adjustable propeller blades sealed at their inner ends. 2,776,107, 1-1-57, Cl. 253-148.
- Willi, Richard B., to Baldwin-Lima-Hamilton Corp. Variable reciprocating stroke mechanism. 2,776,573, 1-8-57, Cl. 74-55.
- Willi, Richard B., to Baldwin-Lima-Hamilton Corp. Apparatus for compacting and ejecting flanged articles. 2,810,929, 10-29-57, Cl. 18-16.7.
- William, Herbst: *See*—
Rutenberg, Morton W., and William. 2,801,955.
- Williamitis, Victor A., to General Motors Corporation. Working fluids in refrigeration apparatus. 2,807,155, 9-24-57, Cl. 62-117.7.
- Williams, Alexander T., to Weston Electrical Instrument Corp. Exposure meter. 2,810,319, 10-22-57, Cl. 88-23.
- Williams, Amy S., to Cowan Pressroom Products, Inc. Adjusting means for printing press rollers. 2,795,188, 6-11-57, Cl. 101-348.
- Williams, Arthur R., and J. Hidalgo, to Cutter Laboratories, Inc. 2-ammonio-ethyl 3-ammoniopropionates. 2,810,743, 10-22-57, Cl. 260-482.
- Williams, Arvis G.: *See*—
Ortynsky, Roman L., Kline, and Williams. 2,809,583.
- Williams, Beverly E., to Hodges Research & Development Co., Inc. Method for aging meat. 2,816,836, 12-17-57, Cl. 99-107.
- Williams, Beverly E., and B. F. Buchanan, to International Minerals & Chemical Corp. Process for the treatment of meats. 2,805,163, 9-3-57, Cl. 99-107.
- Williams, Bill D. Faced wall construction. 2,810,285, 10-22-57, Cl. 72-35.
- Williams, Byron L., Jr.: *See*—
Gorton, Bert S., and Williams. 2,784,187.
- Williams, C. K., & Co.: *See*—
Bennetch, Leonard M. 2,785,991.
- Williams, Cecil E.: *See*—
Jacobs, Robert B., and Williams. 2,782,628.
- Williams, Charles A. H., to The British Petroleum Co. Ltd. Burner heads. 2,808,773, 10-8-57, Cl. 98-58.
- Williams, Charles R., to Northrop Aircraft, Inc. Diode pulse amplifier. 2,791,725, 5-7-57, Cl. 315-166.
- Williams, Charles R., to Monsanto Chemical Co. Treatment of cellulose containing textile materials and compositions therefor. 2,804,402, 8-27-57, Cl. 117-139.4.
- Williams, Charles R., and A. S. Hook, to Alwac International. Curve following device. 2,787,021, 12-17-57, Cl. 250-239.
- Williams, Chester L., 50% to V. A. Barna. Garden tool. 2,781,711, 2-19-57, Cl. 97-66.
- Williams, Clifford H., to M. H. Adkins. Collapsible mortarboard stand. 2,797,887, 7-2-57, Cl. 248-167.
- Williams, Clifford H. Sectional scaffold. 2,818,308, 12-31-57, Cl. 304-2.
- Williams, Daniel J. Filing or the like machine. 2,815,681, 12-10-57, Cl. 74-600.
- Williams, David F. Refrigerator door and adjustable pressure equalizing device. 2,787,030, 4-2-57, Cl. 20-38.
- Williams, David J. Humidor package. 2,807,514, 9-24-57, Cl. 312-31.
- Williams, David J., R. C. Bacon, and J. R. Acton, to Ericsson Telephones Ltd. Electric discharge tubes. 2,783,408, 2-26-57, Cl. 313-109.5.
- Williams, De Alt E., Jr., to The Apex Machine and Tool Co. Magnetic screw driver. 2,782,823, 2-26-57, Cl. 145-51.
- Williams, Dean L., to Rome Cable Corp. Apparatus for serving a strand on a travelling core. 2,807,129, 9-24-57, Cl. 57-18.
- Williams, Donald E.: *See*—
Jones, Richard T. 2,785,616.
- Williams, Donald E., F. W. Hertzler, and H. T. Lathrop, to Bissell Carpet Sweeper Co. Carpet sweeper of the rotary driven brush type. 2,793,378, 5-28-57, Cl. 15-45.
- Williams, Donald F.: *See*—
Moore, Robert E., Bower, and Williams. 2,811,406.
- Williams, Donald L.: *See*—
Krier, Alexander O., Allen, and Williams. 2,792,864.
- Williams, Donald R. Semi-flexible receptacle. 2,794,473, 6-4-57, Cl. 150-0.5.
- Williams, Donald R. Plastic sealing device. 2,794,484, 6-4-57, Cl. 154-42.
- Williams, Donald R., and S. G. James. Worktable insert. 2,795,250, 6-11-57, Cl. 144-134.
- Williams, Dudley A.: *See*—
White, John F., and Williams. 2,798,049.
- Williams, Duncan R., to Monolith Portland Midwest Co. Lowering the viscosity of cement slurry by addition of CO₂ gas. 2,790,725, 4-30-57, Cl. 106-100.
- Williams, Dyle E.: *See*—
Smith, Roy R., and Williams. 2,805,502.
- Williams, Edward B., Jr. Drill bit. 2,776,115, 1-1-57, Cl. 255-313.
- Williams, Edward B., Jr. Jetting device for rotary drilling apparatus. 2,805,043, 9-3-57, Cl. 255-24.
- Williams, Edward B., Jr. Drill bit. 2,818,233, 12-31-57, Cl. 255-72.
- Williams, Egerton B.: *See*—
Schumacker, George P., and Williams. 2,777,816.
- Williams, Elmore H. Rotating toy. 2,814,157, 11-26-57, Cl. 46-51.
- Williams, Elwyn C., to Minneapolis-Honeywell Regulator Co. Transformer pressure relief devices. 2,811,573, 10-29-57, Cl. 174-15.
- Williams, Eugene H. Simulated airplane kite. 2,812,914, 11-12-57, Cl. 244-154.
- Williams, Everard M., to Firth Sterling Inc. Apparatus for electrically eroding materials. 2,785,279, 3-12-57, Cl. 219-69.
- Williams, Everard M., to A. M. Scaife. Hearing aid. 2,813,933, 11-19-57, Cl. 179-107.
- Williams, Everard M., and E. V. Cousy. Remote control system. 2,801,815, 8-6-57, Cl. 244-14.
- Williams, Ferd E., and A. H. Young, to General Electric Co. High brightness light source. 2,806,969, 9-17-57, Cl. 313-92.
- Williams, Fielding L.: *See*—
Jones, Montgomery O. 2,785,751.
- Williams, Francis E.: *See*—
Whillock, Arthur F., and Williams. 2,778,638.
- Williams, Fred E. Inspection lamp. 2,807,710, 9-24-57, Cl. 240-11.4.
- Williams, Fred R., and A. C. Williford. Drapery supporting device and means for applying the same. 2,783,832, 3-5-57, Cl. 160-348.
- Williams, Frederic C.: *See*—
Kilburn, Tom, Williams, and Laithwaite. 2,807,728.
Tootill, Geoffrey C., Williams, and Kilburn. 2,777,635.
Tootill, Geoffrey C., Williams, and Kilburn. 2,810,516.
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,789,759.
Tootill, Geoffrey C., Williams, Kilburn, Thomas, and Edwards. 2,796,218.
- Williams, Frederic C., to National Research Development Corp. Electrostatic storage of information. 2,810,857, 10-22-57, Cl. 315-12.
- Williams, Frederic C., to National Research Development Corp. Electronic information storing devices. 2,811,666, 10-29-57, Cl. 315-12.
- Williams, Frederic C., and A. A. Robinson, to National Research Development Corp. Electronic circuit for multiplying binary numbers. 2,776,794, 1-8-57, Cl. 235-16.
- Williams, Frederic C., and T. Kilburn, to National Research Development Corp. Electronic digital computing machines. 2,777,634, 1-15-57, Cl. 235-61.
- Williams, Frederic C., and T. Kilburn, to International Business Machines Corp. Information storage means. 2,777,971, 1-15-57, Cl. 315-12.
- Williams, Frederic C., T. Kilburn, and D. L. H. Gibbings, to National Research Development Corp. Electronic adding devices. 2,784,907, 3-12-57, Cl. 235-61.
- Williams, Frederic C., T. Kilburn, and G. C. Tootill, to National Research Development Corp. Electronic storage apparatus. 2,785,855, 3-19-57, Cl. 235-61.
- Williams, Frederic C., and T. Kilburn, to National Research Development Corp. Electronic information-storing devices. 2,794,937, 6-4-57, Cl. 315-12.
- Williams, Frederic C., T. Kilburn, G. C. Tootill, and B. W. Pollard, to National Research Development Corp. Controlling arrangements for electronic digital computing machines. 2,800,277, 7-23-57, Cl. 235-61.
- Williams, Frederic C., and T. Kilburn, to National Research Development Corp. Apparatus for the electrical storage of digital information. 2,807,749, 9-24-57, Cl. 315-20.
- Williams, Frederic C., and T. Kilburn, to National Research Development Corp. Electric storage devices. 2,809,325, 10-8-57, Cl. 315-26.
- Williams, Frederic C., and T. Kilburn, to International Business Machines Corp. Electrical apparatus for information storage. 2,810,092, 10-15-57, Cl. 315-12.
- Williams, Frederic C., T. Kilburn, D. B. G. Edwards, and G. E. Thomas, to National Research Development Corp. Electric delay lines. 2,813,255, 11-12-57, Cl. 333-31.
- Williams, Frederic C., and T. Kilburn, to National Research Development Corp. Electrostatic storage of information. 2,817,042, 12-17-57, Cl. 315-12.
- Williams Furniture Corp.: *See*—
Chrisawn, Earle S. 2,801,657.
- Williams, George K.: *See*—
Morgan, Stephen W. K., and Williams. 2,816,022.
- Williams, George M. Card shuffler. 2,778,643, 1-22-57, Cl. 273-149.
- Williams, George W.: *See*—
Ames, Robert G. 2,809,513.
Ames, Robert G. 2,815,142.

- Williams, Gerald: *See*—
 Lowe, Arthur, and Williams. 2,793,517.
- Williams, Harold M. G.: *See*—
 Rakowski, Lech, Williams, and Wilson. 2,782,089.
- Williams, Harold W. Dropper bottle cap. 2,781,063, 2-12-57, Cl. 141-24.
- Williams, Harrison B. Textile spinning. 2,808,697, 10-8-57, Cl. 57-58.95.
- Williams, Harry, to Moline Machine Co., Ltd. Screening device for beta-ray scanning units. 2,790,087, 4-23-57, Cl. 250-105.
- Williams, Harry A. Portable electric air pump for bait receptacles. 2,808,196, 10-1-57, Cl. 230-117.
- Williams, Harry D.: *See*—
 Short, Roland W. P., and Williams. 2,809,210.
- Williams, Harry D. Friction type reversible drive unit for wrenches, and the like. 2,810,463, 10-22-57, Cl. 192-43.
- Williams, Harry E., and R. L. Automatic alarm system. 2,811,584, 10-29-57, Cl. 179-5.
- Williams, Harry, Mfg. Co.: *See*—
 Se Bastian, Ford. 2,806,114.
- Steiner, Rudolf. 2,792,470.
- Williams, Harry W. Coin receiving and registering device. 2,791,378, 5-7-57, Cl. 235-100.
- Williams, Herbert E. Gate arrestor. 2,783,071, 2-26-57, Cl. 292-109.
- Williams, Herbert E. Vehicle actuated gravity closed gate. 2,793,450, 5-28-57, Cl. 39-31.
- Williams, Howard J., to Bendix Aviation Corp. Fuel feed and power control for gas turbine engines. 2,786,331, 3-26-57, Cl. 60-39.28.
- Williams, Howell J.: *See*—
 Goertz, Matilda F., and Williams. 2,818,514.
- Williams & Hussey Machine Corp.: *See*—
 Carpentiere, Rudolph E. 2,780,254.
- Leonard, Percy. 2,780,250.
- Leonard, Percy. 2,780,255.
- Williams, Thurston V. 2,780,251.
- Williams, Ira, to J. M. Huber Corp. Water dispersible carbon black. 2,793,134, 5-21-57, Cl. 106-307.
- Williams, Ivan A. Adjustable dies for uniting materials. 2,811,880, 11-5-57, Cl. 78-1.
- Williams, Jack L. R.: *See*—
 Leubner, Gerhard W., Williams, and Unruh. 2,811,510.
- Smith, Albert C., Williams, and Unruh. 2,816,091.
- Williams, Jack L. R., to Eastman Kodak Co. Preparation of p-acetylstyrenes. 2,780,649, 2-5-57, Cl. 260-592.
- Williams, James E.: *See*—
 McCloskey, Ellsworth J., and Williams. 2,806,381.
- Williams, James H., and J. M. Hall, to Grinnell Corp. Combined tapping and countersinking tool. 2,797,421, 7-2-57, Cl. 10-140.
- Williams, James L. Device for measuring and extracting coffee from a can. 2,810,497, 10-22-57, Cl. 222-368.
- Williams, James O. Trigonometric computing device. 2,801,795, 8-6-57, Cl. 235-61.
- Williams, James S., to Radio Corp. of America. Radio relay system. 2,791,683, 5-7-57, Cl. 250-15.
- Williams, James T.: *See*—
 Schwarzenbach, Earl E., and Williams. 2,801,373.
- Schwarzenbach, Earl E., and Williams. 2,815,411.
- Williams, John C. Merchandise display fixture of the knock-down, sectional type. 2,787,382, 4-2-57, Cl. 211-148.
- Williams, John C., Jr., to CDC Control Service, Inc. Weighing platform for a weighing device. 2,802,660, 8-13-57, Cl. 265-71.
- Williams, John E., to The Rockwell Spring and Axle Co. Drive mechanism for crop harvesting vehicles. 2,776,583, 1-8-57, Cl. 74-701.
- Williams, John F. Apparatus for dispensing insecticide powders. 2,795,080, 6-11-57, Cl. 43-148.
- Williams, John L. Stock valve. Re. 24,401, 12-10-57, Cl. 251-214.
- Williams, John N.: *See*—
 Schepman, Willis G., Williams, and Dunn. 2,787,532.
- Williams, John N. Vehicle headlight glare reducing attachment. 2,785,287, 3-12-57, Cl. 240-7.1.
- Williams, John R. Automobile heater attachment for warming bottles. 2,811,963, 11-5-57, Cl. 126-261.
- Williams, La Mar S. Salt and pepper shaker. 2,789,732, 4-23-57, Cl. 222-142.9.
- Williams, La Mar S. Sugar dispenser. 2,801,777, 8-6-57, Cl. 222-455.
- Williams, Lawrence S., to Toledo Scale Co. Cord drive for a lens cell. 2,786,438, 3-26-57, Cl. 116-129.
- Williams, Lawrence S., to Toledo Scale Co. Ribbon reverse mechanism. 2,800,990, 7-30-57, Cl. 197-162.
- Williams, Lawrence S., to Toledo Scale Co. Tare device. 2,802,659, 8-13-57, Cl. 265-63.
- Williams, Leo C.: *See*—
 Faerber, Harry W., and Williams. 2,810,468.
- Perry, John R., and Williams. 2,799,499.
- Stoothoff, Stanley T., and Williams. 2,801,846.
- Williams, Leo C., to Miehle Printing Press & Mfg. Co. Paper trimming and cutting machine. 2,781,842, 2-19-57, Cl. 164-48.
- Williams, Leon. Detachable magazine for an autographic register. 2,795,436, 6-11-57, Cl. 282-16.
- Williams, Lewis R.: *See*—
 Williams, William R., Jr., and L. R. 2,804,873.
- Williams, Lyle N., to General Motors Corp. Mirror. 2,789,464, 4-23-57, Cl. 88-98.
- Williams, Marjorie R.: *See*—
 Chiddix, Max E., Hesse, and Williams. 2,809,999.
- Williams, Maurice R., to Westinghouse Air Brake Co. Railway traffic controlling apparatus. 2,785,294, 3-12-57, Cl. 246-22.
- Williams, Merl A., and E. Wert, to The French Oil Mill Machinery Co. Cooling of hot particles such as hot meal. 2,799,097, 7-16-57, Cl. 34-56.
- Williams, Merton S., to The Eagle Lock Co. Cover for cylinder locks. 2,782,625, 2-26-57, Cl. 70-455.
- Williams, Michael: *See*—
 Drugmand, Lester D., and Williams. 2,786,125.
- Williams, Milton E., Jr.: *See*—
 Hendrickson, Luther G., and Williams. 2,807,363.
- Williams, Milton S., Jr., to General Electric Co. Oven heating system. 2,806,119, 9-10-57, Cl. 219-20.
- Williams, Murray E., and P. H. Grevengeod, to Dexter Industries, Inc. Alternate-hand deadlocking mechanism. 2,803,481, 8-20-57, Cl. 292-245.
- Williams, Murray E., and P. H. Grevengeod, to Dexter Industries, Inc. Deadlocking mechanism. 2,804,327, 8-27-57, Cl. 292-169.
- Williams, Neal T., and G. Lewin, to Westinghouse Electric Corp. Automatic radar switch. 2,780,748, 2-5-57, Cl. 313-201.
- Williams, Norman C., to Power Brake Equipment Co. Pneumatic brake system. 2,792,916, 5-21-57, Cl. 188-151.
- Williams, Norman C., to Power Brake Equipment Co. Over-travel stop and waste valve. 2,800,112, 7-23-57, Cl. 121-46.5.
- Williams, Norman C., to Power Brake Equipment Co. Exhaust brake system. 2,805,656, 9-10-57, Cl. 123-97.
- Williams, Norman C., to Power Brake Equipment Co. Tractor brake retarding system. 2,808,902, 10-8-57, Cl. 188-3.
- Williams, Norman C., and R. W. Fishwood, to Power Brake Equipment Co. Remote positioning system. 2,794,423, 6-4-57, Cl. 121-38.
- Williams, Olin E., to Standard Oil Co. Crystal-washer apparatus. 2,784,725, 3-12-57, Cl. 134-115.
- Williams, Olin E., to Standard Oil Co. Method of heating and fluidizing for a carbonization process. 2,805,189, 9-3-57, Cl. 202-14.
- Williams, Oren F.: *See*—
 Pianfetti, John A., Williams, and Allen. 2,786,009.
- Williams, Oren F., O. H. Johnson, and J. R. Graham, to Food Machinery and Chemical Corp. Alkylenebisdithiocarbamates, fungicidal composition containing same and method of applying. 2,796,376, 6-18-57, Cl. 167-22.
- Williams, Oren F., and J. F. Allen, to Food Machinery and Chemical Corp. Metallo-organic phosphorus compounds. 2,798,880, 7-9-57, Cl. 260-438.
- Williams, Oscar S. Implement frame attached tractor cab. 2,804,930, 9-3-57, Cl. 180-54.
- Williams, Paul H., and F. C. Younger, to Shell Development Co. Lubricating compositions. 2,777,819, 1-15-57, Cl. 252-32.5.
- Williams, Paul H., L. B. Scott, and V. N. Borsoff, to Shell Development Co. Lubricating compositions. 2,780,597, 2-5-57, Cl. 252-18.
- Williams, Philip M., to Keyes Fibre Co. Packing material for fragile articles. 2,808,189, 10-1-57, Cl. 229-14.
- Williams, Philip S., to Esso Research and Engineering Co. Preventing pipe line corrosion. 2,795,560, 6-11-57, Cl. 252-387.
- Williams, Philip S., to Esso Research and Engineering Co. Rectilinear torque driven recording pen. 2,812,996, 11-12-57, Cl. 346-112.
- Williams, Philip S., to Esso Research and Engineering Co. Pellet retention method and apparatus for pellet impact drilling. 2,815,931, 12-10-57, Cl. 255-1.8.
- Williams Pivot Sash Co., The: *See*—
 Domino, Karl A. 2,816,332.
- Williams, Porter A. Process of removing color from cotton seed oil and the like. 2,803,636, 8-20-57, Cl. 260-425.
- Williams, Ralph E.: *See*—
 Miller, Warren P., and N. R., and Williams. 2,816,538.
- Williams, Ray C., to Standard Car Truck Co. Stabilized spring group assembly. 2,797,915, 7-2-57, Cl. 267-9.
- Williams, Ray C., to Standard Car Truck Co. Closure for dust guard pocket of railway car journal box. 2,808,276, 10-1-57, Cl. 286-6.
- Williams, Ray S., to Hagan Corp. Pneumatic signal responsive hydraulically actuated positioners for high pressure servo-valves provided with a compensating or followup mechanism. 2,781,744, 2-19-57, Cl. 121-41.
- Williams, Raymond L.: *See*—
 Williams, Harry E., and R. L. 2,811,584.
- Williams, Reade: *See*—
 Dreier, Theodore, and Williams. 2,814,766.
- Williams, Reade, to General Electric Co. Electronic power supply and clock motor. 2,814,769, 11-26-57, Cl. 318-171.
- Williams, Richard A., to Philco Corp. Method for electrolytic etching. 2,799,637, 7-16-57, Cl. 204-143.
- Williams, Richard E., to Wilbespan Research Labs, Inc. Photo-electric tone generator. 2,796,534, 6-18-57, Cl. 250-219.
- Williams, Richard J., to American Metal Products Co. Lever control for vertically adjustable seat. 2,795,267, 6-11-57, Cl. 155-90.

- Williams, Robert A. Visible data accumulator. 2,788,229, 4-9-57, Cl. 281-1.
- Williams, Robert E., and E. C. Engel. Golf bag cart. 2,782,048, 2-19-57, Cl. 280-42.
- Williams, Robert F., Jr., to Eastman Kodak Co. High acetyl cellulose acetate molding compositions and the manufacture of molded pieces therefrom. 2,805,171, 9-3-57, Cl. 106-176.
- Williams, Roger F. Outdoor fireplace. 2,787,260, 4-2-57, Cl. 126-8.
- Williams, Roger J.: *See*—
Pistole, Harry, Calvert, Williams, Morse, Pryor, Corley, and Evans. 2,804,147.
- Williams, Russell C.: *See*—
Armington, Raymond Q., Carroll, Mazzarins, and Williams. 2,786,724.
- Williams, Russell J., to Bemis Bro. Bag Co. Bag. 2,776,084, 1-1-57, Cl. 229-55.
- Williams, Samuel B.: *See*—
Huebner, George J., Jr., Williams, and Borden. 2,795,923.
- Williams, Samuel B. Fluid sustained aircraft. 2,777,649, 1-15-57, Cl. 244-23.
- Williams, Samuel B., to Bell Telephone Laboratories, Inc. Electronic computer. 2,817,477, 12-24-57, Cl. 285-61.
- Williams, Selden T., to Scovill Mfg. Co. Bendable valve stem extension. 2,813,567, 11-19-57, Cl. 152-415.
- Williams, Selden T., and F. R. Hormann, to Scovill Mfg. Co. Plastic valve cap. 2,780,243, 2-5-57, Cl. 138-89.3.
- Williams, Si J., Jr., to Whirlpool-Seeger Corp. Cycle defrost type refrigerators. 2,807,149, 9-24-57, Cl. 62-4.
- Williams, Sidney B.: *See*—
Westcott, Vernon C., Williams, and Haywood. 2,800,796.
- Williams, Stanley B.: *See*—
Johnson, Wallace M., and Williams. 2,779,926.
- Williams, Stanley C.: *See*—
Stewart, Alexander E., and Williams. 2,797,623.
- Williams, Stanley C., to Dominion Engineering Works Ltd. Press roll assembly for paper machines. 2,782,693, 2-26-57, Cl. 92-49.
- Williams, Steele D. Electric melting furnace. 2,777,891, 1-15-57, Cl. 13-6.
- Williams, Stewart F.: *See*—
Jaeger, Alphons O., and Williams. 2,783,249.
- Williams, Thomas C., to Eaton Metal Products Co. Lethal gas chambers. 2,802,462, 8-13-57, Cl. 128-1.
- Williams, Thomas C., Jr., to The Okonite Co. Production of extruded shapes having textured surfaces without recourse to external mechanical devices, such as embossing rolls and the like. 2,795,821, 6-18-57, Cl. 18-55.
- Williams, Thomas H., and N. R. Hall, to The Permutit Co. Ltd., Stewarts & Lloyds Ltd., and Woodall-Duckham Construction Co. Ltd. Treatment of liquors containing thiocyanate thiosulphate and phenols. 2,795,544, 6-11-57, Cl. 210-63.
- Williams, Thurston, to The O. K. Tool Co., Inc. Inserted blade cutter. 2,805,468, 9-10-57, Cl. 29-105.
- Williams, Thurston V., to Williams & Hussey Machine Corp. Wood planers and other cutting machines. 2,780,251, 2-5-57, Cl. 144-130.
- Williams, Virgil C.: *See*—
Nickolls, Kenneth R., and Williams. 2,783,287.
- Williams, Virginia L. Adjustable chair. 2,796,114, 6-18-57, Cl. 155-25.
- Williams, William. Hairpin. 2,797,694, 7-2-57, Cl. 132-50.
- Williams, William A., to Seal-Press Inc. Refuse truck with packer and ejector plate. 2,777,588, 1-15-57, Cl. 214-82.
- Williams, William F., to General Motors Corp. Welding control system. 2,806,168, 9-10-57, Cl. 314-75.
- Williams, William J.: *See*—
Johnson, Glenn D., and Williams. 2,788,887.
- Williams, William J. Multiple switch speed controlled mechanism. 2,779,836, 1-29-57, Cl. 200-80.
- Williams, William R., Jr., and L. R. Williams. Green bean and pea shelling apparatus. 2,804,873, 9-3-57, Cl. 130-30.
- Williamson, William T. Simulated pocket handkerchief. 2,815,509, 12-10-57, Cl. 2-279.
- Williams, William W.: *See*—
Kartinos, Nicholas J., Normington, and Williams. 2,789,125.
- Williams & Williams Ltd.: *See*—
Fox-Williams, Jack. 2,803,321.
- Williams, Willis E., and H. L. Reed, to Chambers Corp. Fuel burning cooking unit. 2,806,464, 9-17-57, Cl. 126-39.
- Williams, Woodrow W., to the United States of America as represented by the Secretary of the Navy. Fluid-actuated packing arrangement for joint. 2,810,592, 10-22-57, Cl. 285-96.
- Williamson Adhesives, Inc.: *See*—
Williamson, Donald G., Snover, and H. A. and R. H. Andresen. 2,787,242.
- Williamson, Charlie. Portable air conditioner and cleaner. 2,776,553, 1-8-57, Cl. 62-129.
- Williamson, Clarence H., to The Youngstown Steel Door Co. Lading band anchors. 2,811,116, 10-29-57, Cl. 105-369.
- Williamson Co., The: *See*—
Calahan, William H. 2,800,282.
- Williamson, David T. N., to Ferranti Ltd. Graphical recording systems. 2,779,654, 1-29-57, Cl. 346-33.
- Williamson-Dickie Mfg. Co.: *See*—
Campbell, Emmett D. 2,803,830.
- Williamson, Donald E., to Baird Associates, Inc. Optical apparatus for collecting radiations from a field of view. 2,788,708, 4-16-57, Cl. 88-57.
- Williamson, Donald G., M. W. Snover, and H. A. and R. H. Andresen, to Williamson Adhesives, Inc. Coating applicator and method. 2,787,242, 4-2-57, Cl. 118-126.
- Williamson, James H., and P. R. Shively. Vehicle draft device with load adjusting means. 2,788,228, 4-9-57, Cl. 280-489.
- Williamson, James S.: *See*—
Newcomb, Walter J., and Williamson. 2,792,702.
- Williamson, James W., to The Ohio Crankshaft Co. High-frequency inductor block. 2,790,883, 4-30-57, Cl. 219-10.79.
- Willingham, John R. Hole enlarging and finishing tool. 2,816,464, 12-17-57, Cl. 77-58.
- Williamson, John T., to Thiele Kaolin Co. Process and apparatus for forming clay slip. 2,789,772, 4-23-57, Cl. 241-46.
- Williamson, Kenneth L.: *See*—
Rea, Stanley E., and Williamson. 2,787,185.
- Williamson, Lowell W. Live bait container. 2,790,266, 4-30-57, Cl. 43-55.
- Williamson, Marshall I.: *See*—
Ringle, William A., and Williamson. 2,792,111.
- Williamson, Marshall I. Reinforced easel construction for folding boxes and display panels. 2,783,013, 2-26-57, Cl. 248-196.
- Williamson, Marshall I. Lined folding boxes. 2,783,876, 3-5-57, Cl. 206-45.13.
- Williamson, Marshall I. Display boxes. 2,804,200, 8-27-57, Cl. 206-45.22.
- Williamson, Oscar H., to International Paper Co. Composite structural panel and method of making same. 2,794,761, 6-4-57, Cl. 154-118.
- Williamson, Robert R., to Stevens Research Foundation. Computing unit for addition and multiplication. 2,795,376, 6-11-57, Cl. 235-61.
- Williamson, T. D., Inc.: *See*—
Ver Nooy, Burton. 2,782,370.
- Ver Nooy, Burton. 2,782,407.
- Ver Nooy, Burton. 2,812,778.
- Williford, Alvin C.: *See*—
Williams, Fred R., and Williford. 2,783,832.
- Williford, Edward A., to Link Aviation, Inc. Improved electrical potentiometer. 2,812,408, 11-5-57, Cl. 201-56.
- Willinger, Harding W., and H. N. Nestler. Aquarium filter. 2,782,161, 2-19-57, Cl. 210-16.
- Willingham, John R., to Star Cutter Co. Tubular drill. 2,780,947, 2-12-57, Cl. 77-69.
- Willis, Clifford E.: *See*—
Schnurr, Murray E., and Willis. 2,800,111.
- Willis, Cornelius G. Underwater cable. 2,791,979, 5-14-57, Cl. 114-0.5.
- Willis, Cornelius G. and D. G.: said D. G. Willis assor. to said C. G. Willis. Marine well drilling apparatus. 2,777,669, 1-15-57, Cl. 255-2.5.
- Willis, David G.: *See*—
Willis, Cornelius G. and D. G. 2,777,669.
- Willis, Edward A., Jr., to the United States of America as represented by the Secretary of the Navy. Fluid current conveyor for fragile articles. 2,805,898, 9-10-57, Cl. 302-29.
- Willis, Elijah J. Fish pump. 2,794,685, 6-4-57, Cl. 302-14.
- Willis, Frank M. Self-fastening tire chains. 2,779,379, 1-29-57, Cl. 152-225.
- Willis, Gordon G., and C. A. Christian, to The Dow Chemical Co. Trichloroethylene stabilized with propargyl alcohol and pyrrole. 2,803,676, 8-20-57, Cl. 260-652.5.
- Willis, Grant N.: *See*—
Clary, Frank A., Jr., and Willis. 2,796,168.
- Willis, Grant N., R. M. Cate, and F. A. Clary, Jr. Depth charge arming device. 2,789,502, 4-23-57, Cl. 102-7.
- Willis, Grant N., and F. A. Clary, Jr., to The Martin-Senour Co. Dispensing machine. 2,796,194, 6-18-57, Cl. 222-1.
- Willis, Grant N., and F. A. Clary, Jr., to The Martin-Senour Co. Metering pump. 2,796,195, 6-18-57, Cl. 222-28.
- Willis, Grant N., and F. A. Clary, Jr., to The Martin-Senour Co. Dispensing valve. 2,811,171, 10-29-57, Cl. 137-635.
- Willis, Marvin. Dispenser for canned liquids. 2,777,609, 1-15-57, Cl. 222-86.
- Willis, Newton H.: *See*—
Armstrong, James K., Erickson, and Willis. 2,799,782.
- Erickson, Melvin E., Kern, and Willis. 2,809,812.
- Willis Oil Tool Co.: *See*—
Willis, Robert S. 2,783,644.
- Willis, Robert J. Feeder for livestock. 2,811,288, 10-29-57, Cl. 222-310.
- Willis, Robert S., to Willis Oil Tool Co. Apparatus for making tests in vessels and conduits containing fluids. 2,783,644, 3-5-57, Cl. 73-86.
- Willis, Robert W. Screw socket construction having tool guiding means formed therein. 2,777,353, 1-15-57, Cl. 85-45.
- Willis, Theodore R.: *See*—
Anderson, William G., Willis, and Hedgcock. 2,799,461.
- Willis, Victor M., and H. T. Gehring, to The Sherwin-Williams Co. Dual purpose tinting base. 2,809,122, 10-8-57, Cl. 106-308.

- Willis, William D., to Hercules Powder Co. Vulcanizable polysiloxane compositions containing a diaralkyl peroxide and process. 2,816,089, 12-10-57, Cl. 260-46.5.
- Willison, Donald: *See*—
Spence, Hubert L., and Willison. 2,781,135.
- Willison, Donald, to National Malleable and Steel Castings Co. Cushioning mechanism for railway vehicles. 2,801,010, 7-30-57, Cl. 213-45.
- Williston, Robert L.: *See*—
Riblet, Henry J., Saad, and Williston. 2,812,503.
- Willits, Glenn D.: *See*—
Staak, Louis E., and Willits. 2,816,199.
- Willke, Louis G., and C. G. Cullen, to Cities Service Oil Co. Hydrolysis of methylal. 2,776,318, 1-1-57, Cl. 260-606.
- Willmott, Herbert J., to United Shoe Machinery Corp. Heel end assembling machines. 2,778,040, 1-22-57, Cl. 12-12.3.
- Willcock, Harry E. Auxiliary rear axle mounting for trucks. 2,776,846, 1-8-57, Cl. 280-407.
- Willoughby, Richard B.: *See*—
Caples, Donald B., and Willoughby. 2,785,592.
- Willrich, Carl, P. Saretto, and S. Fasano. Turret indicator and stop. 2,797,488, 7-2-57, Cl. 33-125.
- Wills, Arnold R., to Les-Gro Mfg. Co., Inc. Plastic linkage having detachable links. 2,807,928, 10-1-57, Cl. 59-80.
- Wills, William H., to Metals & Controls Corp. Thermostatic device. 2,810,041, 10-15-57, Cl. 200-113.
- Willsee, Jasper. Bearing supports for roll printing machines. 2,776,619, 1-8-57, Cl. 101-247.
- Willsey, Charles H. Egg breaking machine. 2,792,040, 5-14-57, Cl. 146-2.
- Willsey, Charles H. Mechanism for separating egg whites from egg yolks. 2,815,055, 12-3-57, Cl. 146-2.
- Willsey, Charles H. Mechanism for separating egg whites from egg yolks. 2,818,096, 12-31-57, Cl. 146-2.
- Willwacher, Erwin, and H. Weber, to Telefunken Gesellschaft fuer drahtlose Telegraphie G. m. b. H. Coupling between microwave amplifier and wave guide. 2,806,951, 9-17-57, Cl. 250-36.
- Willyoung, David M., to General Electric Co. Dynamoelectric machine conductor with internal fluid cooling passages. 2,791,707, 5-7-57, Cl. 319-61.
- Wilman, Sigismund. Methods of and devices for promoting the filling of combustion chambers and facilitating the ignition in pulsatory reaction jets. 2,805,545, 9-10-57, Cl. 60-35.6.
- Wilman, Sigismund. Exhaust mufflers for internal combustion engines. 2,808,896, 10-8-57, Cl. 181-50.
- Wilmarth, Robert W.: *See*—
Bryant, John H., Peifer, and Wilmarth. 2,800,603.
- Wil-Mat Corp.: *See*—
Matthews, John T. 2,779,642.
- Willmot-Breeden Ltd.: *See*—
Chanaryn, Victor. 2,806,369.
Harman, Julius. 2,811,382.
Jeavons, Philip S. 2,777,719.
Jeavons, Philip S. 2,780,934.
Jeavons, Philip S. 2,800,787.
Tyrer, Ray, and Henshall. 2,811,383.
- Willmot Castle Co.: *See*—
Greppin, Ernest H. 2,809,281.
- Willmotte, Raymond M.: *See*—
Hess, Gerard C., Taylor, and Willmotte. 2,796,602.
- Willmotte, Raymond M., to Padeveco, Inc. Frequency modulated multiplex systems. 2,779,020, 1-22-57, Cl. 343-200.
- Willmotte, Raymond M., Inc.: *See*—
Carnine, Robert L. 2,810,883.
- Wilms, Carl A.: *See*—
Robbins, James S., and Wilms. 2,776,125.
- Wilksa, Yrjö. Phase comparator. 2,815,485, 12-3-57, Cl. 324-88.
- Wilson, Albert: *See*—
Davey, James R., and Wilson. 2,802,937.
- Wilson, Alonzo F. Level constructions. 2,810,198, 10-22-57, Cl. 33-88.
- Wilson, Alvin C. and H. K. Can flattening device. 2,800,160, 7-23-57, Cl. 153-10.5.
- Wilson, Arthur L. Electronic tube puller and replacer. 2,783,667, 3-5-57, Cl. 81-3.
- Wilson Arts & Crafts: *See*—
Dietrich, Wilson G. 2,790,726.
- Wilson, Ben L., and W. A. Lester. Spring mount for the adjacent ends of suspension springs in a dual axle system. 2,788,222, 4-9-57, Cl. 280-104.5.
- Wilson, Ben W.: *See*—
Hunter, Herbert T., and Wilson. 2,783,867.
- Wilson, Broadus, and H. M. Hincz, to Southern Air Conditioning Corp. Method for pre-cooling transportation vehicles. 2,778,206, 1-22-57, Cl. 62-171.
- Wilson, Bruce R.: *See*—
Thorp, Jeffrey Meyrick, and Wilson. 2,790,797.
- Wilson, Burchard W., to Royal Jet, Inc. Sheet metal container, and circumferential joint incorporated therein. 2,811,274, 10-29-57, Cl. 220-5.
- Wilson, Carl R.: *See*—
Langer, Alois, and Wilson. 2,784,486.
- Wilson, Charles, and A. T. Scheiwer, said Wilson assor. to said Scheiwer Check writing and balance indicating device. 2,804,265, 8-27-57, Cl. 235-58.
- Wilson, Charles A., to Standard Pressed Steel Co. Automatic feed for hollow set screws. 2,803,377, 8-20-57, Cl. 221-162.
- Wilson, Charles C. Fishing float or bobber. 2,787,079, 4-2-57, Cl. 43-14.87.
- Wilson, Charles E. Reciprocating cutting assembly. 2,803,936, 8-27-57, Cl. 56-25.
- Wilson, Charles H.: *See*—
Wilson, Percy H. 2,795,985.
- Wilson, Charles P., Jr., to W. R. Grace & Co. Silica-alumina cracking catalyst production. 2,777,822, 1-15-57, Cl. 252-453.
- Wilson, Chester T. Collet closer. 2,793,040, 5-21-57, Cl. 279-4.
- Wilson, Clarence R.: *See*—
Edwards, Evan A., and Wilson. 2,776,094.
- Wilson, Clarence T. Fabricating table for building panels. 2,810,414, 10-22-57, Cl. 144-288.
- Wilson & Co., Inc.: *See*—
Edgar, Albert C., and Spannuth. 2,800,410.
Garapolo, Orlando, and Pettiti. 2,811,974.
Lorimer, James P., and Steffenhagen. 2,779,368.
Mittelmann, Eugene. 2,816,034.
- Wilson, Cornelius J.: *See*—
Boni, Frank, Jr., Otten, and Wilson. 2,814,415.
- Wilson, David A. Collapsible saw. 2,781,806, 2-19-57, Cl. 145-33.
- Wilson, Don D. Fishing rod attachment. 2,799,112, 7-16-57, Cl. 43-19.2.
- Wilson, Donald K., to Bell Telephone Laboratories, Inc. Alloyed connections to semiconductors. 2,805,370, 9-3-57, Cl. 317-240.
- Wilson, Donald L.: *See*—
Rakowski, Lech, Williams, and Wilson. 2,782,089.
- Wilson, Doyne L., to Oil Base, Inc. Emulsion drilling fluid composition and method. 2,782,163, 2-19-57, Cl. 252-8.5.
- Wilson, Doyne L., to Oil Base, Inc. Drilling fluid and method. 2,801,967, 8-6-57, Cl. 252-8.5.
- Wilson, Edward D. Trigger type gaseous blow torch. 2,808,714, 10-8-57, Cl. 67-20.1.
- Wilson, Edward W., to Nashua Corp. Banding apparatus for forming packages. 2,781,621, 2-19-57, Cl. 53-198.
- Wilson, Eldon M., to United States Spring & Bumper Co. Hydrodynamic brake with rotor pumps. 2,790,518, 4-30-57, Cl. 188-90.
- Wilson, Eldon M., and J. V. Barnes, to Barclay Pharmaceutical Products Co. Hygienic syringe. 2,803,249, 8-20-57, Cl. 128-225.
- Wilson, Elvin K. Knife sharpener. 2,792,675, 5-21-57, Cl. 51-72.
- Wilson, Eugene I. Windrow divider and baler pickup extension. 2,783,606, 3-5-57, Cl. 56-364.
- Wilson, Florence H. Hydraulic dental spindle. 2,793,437, 5-28-57, Cl. 32-26.
- Wilson, Frank C., to K. B. Wilson, Inc. Hydraulic jack. 2,789,788, 4-23-57, Cl. 254-2.
- Wilson, Freddie W. Conductor supporting assembly. 2,786,885, 3-26-57, Cl. 174-168.
- Wilson, Gardiner C., to Armstrong Cork Co. Injection molding machine. 2,799,049, 7-16-57, Cl. 18-30.
- Wilson, George A., to I-T-E Circuit Breaker Co. Air puffer for circuit breakers. 2,787,686, 4-2-57, Cl. 200-148.
- Wilson, George A., to I-T-E Circuit Breaker Co. Circuit breaker operating mechanism. 2,813,950, 11-19-57, Cl. 200-106.
- Wilson, George D. D., to Rolls-Royce Ltd. Controls for internal combustion engines. 2,812,043, 11-5-57, Cl. 192-084.
- Wilson, George O.: *See*—
Halvorsen, James V., and Wilson. 2,802,705.
- Wilson, Glen S., to C. E. King. Toilet seat lifter. 2,812,522, 11-12-57, Cl. 4-241.
- Wilson, Glenn R., to Ethyl Corp. 9,11,13-octadecatrienyl-1,4-diol and other alcohols derived from oiticica oil. 2,800,516, 7-23-57, Cl. 260-635.
- Wilson, Glenn R., to Ethyl Corp. Alcohols derived from safflower seed oil. 2,803,671, 8-20-57, Cl. 260-632.
- Wilson, Glenn R., and M. S. Bayerian, to Ethyl Corp. Treatment of fatty acid esters and production of high molecular weight alcohols therefrom. 2,809,206, 10-8-57, Cl. 260-410.9.
- Wilson, Harold F.: *See*—
Craig, W. E., Riener, and Wilson. 2,783,284.
Craig, W. E., Shropshire, and Wilson. 2,776,988.
Craig, W. E., Shropshire, and Wilson. 2,776,989.
Craig, W. E., Shropshire, and Wilson. 2,794,054.
- Wilson, Harold F., E. Y. Shropshire, and W. E. Craig, to Rohm & Haas Co. Preparation of bis (halophenyl) trichloroethanol. 2,812,280, 11-5-57, Cl. 167-30.
- Wilson, Harold F., and E. L. Wolfe, to Rohm & Haas Co. Preparation of bis (chlorophenyl) trichloroethanol. 2,812,362, 11-5-57, Cl. 260-618.
- Wilson, Harvey L. Foot rests. 2,816,296, 12-17-57, Cl. 5-317.
- Wilson, Helen K.: *See*—
Wilson, Alvin C. and H. K. 2,800,160.
- Wilson, Herbert C. Paint brush holder. 2,808,960, 10-8-57, Cl. 220-85.
- Wilson, Howard L.: *See*—
Welch, Lester M., Wilson, and Turner. 2,781,334.

- Wilson, Irwin B., S. Ginsburg, and D. Nachmansohn, to United States of America as represented by the Secretary of the Army. Alkyl pyridinium salt, 2-carboxaldehyde oximes and process of preparation. 2,816,113, 12-10-57, Cl. 260-296.
- Wilson, Jack, to Universal Railway Devices Co. Hand brake for railroad cars. 2,808,915, 10-8-57, Cl. 192-16.
- Wilson, Jack K., N. E. and R. S. Woodworking plane with razor blade. 2,781,804, 2-19-57, Cl. 145-5.
- Wilson, Jack K., N. E., and R. S. Strip cutter. 2,785,749, 3-19-57, Cl. 164-61.
- Wilson, Jack L., to Union Carbide Corp. Automatic electric arc-stitch welding. 2,814,719, 11-26-57, Cl. 219-127.
- Wilson, Jack L., and A. M. Gonas, to Union Carbide and Carbon Corp. Vibrational dispenser for forming solid gas mixtures. 2,779,510, 1-29-57, Cl. 222-193.
- Wilson, James G. Methods for forming contact surfaces. 2,775,811, 1-1-57, Cl. 29-401.
- Wilson, James H., to Sturgis Posture Chair Co. Method of making fiber-reinforced plastic parts. 2,794,760, 6-4-57, Cl. 154-110.
- Wilson, James H., to Sturgis Posture Chair Co. Self-levelling supporting base. 2,805,034, 9-3-57, Cl. 248-194.
- Wilson, John: *See—*
Audas, Francis G., and Wilson. 2,785,478.
- Wilson, John, to Massey-Harris-Ferguson Inc. Hitch means with resiliently loaded extensible strut. 2,786,695, 3-26-57, Cl. 280-479.
- Wilson, John C., to The Thompson Grinder Co. Grinding machine and method of operation. 2,785,511, 3-19-57, Cl. 51-134.5.
- Wilson, John C. Refuse conveyor. 2,799,388, 7-16-57, Cl. 198-171.
- Wilson, John E., Jr. Cammed terminal clamp for a battery cable. 2,807,000, 9-17-57, Cl. 339-236.
- Wilson, John H. Engine compound for drilling rigs. 2,784,557, 3-12-57, Cl. 60-97.
- Wilson, John H. Mud pump piston. 2,785,025, 3-12-57, Cl. 309-4.
- Wilson, John H. Fluid cylinders. 2,803,224, 8-20-57, Cl. 121-46.
- Wilson, John H. Quick detachable joints. 2,803,474, 8-20-57, Cl. 287-129.
- Wilson, John H. Reversing mechanisms. 2,809,530, 10-15-57, Cl. 74-220.
- Wilson, John H. Threaded nut ring for shaft coupling. 2,815,231, 12-3-57, Cl. 287-53.
- Wilson, John M.: *See—*
Stavnes, Sigward A., and Wilson. 2,801,826.
- Wilson, John O. Trailer hitch shock absorber. 2,783,039, 2-26-57, Cl. 267-1.
- Wilson, John R., to Hanlon & Wilson Co. Rail bonds. 2,795,442, 6-11-57, Cl. 287-20.3.
- Wilson, John R., to Hanlon & Wilson Co. Heat exchanger, especially for airplanes. 2,801,828, 8-6-57, Cl. 257-16.
- Wilson, John T. R.: *See—*
Bullen, Clark V., and Wilson. 2,818,478.
- Wilson, John W., and R. L. Henry, to The Cincinnati Milling Machine Co. Spindle positioning mechanism. 2,790,280, 4-30-57, Cl. 51-237.
- Wilson Jones Co.: *See—*
Cairelli, Eremeldo, and Rundblad. 2,813,440.
Marano, Herbert W. 2,777,283.
Marano, Herbert W. 2,790,494.
Marano, Herbert W. 2,797,752.
- Wilson, Joseph E., to Union Carbide and Carbon Corp. Stabilized vinyl chloride compositions. 2,789,100, 4-16-57, Cl. 260-31.8.
- Wilson, Joseph E., to Union Carbide and Carbon Corp. Vinyl chloride compositions. 2,789,101, 4-16-57, Cl. 260-31.8.
- Wilson, K. R., Inc.: *See—*
Wilson, Frank D. 2,789,788.
- Wilson, Lee: *See—*
Blackman, Calvin C. 2,789,808.
Blackman, Calvin C. 2,815,197.
- Wilson, Mack. Shaving attachment for electric shavers. 2,783,533, 3-5-57, Cl. 30-29.5.
- Wilson, Marion C.: *See—*
Zikmund, Bohumil A., and Wilson. 2,810,354.
- Wilson, Marion C., E. Veselik, and B. A. Zikmund, to Calumet Steel Castings Corp. Retractable wheel chock. 2,816,627, 12-17-57, Cl. 188-32.
- Wilson, Marvin J. Vehicle washing machine. 2,804,635, 9-3-57, Cl. 15-21.
- Wilson, Norman A.: *See—*
Morgan, Myles, and Wilson. 2,810,569.
- Wilson, Norman A., to Morgan Construction Co. Reeling apparatus for cooling hot rod. 2,810,570, 10-22-57, Cl. 266-6.
- Wilson, Norman E.: *See—*
Wilson, Jack K., N. E., and R. S. 2,781,804.
Wilson, Jack K., N. E., and R. S. 2,785,749.
- Wilson, Paul H.: *See—*
Wegman, Ernest C., and Wilson. 2,814,955.
- Wilson, Percy H., deceased, by C. H., and A. W. Lamb, executors, to the Stanton Ironworks Co. Ltd. Joints in pipes. 2,795,985, 6-18-57, Cl. 81-57.
- Wilson, Porter A.: *See—*
Foster, Robert W., and Wilson. 2,785,414.
- Wilson, Ray: *See—*
Wheeler, George D., and Wilson. 2,781,462.
- Wilson, Ray I., to Arnold O. Beckman, Inc. Gas analysis cell. 2,807,159, 9-24-57, Cl. 73-27.
- Wilson, Raymond W.: *See—*
Previk, Ralph C., and Wilson. 2,780,161.
- Wilson Refrigeration, Inc.: *See—*
Pusey, Raymond D. 2,785,545.
- Wilson, Reginald D. Planetary parking structure. 2,792,105, 5-14-57, Cl. 198-211.
- Wilson, Rex C., to Muntz TV, Inc. TV receiver circuit. 2,786,159, 3-19-57, Cl. 315-96.
- Wilson, Richard. Scroll-supporting device. 2,795,066, 6-11-57, Cl. 40-95.
- Wilson, Robert A.: *See—*
Thompson, John W., Wilson, and Holland. 2,808,782.
- Wilson, Robert A., to The Galigher Co. Impeller drive for autoclaves. 2,806,364, 9-17-57, Cl. 64-1.
- Wilson, Robert C. Racing game apparatus. 2,776,835, 1-8-57, Cl. 273-86.
- Wilson, Robert F., and V. J. Mattson, to The Firestone Tire & Rubber Co. Fuel cell supporting panel. 2,779,702, 1-29-57, Cl. 154-43.5.
- Wilson, Robert L.: *See—*
Turnquist, Edwin W., and Wilson. 2,776,031.
- Wilson, Robert S.: *See—*
Wilson, Jack K., N. E., and R. S. 2,781,804.
Wilson, Jack K., N. E., and R. S. 2,785,749.
- Wilson, Robert W. Tobacco priming device. 2,816,411, 12-17-57, Cl. 56-27.5.
- Wilson, Rodney S. Combination utility basket. 2,808,171, 10-1-57, Cl. 217-124.
- Wilson, Ross: *See—*
Odle, John D., and Wilson. 2,784,805.
- Wilson, Rosser L., to American Brake Shoe Co. Drive shaft assemblies. 2,778,209, 1-22-57, Cl. 64-1.
- Wilson, Rosser L., and E. R. Knauer, to American Brake Shoe Co. Wheel slip detector. 2,778,008, 1-15-57, Cl. 340-268.
- Wilson, Roy E.: *See—*
Dehn, William F., and Wilson. 2,791,665.
- Wilson, Roy W. Plant setter. 2,775,948, 1-1-57, Cl. 111-4.
- Wilson, Roy W. Fish snare. 2,811,803, 11-5-57, Cl. 43-36.
- Wilson Rubber Co., The: *See—*
Lenhart, George B. 2,814,069.
- Wilson, Rufus W., to Wald Industries Inc. Spraying apparatus. 2,797,963, 7-2-57, Cl. 299-23.5.
- Wilson, Rufus W., to Wald Industries Inc. Surface marking apparatus. 2,798,765, 7-9-57, Cl. 299-25.
- Wilson, Rufus W., and R. B. Bagshaw, to Wald Industries, Inc. Surface marking apparatus. 2,788,240, 4-9-57, Cl. 299-25.
- Wilson, Russell W., R. J. Miller, and P. P. Long, to El-Ge Vending Co. Dispensing machine. 2,789,726, 4-23-57, Cl. 221-84.
- Wilson, Samuel A. Dehydration of gaseous streams. 2,818,454, 12-31-57, Cl. 260-676.
- Wilson, Samuel W.: *See—*
Delaune, Elaine T., Wilson, and Mayeux. 2,805,262.
Nimeroff, Isadore, and Wilson. 2,802,390.
- Wilson, Samuel W., to Esso Research and Engineering Co. Benzene purification process by treatment with sulfuric acid. 2,780,662, 2-5-57, Cl. 260-674.
- Wilson, Stanley F.: *See—*
Edwards, Stephen P., Johnson, Reed, and Wilson. 2,802,717.
- Wilson, Sydney, and J. E. Conacher, to Blaw Knox Ltd. Apparatus for storing and transporting powdered material. 2,793,084, 5-21-57, Cl. 302-35.
- Wilson, Theodore R., to Boeing Airplane Co. Anti-skid brake control system. 2,788,186, 4-9-57, Cl. 244-111.
- Wilson, Thomas A.: *See—*
Devonshire, William H., Wilson, and Parker. 2,817,747.
- Wilson, Volney C., W. P. Overbeck, L. Slotin, and D. K. Froman, to the United States of America as represented by the United States Atomic Energy Commission. Means for controlling a nuclear reactor. 2,816,860, 12-17-57, Cl. 204-193.2.
- Wilson, Web, Oil Tools, Inc.: *See—*
Palmer, Melvin J. 2,814,087.
Palmer, Melvin J., and Wilson. 2,814,522.
- Wilson, Willard W. Carton with reclosable spout. 2,818,207, 12-31-57, Cl. 229-17.
- Wilson, William A.: *See—*
Palmer, Melvin J., and Wilson. 2,814,522.
- Wilson, William A., and T. O. Wehrle, to Esso Research and Engineering Co. White oil process. 2,788,310, 4-9-57, Cl. 196-40.
- Wilson, William B.: *See—*
North, Edwin W., and Wilson. 2,814,194.
- Wilson, William F. Signal device for storage tank. 2,790,871, 4-30-57, Cl. 200-84.
- Wilson, William J., to Sanders Associates, Inc. Attenuators. 2,803,805, 8-20-57, Cl. 333-81.
- Wilson, William K.: *See—*
Halford, Frank B., and Wilson. 2,795,393.
- Wilson, William L., to Columbia-Southern Chemical Corp. Removal of chlorine from HCl. 2,787,523, 4-2-57, Cl. 23-154.
- Wilson, William L., to Meter Advertising Co. Parking meter attachment. 2,798,325, 7-9-57, Cl. 40-145.
- Wilson, William O.: *See—*
Quick, William G., and Wilson. 2,813,325.

- Wilson, William P., to United States Borax & Chemical Corp. Extraction method and apparatus. 2,792,289, 5-14-57, Cl. 23-310.
- Wilson, William P., to United States Borax & Chemical Corp. Cloth discharge filter. 2,812,065, 11-5-57, Cl. 210-393.
- Wilson, William S.: *See*—
- White, John F., and Wilson. 2,807,588.
- Wilson, Woodrow S., M. A. Carabel, and D. M. Malick. Dispensing closures. 2,793,795, 5-28-57, Cl. 222-536.
- Wilson, Woodrow S., M. A. Carabel, and D. M. Malick, to Polete, Inc. Container structures. 2,800,259, 7-23-57, Cl. 222-534.
- Wilson, Woodrow W., to the United States of America as represented by the Secretary of the Air Force. Air driven tow target reel. 2,778,584, 1-22-57, Cl. 244-3.
- Wilson, Zacariah J. Cultivator. 2,791,955, 5-14-57, Cl. 97-52.
- Wilson's, William M., Sons, Inc.: *See*—
- Dunning, Leighton. 2,813,660.
- Wilton, Henry T.: *See*—
- Herrmann, John F., Wilton, and Sanni. 2,803,993.
- Wilttrout, Creed A. Rib belt. 2,800,902, 7-30-57, Cl. 128-167.
- Wilts United Dairies Ltd.: *See*—
- Taunton, Gerald. 2,778,171.
- Taunton, Gerald. 2,778,173.
- Wiltse, Sumner D. Pipe coupling with fluid pressure sensitive sleeve type gasket. 2,804,318, 8-27-57, Cl. 285-109.
- Wiltsey, Howard E., to J. I. Case Co. Over-running and torque limiting clutch. 2,803,325, 8-20-57, Cl. 192-46.
- Wiltsey, Howard E., and D. J. Christenson, to J. I. Case Co. Ratchet wrench. 2,796,790, 6-25-57, Cl. 81-60.
- Wimmer, Anton. Process of producing pig iron and steel. 2,782,115, 2-19-57, Cl. 75-40.
- Wimmer, Ernest L.: *See*—
- Cantor, Sidney M., and Wimmer. 2,779,692.
- Wimmer, Josef: *See*—
- Gerstner, Ferdinand, and Wimmer. 2,803,588.
- Winberg, Ragnar W. Feed means for sewing machines. 2,777,409, 1-15-57, Cl. 112-214.
- Winberg, Ragnar W., to O and W Sewing Machine Attachments, Inc. Clip-forming and clenching mechanisms. 2,804,621, 9-3-57, Cl. 1-177.
- Winberg, Ragnar W., to O and W Sewing Machine Attachments, Inc. Clip-forming and clenching mechanisms. 2,804,622, 9-3-57, Cl. 1-177.
- Winchester, Amos J., Jr., and S. J. Campbell, to Westinghouse Electric Corp. Reel motor control systems. 2,798,991, 7-9-57, Cl. 318-6.
- Winchester, John H., and W. S. Edwards, to The Eagle-Picher Co. Method of making contoured flocked articles. 2,801,947, 8-6-57, Cl. 154-110.
- Winchester, Paul D.: *See*—
- De Roo, William C., Winchester, and Kietzmann. 2,784,659.
- Winckler, John R.: *See*—
- Ney, Edward P., Winckler. 2,783,002.
- Winckler, Louise E. Dust mop envelope and combination. 2,815,521, 12-10-57, Cl. 15-118.
- Wind, Harry A. Earth moving machine. 2,806,304, 9-17-57, Cl. 37-9.
- Wind Turbine Co.: *See*—
- Veldhuis, Albert C. 2,786,927.
- Windeler, Alfred S.: *See*—
- Henning, George E., and Windeler. 2,778,059.
- Winder, Samuel E., 1/2 to Henry C. Daubenspeck. Bottle forming machine. 2,811,814, 11-5-57, Cl. 49-9.
- Windisch, Heinz, to Hartford National Bank and Trust Co., as trustee. Electro-acoustic transmission system for stereophonic sound phenomena. 2,784,253, 3-5-57, Cl. 179-1.
- Windle, Carl A. Resilient heel construction. 2,807,100, 9-24-57, Cl. 36-35.
- Windmüller & Hölischer: *See*—
- Paul, Walter. 2,778,425.
- Wine, William E., deceased; W. J. Gibson and O. Ingram, executors, to Unitcast Corp. Hopper door frame. 2,784,679, 3-12-57, Cl. 105-280.
- Wineka, Wilbur N. Oscillating support for use on grinding machines. 2,791,872, 5-14-57, Cl. 51-238.
- Wineman, Robert J.: *See*—
- Anagnostopoulos, Constantine E., and Wineman. 2,802,871.
- Winer, Ephraim, to The National Plastic Products Co. Panel construction. 2,797,447, 7-2-57, Cl. 20-15.
- Winfield Co., Inc.: *See*—
- Frank, Richard J. 2,798,533.
- Winfield, John L.: *See*—
- Baker-Carr, Edgar D. S., and Winfield. 2,799,981.
- Winfield, John L., to Glaxo Laboratories Ltd. Closures for bottles, vials and the like. 2,783,908, 3-5-57, Cl. 215-37.
- Wing, George S., to Hi-Shear Rivet Tool Co. Chamfering tool. 2,785,593, 3-19-57, Cl. 77-73.5.
- Wing, George S., and V. A. Tauscher, to Hi-Shear Rivet Tool Co. Fluid actuated pulling and rotating tool. 2,789,619, 4-23-57, Cl. 153-21.
- Wing, George S., and M. E. Cessna, to Hi-Shear Rivet Tool Co. Slotted screw head and driver therefor having non-burring engagement. 2,792,039, 5-14-57, Cl. 145-50.
- Wing, Howard. Display stand. 2,791,360, 5-7-57, Cl. 223-68.
- Wing, James H.: *See*—
- Whitney, Donald B., Wing, and Haynes. 2,792,748.
- Wingard, James K., to E. W. Bliss Co. Coil transfer mechanism. 2,802,586, 8-13-57, Cl. 214-147.
- Wingate, Donald E., to Surface Combustion Corp. Heat treating apparatus. 2,776,134, 1-1-57, Cl. 266-4.
- Wingate, Joseph W. Crimping tool for tube fittings. 2,813,442, 11-19-57, Cl. 81-15.
- Wingate, Norman L. Garment hanger. 2,810,500, 10-22-57, Cl. 223-89.
- Wingert, Raymond R., to Motorola, Inc. Television receiver. 2,806,945, 9-17-57, Cl. 250-20.
- Winget, James L.: *See*—
- Tripp, Robert W., and Winget. 2,799,835.
- Wingleman, Charles M., to Belden Mfg. Co. Splice detection procedures and apparatus. 2,778,991, 1-22-57, Cl. 324-34.
- Wingen, Heinz, to Robeson Cutlery Co., Inc. Handle for hunting knives. 2,787,059, 4-2-57, Cl. 30-342.
- Winkel, Herbert C. Multiple mold grid molding, trimming and sorting machines. 2,789,317, 4-23-57, Cl. 18-34.
- Winkel, Herbert C. Group burning fixture. 2,808,800, 10-8-57, Cl. 113-59.
- Winkelman, Jack A.: *See*—
- Gutridge, Jack E., and Winkelman. 2,818,033.
- Winklepleck, Roy G.: *See*—
- Jensen, Arthur, Vickland, and Winklepleck. 2,797,429.
- Winkler, Albert H., to Bendix Aviation Corp. Carburetor. 2,810,559, 10-22-57, Cl. 261-23.
- Winkler, Fridolin. Dough rounding machine. 2,790,397, 4-30-57, Cl. 107-9.
- Winkler, Edward J., to No-Sag Spring Co. Spring strip having soft edge extending end. 2,800,167, 7-23-57, Cl. 155-179.
- Winkler, Herman E., and H. F. Murphy, to Stewart-Warner Corp. Air conditioning means. 2,817,217, 12-24-57, Cl. 62-129.
- Winkler, Eva M., to the United States of America as represented by the Secretary of the Navy. Stagnation temperature probe. 2,798,893, 7-9-57, Cl. 136-4.
- Winkler, Raymond W.: *See*—
- Jahnig, Charles E., Kaulakis, and Winkler. 2,789,696.
- Winkler, Raymond W., H. Z. Martin, and A. P. Kaulakis, to Esso Research and Engineering Co. Treating hydrocarbon oils. 2,789,695, 4-23-57, Cl. 210-80.
- Winkler, Stanley: *See*—
- Heynick, Louis N., Schnee, Winkler, and Wohl. 2,799,824.
- Winkley, Albert W., to Joseph Lucas (Industries) Ltd. Interrupters for engine spark-ignition apparatus. 2,801,304, 7-30-57, Cl. 200-30.
- Winko-Matic Signal Co.: *See*—
- Hart, Irvin M. 2,793,356.
- Winn, Francis W., to the United States of America as represented by the United States Atomic Energy Commission. Nitric acid recovery and purification. 2,776,189, 1-1-57, Cl. 23-158.
- Winn, Fred M., Jr., and C. W. Stoskopf, to The Dow Chemical Co. Materials blending and dispensing apparatus. 2,797,070, 6-25-57, Cl. 259-3.
- Winn, Richard B.: *See*—
- Amblard, Marcel E., and Winn. 2,795,195.
- Winnan, Russell M., to American Screen Products Co. Storm sash frame structure. 2,810,460, 10-22-57, Cl. 189-76.
- Winnen, Franklyn E.: *See*—
- Benjamin, Milton L., and Winnen. 2,776,839.
- Benjamin, Milton L., and Winnen. 2,785,579.
- Benjamin, Milton L., and Winnen. 2,788,120.
- Benjamin, Milton L., and Winnen. 2,793,547.
- Winner, Arthur J. Valve lifter. 2,798,285, 7-9-57, Cl. 29-220.
- Winner Mfg. & Sales Co.: *See*—
- Van Scoyk, Melvin W. 2,814,073.
- Winner, Ralph R.: *See*—
- Prendergast, John, and Winner. 2,802,563.
- Winner, Wade W., Jr., to United States Steel Corp. Immersion type thermocouple. 2,785,216, 3-12-57, Cl. 136-4.
- Winograd, Harold, to Allis-Chalmers Mfg. Co. Rectifier disconnecting system responsive to inoperativeness of several units. 2,807,771, 9-24-57, Cl. 321-14.
- Winona Tool Mfg. Co.: *See*—
- Fuglie, Elmer A., and Weinmann. 2,793,868.
- Winpower Mfg. Co.: *See*—
- Tufford, Robert D. 2,790,289.
- Tufford, Robert D. 2,790,290.
- Tufford, Robert D. 2,800,757.
- Winslett, Lucile B. Adjustable and reversible diaper. 2,808,831, 10-8-57, Cl. 128-284.
- Winslow Aerofilter Corp.: *See*—
- Winslow, Charles A. 2,779,433.
- Winslow, Albert E.: *See*—
- Andrews, Allen R., and Winslow. 2,781,628.
- Winslow, Albert E., to Standard Screw Co. Textile spindle. 2,781,629, 2-19-57, Cl. 57-135.
- Winslow, Arthur F.: *See*—
- Hull, Edwin H., and Winslow. 2,811,467.
- Winslow, Charles A., to Winslow Aerofilter Corp. Air filter. 2,779,433, 1-29-57, Cl. 183-58.
- Winslow, Charles A. Oil filter and air separator. 2,811,218, 10-29-57, Cl. 183-2.5.
- Winslow, Charles A. Oil filter and air separator. 2,811,220, 10-29-57, Cl. 183-3.

- Winslow, Edward H.: *See*—
Fuller, Bradley, and Winslow. 2,796,036.
- Winslow, Elizabeth L.: *See*—
Hull, Edwin H., and Winslow. 2,811,467.
- Winslow, Field H., to Bell Telephone Laboratories, Inc. Method of purifying volatile compounds of germanium and silicon. 2,812,235, 11-5-57, Cl. 23-87.
- Winslow, Howard L., Jr., to American Sisalkraft Corp. Method of making an asphalt bonded paper laminate and product. 2,796,375, 6-18-57, Cl. 154-138.
- Winson, Jonathan, to Air Baby, Inc. Mitten. 2,782,421, 2-26-57, Cl. 2-158.
- Winson, Jonathan. T-joints for separable tubular members. 2,799,519, 7-16-57, Cl. 285-156.
- Winson, Jonathan, to Air Baby, Inc. Mitten. 2,809,376, 10-15-57, Cl. 2-158.
- Winson, Jonathan, to Air Baby, Inc. Method of manufacture of mitten. 2,809,377, 10-15-57, Cl. 2-169.
- Winsor, Travis W. Digital plethysmograph. 2,813,525, 11-19-57, Cl. 128-206.
- Winstanley, Samuel, Jr. Combined matchbook and cigarette package. 2,802,566, 8-13-57, Cl. 206-48.
- Winstead, Guy D.: *See*—
Sublett, Verner B., and Winstead. 2,790,233.
- Winstead, Thomas W., to Hedwin Corp. Plastic book binder. 2,790,651, 4-30-57, Cl. 281-29.
- Winsten, Walter A., and L. Kirshenbaum, to the United States of America as represented by the United States Atomic Energy Commission. Method for determining boron fluoride ether complex in a composition. 2,787,529, 4-2-57, Cl. 23-230.
- Winston, Adolph A.: *See*—
De Maya, Charles B., and Winston. 2,783,152.
- Winston, Eric: *See*—
Arbeiter, Henry J., and Winston. 2,777,894.
- Winston, Maynard B.: *See*—
Davis, Gerald M., Fowler, and Winston. 2,793,132.
Davis, Gerald M., and Winston. 2,785,989.
- Winstrom, Leon O., to Allied Chemical & Dye Corp. Catalyst reactivation in the hydrogenation of phenol to cyclohexanol. 2,794,056, 5-28-57, Cl. 260-631.
- Winstrom, Leon O., to Allied Chemical & Dye Corp. Production of cis-cyclohexane-1,2-dicarboxylic anhydride. 2,794,811, 6-4-57, Cl. 260-346.3.
- Wintemberg, Adelbert C.: *See*—
Ross, Alexander, Wintemberg, and Gilchrist. 2,797,649.
Ross, Alexander, Wintemberg, and Gilchrist. 2,797,650.
- Winter, Arthur G.: *See*—
Olson, Elmer, and Winter. 2,810,560.
- Winter, Arthur G., to General Motors Corp. Carburetor. 2,798,704, 7-9-57, Cl. 261-39.
- Winter, August, and H. Büchelmaier, to Zahnradfabrik Friedrichshafen. Clutch device. 2,812,840, 11-12-57, Cl. 192-67.
- Winter, August P., to Winters' Dump Co. Ltd. Apparatus for unloading railway cars. 2,797,000, 6-25-57, Cl. 214-47.
- Winter, Charles H., Jr., to E. I. du Pont de Nemours and Co. Process of refining metals. 2,817,585, 12-24-57, Cl. 75-84.1.
- Winter, Charles H., Jr., and J. N. Tully, to E. I. du Pont de Nemours & Co. Purification of refractory metals. 2,778,726, 1-22-57, Cl. 75-84.5.
- Winter, Charles L., and J. E. Euth, to Uarco, Inc. Stationary advancing mechanism for a writing machine. 2,788,108, 4-9-57, Cl. 197-114.
- Winter, Charles V. Adjustable head golf club. 2,777,694, 1-15-57, Cl. 273-79.
- Winter, Emil O. Fish lure. 2,803,916, 8-27-57, Cl. 43-42.41.
- Winter, Ernest F.: *See*—
Thomas, Alun, and Winter. 2,792,058.
- Winter, Erno, to Egyesült Izzólámpa és Villamossági Részvénytársaság. Cathode-ray tubes for use in television receivers. 2,798,180, 7-2-57, Cl. 313-82.
- Winter, Harry D., and W. J. Goodman. Double clutch drive mechanism. 2,789,444, 4-23-57, Cl. 74-665.
- Winter, Mahlon A.: *See*—
Schulze, Richard B., Hessler, Davison, and Winter. 2,796,253.
- Winter, Otto, and G. Dassler, to Olympia Werke Aktiengesellschaft. Detachable cover hood for a typewriting machine. 2,782,895, 2-26-57, Cl. 197-186.
- Winter, Paul H., to Pass & Seymour, Inc. Industrial snap switch. 2,813,943, 11-19-57, Cl. 200-67.
- Winterburn, John, and D. H. Jones, to Armstrong Siddeley Motors Ltd. Fastening mechanism. 2,815,237, 12-3-57, Cl. 292-256.71.
- Wintergreen, Charles J.: *See*—
Goldenberg, Abraham, and Wintergreen. 2,802,906.
- Winterhalter, Ludwig. Process for the preparation of amino-methyl-(monohydroxyphenyl)-ketones. 2,786,871, 3-26-57, Cl. 260-570.5.
- Winterhoff, Henry R. Demountable appliance support. 2,812,150, 11-5-57, Cl. 248-223.
- Wintermute, Harry A., to Research Corp. Electrical precipitator voltage control. 2,783,388, 2-26-57, Cl. 250-83.6.
- Wintermute, Harry A., to Research Corp. Apparatus for collecting suspended particles. 2,789,658, 4-23-57, Cl. 183-7.
- Wintermute, Harry A., to Research Corp. Electrode vibrating apparatus. 2,814,356, 11-26-57, Cl. 183-7.
- Winternitz, Paul F., to Reaction Motors, Inc. Operating internal combustion burners of the jet motor type. 2,794,316, 6-4-57, Cl. 60-35.6.
- Winters, Arthur. Shaft positioning and position indicating apparatus. 2,780,200, 2-5-57, Cl. 116-124.
- Winters, Charles E.: *See*—
Ruhoff, John R., and Winters. 2,813,001.
- Winters, Charles E., to the United States of America as represented by the United States Atomic Energy Commission. Uranium purification process. 2,813,002, 11-12-57, Cl. 23-14.5.
- Winters, Daniel R. Automatic approach alarm. 2,789,282, 4-16-57, Cl. 340-25b.
- Winters, Donald F.: *See*—
Redding, Arnold H., and Winters. 2,812,715.
- Winters' Dump Co. Ltd.: *See*—
Winter, August P. 2,797,000.
- Winters, James R.: *See*—
Agostini, Victor A., and Winters. 2,783,896.
- Winters, John B.: *See*—
Hull, Richard O., and Winters. 2,801,963.
- Winters, John B., to A. F. Hull and A. Medert as co-trustees. Method of electrodepositing zinc. 2,791,554, 5-7-57, Cl. 204-55.
- Winters, John D., to Fansteel Metallurgical Corporation. Powder pressing machine. 2,798,255, 7-9-57, Cl. 18-20.
- Winters, Robert W., R. M. Gray, and T. T. Furtak, to Olin Mathieson Chemical Corp. Flashlight switch. 2,779,832, 1-29-57, Cl. 200-60.
- Wintersberger, Karl: *See*—
Jockers, Kurt, Meier, and Wintersberger. 2,798,791.
- Wintgens, Carl, to Pittsburgh Plate Glass Co. Apparatus for surfacing articles. 2,780,035, 2-5-57, Cl. 51-72.
- Winther, Howard, to The Symington-Gould Corp. Resilient coupler carriers. 2,807,375, 9-24-57, Cl. 213-61.
- Winther, Jerrold B. Tube analyzer. 2,790,139, 4-23-57, Cl. 324-27.
- Winther, Jerrold B., to Eaton Mfg. Co. Control circuit for a magnetic clutch. 2,817,028, 12-17-57, Cl. 310-95.
- Winther, Martin P., to Eaton Mfg. Co. Power transmitting mechanism. 2,777,965, 1-15-57, Cl. 310-105.
- Winther, Martin P., to Eaton Mfg. Co. Vehicle acceleration control. 2,788,872, 4-16-57, Cl. 192-052.
- Winther, Martin P., to Eaton Mfg. Co. Reversing electromagnetic drive. 2,794,525, 6-4-57, Cl. 192-51.
- Winther, Martin P., to Eaton Mfg. Co. Automatic transmission. 2,809,534, 10-15-57, Cl. 74-472.
- Winther, Martin P., to Eaton Mfg. Co. Hydromechanical transmission. 2,812,670, 11-12-57, Cl. 74-720.
- Winther, Martin P., to Eaton Mfg. Co. Magnetic fluid clutch with laminated rotor. 2,818,148, 12-31-57, Cl. 192-21.5.
- Winthrop-Atkins Co., Inc.: *See*—
Nichols, Gordon E. 2,787,067.
Nichols, Gordon E. 2,787,853.
Nichols, Gordon E. 2,798,322.
Nichols, Gordon E. 2,810,974.
- Winthrop, Stanley O., to American Home Products Corp. 2-(di-lower alkylaminoethylmercapto)-imidazolines and their acid addition salts and preparation thereof. 2,813,102, 11-12-57, Cl. 260-309.6.
- Wintle, Thomas D. G., to J. A. Crabtree & Co. Ltd. Electric snap-action switches. 2,809,247, 10-8-57, Cl. 200-67.
- Winton, Neil A. and W. A. Parakeet exercise perch. 2,808,807, 10-8-57, Cl. 119-26.
- Winton, William A.: *See*—
Winton, Neil A. and W. A. 2,808,807.
- Wintriss, George, to Wintriss Inc. One-piece pneumatic sound maker with vibrating reed. 2,785,507, 3-19-57, Cl. 46-180.
- Wintriss, Inc.: *See*—
Ragazzo, Vivian. 2,785,506.
Wintriss, George. 2,785,507.
- Wintrade, Warner C.: *See*—
Bartz, Melvin C., and Wintrade. 2,793,327.
- Winz, Karl, to G. M. Pfaff A.-G. Motor couplings for sewing and the like machines. 2,800,209, 7-23-57, Cl. 192-14.
- Winzeler, John W.: *See*—
Strong, Harry H., Hatch, Winzeler, and Starks. 2,789,245.
- Wipf, Ivan R. Measuring device. 2,807,168, 9-24-57, Cl. 73-427.
- Wirant, Sylvester V. Means for checking landing gear tire pressures and for freeing jammed landing gear. 2,807,161, 9-24-57, Cl. 73-81.
- Wiremold Co., The: *See*—
Murphy, Robert H. 2,790,653.
- Wire-O Corp.: *See*—
Brook, Arthur F. 2,781,797.
Cruzan, Charles C. 2,788,156.
- Wirkkala, Albert R. Log handling tongs. 2,786,709, 3-26-57, Cl. 294-118.
- Wirkkala, Paul O. Tong line socket. 2,789,003, 4-16-57, Cl. 294-74.
- Wirth, Friedrich: *See*—
Breuer, Alfred, and Wirth. 2,780,114.
Kroper, Hugo, Rau, and Wirth. 2,792,436.
- Wirth, Max M., to The British Petroleum Co. Ltd. Production of acetic acid and esters thereof. 2,818,428, 12-31-57, Cl. 260-495.

- Wirth, Walter V.: See—
Klein, David X., and Wirth. 2,782,092.
- Wirth, Walter V., and S. E. Krahler, to E. I. du Pont de Nemours and Co. Triisocyanatodiphenyl ethers and sulfides. 2,786,864, 3-26-57, Cl. 260—453.
- Wirz, Arnold. Fluid power transmission mechanism. 2,804,017, 8-27-57, Cl. 103—3.
- Wischmeyer, Carl R., to Esso Research and Engineering Co. Frequency discriminator. 2,804,546, 8-27-57, Cl. 250—27.
- Wisco Aluminum Corp.: See—
Carlson, Gunnar V. 2,780,327.
- Wisconsin Alumni Research Foundation: See—
Eisenhauer, Hugh R., and Link. 2,786,065.
Johnson, William S., Bannister, and Rogier. 2,810,758.
Knight, Stanley G. 2,786,762.
Link, Karl P. 2,777,859.
Link, Karl P. 2,783,177.
Robertson, Alice O. and D. N., and Link. 2,779,762.
Robertson, Alice O. and D. N., and Link. 2,779,768.
Rosen, Walter G., and Skoog. 2,793,974.
Stahmann, Mark A., Allen, Casida, and Chapman. 2,814,636.
Wurster, Dale E. 2,799,241.
- Wisconsin Window Unit Co.: See—
Semling, Donald E. 2,781,090.
- Wise, David S.: See—
Cerveny, Walter J., and Wise. 2,788,446.
- Wise, Elmer L., to Underwood Corp. Flat platen accounting machine. 2,799,379, 7-16-57, Cl. 197—2.
- Wise, Fred N., to Esso Research and Engineering Co. Apparatus for injecting material under pressure in a well. 2,786,533, 3-26-57, Cl. 166—120.
- Wise, George. Safety-convenience device for a carrying case. 2,783,926, 3-5-57, Cl. 224—26.
- Wise, James C.: See—
Long, Henry A., Taylor, and Wise. 2,813,672.
- Wise, Leo A. Combined chair and step ladder. 2,805,703, 9-10-57, Cl. 155—42.
- Wise, Ralph H., to Productive Inventions, Inc. Window operating device. 2,795,414, 6-11-57, Cl. 268—117.
- Wise, Ralph H., to Ford Motor Co. Windshield wiper. 2,809,388, 10-15-57, Cl. 15—255.
- Wise, Robert L., to The Dow Chemical Co. Coating for rubber mats. 2,786,785, 3-26-57, Cl. 117—139.
- Wiseman, Adolph D. Tooth polishing cup. 2,789,352, 4-23-57, Cl. 32—59.
- Wiseman, Donald W., and H. D. Staimbrook. Twineless hay baling device. 2,785,625, 3-19-57, Cl. 100—88.
- Wiseman, E. R.: See—
Surrate, Ralph. 2,803,977.
- Wiseman, Earl R.: See—
Waldorf, Lindsey E., and Wiseman. 2,790,171.
- Wiseman, James V., to Stauffer Chemical Co. Method of processing Searles Lake brine. 2,784,056, 3-5-57, Cl. 23—39.
- Wiseman, William A., to Continental Motors Corp. Engine starters. 2,782,644, 2-26-57, Cl. 74—7.
- Wisener, Guthrie H. Rolling ball game device. 2,815,213, 12-3-57, Cl. 273—118.
- Wisey, Stephen, Jr. Dispensing valve. 2,806,238, 9-17-57, Cl. 15—138.
- Wisfeld, Werner, R.-K. Dorn, and E. Herrmann, to Inflico Inc. Treatment of liquids with granular ion exchangers. 2,810,693, 10-22-57, Cl. 210—33.
- Wishart, James S., to The Standard Oil Co. Port construction for thermal diffusion apparatus. 2,789,089, 4-16-57, Cl. 210—176.
- Wishart, James S., to The Standard Oil Co. Thermal diffusion apparatus. 2,799,395, 7-16-57, Cl. 210—176.
- Wishart, Ronald C., to Butler Mfg. Co. Signboard structure. 2,775,833, 1-1-57, Cl. 40—125.
- Wishaw, Edgar B. Separator. 2,808,200, 10-1-57, Cl. 233—14.
- Wisman, Franklin O. Probe for liquid level indicator. 2,783,341, 2-26-57, Cl. 201—48.
- Wisner, Isle R., W. S. Corbin, and H. Walden, to The Black-Clawson Co. Fourdrinier paper making machine. 2,799,209, 7-16-57, Cl. 92—44.
- Wisniewski, John C., to Lyon Inc. Buffing wheel and method of making same. 2,779,142, 1-29-57, Cl. 51—193.
- Wissemann, Walter J. Hop vine grasper. 2,802,562, 8-13-57, Cl. 198—179.
- Wissman, Henry E.: See—
Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,606.
Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,607.
Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,608.
Fischer, Paul E., Hedin, Swanson, and Wissman. 2,776,609.
- Wissolik, Raymond A.: See—
Prager, Hans J., and Wissolik. 2,813,217.
- Wist, Edward B., and T. H. Andruss, to Shell Development Co. Liquid distributor for agricultural vehicles. 2,794,407, 6-4-57, Cl. 111—7.
- Wisti, Andrew O. Machine for debonding brake shoes. 2,780,284, 2-5-57, Cl. 164—39.
- Wistrich, Harry A., and R. B. Olney, to Shell Development Co. Fluid mixer with rotating baffles. 2,804,379, 8-27-57, Cl. 23—270.5.
- Wiswell, Grant A., to Electro-Flasher Co. Flashing incandescent lamp. 2,790,933, 4-30-57, Cl. 315—72.
- Witcher, James T. Portable lift jacks. 2,814,394, 11-26-57, Cl. 214—1.
- Witchey, Albert L., to the United States of America as represented by the Secretary of the Air Force. Sound sources for microphone calibration. 2,806,544, 9-17-57, Cl. 181—5.
- Witek, Stanley P., to Crane Co. Combined pipeline switch and diverter. 2,781,233, 2-12-57, Cl. 302—28.
- Witherell, Robert R., to Eureka Williams Corp. Fluid heating furnace with rotary combustion and heat exchange casing. 2,780,217, 2-5-57, Cl. 126—110.
- Witherell, Robert R., to Eureka Williams Corp. Electro-dialysis of solutions in absorption refrigeration. 2,802,344, 8-13-57, Cl. 62—119.
- Witherell, Robert R., to Eureka Williams Corp. Oil burner. 2,807,319, 9-24-57, Cl. 158—36.3.
- Withers, Raymond A., to J. E. White. Chance selection word game. Re. 24,409, 12-24-57, Cl. 273—135.
- Withers, Raymond A. Sliding base can opener. 2,776,476, 1-8-57, Cl. 30—10.
- Withers, Raymond A. Can opener with sliding base. 2,776,477, 1-8-57, Cl. 30—10.
- Witherspoon, Jack, Jr., to Robertshaw-Fulton Controls Co. Control device. 2,783,333, 2-26-57, Cl. 200—140.
- Witmer, Earl G.: See—
Tarwater, Lawson. 2,815,788.
- Witmer, John B. Foldable ironing boards. 2,808,667, 10-8-57, Cl. 38—139.
- Witt, Chester: See—
McGovern, Bernard J., Skoli, and Witt. 2,781,798.
McGovern, Bernard J., Skoli, and Witt. 2,790,629.
- Witt Cornice Co., The: See—
Witt, James C. 2,800,244.
- Witt, Donald E., and N. C. Carter, to Phillips Petroleum Co. Polymerization of mixtures of alkenes and olefins to aromatic hydrocarbons. 2,781,408, 2-12-57, Cl. 260—673.
- Witt, Everett E.: See—
Novak, Leo J., and Witt. 2,780,888.
- Witt, Jack C., to Remington Arms Co., Inc. Obstruction detector for heading machine. 2,809,541, 10-15-57, Cl. 78—17.
- Witt, James C., to The Witt Cornice Co. Cover for garbage receptacle. 2,800,244, 7-23-57, Cl. 220—35.
- Witt, Joshua C. Method of and apparatus for the wet grinding of solids. 2,801,932, 8-6-57, Cl. 106—100.
- Wittbecker, Emerson L.: See—
Katz, Manfred, and Wittbecker. 2,787,630.
- Wittbecker, Emerson L., to E. I. du Pont de Nemours and Co. Process for preparing polyureas utilizing immiscible phases. 2,816,879, 12-17-57, Cl. 260—77.5.
- Wittcoff, Edward. Novelty educational hats. 2,796,680, 6-25-57, Cl. 35—9.
- Wittcoff, Harold, and W. A. Jordan, to General Mills, Inc. Polyamide suspensoids forming continuous films. 2,811,459, 10-29-57, Cl. 106—153.
- Wittcoff, Harold, and M. M. Renfrew, to General Mills, Inc. Mixed suspensoids of epoxy resins and polyamide resins. 2,811,495, 10-29-57, Cl. 260—18.
- Witte, Bernard G., to Newaygo Engineering Co. Vibrator actuator for sand hoppers. 2,803,380, 8-20-57, Cl. 222—55.
- Witte, Frederick W., to Westinghouse Electric Corp. Sealing device. 2,795,449, 6-11-57, Cl. 292—256.65.
- Witte, Frederick W., to Westinghouse Electric Corp. Watt-hour meter shunt assembly. 2,813,253, 11-12-57, Cl. 324—138.
- Witte, George E. Tool for assembling and sealing adjoining drain pipe sections. 2,793,424, 5-28-57, Cl. 29—237.
- Witte, George E. Method of joining and sealing pipe sections. 2,793,428, 5-28-57, Cl. 29—451.
- Witte, Leslie L. Fueling system for an internal combustion engine. 2,795,269, 6-11-57, Cl. 158—36.3.
- Witte, William F., Jr. Hot water heating system. 2,786,634, 3-26-57, Cl. 237—17.
- Witteck Mfg. Co.: See—
Zartler, Herbert P. 2,817,136.
- Wittel, Otto, to Eastman Kodak Co. Continuous feed motion picture projector. 2,780,133, 2-5-57, Cl. 88—16.8.
- Wittel, Otto, to Eastman Kodak Co. Optical beam splitter system for color television. 2,808,456, 10-1-57, Cl. 178—5.4.
- Wittmann Co., Inc., The: See—
Craig, Francis A. 2,776,755.
- Witten, Leslie B.: See—
Porter, Frederick W. B., and Witten. 2,817,637.
- Wittenberg, Benjamin, to Rogers Imports, Inc. Pouch. 2,779,370, 1-29-57, Cl. 150—1.
- Wittenberg, Roland C.: See—
De Witt, David, Sandler, and Wittenberg. 2,786,964.
- Wittenberger, Wallace W.: See—
Armstrong, John D., Wallman, and Wittenberger. 2,804,192.
Skarin, Carl R., and Wittenberger. 2,783,720.
- Wittenmyer, Richard F.: See—
Van Dusen, Charles A., Wittenmyer, and Richter. 2,799,187.
- Wittkubns, Bruno A., and G. F. Hill. Bottle ejecting mechanism for paper container making machines. 2,783,691, 3-5-57, Cl. 93—36.

- Wittkuhns, Bruno A., and G. F. Hill. Bottom cutting and inserting mechanism, including a mouth shaping operation for paper container making machines. 2,783,694, 3-5-57, Cl. 93-55.1.
- Wittkuhns, Bruno A., and G. F. Hill. Container body receiving cell construction for paper container making machines. 2,814,497, 11-26-57, Cl. 279-57.
- Wittkuhns, Bruno A., and G. F. Hill, to The Gardner Board & Carton Co. Blank feeding apparatus. 2,817,517, 12-24-57, Cl. 271-23.
- Wittle, Eugene L.: *See*—
Moore, James A., and Wittle. 2,807,644.
- Wittlin, Albert. Fluid indicator. 2,780,199, 2-5-57, Cl. 116-117.
- Wittlin, Albert. Liquid indicaor. 2,817,309, 12-24-57, Cl. 116-117.
- Wittmann, Richard B.: *See*—
Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,803,932.
- Wittmoser, Adalbert, P. Biefang and F. Dutting, to Eisenwerke Gelsenkirchen Aktiengesellschaft. Metal casting apparatus. 2,800,691, 7-30-57, Cl. 22-57.2.
- Wittnebert, Frederick R., to The Parker Pen Co. Fountain pens. 2,802,450, 8-13-57, Cl. 120-50.
- Wittnebert, Frederick R., to Dupli-Color Products Co., Inc. Fountain brush with closure cap controlled valve. 2,806,239, 9-17-57, Cl. 15-139.
- Wittnebert, Frederick R., W. V. Dunlop, and A. E. Neely, to Dupli-Color Products Co., Inc. Sealed fountain brush. 2,782,438, 2-26-57, Cl. 15-139.
- Wittren, Richard A., to Deere Mfg. Co. Tractor wheel assembly for wheel tread variation. 2,788,077, 4-9-57, Cl. 180-75.
- Wittren, Richard A., to Deere Mfg. Co. Crankcase ventilation. 2,808,040, 10-1-57, Cl. 123-41.86.
- Wittwer, Christian: *See*—
Moser, Eduard, Bolleter, and Wittwer. 2,781,337.
Moser, Eduard, Bolleter, and Wittwer. 2,781,338.
- Wittwer, Robert: *See*—
Zickendraht, Christian, and Wittwer. 2,814,576.
- Witty, James C., to The Troy Sunshade Co. Chair. 2,785,733, 3-19-57, Cl. 155-116.
- Witwer, Daniel B., and J. M. Wilkinson, to General Aniline & Film Corp. Process for the clarification of vegetable beverages. 2,811,449, 10-29-57, Cl. 99-48.
- Witwer, Wallace J., to The Cobey Corp. Mounting for rigid disk assembly. 2,787,105, 4-2-57, Cl. 55-73.
- Witz, Henry W., to Nursmatic Corp. Nursing bottle. 2,812,092, 11-5-57, Cl. 215-11.
- Witz, Philip. Illuminated name and number sign. 2,798,323, 7-9-57, Cl. 40-132.
- Witzel, Homer D., to Deere & Co. Suspension means for folding seat. 2,815,064, 12-3-57, Cl. 155-51.
- Wix Corp.: *See*—
Alexander, Leon G. 2,798,614.
Hough, Lewis M. 2,785,805.
- Wizon, Irvin, to American Cyanamid Co. Apparatus for processing a thread. 2,789,368, 4-23-57, Cl. 34-68.
- Wiz-Products, Inc.: *See*—
Tamminga, William J. 2,790,661.
Tamminga, William J. 2,808,294.
- Wleügel, Johan, to Elektrokemisk A/S. Arrangement of cathode bars in electrolytic pots. 2,786,024, 3-19-57, Cl. 204-243.
- Wleügel, Johan, to Elektrokemisk A/S. Arrangement of conductors for electrolytic furnaces. 2,804,429, 8-27-57, Cl. 204-244.
- Wobermin, Theodore H., $\frac{1}{2}$ to L. Hurst, $\frac{1}{2}$ to C. Bergman, and $\frac{1}{2}$ to R. Turner. Chain sickle mower. 2,793,487, 5-28-57, Cl. 56-244.
- Wockenfuss, William, to Burroughs Corp. Air blast strip feeding means. 2,790,638, 4-30-57, Cl. 271-2.1.
- Wockenfuss, William, to Burroughs Corp. Printing drum. 2,790,697, 4-30-57, Cl. 346-98.
- Wockenfuss, William, to Burroughs Corp. Recording device and method of manufacture. 2,800,386, 7-23-57, Cl. 346-141.
- Woehrl, Richard, and J. W. Condon, to Westinghouse Electric Corp. Combined addition agents for acid copper plating. 2,799,634, 7-16-57, Cl. 204-52.
- Woehrl, Richard E.: *See*—
Ceresa, Myron, and Woehrl. 2,785,117.
- Woelfer, Robert O. Conveyor for packaging machine. 2,812,053, 11-5-57, Cl. 198-160.
- Woellhaf, Josef, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Jet grounding apparatus. 2,787,422, 4-2-57, Cl. 241-39.
- Woellner, Horst L., to Western Electric Co., Inc. Grapple for reels. 2,789,859, 4-23-57, Cl. 294-90.
- Woerdemann, Hugo H., to North American Aviation, Inc. Magnetic frequency and voltage control for motor generator. 2,797,382, 6-25-57, Cl. 322-16.
- Woerner, John J.: *See*—
Murdock, Clayton E., and Woerner. 2,814,751.
- Woestemeyer, Francis B., to General Electric Co. Slipping clutch having wavelike contours on the clutch faces. 2,806,366, 9-17-57, Cl. 64-29.
- Woestemeyer, Francis B., to General Electric Co. Acceleration responsive system. 2,811,344, 10-29-57, Cl. 264-1.
- Woestemeyer, Francis B., to General Electric Co. Acceleration responsive device having limited response. 2,816,748, 12-17-57, Cl. 264-1.
- Woestman, John W.: *See*—
Poucel, William H., and Woestman. 2,808,471.
- Wofford, George D., to Bendix Aviation Corp. Signal biased noise inverter for synch separator which cancels noise above synch pulse level. 2,783,377, 2-26-57, Cl. 250-27.
- Wogman, James N., T. J. Fullerton, and W. B. Ahern, to Acme Steel Co. Box strapping machine. 2,807,997, 10-1-57, Cl. 100-27.
- Wohl, Bernard C. M., and G. Cleaning and polishing device. 2,779,963, 2-5-57, Cl. 15-138.
- Wohl, Gerald: *See*—
Wohl, Bernard C. M., and G. 2,779,963.
- Wohl, Martha: *See*—
Wohl, Bernard C. M., and G. 2,779,963.
- Wohl, Robert J.: *See*—
Heynick, Louis N., Schnee, Winkler, and Wohl. 2,799,824.
- Wohlers, Louis: *See*—
Otterpohl, Edward H., and Wohlers. 2,815,637.
- Wohlman, Fred, to Hughes Aircraft Co. Semiconductor translating device conductor welder and cutoff apparatus. 2,784,295, 3-5-57, Cl. 219-78.
- Wohlman, Fred, to Hughes Aircraft Co. Pulsing apparatus for semiconductor translating devices. 2,784,296, 3-5-57, Cl. 219-78.
- Wohlman, Fred, Jr., to Hughes Aircraft Co. Welding apparatus for semiconductor translating device. 2,788,431, 4-9-57, Cl. 219-78.
- Wohlman, Fred, Jr., to Hughes Aircraft Co. Final sealing apparatus for semiconductor translating devices. 2,792,489, 5-14-57, Cl. 219-85.
- Wohlrab, Hans-Christoph: *See*—
Schwarz, Karl G., and Wohlrab. 2,810,020.
- Wohlstrom, Robert C. Self-marking plumb bob. 2,795,053, 6-11-57, Cl. 33-216.
- Wohnhaas, Adolf: *See*—
Bredereck, Hellmut, Bäder, Wohnhaas, and Nübling. 2,779,751.
- Wohnhas, Adolf: *See*—
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- Wohnsiedler, Henry P., to American Cyanamid Co. Aminotriazine reaction products. 2,785,149, 3-12-57, Cl. 260-67.6.
- Wohnsiedler, Henry P., to American Cyanamid Co. Resinous compositions. 2,801,226, 7-30-57, Cl. 260-45.3.
- Wohnsiedler, Henry P., and E. L. Kropa, to American Cyanamid Co. Liquid compositions comprising a nitrogenous polymer. 2,784,166, 3-5-57, Cl. 260-29.2.
- Wojcik, Joseph S., to Westinghouse Electric Corp. Control apparatus. 2,798,929, 7-9-57, Cl. 219-20.
- Wojcik, Joseph S., to Westinghouse Electric Corp. Heating unit control. 2,813,172, 11-12-57, Cl. 200-122.
- Wojdyla, Walter S. Stair straight edge. 2,801,818, 8-6-57, Cl. 248-125.
- Wojtowicz, John. Roller gear wheels. 2,792,715, 5-21-57, Cl. 74-465.
- Wolar, Isidore. Lighting fixture mounting. 2,815,918, 12-10-57, Cl. 248-348.
- Wolcott, Glenn W., to Penn Aircraft Products, Inc. Connectors for metal tubing of different materials. 2,800,344, 7-23-57, Cl. 285-173.
- Wolcott, Harold D., $\frac{1}{2}$ to V. Lundy and L. L. Crawford. Universal coupling. 2,813,409, 11-19-57, Cl. 64-17.
- Woldorf, Herman. Dispensing device for collapsible tubes. 2,790,579, 4-30-57, Cl. 222-103.
- Woldring, Egbert: *See*—
Koepnick, Paul J., and Woldring. 2,813,604.
- Wolf, Alfred, to Geophysical Research Corp. Voltage-responsive electronic resistor and apparatus using the same. 2,797,383, 6-25-57, Cl. 323-22.
- Wolf, Alfred, to Etablissement Alustra. Heating and cooling systems for walls, ceilings and floors. 2,809,814, 10-15-57, Cl. 257-124.
- Wolf, Alfred A., to Fidelity Instrument Corp. Refrigerating system and electrical components thereof. 2,786,334, 3-26-57, Cl. 62-4.
- Wolf Brothers, Inc.: *See*—
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- Wolf, Calvin N.: *See*—
Ligett, Waldo B., Closson, and Wolf. 2,785,102.
Ligett, Waldo B., Wolf, and Closson. 2,779,704.
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- Wolf, Calvin N., to Ethyl Corp. Organic chemicals. 2,816,897, 12-17-57, Cl. 260-326.
- Wolf, Edward. Lift for tire-wheel units. 2,804,983, 9-3-57, Cl. 214-332.
- Wolf, Edward, to The Goodyear Tire & Rubber Co. Hydraulic automatic brake adjustment. 2,817,419, 12-24-57, Cl. 188-72.
- Wolf Envelope Co., The: *See*—
Affelder, Harry F. 2,792,997.
- Wolf, Frank J.: *See*—
Peck, Robert L., Shafer, and Wolf. 2,804,463.
- Wolf, Herman B. Electrically heated pad. 2,783,358, 2-26-57, Cl. 219-46.
- Wolf, Kurt, to C. Zeiss. Drawing device, especially for plotting instruments for aerial photographs. 2,807,236, 9-24-57, Cl. 120-9.

- Wolf, Lloyd J. Pipe loading and unloading mechanism for vehicles. 2,789,707, 4-23-57, Cl. 214-77.
- Wolf, Lloyd J. Mobile pipe handling mechanism. 2,789,716, 4-23-57, Cl. 214-658.
- Wolf, Mark A., to The Dow Chemical Co. Fumigation with fluorocyclobutenes. 2,779,680, 1-29-57, Cl. 99-153.
- Wolf, Milton, to Bristol Laboratories Inc. Streptomycin salts. 2,783,220, 2-26-57, Cl. 260-101.
- Wolf, Tobin, to Westinghouse Electric Corp. Fractional overwinding device for coil winding machines. 2,801,670, 8-6-57, Cl. 153-67.
- Wolf, Wallace P. Sediment stirrer. 2,793,012, 5-21-57, Cl. 259-122.
- Wolf, Walter A., to Switches, Inc. Automobile headlamp dimmer switch. 2,796,483, 6-18-57, Cl. 200-61.54.
- Wolf, Walter A., to Switches, Inc. Automobile headlamp switching control. 2,796,484, 6-18-57, Cl. 200-61.57.
- Wolf, Walter J., to Leathercraft, Inc. Brief bag edge seam. 2,781,809, 2-19-57, Cl. 150-1.6.
- Wolf, Richard: See—
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- Wolf, Tobin, to Westinghouse Electric Corp. Colling die. 2,783,816, 3-5-57, Cl. 153-67.
- Wolf, Viktor. Electrolytic production of acetylene carboxylic acid. 2,786,022, 3-19-57, Cl. 204-79.
- Wolf, Wilhelm, and W. vor dem Esche, to Hoesch-Westfalenhütte Aktiengesellschaft. Method of producing steel. 2,816,017, 12-10-57, Cl. 75-46.
- Wolf, William C., to Automatic News vending Corp. Newspaper dispensing apparatus. 2,816,688, 12-17-57, Cl. 221-8.
- Wolfe, Baron C.: See—
Jurgens, Orville F. 2,798,588.
- Wolfe, Bernard J.: See—
Lewis, William G., Mayo, and Wolfe. 2,816,493.
- Wolfe, H. Hix, and R. Erisman, Jr., to The Duro Co. Valve structure. 2,805,835, 9-10-57, Cl. 251-162.
- Wolfe, John K.: See—
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- Wolfe, John K., to General Electric Co. Electrolytic fluorination of organic compounds. 2,806,817, 9-17-57, Cl. 204-59.
- Wolfe, John K., and N. C. Cook, to General Electric Co. Preparation of dialkylsilanes. 2,786,862, 3-26-57, Cl. 260-448.2.
- Wolfe, John S. B., and L. H. Conklin, to The B. F. Goodrich Co. Preparation of a solid diphenylamine antioxidant. 2,776,994, 1-8-57, Cl. 260-576.
- Wolfe, Merritt W., to The Goodyear Tire & Rubber Co. Collapsible sectional airbag. 2,810,931, 10-29-57, Cl. 18-45.
- Wolfe, Paul G., to Philco Corp. Horizontal magnetic deflection system for television receivers. 2,809,327, 10-8-57, Cl. 315-27.
- Wolfe, Sheemon A. Toe shield. 2,810,214, 10-22-57, Cl. 36-8.3.
- Wolfe, Wallace V., to Radio Corp. of America. Magnetic sound recording. 2,791,640, 5-7-57, Cl. 179-100.2.
- Wolfe, William D., to The Goodyear Tire & Rubber Co. Bonded composite structure containing ozone resistant tri-polymer rubber composition and adhesive. 2,817,616, 12-24-57, Cl. 154-52.
- Wolfe, William E. Automatic poultry feed and water dispenser. 2,782,760, 2-26-57, Cl. 119-51.5.
- Wolffersperger, John J. Burner with tangential air admission and restricted throat. 2,787,318, 4-2-57, Cl. 158-1.5.
- Wolferz, Alfred H., to Weston Electrical Instrument Corp. Electro-dynamometer instrument. 2,802,987, 8-13-57, Cl. 324-144.
- Wolff, Ernst R., to National Rubber Machinery Co. Garbage disposal apparatus. 2,782,997, 2-26-57, Cl. 241-46.
- Wolff, Frederick A.: See—
Kubico, Michael A., MacDonald, Stearns, and Wolff. 2,810,708.
- Wolff, Hans: See—
Hayes, Lester P., and Wolff. 2,782,216.
Hayes, Lester P., and Wolff. 2,792,411.
- Wolff, Hubert G. Constant amplitude variable frequency oscillation generator. 2,793,292, 5-21-57, Cl. 250-36.
- Wolff, Irving: See—
Blitz, Daniel, and Wolff. 2,802,206.
- Wolff, Ivan A.: See—
Mellies, Russell L., and Wolff. 2,788,546.
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- Sloan, John W., and Wolff. 2,796,447.
- Wolff, Otto E., to Polaroid Corp. Photographic apparatus including fluid-spreading and sheet-arresting mechanism. 2,804,812, 9-3-57, Cl. 95-89.
- Wolff, Richard H.: See—
Johnson, Thomas W., and Wolff. 2,803,194.
- Wolff, William A.: See—
Merkle, August H., and Wolff. 2,806,495.
- Wolfe, Edward L.: See—
Clarke, Duane G., McKeever, and Wolfe. 2,810,767.
Wilson, Harold F., and Wolfe. 2,812,362.
- Wolford, James E. Device for pre-tuning radio and television sets. 2,805,331, 9-3-57, Cl. 250-20.
- Wolfram, Arthur, K.-H. Stell, and A. Agunte, to Knapsack-Griesheim Aktiengesellschaft. Process for the preparation of aliphatic α -unsubstituted- α - β -unsaturated carboxylic acids and their derivatives. 2,790,822, 4-30-57, Cl. 260-465.9.
- Wolfram, George: See—
Chapman, Paul R., Manteuffel, and Wolfram. 2,809,935.
- Wolfram, Norman E. Rock drilling apparatus. 2,812,163, 11-5-57, Cl. 255-49.
- Wolfram, Norman E. Retractable rock drill bit apparatus. 2,815,932, 12-10-57, Cl. 255-41.
- Wolfram, William S.: See—
Czuba, Walter T., and Wolfram. 2,800,037.
- Wolfskill, John M. Piezoelectric crystal apparatus and method of making the same. 2,799,789, 7-16-57, Cl. 310-9.
- Wolfson, Henry, to International Standard Electric Corp. Germanium diodes. 2,818,537, 12-31-57, Cl. 317-236.
- Wolfson, Henry, and S. C. Shepard, to International Standard Electric Corp. Electric semi-conducting devices. 2,785,349, 3-12-57, Cl. 317-234.
- Wolfson, Walter. Adjustable pencil sharpener. 2,785,657, 3-19-57, Cl. 120-91.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Process for treating polyethylene structures and articles resulting therefrom. 2,801,446, 8-6-57, Cl. 18-48.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Process for treating polyethylene structures. 2,801,447, 8-6-57, Cl. 18-48.
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- Wolinsky, Joseph: See—
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- Wolk, Reuben: See—
Layte, Ralph R., and Wolk. 2,816,665.
- Wolke, Roy K.: See—
Pilas, Frank J., Wolke, and Chase. 2,778,968.
- Wolkov, David, to Superior Magneto Corp. Electrical switch assembly. 2,812,405, 11-5-57, Cl. 200-157.
- Woll, Harry J., to Radio Corp. of America. Transistor indicator circuits. 2,776,420, 1-1-57, Cl. 340-252.
- Woll, Harry J., to Radio Corp. of America. Wide-band high frequency amplifier. 2,802,066, 8-6-57, Cl. 179-171.
- Woll, Harry J., to Radio Corp. of America. Regulated power supplies. 2,806,963, 9-17-57, Cl. 307-52.
- Woll, Richard F., and T. C. Fockler, to Westinghouse Electric Corp. End bracket for dynamoelectric machines. 2,795,713, 6-11-57, Cl. 310-254.
- Woll, Ronald V. Metering valve for use on centralized liquid distribution systems. 2,798,646, 7-9-57, Cl. 222-250.
- Wollaeger, Clarence G., to E. Wollaeger and H. J. Mueller as trustees for the estate of C. G. Wollaeger. Wallboard trim. 2,796,641, 6-25-57, Cl. 20-74.
- Wollaeger, Elizabeth: See—
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- Wollan, Rolf W., and P. A. McKinley, to Collins Radio Co. Stabilized magnetic compass. 2,800,723, 7-30-57, Cl. 33-222.
- Wollard, Nathalie: See—
Mora, Anacleto. 2,783,762.
- Wollentin, Robert W.: See—
Nagy, Rudolph, and Wollentin. 2,791,723.
- Wollentin, Robert W., to Westinghouse Electric Corp. Lead- and manganese-activated cadmium-sodium fluorophosphate phosphor. 2,780,600, 2-5-57, Cl. 252-301.6.
- Woller, Edward E., to Simmons Co. Mattress manufacture. 2,805,429, 9-10-57, Cl. 5-353.
- Wöllner, Johannes: See—
Grimme, Walter, and Wöllner. 2,794,837.
- Wolowicz, Richard S., to Container Corp. of America. Holder for cone top cans. 2,801,001, 7-30-57, Cl. 229-65.
- Wolski, John J., to Sun Oil Co. Purifying mahogany sulfonic acids. 2,810,745, 10-22-57, Cl. 260-504.
- Wolter, Frederick J.: See—
Brown, Horace D., and Wolter. 2,778,843.
- Wolter, Frederick J., to the United States of America as represented by the United States Atomic Energy Commission. Electrodeposition of plutonium. 2,805,985, 9-10-57, Cl. 204-1.5.
- Wolterding, Richard A.: See—
Voigtman, Edward H., and Wolterding. 2,813,596.
- Woltering, Alphonse J., to Cincinnati Coffin Co. Closing and locking devices for caskets. 2,778,089, 1-22-57, Cl. 27-17.
- Wolters, Carl F., to Sperry Rand Corp. Molded plastic on sheet metal desk top. 2,793,090, 5-21-57, Cl. 311-106.
- Wolters, Carl F., to Sperry Rand Corp. Tilting divider plate for file drawers. 2,793,643, 5-28-57, Cl. 129-28.
- Wolters, Carl F., to Sperry Rand Corp. Roller retaining means for drawer suspension. 2,799,541, 7-16-57, Cl. 308-3.8.
- Wolters, Carl F., to Sperry Rand Corp. Filing cabinets. 2,812,226, 11-5-57, Cl. 312-272.5.
- Wolters, Carl F., and R. W. Riggs, to Sperry Rand Corp. Panels for flexible cards. 2,815,758, 12-10-57, Cl. 129-16.
- Wolters, Everett R. Toilet tissue dispenser with storage rack. 2,805,030, 9-3-57, Cl. 242-55.3.
- Wolthus, Johannes O.: See—
Jonker, Gerard H., Wolthus, and Bannink. 2,803,803.
- Wolven, Harold L., to St. Regis Paper Co. Method and apparatus for packing filled bags within bales. 2,783,598, 3-5-57, Cl. 53-24.

- Wolverine Equipment Co.: *See*—
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- Wolverton, Marcine P.: *See*—
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- Womble, James F. Folding walking aid. 2,796,916, 6-25-57, Cl. 155-22.
- Womer, David R. Lock and latch device. 2,803,956, 8-27-57, Cl. 70-146.
- Wonder Products Co.: *See*—
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- Wonderly Construction Co.: *See*—
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- Wong, Hanorah H. Oxygen mask. 2,785,674, 3-19-57, Cl. 128-141.
- Wong, Herbert K., to Cepco, Inc. Modular ceiling. 2,816,623, 12-17-57, Cl. 183-36.
- Wong, Kam L., to Hughes Aircraft Co. Continuity and short tester. 2,814,774, 11-26-57, Cl. 324-51.
- Wong, Lan J. Recording precipitation gauge. 2,789,431, 4-23-57, Cl. 73-171.
- Wong, Lan J. Telemetering system. 2,802,205, 8-6-57, Cl. 340-359.
- Wong, Lip F., to Reynolds Metals Co. Panel strip for fences and gates. 2,809,017, 10-8-57, Cl. 256-73.
- Wood, Archibald C., to A. E. Sansom. Steam generating attachment for a laundering iron. 2,812,598, 11-12-57, Cl. 38-77.
- Wood, Arthur F., to P. R. Mallory & Co., Inc. Welding electrode holder and electrode therefor. 2,796,514, 6-18-57, Cl. 219-120.
- Wood, Arthur R. Lighters for gas burners. 2,804,133, 8-27-57, Cl. 158-115.
- Wood, Burris D.: *See*—
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- Wood, Carl O.: *See*—
Kurth, Franz J., Honerkamp, Phillips, Waelndner, and Wood. 2,813,474.
- Wood, Charles J., to Superior Rubber Mfg. Co. Resilient door mat link. 2,795,001, 6-11-57, Cl. 15-215.
- Wood, Charles K., to Taylor Machine Works. Agricultural implement. 2,782,740, 2-26-57, Cl. 111-52.
- Wood, Charles W., to Standard-Thomson Corp. Thermostatic control valve. 2,777,638, 1-15-57, Cl. 236-34.
- Wood, Charles W., to Standard Thomson Corp. Thermal responsive device. 2,806,375, 9-17-57, Cl. 73-368.3.
- Wood, Charles W., to Standard Thomson Corp. Thermal responsive device and method of calibration therefor. 2,806,376, 9-17-57, Cl. 73-368.3.
- Wood, Claude O., to Goodman Mfg. Co. Extensible conveyor and control circuit therefor. 2,788,116, 4-9-57, Cl. 198-139.
- Wood, Claude O., to Goodman Mfg. Co. Supports for endless conveyors. 2,798,589, 7-9-57, Cl. 198-109.
- Wood Conversion Co.: *See*—
Duvall, Thure C. 2,803,188.
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Videen, Otis R. 2,813,806.
- Wood, David S., to Press Plugs Pty. Ltd. Closure devices for openings. 2,801,021, 7-30-57, Cl. 220-24.5.
- Wood, Donald L., to Eastman Kodak Co. Reflex sight or view finder having fluorescent reticle marks. 2,780,129, 2-5-57, Cl. 88-1.5.
- Wood, Dora D. Swimming pool cover. 2,808,845, 10-8-57, Cl. 135-1.
- Wood, Edwin C. Scriber. 2,777,200, 1-15-57, Cl. 33-18.
- Wood, Elizabeth A.: *See*—
Thomas, Upton B., Jr., and Wood. 2,811,655.
- Wood, Elizabeth A., to Bell Telephone Laboratories, Inc. Stable liquid electrodes. 2,785,322, 3-12-57, Cl. 310-9.7.
- Wood, Elwood S., Jr. Illuminated lug wrench attachment. 2,783,364, 2-26-57, Cl. 240-6.46.
- Wood, Elwood S., Jr. Combined fuse wrench and light therefor. 2,811,631, 10-29-57, Cl. 240-6.46.
- Wood, Elwood S., Jr. Illuminated screw driver. 2,813,968, 11-19-57, Cl. 240-6.46.
- Wood, Fairley E. Pea shelling apparatus. 2,803,254, 8-20-57, Cl. 130-30.
- Wood, Forrest D., to Remington Arms Co., Inc. Inspection device. 2,781,126, 2-12-57, Cl. 209-72.
- Wood, Frank A., to Zenith Radio Corp. Mounting clip. 2,800,698, 7-30-57, Cl. 24-81.
- Wood, Frank A. S. Slide valve. 2,803,427, 8-20-57, Cl. 251-326.
- Wood, Frederic E.: *See*—
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Sargisson, Robert L., and Wood. 2,810,792.
- Wood, Frederick J., Jr. Paint applicator. 2,810,148, 10-22-57, Cl. 15-210.
- Wood, Gar, Industries, Inc.: *See*—
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Starr, Norbert T. 2,813,641.
Wreford, Frederick S. 2,797,255.
Wreford, Frederick S. 2,808,639.
- Wood, George, to Vickers-Armstrongs Ltd. Boiler feed regulator valves. 2,809,655, 10-15-57, Cl. 137-393.
- Wood, George A., Jr.: *See*—
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Hatch, Albert M., and Wood. 2,800,296.
- Wood, George C.: *See*—
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- Wood, George F. L., to Eastman Kodak Co. Baryta coated photographic paper. 2,805,161, 9-3-57, Cl. 96-85.
- Wood, George H., Jr., to The Apponaug Co. Process of treating textile fabric. 2,802,752, 8-13-57, Cl. 117-11.
- Wood, Harry A., to Scovill Mfg. Co. Hose nozzle. 2,792,260, 5-14-57, Cl. 299-112.
- Wood, Harry F.: *See*—
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- Wood, Harvey B.: *See*—
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- Wood, Homer J., to The Garrett Corp. Labyrinth seal. 2,781,210, 2-12-57, Cl. 286-10.
- Wood, Homer J., to The Garrett Corp. Aircraft auxiliary power device using compounded gas turbo-compressor units. 2,787,886, 4-9-57, Cl. 60-39.17.
- Wood, Homer J., to The Garrett Corp. Gas turbine apparatus. 2,792,197, 5-14-57, Cl. 253-55.
- Wood, Homer J., to Garrett Corp. Gas turbine motor scroll structure. 2,801,519, 8-6-57, Cl. 60-39.66.
- Wood, James Q.: *See*—
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- Wood, James Q., to Phillips Petroleum Co. Carbon black collecting and conveying systems. 2,776,725, 1-8-57, Cl. 183-7.
- Wood, James Q., to Phillips Petroleum Co. Pelleting of carbon black. 2,807,523, 9-24-57, Cl. 23-314.
- Wood, James R., to Harris-Seybold Co. Sheet conveyor mechanism. 2,815,208, 12-3-57, Cl. 271-45.
- Wood, John, Co.: *See*—
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- Wood, John F., to Electro-Voice, Inc. Dual needle phonograph cartridge. 2,777,016, 1-8-57, Cl. 179-100.41.
- Wood, John F., to Electro-Voice, Inc. Cartridge case and turnover mechanism. 2,793,254, 5-21-57, Cl. 179-100.41.
- Wood, John H., to Olin Chemical Co., Inc. Process of producing boron halides. 2,805,130, 9-3-57, Cl. 23-205.
- Wood, Joseph D., to I-T-E Circuit Breaker Co. Safety door for drawout switchgear. 2,795,739, 6-11-57, Cl. 317-99.
- Wood, Joseph L.: *See*—
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- Wood, Judson A.: *See*—
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- Wood, Kathryn H.: *See*—
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- Wood, Kenneth M.: *See*—
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- Wood, Leon G. S.: *See*—
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- Wood, Leon G. S., and P. B. Sebring, to the United States of America as represented by the Secretary of the Navy. Target doppler indicator. 2,791,756, 5-7-57, Cl. 340-3.
- Wood, Louis S., to L. A. Young Spring & Wire Corp. Power-operated tail gate. 2,792,135, 5-14-57, Cl. 214-77.
- Wood, Louvan E., to Bendix Aviation Corp. Pressure responsive apparatus. 2,777,537, 1-15-57, Cl. 185-37.
- Wood, Louvan E., to Bendix Aviation Corp. Condition-sensing cable and method of mounting sensing elements therein. 2,792,481, 5-14-57, Cl. 201-63.
- Wood, Marion L., to International Business Machines Corp. Semi-conductor trigger circuit. Re. 24,303, 4-16-57, Cl. 307-88.5.
- Wood, Marion L., to International Business Machines Corp. Record controlled machine. 2,789,766, 4-23-57, Cl. 235-92.
- Wood, McEathron W. Safety control device for a rifle with a scope. 2,790,261, 4-30-57, Cl. 42-70.
- Wood, Morris E., to Higbie Mfg. Co. Spinning reel. 2,777,645, 1-15-57, Cl. 242-84.4.
- Wood, Morris E., to Higbie Mfg. Co. Arbor for shaft. 2,777,648, 1-15-57, Cl. 242-119.
- Wood, Robert W. Printing press for printing newspapers and the like. 2,788,738, 4-16-57, Cl. 101-171.
- Wood, Robin C. Dual hand grip tennis racket. 2,795,426, 6-11-57, Cl. 273-73.
- Wood, Straud K.: *See*—
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- Wood, Thomas F.: *See*—
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Carpenter, Marion S., Easter, and Wood. 2,815,382.
- Wood, Thomas M. N., to Standard-Thomson Corp. Method and apparatus for forming flexible tubing. 2,796,109, 6-18-57, Cl. 153-73.
- Wood, Whitney E. Bearing take-up for conveyors and the like. 2,808,924, 10-8-57, Cl. 198-208.
- Wood, William G.: *See*—
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- Wood, William S.: *See*—
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- Woodall-Duckham Construction Co. Ltd.: *See*—
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- Woodall Industries, Inc.: *See*—
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Chadwick, Hamilton J. 2,799,899.
Greig, James W. 2,784,444.
Greig, James W. 2,798,261.
Greig, James W., and Beamer. 2,784,445.

- Woodall, Leslie. Golf ball retrieving machine. 2,812,871, 11-12-57, Cl. 214-356.
- Woodard, Richard W., to the United States of America as represented by the United States Atomic Energy Commission. Isotope exchange process. 2,787,587, 4-2-57, Cl. 204-1.5.
- Woodard, Roger E. Lasts. 2,794,194, 6-4-57, Cl. 12-136.
- Woodard, Roy S. Awning. 2,781,834, 2-19-57, Cl. 160-56.
- Woodard, William A., to Glaxo Laboratories Ltd. Aluminum stearate gelled mineral oil containing procaine penicillin with or without streptomycin or dihydrostreptomycin. 2,792,329, 5-14-57, Cl. 167-53.2.
- Woodberry, Norman T.: See—
- Wooding, William M., and Woodberry. 2,784,135.
- Wooding, William M., and Woodberry. 2,810,646.
- Woodbury, Eugene: See—
- Stamper, Hamilton A., and Woodbury. 2,790,913.
- Woodburn, George: See—
- Harrison, William S. 2,802,575.
- Woodbury, James R., to Bell Telephone Laboratories, Inc. Binary decoder. 2,814,437, 11-26-57, Cl. 235-61.
- Woodbury, Roderick V., to Westinghouse Electric Corp. Fans with spin vanes. 2,793,804, 5-28-57, Cl. 230-114.
- Woodco Corp.: See—
- Mainieri, Anthony. 2,810,941.
- Woodcock, Eugene L., to Sperry Rand Corp. Video integrator circuits. 2,776,369, 1-1-57, Cl. 250-20.
- Woodcock, Robert R., to National Research Corp. Pump. 2,816,702, 12-17-57, Cl. 230-152.
- Wooddell, Alice K.: See—
- Cunningham, John B., and Wooddell. 2,816,019.
- Wooddell, Charles E.: See—
- Cunningham, John B., and Wooddell. 2,816,019.
- Woodger, Michael: See—
- Turing, Alan M., Davies, and Woodger. 2,799,449.
- Woodhead, James, to The British Tabulating Machine Co. Ltd. Improvements in card feed machines. 2,784,967, 3-12-57, Cl. 271-50.
- Wooding, William M., and N. T. Woodberry, to American Cyanamid Co. Process for the manufacture of polyacrylonitrile films and laminates. 2,784,135, 3-5-57, Cl. 154-139.
- Wooding, William M., and Y. Jen, to American Cyanamid Co. Surface treatment. 2,796,362, 6-18-57, Cl. 117-71.
- Wooding, William M., and N. T. Woodberry, to American Cyanamid Co. Water-laid webs comprising water-fibrillated, wet-spun filaments of an acrylonitrile polymer and method of producing them. 2,810,646, 10-22-57, Cl. 92-3.
- Woodley, Fred E., and C. L. Campbell. Calculating machines. 2,809,788, 10-15-57, Cl. 235-145.
- Woodlin Metal Products Co.: See—
- Singleton, Benoit M. 2,801,688.
- Woodling, George V. Sealed threaded connection. 2,793,059, 5-21-57, Cl. 285-220.
- Woodling, George V. Deep thread re-usable hose coupling. 2,816,781, 12-17-57, Cl. 285-149.
- Woodling, George V. Electrical arc welding device. 2,817,001, 12-17-57, Cl. 219-98.
- Woodman, Edwin R. Forming strip for pavement construction. 2,806,414, 9-17-57, Cl. 94-17.
- Woodman, Frank W., to Columbia-Southern Chemical Corp. Packaging of anhydrous alkali metal hydroxide. 2,791,074, 5-7-57, Cl. 53-37.
- Woodmansee, Hollis D. Water cooler attachment. 2,800,776, 7-30-57, Cl. 62-141.
- Woodrow, Darling, to Radio Corp. of America. Omni-directional long slot antenna. 2,807,019, 9-17-57, Cl. 343-770.
- Woodruff, Ben H. Apparatus for maintaining a predetermined quantity of liquid in a closed space. 2,777,393, 1-15-57, Cl. 103-7.
- Woodruff, Ben H. Automatic record player. 2,777,699, 1-15-57, Cl. 274-10.
- Woodruff, Clarence M. Vertical magnetometer circuit. 2,806,202, 9-10-57, Cl. 324-43.
- Woodruff, Lee B.: See—
- Hammerstrom, Henry H., and Woodruff. 2,810,846.
- Woodruff, Maurice D., to The Bauer Bros. Co. Apparatus for separating solids from a liquid suspension. 2,809,567, 10-15-57, Cl. 92-28.
- Woodruff, Oscar G., 40% to H. B. Pearson. Venetian blind cleaner. 2,812,135, 11-5-57, Cl. 253-37.
- Woodruff, Ralph S., Sr. Boat canopy support. 2,817,345, 12-24-57, Cl. 135-6.
- Woodruff, Shelley G., to The Oil Tool Corp. Well liner. 2,796,939, 6-25-57, Cl. 166-228.
- Woodruff, Shelley G., to Baker Oil Tools, Inc. Cementing shoe. 2,813,589, 11-19-57, Cl. 166-225.
- Woodruff, Thomas E., to Hughes Aircraft Co. Electrical servo system. 2,793,335, 5-21-57, Cl. 318-18.
- Woodruff, Thomas E., to General Electric Co. Recording system. 2,797,403, 6-25-57, Cl. 340-203.
- Woodruff, William N., to The Herschelle Hall Clock Co. Coin box for parking meter. 2,802,621, 8-13-57, Cl. 232-15.
- Woods, Albert C. Scaffold trestle. 2,793,916, 5-28-57, Cl. 304-5.
- Woods, Edward F. Means for detecting and indicating the activities of bees and conditions in beehives. 2,806,082, 9-10-57, Cl. 179-1.
- Woods, Elmer O., W. J. MacCauley, and N. A. Kaufman, to Helco Products Corp. Adjustable precision potentiometers. 2,806,928, 9-17-57, Cl. 201-56.
- Woods, George J. Ignition cut-off device. 2,782,276, 2-19-57, Cl. 200-61.47.
- Woods, Harold A., and L. C. Bollinger, to Shell Development Co. Stabilized grease composition containing a thiodiarylamine and a dialkyl telluride or selenide. 2,813,828, 11-19-57, Cl. 252-33.3.
- Woods, Harold A., and L. C. Bollinger, to Shell Development Co. Grease compositions having improved yield, load bearing capacity and low temperature properties. 2,813,829, 11-19-57, Cl. 252-40.
- Woods-Hill, William, to The British Tabulating Machine Co. Ltd. Electrical impulse generators. 2,782,304, 2-19-57, Cl. 250-27.
- Woods Industries Inc.: See—
- Cameron, Eric C., and Woods. 2,784,070.
- Woods, James A. Temperature control of coolant circulation. 2,816,711, 12-17-57, Cl. 236-34.
- Woods, John E., to Standard-Thomson Corp. Mechanical transducer with expansible cavity. 2,789,580, 4-23-57, Cl. 137-777.
- Woods, John E., to Standard-Thomson Corp. Butterfly valve. 2,789,785, 4-23-57, Cl. 251-174.
- Woods, John E., to Standard-Thomson Corp. Heat exchanger core and method for fabricating the same. 2,793,835, 5-28-57, Cl. 257-128.
- Woods, John E., to Standard-Thomson Corp. Resilient telescoping diaphragm. 2,797,873, 7-2-57, Cl. 236-93.
- Woods, John E., to Standard-Thomson Corp. Control systems. 2,813,680, 11-19-57, Cl. 236-37.
- Woods, Joseph: See—
- Herbert, Alfred E., Woods, and Turner. 2,811,317.
- Woods, Leroy R., to International Electronic Research Corp. Tube clamp and shield. 2,807,659, 9-24-57, Cl. 174-35.
- Woods, Lester F. Clothesline tightening device. 2,815,189, 12-3-57, Cl. 254-161.
- Woods, Michael F. Contour projecting device. 2,807,878, 10-1-57, Cl. 33-24.
- Woods, Oliver R.: See—
- Cummings, Donald G., Woods, and Van Weelden. 2,783,389.
- Woods, Paul H., and M. Hickman. Omni range resolver simulator for instrument flying and landing aircraft ground trainers. 2,809,444, 10-15-57, Cl. 35-10.2.
- Woods, Paul H., and M. Hickman. Universal radio aids and omni navigation recorder board. 2,817,160, 12-24-57, Cl. 35-10.2.
- Woods, Robert G. Torque-limiting wrench. 2,789,454, 4-23-57, Cl. 81-52.4.
- Woods, Stephen E., to Metallurgical Processes Ltd. and The National Smelting Co. Ltd., d. b. a. Metallurgical Development Co. Smelting of tin. 2,779,673, 1-29-57, Cl. 75-85.
- Woods, Verle W.: See—
- Cameron, Eric C., and Woods. 2,784,070.
- Woods, Warren G., to Beech Aircraft Corp. High nesting sectional tank. 2,793,779, 5-28-57, Cl. 220-5.
- Woods, William E., to the United States of America as represented by the Secretary of the Navy. Bistable multivibrator. 2,803,747, 8-20-57, Cl. 250-27.
- Woods, William H.: See—
- Allen, Wallace T., and Woods. 2,814,693.
- Woodward, Alva W. Pump. 2,784,676, 3-12-57, Cl. 103-175.
- Woodward, Alva W., to The Goodyear Tire & Rubber Co. Wheel structure. 2,810,419, 10-22-57, Cl. 152-410.
- Woodward, Alva W., deceased (L. F. Woodward, executrix). Paint can attachment. 2,814,824, 12-3-57, Cl. 15-257.
- Woodward, Ann F. Combination curtain and tie-back bracket. 2,796,925, 6-25-57, Cl. 160-19.
- Woodward, Frank, and H. Helms, to Siemens Electric Lamps and Supplies Ltd. Incandescent electric lamps. 2,784,338, 3-5-57, Cl. 313-273.
- Woodward, Herbert S., II, to Minneapolis-Honeywell Regulator Co. Multiple gain amplifier for servo control. 2,790,943, 4-30-57, Cl. 318-28.
- Woodward, Le Roy A.: See—
- Cofield, Eugene P., Jr., Sams, and Woodward. 2,777,422.
- Woodward, Lucile F.: See—
- Woodward, Alva W. 2,814,824.
- Woodward, Mary F., and M. A. McQueen. Decorative hats. 2,807,023, 9-24-57, Cl. 2-177.
- Woodward, Myrnesth L., to General Motors Corp. Headlamp dimmer system. 2,786,962, 3-26-57, Cl. 315-83.
- Woodward, Oakley M., Jr., to Radio Corp. of America. Slotted waveguide antenna. 2,807,018, 9-17-57, Cl. 343-771.
- Woodward, Oakley M., Jr., to Radio Corp. of America. Slotted waveguide antenna. 2,810,907, 10-22-57, Cl. 343-767.
- Woodward, Robert B., to Research Corp. Production of steroid intermediate. 2,802,873, 8-13-57, Cl. 260-586.
- Woodward, Stewart, to General Electric Co. Pushbutton switch with momentary contact action. 2,810,027, 10-15-57, Cl. 200-5.
- Woodward, Teynham: See—
- Marcellus, Manley C., Woodward, and Work. 2,776,828.
- Woodward, Walter F. Picking motion mechanism for a loom. 2,807,284, 9-24-57, Cl. 139-142.
- Woodward, Walter W. Gang saw construction for cutting stone. 2,815,745, 12-10-57, Cl. 125-16.
- Woodworth, Charles H., to Timber Structures, Inc. Arch haunch construction. 2,776,457, 1-8-57, Cl. 20-0.5.
- Woodworth, Charles H., to Timber Structures, Inc. Rigid arch joiner. 2,796,642, 6-25-57, Cl. 20-92.

- Woodworth, Chester L., to Monsanto Chemical Co. Apparatus for knurling printing rolls. 2,798,387, 7-9-57, Cl. 78-13.1.
- Woodworth, N. A., Co.: *See*—
Hohwart, George and E. F. 2,777,701.
Hohwart, George and E. F. 2,803,159.
Hohwart, George, and E. F. 2,817,532.
- Woodworth, Ty K., to McCulloch Motors Corp. Chain saw with spiked reaction attachment. 2,813,556, 11-19-57, Cl. 143-32.
- Woody, Guy V., to Allis-Chalmers Mfg. Co. Vibrating ball mill having baffle plate for increasing retention time of material in mill. 2,818,220, 12-31-57, Cl. 241-175.
- Woofter, Robert C., to General Motors Corp. Shielded electrical conductor. 2,782,250, 2-19-57, Cl. 174-77.
- Woofter, Robert C., to General Motors Corp. Spark plug boot and terminal. 2,792,558, 5-14-57, Cl. 339-26.
- Woofter, Robert C., R. E. Kirk, and R. H. Sims, to General Motors Corp. Multiple wire connector. 2,809,361, 10-8-57, Cl. 339-176.
- Wool Industries Research Assn.: *See*—
Gibson, Robert, Thorndike, and Liversidge. 2,795,012.
- Woolam, Frank J.: *See*—
Taris, Charles M., and Woolam. 2,816,176.
- Woodrik, Gerrit J. L. Process for applying colored designs on fabrics. 2,810,673, 10-22-57, Cl. 154-95.
- Wooler, John and R. Combination control assemblies applicable to motorcycles. 2,796,773, 6-25-57, Cl. 74-489.
- Wooler, Ronald: *See*—
Wooler, John and R. 2,796,773.
- Wooley, Shelby F.: *See*—
Mooney, James E. 2,796,069.
- Woolf, Cyril: *See*—
Miller, Charles B., and Woolf. 2,803,665.
Miller, Charles B., and Woolf. 2,803,666.
Miller, Charles B., and Woolf. 2,807,646.
- Woolf, Cyril, to Allied Chemical & Dye Corp. Manufacture of zirconium tetrafluoride catalyst. 2,805,121, 9-3-57, Cl. 23-88.
- Woolf, James W., to Joy Mfg. Co. Electrical controlling apparatus. 2,781,424, 2-12-57, Cl. 200-1.
- Woolf, Levi. Wheel operated grass shears. 2,811,822, 11-5-57, Cl. 56-241.
- Woolfolk, Pearl C. Can opener. 2,777,600, 1-15-57, Cl. 220-52.
- Wooliver, Phillip C., to General Motors Corp. Portable tool for applying spring nut fasteners. 2,787,923, 4-9-57, Cl. 81-3.
- Woolley, Charles H., and E. Durham, to The Babcock & Wilcox Co. Method of and apparatus for controlling vapor superheat temperatures. 2,778,346, 1-22-57, Cl. 122-479.
- Woolley, Harold O., Jr., to A M P Inc. Electrical connector. 2,786,192, 3-19-57, Cl. 339-276.
- Woolley, Harold O., Jr., to AMP Inc. Closed end connector. 2,803,695, 8-20-57, Cl. 174-87.
- Woolley, Harold O., Jr., to AMP Inc. Electrical connector. 2,818,363, 12-31-57, Cl. 154-126.5.
- Woolley, Raymond E., to the United States of America as represented by the Secretary of the Army. Machine spacers. 2,807,956, 9-24-57, Cl. 125-13.
- Woolley, Richard P., to Socony Mobil Oil Co., Inc. Instrument for measuring the rate of change of temperature. 2,813,425, 11-19-57, Cl. 73-341.
- Woolrich, Willis R., Jr. Game board. 2,811,361, 10-29-57, Cl. 273-134.
- Woolsey, Theodore A.: *See*—
Herman, Albert D., and Woolsey. 2,801,116.
- Woolslayer, Homer J., C. D. Iddings, C. Jenkins, and E. A. Campbell, to Lee C. Moore Corp. Oil well mast gin pole. 2,780,325, 2-5-57, Cl. 189-16.
- Woolslayer, Homer J., C. D. Iddings, P. E. Borg, and C. Jenkins, to Lee C. Moore Corp. Oil well mast gin pole. 2,780,326, 2-5-57, Cl. 189-16.
- Woolslayer, Homer J., C. Jenkins, C. L. Turner, and E. A. Campbell, to Lee C. Moore Corp. Oil well mast collapsible gin pole. 2,787,339, 4-2-57, Cl. 189-15.
- Woolslayer, Homer J., C. Jenkins, C. L. Turner, and E. A. Campbell, to Lee C. Moore Corp. Portable oil well mast with folding gin pole. 2,787,344, 4-2-57, Cl. 189-15.
- Woolslayer, Homer J., C. Jenkins, and E. A. Campbell, to Lee C. Moore Corp. Telescoping portable mast. 2,804,948, 9-3-57, Cl. 189-11.
- Woolslayer, Homer J., C. Jenkins, C. L. Turner, and E. A. Campbell, to Lee C. Moore Corp. Telescoping portable mast. 2,804,949, 9-3-57, Cl. 189-11.
- Woolven, John L. Folding decoration. 2,787,073, 4-2-57, Cl. 41-11.
- Woosey, Edward, to Lancashire Dynamo & Crypto Ltd. Machines for wrapping flexible material on cores. 2,813,392, 11-19-57, Cl. 57-10.
- Wootton, William C., to United-Carr Fastener Corp. Molding and like fastening device. 2,807,063, 9-24-57, Cl. 24-213.
- Wootton, William C., to United-Carr Fastener Corp. Fastening device. 2,809,413, 10-15-57, Cl. 24-213.
- Wootton, William R., and R. H. Evans, to The Babcock & Wilcox Co. Boiler having a vortex chamber and method of operating the boiler. 2,804,854, 9-3-57, Cl. 122-479.
- Worcester, Leslie E.: *See*—
Giulie, Joe D., and Worcester. 2,794,848.
- Word, James C., Jr., to Phillips Petroleum Co. Proportioning of fluids. 2,787,281, 4-2-57, Cl. 137-93.
- Worden Co.: *See*—
Worden, Floyd O. 2,814,272.
- Worden, Floyd O., to Worden Co. Cattle oiler. 2,814,272, 11-26-57, Cl. 119-157.
- Worden, Norbert P., to C. M. Hall Lamp Co. Lamp assembly. 2,806,940, 9-17-57, Cl. 240-52.1.
- Worden, Ulysses S.: *See*—
Tanis, David, and Worden. 2,797,406.
- Wordie, John D.: *See*—
Schaeffer, William D., and Wordie. 2,798,103.
Scott, Carleton B., Schaeffer, and Wordie. 2,810,002.
- Wordie, John D., and D. A. Skinner, to Union Oil Co. of California. Continuous process for preparing ammonium phosphate. 2,792,286, 5-14-57, Cl. 23-107.
- Wordie, John D., and D. A. Skinner, to Union Oil Co. of California. Ammonium phosphate fertilizers. 2,799,569, 7-16-57, Cl. 71-42.
- Wordingham, Maurice G.: *See*—
Sells, Arthur M. 2,816,535.
- Work, Erich W. Temperature and pressure relief valve. 2,810,527, 10-22-57, Cl. 236-80.
- Work, Josiah: *See*—
Marcellus, Manley C., Woodward, and Work. 2,776,828.
- Work, Lincoln T.: *See*—
Holmes, Raymond S., and Work. 2,805,624.
- Work, Lincoln T., to Borg-Warner Corp. Separating device. 2,790,554, 4-30-57, Cl. 210-294.
- Working, Loren F., Jr., to Fas'nail, Inc. Nailing strip. 2,784,405, 3-12-57, Cl. 1-24.5.
- World Plastex: *See*—
Cook, Leon A., and Hutcheon. 2,806,718.
- Worldsbest Industries, Inc.: *See*—
Lego, Hallie G. 2,794,556.
Rusch, William H. 2,812,188.
- Worley, Charles I., Jr., to E. L. Caldwell and Sons. Vehicle wheel suspension. 2,816,753, 12-17-57, Cl. 267-20.
- Worley Co.: *See*—
Gallacher, James I. 2,792,125.
- Worley, Emmett J. Heating and ventilating system. 2,816,714, 12-17-57, Cl. 237-53.
- Worley, Marvin S., H. L. Johnson, Jr., and L. B. Keel, Jr., to Black, Sivalls & Bryson, Inc. Gas dehydration process and apparatus. 2,812,827, 11-12-57, Cl. 183-2.7.
- Worley, Teddy G.: *See*—
Gallacher, James I. 2,792,125.
- Wormser, Arthur, to Inflico Inc. Apparatus for screening and comminuting. 2,781,915, 2-19-57, Cl. 210-152.
- Wormser, Eric M., to Servo Corp. of America. Total-radiation pyrometer. 2,798,961, 7-9-57, Cl. 250-83.3.
- Wormser, Eric M., to Servo Corp. of America. Total-radiation pyrometer. 2,798,962, 7-9-57, Cl. 250-83.3.
- Worn, George A., to The Lummas Co. Pressure head seal. 2,797,018, 6-25-57, Cl. 220-46.
- Worn, George A., Jr.: *See*—
Otto, Carl L., and Worn. 2,811,774.
- Worrell, Guy C. Single spindle automatic screw machine. 2,791,822, 5-14-57, Cl. 29-37.
- Worrell, Lewis J., Jr.: *See*—
Furlow, William M., Jr., and Worrell. 2,814,022.
- Worrell, Robert L., to Allis-Chalmers Mfg. Co. Pickup attachment. 2,816,413, 12-17-57, Cl. 56-364.
- Worschitz, Federico. Container. 2,812,643, 11-12-57, Cl. 62-104.
- Worst, Joseph C., to General Electric Co. Resetting device for vibration switches of laundry machines. 2,784,584, 3-12-57, Cl. 68-24.
- Worth, Henry, and M. D. Goldsmith. Combined container and applicator. 2,816,309, 12-17-57, Cl. 15-137.
- Worth, Sidney V., and L. K. Bates, to Philco Corp. Material handling apparatus. 2,804,187, 8-27-57, Cl. 193-43.
- Worth, Thomas F., to General Electric Co. Dynamoelectric machine. 2,782,327, 2-19-57, Cl. 310-59.
- Wortham, Carl A., to The New York Trust Co., and J. H. Baile, as trustees. Automatic thread cutter for sewing machines. 2,808,795, 10-8-57, Cl. 112-252.
- Wortham, Charles A.: *See*—
Gordon, Donald D., and Wortham. 2,781,139.
- Wortham, Coleman, Jr.: *See*—
Jones, Montgomery O. 2,785,751.
- Wortham, Edgar D. Circular hole cutter. 2,795,277, 6-11-57, Cl. 164-71.
- Worthen, George B.: *See*—
Hackenberg, John H., Worthen, and Ridings. 2,785,223.
- Worthen, George B., to The Western Union Telegraph Co. Compensated phototube amplifier. 2,794,850, 6-4-57, Cl. 178-7.1.
- Worthen, George B., to The Western Union Telegraph Co. Facsimile recording amplifier. 2,794,913, 6-4-57, Cl. 250-27.
- Worthen, John H., to Federal Products Corp. Centralizing mechanism for a bore gauge. 2,775,820, 1-1-57, Cl. 33-178.
- Worthen, John H., to Federal Products Corp. Air gauge. 2,795,855, 6-18-57, Cl. 33-178.
- Worthington, Albert E.: *See*—
Nicolson, Kingsley M., and Worthington. 2,809,435.
- Worthington, Albert E., and J. E. Walstrom, to California Research Corp. Depth correlation in well logging apparatus. 2,809,436, 10-15-57, Cl. 33-134.
- Worthington Ball Co., The: *See*—
Smith, Robert F. 2,787,024.

- Worthington Corp.: *See*—
 Aronson, David. 2,791,105.
 Church, Maynard D. 2,791,252.
 Cronk, John L. 2,793,540.
 Dorer, Oscar H. 2,791,179.
 Feldbush, Harry A. 2,780,406.
 Hellmuth, Walter. 2,776,087.
 Heteji, Paul S. 2,784,952.
 Hirsch, Sylvan R. 2,795,238.
 Hirsch, Sylvan R. 2,813,404.
 Kaufmann, William M., and Whiting. 2,779,155.
 Keir, Alexander J., and Huncer. 2,804,186.
 Keuffel, August J. 2,808,008.
 Krutzsch, William C., Jr. 2,804,357.
 Nicholas, Andrew J. 2,818,314.
 Pilarczyk, Karol. 2,813,761.
 Schorer, Otto J. 2,776,840.
 Schorer, Otto J. 2,779,436.
 Sebald, Joseph F. 2,792,904.
 Steven, George. 2,817,949.
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 Walter, Hellmuth. 2,801,791.
- Worthington, Emory W.: *See*—
 Dressel, Arthur, and Worthington. 2,813,713.
- Worthington, Harvey R., Jr., to the United States of America as represented by the Secretary of the Navy. Lobe comparison systems. 2,817,835, 12-24-57, Cl. 343-16.
- Worzel, John L.: *See*—
 Ewing, William M., and Worzel. 2,785,633.
- Wosika, Leon R., to Solar Aircraft Co. Diffuser tallcone. 2,809,491, 10-15-57, Cl. 60-35.6.
- Wosika, Leon R., and A. D. Zakarian, to Solar Aircraft Co. Pump and power plant assembly. 2,780,174, 2-5-57, Cl. 103-87.
- Wosika, Leon R., P. A. Pitt, and G. B. Hodgson, to Solar Aircraft Co. Gas turbine. 2,801,518, 8-6-57, Cl. 60-39.32.
- Wosse, Karl B. R. Food shaper having removable molding cups. 2,785,641, 3-19-57, Cl. 107-48.
- Wottring, Le Roy, to Cadwell Corp. Slide projector apparatus. 2,795,169, 6-11-57, Cl. 88-28.
- Woydt, Eduard. Liquid piston engine or liquid piston pump. 2,806,431, 9-17-57, Cl. 103-38.
- Woyski, Mark M., and E. A. Ford, to the United States of America as represented by the Secretary of War. Smoke-producing composition. 2,798,799, 7-9-57, Cl. 52-23.
- Woyton, Thomas M. Paintbrush extension handle. 2,792,581, 5-21-57, Cl. 15-144.
- Wozniak, Mitchell S., to J. T. Chase. Laterally adjustable tool holder. 2,807,812, 10-1-57, Cl. 10-89.
- Wragg, William R.: *See*—
 Barber, Harry J., Washbourn, and Wragg. 2,797,218.
- Wraight, Frank L. Jaw face attaching means for wrench jaw constructions. 2,777,348, 1-15-57, Cl. 81-186.
- Wreford, Annie A. M.: *See*—
 Wreford, Frederick S. 2,797,255.
 Wreford, Frederick S. 2,808,639.
- Wreford, Frederick S., deceased, by A. A. M. Wreford, executrix, to Gar Wood Industries, Inc. Liquid-cooled welding cable assembly. 2,797,255, 6-25-57, Cl. 174-15.
- Wreford, Frederick S., deceased, by A. A. M. Wreford, executrix, to Gar Wood Industries, Inc. Process of securing welding cables to terminals. 2,808,639, 10-8-57, Cl. 29-155.55.
- Wrenn, George T., Jr., to Virginia Smelting Co. Valved dispenser. 2,807,391, 9-24-57, Cl. 222-5.
- Wright, Albert L. H.: *See*—
 Pierce, Norton T., Bartlett, Erikson, Fairbank, McCune, and Wright. 2,784,653.
- Wright, Alexander M., to Pratt & Whitney Co., Inc. Fluid flow controls. 2,788,063, 4-9-57, Cl. 158-36.4.
- Wright, Annie: *See*—
 Wright, Arthur. 2,807,737.
- Wright, Antony, to Columbia Broadcasting System, Inc. Television tuner control mechanism. 2,803,139, 8-20-57, Cl. 74-10.5.
- Wright, Arthur, deceased; Annie Wright, administratrix. Cathode ray television receiver tube and method of using the same. 2,807,737, 9-24-57, Cl. 313-70.
- Wright, Burton G., to General Electric Co. Voltage regulating transformer system with permanent phase shift. 2,812,438, 11-5-57, Cl. 323-47.
- Wright, Byron T., to the United States of America as represented by the United States Atomic Energy Commission. Ion accelerator beam extractor. 2,790,902, 4-30-57, Cl. 250-27.
- Wright, Carl P. Glue applicator. 2,808,603, 10-8-57, Cl. 15-131.
- Wright, Carlton M. Carton breaker/downer tool. 2,797,492, 7-2-57, Cl. 33-174.
- Wright, Catherine B. Dry lemon food flavoring composition and method of preparing the same. 2,812,258, 11-5-57, Cl. 99-140.
- Wright, Cecil L. Power failure responsive cut-off valve system. 2,800,921, 7-30-57, Cl. 137-565.
- Wright, Charles E. Countersink attachment for twist drills. 2,794,470, 6-4-57, Cl. 145-125.
- Wright, Chester H., to General Steel Castings Corp. Pilot snow plow. 2,783,555, 3-5-57, Cl. 37-30.
- Wright, Clarence E. Safety lock for fluid-pressure actuator. 2,815,736, 12-10-57, Cl. 121-40.
- Wright, Clifford B.: *See*—
 Barish, Thomas, Irwin, Line, and Wright. 2,780,298.
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- Blackburn, Mack O., Garber, and Wright. 2,786,538.
- Wright, Clifford B., to General Motors Corp. Propeller blade. 2,782,862, 2-26-57, Cl. 170-159.
- Wright, Donald C. Stencil roller. 2,780,166, 2-5-57, Cl. 101-123.
- Wright, E. T., & Co., Inc.: *See*—
 Giblein, James P. 2,795,864.
- Wright, Edward H., and G. C. Pickard, to Shawinigan Chemicals Ltd. Polyvinyl acetate emulsions stabilized with hydroxyethyl cellulose and method of preparation. 2,809,945, 10-15-57, Cl. 260-17.
- Wright Electronic Development Co.: *See*—
 Shepherd, Jack D. 2,817,778.
- Wright, Fred S.: *See*—
 Lindstaedt, Frank F., Melbostad, and Wright. 2,781,994.
- Wright, Frank, to The Waterbury Farrel Foundry and Machine Co. Cam actuated laterally reciprocating tool carrier. 2,784,427, 3-12-57, Cl. 10-12.5.
- Wright, George W., to Tokheim Corp. Pump connector mounting. 2,818,026, 12-31-57, Cl. 103-150.
- Wright, George W., R. J. Jauch, and J. D. Clymer, to Tokheim Corp. Air separator. 2,779,503, 1-29-57, Cl. 222-72.
- Wright, George W., J. D. Clymer, and E. E. Jackson, to Tokheim Corp. Dispensing apparatus for liquid fuel. 2,812,111, 11-5-57, Cl. 222-76.
- Wright, Gordon P., to Kelvin & Hughes Ltd. Gyroscopic apparatus. 2,782,078, 2-19-57, Cl. 308-178.
- Wright, Gordon P., to Kelvin & Hughes Ltd. Turn and slip indicator instruments. 2,805,578, 9-10-57, Cl. 74-5.5.
- Wright, Harold B., to Fisher Governor Co. Safety regulator for fluids. 2,800,918, 7-30-57, Cl. 137-461.
- Wright, Harry A. Bait casting device. 2,795,884, 6-18-57, Cl. 43-19.
- Wright, Hazel H.: *See*—
 Brandon, Clarence W. 2,796,129.
- Wright, Herbert M.: *See*—
 Spieth, Charles W., Wright, and Clark. 2,781,935.
- Wright, Howard E.: *See*—
 Sharp, Robert G., and Wright. 2,780,064.
- Wright, Ivan E., and V. J. Annel, to Stone Container Corp. Pad structure for paperboard containers. 2,808,978, 10-8-57, Cl. 229-14.
- Wright, J. Rondie, to Sun Oil Co. Apparatus for measurement of engine power. 2,810,517, 10-22-57, Cl. 235-61.
- Wright, J. Rondie, and M. A. Lindeman, to Sun Oil Co. Engine power indicator. 2,817,966, 12-31-57, Cl. 73-116.
- Wright, James A. Apparatus for frightening birds. 2,788,762, 4-16-57, Cl. 116-22.
- Wright, James C., and B. B. Tyus; said Wright assor. to Silver Engineering Works, Inc., a division of Silver Corp. Method and apparatus for fluidized drying. 2,795,860, 6-18-57, Cl. 34-10.
- Wright, James R., and A. Goldschmidt, to California Research Corp. Di[tri(alkoxy)siloxy]dihydrocarbyl silanes. 2,780,636, 2-5-57, Cl. 260-448.8.
- Wright, John C.: *See*—
 Gould, Charles W., Putnam, and Wright. 2,817,648.
- Wright, John G., to The Auto-Solar Co. Work support adjusting means for fastener forming and inserting machines. 2,793,364, 5-28-57, Cl. 1-41.
- Wright, John W. Garment hanger. 2,786,579, 3-26-57, Cl. 211-89.
- Wright, Joseph, and H. J. Butler, to Dunlop Rubber Co. Ltd. Vehicle disc brake assembly. 2,790,516, 4-30-57, Cl. 188-73.
- Wright, Lee S., to General Motors Corp. Operating apparatus for vehicle windows. 2,803,492, 8-20-57, Cl. 296-44.
- Wright, Manfred G., and W. R. Kearney, to General Motors Corp. Manual powered tuner. 2,800,587, 7-23-57, Cl. 250-40.
- Wright, Maurice M. Herbicidal granular pellets and method of applying the same. 2,792,295, 5-14-57, Cl. 71-2.1.
- Wright & McGill Co.: *See*—
 Hutchison, Donald F. 2,777,240.
- Wright, Nelson P., to Rock of Ages Corp. Combined grave marker and flower holder. 2,810,990, 10-29-57, Cl. 47-41.
- Wright, Oscar L.: *See*—
 Tucker, Grahame E. R., Amsel, and Wright. 2,800,076.
- Wright, Oscar L., Jr.: *See*—
 Dunn, Raymond J., Jr., and Wright. 2,779,220.
- Wright Products Inc.: *See*—
 Falk, Harold W. 2,812,533.
- Wright, Ralph J., to Iron Fireman Mfg. Co. Speed control system. 2,810,104, 10-15-57, Cl. 318-220.
- Wright, Raymond O. Pressure responsive door latch actuator. 2,786,706, 3-26-57, Cl. 292-336.3.
- Wright, Raymond W. Box car side and end lining. 2,813,495, 11-19-57, Cl. 105-369.
- Wright, Richard C.: *See*—
 Running, Frederick L., Webb, and Wright. 2,804,916.
- Wright, Robert L., and W. C. Whittenberg, to Westinghouse Electric Corp. X-ray apparatus. 2,785,343, 3-12-57, Cl. 315-251.
- Wright, Roy O. Ratchet gear assembly for wrenches and dies. 2,781,530, 2-19-57, Cl. 10-124.

- Wright, Theodore M., to Radio Corp. of America. Apparatus for the sensing and registration of sheets. 2,801,692, 8-6-57, Cl. 164-48.
- Wright, Thomas L.: *See*—
Parker, Frank A., and Wright. 2,817,290.
- Wright, Walter W., P. Welch, and D. A. Day, to International Standard Electric Corp. Electron discharge device. 2,815,464, 12-3-57, Cl. 313-301.
- Wright, William. Emergency brakes for trailer trucks and the like. 2,789,665, 4-23-57, Cl. 188-4.
- Wright, William B., Jr., to American Cyanamid Co. Certain dihydro-benzoxazine-ones and dihydro-benzothiazine-ones and process. 2,776,281, 1-1-57, Cl. 260-244.
- Wright, William L., to Marconi's Wireless Telegraph Co. Ltd. Automatic frequency control. 2,790,905, 4-30-57, Cl. 250-36.
- Wright, William T., Sr. Night deposit safe having card-receiving apparatus. 2,776,090, 1-1-57, Cl. 232-14.
- Wrightfield, Ralph C., to Curtis Companies Inc. Multiple sash window operating mechanism. 2,790,212, 4-30-57, Cl. 20-42.
- Wright's Biscuits Ltd.: *See*—
Page, Alfred C. 2,783,866.
- Wrightsmen, Gilbert G.: *See*—
Prokop, Charles L., Wrightsmen, Hoyer, and Taggart. 2,808,248.
- Wrightson, John M.: *See*—
Dittman, Albert L., and Wrightson. 2,784,176.
Passino, Herbert J., Dittman, and Wrightson. 2,783,219.
- Wrigley, Frederic K., to Phillips Petroleum Co. Apparatus for producing carbon black. 2,780,529, 2-5-57, Cl. 23-259.5.
- Wrigley, Robert A. Nut with wedging lock washer and resilient backing washer assembly. 2,783,810, 3-5-57, Cl. 151-34.
- Wrigley, Wm., Jr., Co.: *See*—
Bonebrake, Gay M. 2,807,390.
- Wrobel, Albert A., to General Motors Corp. Windshield wiper arm. 2,790,195, 4-30-57, Cl. 15-255.
- Wroblewski, Edward J., to International Business Machines Corp. Card position checking device. 2,793,035, 5-21-57, Cl. 271-57.
- Wroblewski, Karl A. Container closure. 2,806,640, 9-17-57, Cl. 222-507.
- Wroth, William F. Liquid spray generator. 2,812,167, 11-5-57, Cl. 261-30.
- Wrotnowski, Arthur C.: *See*—
Boeddinghaus, Hugo, and Wrotnowski. 2,788,901.
- Wrought Iron Range Co.: *See*—
Culver, Edwin R., Jr. 2,786,211.
Nagel, Eric W. 2,797,680.
- Wubbe, Leo J., to Houdaille Industries, Inc. Seat back adjusting means. 2,799,325, 7-16-57, Cl. 155-152.
- Wubbe, Leo J., to Houdaille Industries, Inc. Power drive for pivoted window. 2,799,495, 7-16-57, Cl. 268-117.
- Wucherer, Johannes, and R. Becker, to Linde's Eismaschinen Aktiengesellschaft. Method for fractionating air by liquefaction and rectification. 2,784,572, 3-12-57, Cl. 62-175.5.
- Wuerfel, Donald F. Saucers. 2,803,120, 8-20-57, Cl. 65-65.
- Wuerthner, George. Collapsible golf cart. 2,791,436, 5-7-57, Cl. 280-38.
- Wulc, Paul. Closure device. 2,813,321, 11-19-57, Cl. 24-207.
- Wulf Process Co.: *See*—
Coberly, Clarence J. 2,817,411.
Harris, Ford W. 2,793,022.
Harris, Ford W. 2,815,198.
- Wulfsberg, Arthur H.: *See*—
Giacoletto, John P., Goetz, and Wulfsberg. 2,800,618.
- Wulfsberg, Karl N., to the United States of America as represented by the Secretary of the Air Force. Digital to analog converter. 2,803,815, 8-20-57, Cl. 340-347.
- Wulle, William A., to The Fyle-National Co. Ventilating apparatus. 2,775,927, 1-1-57, Cl. 98-40.
- Wulfschleger, Hans. Inhalation apparatus. 2,785,679, 3-19-57, Cl. 128-92.
- Wunch, William J.: *See*—
Finholt, Robert W., and Wunch. 2,789,926.
- Wunderwald, Leon E., and R. L. Rosebrough; said Rosebrough assor. to Bemis Bro. Bag Co. Storage bins. 2,804,897, 9-3-57, Cl. 150-0.5.
- Wunker, Gordon C. Foot protector. 2,807,098, 9-24-57, Cl. 36-7.6.
- Wurdel, Günther, to Holmberg & Co., Kommanditgesellschaft. Electrodynamic receiving apparatus. 2,801,294, 7-30-57, Cl. 179-155.5.
- Wurlitzer, Rudolph, Co., The: *See*—
Andersen, Clifford, and Andersen. 2,800,049.
Tucker, Clarence W., and Andersen. 2,807,295.
- Wurm, Josef, and G. Vogelfänger, to Schloemann Aktien-gesellschaft. Edge strip control in circular knife edging shears. 2,788,853, 4-16-57, Cl. 164-60.
- Würml, Arthur, to Joh. Jacob Rieter & Co., Ltd. Apparatus for making yarn packages. 2,800,762, 7-30-57, Cl. 57-88.
- Wurn, Isadore T.: *See*—
Lappin, Richard J., Anderson, and Wurn. 2,815,541.
- Würsch, Walter. Magnetic center holder for a workshop compass. 2,781,582, 2-19-57, Cl. 33-27.
- Wurster, Dale E., to Wisconsin Alumni Research Foundation. Means for applying coatings to tablets or the like. 2,799,241, 7-16-57, Cl. 118-24.
- Wurster & Sanger, Inc.: *See*—
Kurtz, Arthur E. 2,778,123.
- Wurth, Walter A.: *See*—
Jahnig, Charles E., Wurth, and Martin. 2,776,935.
- Wurtz, Clifford H., to General Motors Corp. Dehumidifier having unitary evaporator-condenser plate. 2,779,173, 1-29-57, Cl. 62-140.
- Wurtz, Clifford H., to General Motors Corp. Water cooling refrigerator. 2,787,131, 4-2-57, Cl. 62-103.
- Wurtz, Clifford H., to General Motors Corp. Oil separation in refrigerating apparatus. 2,787,136, 4-2-57, Cl. 62-117.75.
- Wurtz, Clifford H., to General Motors Corp. Refrigerating apparatus. 2,795,113, 6-11-57, Cl. 62-4.
- Wurtz, Clifford H., and K. K. Kesling, to General Motors Corp. Refrigerating apparatus for cooling liquids. 2,786,338, 3-26-57, Cl. 62-89.
- Wurtz, Clifford H., and H. R. Truck, to General Motors Corp. Refrigerator cabinet structure. 2,810,266, 10-22-57, Cl. 62-89.
- Wurzburg, Otto B.: *See*—
Caldwell, Carlyle G., and Wurzburg. 2,813,093.
Caldwell, Carlyle G., Wurzburg, and Fitzgerald. 2,788,293.
- Wurzburg, Otto B., M. W. Rutenberg, and L. J. Ross, to National Starch Products Inc. Sulfation of amylaceous materials. 2,786,833, 3-26-57, Cl. 260-233.5.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Retaining devices. 2,787,166, 4-2-57, Cl. 74-254.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Circular spring removing tool. 2,792,622, 5-21-57, Cl. 29-229.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Jalousie window construction. 2,807,840, 10-1-57, Cl. 20-62.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Internal retaining ring having integral locking prong. 2,811,889, 11-5-57, Cl. 85-8.8.
- Wurzel, Hugo, and M. Millheiser, to Walde Kohinoor, Inc. Attachment for grooving tools. 2,787,926, 4-9-57, Cl. 82-2.
- Wüstemann, Gustav, to F. Jahstorfer, Instep bandages. 2,798,309, 7-9-57, Cl. 36-8.5.
- Wüstenev, Herbert, and R. Stabenau, to Siemens & Halske Aktiengesellschaft. Start-stop teleprinter receivers. 2,795,647, 6-11-57, Cl. 178-33.
- Wuster, Heinrich. Self-closing umbrella frame. 2,816,560, 12-17-57, Cl. 135-23.
- Wutscher, Theodor F., to The Loewy Engineering Co., Ltd. Lubricating means for rolling mill coupling spindles. 2,788,861, 4-16-57, Cl. 184-6.
- Wyandotte Chemicals Corp.: *See*—
Ash, Arthur B., and Earing. 2,791,551.
Bacon, Leslie R., Othalek, and Sotier. 2,802,757.
Baeker, Henry J., Kubis, and Liger. 2,809,906.
Cramer, John J., and Narscius. 2,811,462.
Langdon, William K. 2,813,869.
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- Wyatt, Ernest V., Jr. Hydraulic water timer. 2,812,152, 11-5-57, Cl. 251-22.
- Wyatt, James L., and N. J. Grant, to National Lead Co. Method for nitriding titanium surfaces. 2,804,410, 8-27-57, Cl. 148-13.1.
- Wyatt, James M. Garment hanger. 2,787,406, 4-2-57, Cl. 223-92.
- Wyckoff, Theodore. Automatic transmission. 2,807,171, 9-24-57, Cl. 74-192.
- Wyckoff, Wilbur R.: *See*—
Ahlman, Gordon V., and Wyckoff. 2,784,164.
- Wygant, James C., to Monsanto Chemical Co. Carboxylic acid chlorides. 2,806,061, 9-10-57, Cl. 260-544.
- Wygant, James F.: *See*—
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- Wylde, Douglas: *See*—
Gibson, Arthur C., and Wylde. 2,816,974.
- Wylde, Joseph R.: *See*—
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- Wyllen, Joseph, to Burroughs Corp. Toroidal ferromagnetic core testing. 2,795,757, 6-11-57, Cl. 324-34.
- Wyller, Eugene N., and F. C. Todd, to the United States of America as represented by the Secretary of the Army. Cathode support. 2,814,753, 11-26-57, Cl. 313-278.
- Wyller, Joseph A., to Trojan Powder Co. Making dimethylol propane. 2,786,083, 3-19-57, Cl. 260-635.
- Wylie, Harold B., to the United States of America as represented by the Secretary of the Navy. Firing pin for rocket fuse. 2,817,295, 12-24-57, Cl. 102-81.2.
- Wylie, Howard H.: *See*—
Kagley, William H., Wylie, and Webster. 2,805,951.
- Wylie, Laurence. Method of removing snow from a line of travel, or an area, and a mechanism to carry out the same. 2,802,286, 8-13-57, Cl. 37-19.
- Wylie, Lena M. Safety indicator for fluid level. 2,791,197, 5-7-57, Cl. 116-118.
- Wylie, Oran L., Jr.: *See*—
Limerick, Donald A., and Wylie. 2,776,324.
- Wylie, William H. Asphalt batcher for pugmill. 2,787,450, 4-2-57, Cl. 259-164.
- Wyman, Burton A., to Westinghouse Electric Corp. Core constructions. 2,790,960, 4-30-57, Cl. 336-165.
- Wyman, Leonard J.: *See*—
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- Wyman, Robert A., to Joy Mfg. Co. Percussive drill bit. 2,807,443, 9-24-57, Cl. 255-64.
- Wynkoop, Francis Y. Head and upper body support. 2,803,022, 8-20-57, Cl. 5-327.

- Wynkoop, Raymond, to National Distillers and Chemical Corp. Chlorine recovery. 2,800,197, 7-23-57, Cl. 183-114.2.
- Wynkoop, Raymond, J. F. Nobis, and J. J. Giachetto, to National Distillers and Chemical Corp. Carbonation method. 2,816,918, 12-17-57, Cl. 260-533.
- Wynkoop, Raymond, and J. J. Giachetto, to National Distillers and Chemical Corp. Method of preparing acyclic carboxylic acids. 2,816,919, 12-17-57, Cl. 260-533.
- Wynn, Harold S.: *See—*
- Vande Sande, George, and Wynn. 2,806,685.
- Wynn, Harold S., to General Railway Signal Co. Code communication system. 2,793,357, 5-21-57, Cl. 340-163.
- Wynne, Ira H., to Oglebay, Norton and Co. Method and apparatus for agglomerating finely divided solid material. 2,778,056, 1-22-57, Cl. 18-1.
- Wynne, Peter J.: *See—*
- Newhall, Henry S., and Wynne. 2,812,375.
- Wysocki, Kazmier, to Progressive Machine Co. Apparatus for directing applicators into bottles. 2,810,249, 10-22-57, Cl. 53-3.7.
- Wysong, Don V.: *See—*
- White, Halbert C., and Wysong. 2,783,274.
- Wysong, Paul V., Jr.: *See—*
- Bohnhoff, Arthur F., and Wysong. 2,802,354.
- Lincoln, Clovis W., Wysong, and Malone. 2,802,371.
- Wysong, Paul V., Jr., and A. F. Bohnhoff, to General Motors Corp. Hydraulic steering assembly with motor forming one link of the assembly. 2,797,764, 7-2-57, Cl. 180-79.2.
- Wyss, Escher, Aktiengesellschaft: *See—*
- Süss, Arnold. 2,818,227.
- Wyssen, Jakob. Hoisting and conveying apparatus. 2,790,561, 4-30-57, Cl. 212-92.
- Wystrach, Vernon P.: *See—*
- Hook, Edwin O., Beegle, and Wystrach. 2,786,866.
- Wystrach, Vernon P., E. O. Hook, and G. L. Christopher, to American Cyanamid Co. Basic zinc dialkyl dithiophosphates and methods of making the same. 2,794,780, 6-4-57, Cl. 252-32.7.
- Wythe, Frederick J., to Embart Mfg. Co. Glass feeder shears provided with charge turning mechanism. 2,812,619, 11-12-57, Cl. 49-14.
- Wythe, Stephen L., to Esso Research and Engineering Co. Stabilization of phosphosulfurized hydrocarbons. 2,804,431, 8-27-57, Cl. 252-46.6.
- Wythe, Winston P. Music stand. 2,799,968, 7-23-57, Cl. 45-121.
- Wytzes, Sjoerd, to Hartford National Bank and Trust Co., as trustee. X-ray fluorescent spectrometry. 2,783,385, 2-26-57, Cl. 250-53.
- Xanten, Elmer F., to Rockford Factories, Inc. Combination screen and storm window for basement steel sash. 2,800,956, 7-30-57, Cl. 160-91.
- Xenakis, James J., to the United States of America as represented by the Secretary of the Army. Momentary contact switch. 2,809,261, 10-8-57, Cl. 200-160.
- Xeros, Constantine M.: *See—*
- Pike, Carl M., and Xeros. 2,814,464.
- Yabuta, Teijiro, and H. Ikeda. Process of obtaining highly purified streptomycin salts. 2,779,759, 1-29-57, Cl. 260-210.
- Yabuta, Teijiro, H. Ikeda, K. Shiroyanagi, I. Fujimaki, and M. Katayama. Neodihydrostreptomycin and acid addition salts. 2,803,650, 8-20-57, Cl. 260-210.
- Yacoby, Paul E. Power driven vehicle with interchangeable rotary tool. 2,776,533, 1-8-57, Cl. 56-26.
- Yacus, Steve: *See—*
- Von der Linden, Arthur F., and Yacus. 2,815,609.
- Yadro, Charles L. Trailer braking means. 2,786,554, 3-26-57, Cl. 188-112.
- Yaeger, Harry C., to Underwood Corp. Features related to overrun cushioned carriage return mechanism. 2,797,789, 7-2-57, Cl. 197-66.
- Yaeger, Harry C., to Underwood Corp. Automatic carriage return. 2,812,049, 11-5-57, Cl. 197-66.
- Yaeger, Harry C., to Underwood Corp. Power operated type-writing and like machines. 2,818,151, 12-31-57, Cl. 197-17.
- Yaeger, Luther L.: *See—*
- Bjorksten, Johan, Fiedler, and Yaeger. 2,801,936.
- Cox, Robert P., Yaeger, and Buetow. 2,788,306.
- Gustus, Edwin L., and Yaeger. 2,781,287.
- Yaeger, Luther L., to Bjorksten Research Laboratories, Inc. Heat resistant transparent laminate. 2,789,932, 4-23-57, Cl. 154-2.75.
- Yaeger, Robert E., to Bell Telephone Laboratories, Inc. Pulse code resolution. 2,793,807, 5-28-57, Cl. 235-61.
- Yafi, Muhieddine G. Process for cooling, pressing and drying of protein containing glue. 2,807,051, 9-24-57, Cl. 18-55.
- Yager, John C.: *See—*
- Gross, Bernard, and Yager. 2,778,995.
- Yager, John C., to Rohr Aircraft Corp. Resistance standard and method of making same. 2,806,930, 9-17-57, Cl. 201-74.
- Yager, William A., to Bell Telephone Laboratories, Inc. Magnetically controlled microwave structures. 2,784,378, 3-5-57, Cl. 332-51.
- Yagzi, Henry J., to Joy Mfg. Co. Extensible conveyor. 2,812,848, 11-12-57, Cl. 198-139.
- Yahnke, James G. Wax siphon spray process. 2,817,600, 12-24-57, Cl. 117-104.
- Yakopec, Rudolph, to United States Steel Corp. Self-dumping bucket-and-bail container. 2,798,758, 7-9-57, Cl. 294-73.
- Yale, Gordon A., to Stocker & Yale, Inc. Tap analyzer. 2,794,362, 6-4-57, Cl. 88-14.
- Yale & Towne Mfg. Co., The: *See—*
- Berge, Godshalk. 2,816,053.
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- Check, Mathias M., 2,795,946.
- Check, Mathias M., and Andrew. 2,815,975.
- Horton, Earl A. 2,787,393.
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- Quayle, George F. 2,787,337.
- Quayle, George F. 2,787,338.
- Quayle, George F. 2,791,292.
- Quayle, George F. 2,793,875.
- Roggenkamp, George H. 2,817,802.
- Schmid, Raymond W. 2,800,351.
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- Ulinski, Bronislaus I. 2,790,879.
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- Ulinski, Bronislaus I. 2,817,420.
- Ulinski, Bronislaus I. 2,817,450.
- Yalowitz, Harold I., to Commercial Solvents Corp. Recovery of pentaerythritol by formalin extraction. 2,780,655, 2-5-57, Cl. 260-637.
- Yamauchi, Yukio. Jet propelled toy vehicle. 2,781,610, 2-19-57, Cl. 46-99.
- Yamauchi, Tomiko, to Astra Merchandise Co., Inc. Candy shooting toy device. 2,814,285, 11-26-57, Cl. 124-27.
- Yamaura Masao, and N. Nakaseko, to Yuasa Battery Co. Ltd. Method of manufacturing the porous tube for storage battery plate. 2,806,076, 9-10-57, Cl. 136-55.
- Yana, Joseph V., to Waite Carpet Co. Rug binding. 2,782,424, 2-26-57, Cl. 2-278.
- Yancey, John R. Circulation booster. 2,794,617, 6-4-57, Cl. 255-24.
- Yanikoski, Florian F., to Fenwal Inc. Adjusting means. 2,782,751, 2-26-57, Cl. 116-124.
- Yankee Metal Products Corp.: *See—*
- Malachowski, Handry J. 2,791,939.
- Yannello, Oreste: *See—*
- Carstairs, Roy M., and Yannello. 2,806,235.
- Yannone, Ralph R. Picture frame. 2,796,689, 6-25-57, Cl. 40-152.1.
- Yanus, Albert B., and L. L. Cerny, to The Alpha Shrimp Machine Corp. Shrimp clamp. 2,789,309, 4-23-57, Cl. 17-2.
- Yarbrough, Carl G. Pump liner tightening attachment. 2,786,425, 3-26-57, Cl. 103-216.
- Yarbrough, Cecil L.: *See—*
- Bundy, David T. 2,815,241.
- Yard-Man, Inc.: *See—*
- Funk, Truman B. 2,791,079.
- Yardney International Corp.: *See—*
- Bikerman, Jacob J. 2,810,008.
- Brill, Otto H., and Solomon. 2,810,776.
- Chapman, Christopher L. C. 2,776,331.
- Gold, Charles M. 2,783,291.
- Mendelsohn, Meyer. 2,816,154.
- Mendelsohn, Meyer, and Solomon. 2,812,379.
- Renke, Adolph W. 2,798,111.
- Solomon, Frank. 2,818,462.
- Yardney, Michel N. 2,812,376.
- Yardney, Michel N., to Yardney International Corp. Electric battery. 2,812,376, 11-5-57, Cl. 136-6.
- Yarmak, Julius, to Societe Stephanoise de Constructions Mechaniques. Balanced hydraulic pump or motor or radial piston type. 2,800,857, 7-30-57, Cl. 103-3.
- Yaron, Faivel: *See—*
- Block, Rudolph M., and Yaron. 2,784,063.
- Yarrow, Joseph S., deceased; M. L. Allen, and R. F. Brinckerhoff, executors of the will of J. S. Yarrow, to Betts & Betts Corp. Oscillatory display device having bimetallic actuator. 2,817,916, 12-31-57, Cl. 40-139.
- Yarsley, Victor E. Production of filter elements. 2,806,474, 9-17-57, Cl. 131-10.
- Yates, Albert E., 25% to L. W. Dykes. Time clock. 2,797,270, 6-25-57, Cl. 200-37.
- Yates-American Machine Co.: *See—*
- Eschenburg, William A. 2,786,496.
- Eschenburg, William A., and Balstad. 2,808,084.
- Hildebrand, Vernon H. 2,785,591.
- Yates, Charles G., Jr., to General Electric Co. Aircraft control apparatus. 2,790,946, 4-30-57, Cl. 318-489.
- Yates, Odaville. Dental paste mixing tool. 2,810,959, 10-29-57, Cl. 32-40.
- Yates, Richard W. Combination ice cube, cracked ice, and quick freeze tray. 2,783,619, 3-5-57, Cl. 62-108.5.
- Yates, Wilfrid A., to ACF Industries, Inc. Automatic antenna tuner. 2,810,070, 10-15-57, Cl. 250-17.
- Yates, Wilfrid A., and M. Davidson, to the United States of America as represented by the Secretary of the Navy. Vibration calibrator. 2,796,756, 6-25-57, Cl. 73-1.
- Yavitch, Morris. Device for testing bath cabinet shower pans for leakage. 2,780,303, 2-5-57, Cl. 182-31.
- Yaw, Katherine E.: *See—*
- Kakavas, James C., and Yaw. 2,787,576.

- Yaw, Robert E. Method of applying an advertising and eraser-retaining ferrule to a pencil shaft. 2,785,100, 3-12-57, Cl. 154-83.
- Yawata Iron & Steel Co., Ltd.: See—
Matsuzuka, Kiyoto. 2,784,074.
- Yeadon, Donald J., L. W. Hooker, and H. Garland, to Board of Control of the Michigan College of Mining & Technology. Apparatus for stripping bark. 2,802,497, 8-13-57, Cl. 144-208.
- Yeager, George F. Articulating connectors for weighing scales. 2,782,021, 2-19-57, Cl. 265-58.
- Yeager, John A.: See—
Jelinek, Charles F., Mayhew, and Yeager. 2,781,320.
Mayhew, Raymond L., and Yeager. 2,781,321.
- Yeager, Robert N., to Solar Aircraft Co. Sheet metal variable area nozzle. 2,806,349, 9-17-57, Cl. 60-35.6.
- Yeargan, Ervin B. Means to attach a ring to pipe. 2,812,200, 11-5-57, Cl. 287-52.09.
- Yearling, Joseph H., to New Cumberland Metal Products, Division of The Matthew Phillips Co. Road form. 2,793,416, 5-28-57, Cl. 25-118.
- Yeatman, Charles A.: See—
Gregory, James N., and Yeatman. 2,776,817.
- Yedinak, Steve. Nail having a barbed fin for engaging an anchoring rod. 2,793,559, 5-28-57, Cl. 85-23.
- Yee, Albert: See—
Chill, Ralph, Liu, and Yee. 2,817,895.
Cunningham, George L., and Yee. 2,817,893.
- Yeich, William R.: See—
Bennett, Wesley F., and Yeich. 2,786,389.
Gray, John B., III, and Yeich. 2,801,329.
Hall, Howard S., Load, and Yeich. 2,795,687.
- Yeiser, Frank M. Filter. 2,793,754, 5-28-57, Cl. 210-328.
- Yellott, John I., to Bituminous Coal Research, Inc. Pneumatic material handling system and apparatus. 2,805,896, 9-10-57, Cl. 302-29.
- Yellott, John I., to Bituminous Coal Research, Inc. Pneumatic fluidized material handling system. 2,805,897, 9-10-57, Cl. 302-29.
- Yellott, John I., and P. R. Broadley, to Bituminous Coal Research, Inc. Combination reverse flow vortical whirl separator and classifier. 2,804,171, 8-27-57, Cl. 183-92.
- Yellott, John I., and P. R. Broadley, to Bituminous Coal Research, Inc. Reverse flow vortical whirl separators with chambered pneumatic blowdown means for continuous removal of separated particles. 2,812,828, 11-12-57, Cl. 183-80.
- Yellow Cab Co. of Philadelphia: See—
Hamilton, Will H. 2,814,028.
- Yelton, Samuel M. Spring clip attaching tool. 2,803,871, 8-27-57, Cl. 29-235.
- Yelverton, Roy L.: See—
Goforth, Howard L., and Yelverton. 2,801,482.
- Yen, Teh-Fu, to The Goodyear Tire & Rubber Co. New composition of matter. 2,817,680, 12-24-57, Cl. 260-515.
- Yenni, William H., and R. D. Hickok, Jr., $\frac{1}{2}$ to Auto-Test, Inc., and $\frac{1}{2}$ to Cleveland Patents, Inc. Multipurpose electrical measuring instrument. 2,783,437, 2-26-57, Cl. 324-129.
- Yeo, Ernest E., and D. P. Drown, to Sylvania Electric Products Inc. Sealing head orienting apparatus. 2,818,159, 12-31-57, Cl. 198-33.
- Yeoman, Ray C., to Texas Foundries, Inc. Method of laying prefabricated concrete slabs. 2,780,150, 2-5-57, Cl. 94-22.
- Yerance, Robert A., to Boeing Airplane Co. Electrostatic precipitator and air conditioning system incorporating the same. 2,778,443, 1-22-57, Cl. 183-7.
- Yerger, Elmwood L., to The Eagle-Picher Co. Adjustable water-cooled door for smelters. 2,803,092, 8-20-57, Cl. 49-55.
- Yerger, Paul A., to Ingersoll-Rand Co. Controlling device for compressors. 2,793,803, 5-28-57, Cl. 230-6.
- Yerk, Ellen G. Surgical glove case. 2,810,417, 10-22-57, Cl. 150-0.5.
- Yerkovich, Simon: See—
Leishman, Le Roy J., and Yerkovich. 2,811,648.
- Yerkovich, Simon, to L. J. Leishman. Means for holding cassettes in X-ray spot film devices. 2,811,251, 10-29-57, Cl. 206-72.
- Yerks, Richard W., and V. A. Malatesta, to Underwood Corp. Form feed mechanism for business machine. 2,791,311, 5-7-57, Cl. 197-114.
- Yetter, Edward W.: See—
Patterson, Omas L., and Yetter. 2,793,320.
- Yetter, Edward W., to Sun Oil Co. Electronic timing circuit. 2,785,215, 3-12-57, Cl. 123-148.
- Yetter, Harry G. Disk coupler jointer apparatus. 2,790,369, 4-30-57, Cl. 97-210.
- Yetter, Lloyd E. Coin controlled mechanical animal. 2,801,104, 7-30-57, Cl. 272-53.1.
- Ygge, Nils E. T., to Aktiebolaget Skoglund & Olsson. Impeller for centrifugal pumps. 2,791,183, 5-7-57, Cl. 103-113.
- Yil, Roland H. C.: See—
Geroulo, Michael J., and Yil. 2,800,625.
- Yin, Huo-Bing, to Radio Corp. of America. Transistor oscillator circuit. 2,811,646, 10-29-57, Cl. 250-36.
- Yntema, Leonard F., and R. F. Wehrmann, to Fansteel Metallurgical Corp. Method of making refractory metal bodies. 2,804,406, 8-27-57, Cl. 148-6.
- Yockey, Hubert P.: See—
Sanz, Manuel C., Malmstrom, Nuding, and Yockey. 2,778,866.
Sanz, Manuel C., Malmstrom, Nuding, and Yockey. 2,817,605.
- Yoder, Donald M., and D. C. Torgeson, to Union Carbide and Carbon Corp. Treatment of water with dialdehyde bactericides. 2,801,216, 7-30-57, Cl. 210-64.
- Yoder, Ervin, to Ware Laboratories, Inc. Window-frame elements. 2,780,328, 2-5-57, Cl. 189-75.
- Yoder, Frank. Gate latch and locking means therefor. 2,797,118, 6-25-57, Cl. 292-87.
- Yoder, Joe B., to General Electric Co. Exhaust machine. 2,808,857, 10-8-57, Cl. 141-66.
- Yobe, Charles H., to General Electric Co. Electric heating units and methods of making the same. 2,808,492, 10-1-57, Cl. 201-67.
- Yobe, Lester N., to Silex Co. Apparatus for freezing desserts. 2,817,502, 12-24-57, Cl. 259-108.
- Yoho, John R., and W. J. Strong, to The B. F. Goodrich Co. Tire sidewall finishing apparatus. 2,810,238, 10-22-57, Cl. 51-106.
- Yokomaki, Norishige, $\frac{1}{2}$ to S. Kitakami, and $\frac{1}{2}$ to Y. Ono. Portable folding type bicycle. 2,777,711, 1-15-57, Cl. 280-287.
- Yoler, Yusuf A., to General Electric Co. Method and means for propagating a mass. 2,783,684, 3-5-57, Cl. 89-7.
- Yoler, Yusuf A., and J. D. Cobine, to General Electric Co. Mass accelerator. 2,790,354, 4-30-57, Cl. 89-8.
- Yonaki, Sada. Tongs. 2,789,001, 4-16-57, Cl. 294-16.
- Yonemoto, Jiichiro. Flower stem cutter. 2,792,886, 5-21-57, Cl. 164-53.
- Yongue, James A.: See—
Yongue, James M. 2,797,946.
- Yongue, James M., $\frac{1}{2}$ to J. A. Yongue and $\frac{1}{2}$ to R. B. Yongue. Rail sanding pipe. 2,797,946, 7-2-57, Cl. 291-41.
- Yongue, Robert B.: See—
Yongue, James M. 2,797,946.
- Yonkers, Edward H., Jr., to Joslyn Mfg. & Supply Co. Street lighting control unit. 2,802,150, 8-6-57, Cl. 317-16.
- Yonkers, Meredith L. Helicopter with tiltable lift rotor and coaxial counter-torque rotor. 2,806,662, 9-17-57, Cl. 244-17.19.
- Yordi, Arthur H. Automobile tool tray. 2,805,778, 9-10-57, Cl. 211-86.
- Yorgy, Lawrence R.: See—
MacFee, Fred O., Jr., and Yorgy. 2,785,377.
- York, Edward R.: See—
Bailey, Donald L., and York. 2,810,628.
- York, Edward R., to Union Carbide Corp. Process for preparing hexaethylcyclotrisiloxane. 2,816,124, 12-10-57, Cl. 260-448.2.
- York Engineering & Construction Co.: See—
MacGregor, James, and Muller. 2,796,780.
Muller, Herman E. 2,800,216.
Remmen, Jorgen. 2,792,097.
- York, Jackson G., to York Research and Development Corp. Cabinet construction. 2,783,115, 2-26-57, Cl. 312-325.
- York, Jesse L.: See—
Dodge, Russell A., and York. 2,779,233.
- York, Jones O.: See—
Snow, Floyd E., and York. 2,814,827.
- York, Jones O., to Coast Pro-Seal & Mfg. Co. Tensioning device for sprocket chain conveyors. 2,794,347, 6-4-57, Cl. 74-242.9.
- York, Jones O., to Coast Pro-Seal & Mfg. Co. Chain tensioner for cargo conveyors. 2,801,731, 8-6-57, Cl. 198-208.
- York Modern Corp.: See—
Cole, Norman. 2,787,876.
- York, Otto H. Apparatus for corrugating and refolding mesh cloth. 2,798,515, 7-9-57, Cl. 140-107.
- York Research and Development Corp.: See—
York, Jackson G. 2,783,115.
- York, Robert L.: See—
Carrick, Virgil P., Martin, Freedle, and York. 2,800,665.
- York, William D.: See—
Miller, Wallace W., and York. 2,816,809.
- Yorker, Oscar B. Closures for liquid containers. 2,792,975, 5-21-57, Cl. 222-498.
- Yoshimura, Toshio. Automatic belt stabilizing carrier. 2,815,851, 12-10-57, Cl. 198-202.
- Yoshioka, Takema. Crusher with adjustable granulating regulators. 2,792,995, 5-21-57, Cl. 241-189.
- Yost, Earl W.: See—
Boron, Eugene F., Yost, Scriver, and Gorga. 2,789,151.
Boron, Eugene F., Yost, Scriver, and Gorga. 2,805,270.
- Yost, John F., to American Cyanamid Co. Surface active composition containing a corrosion inhibitor. 2,788,329, 4-9-57, Cl. 252-354.
- Yost, Leland J., to F. B. Whisler. Pollinator for fruit trees. 2,802,302, 8-13-57, Cl. 47-1.
- Yost, Norman V.: See—
Mitchell, Gerald A., and Yost. 2,801,387.
- Yost, Robert S., to Rohm & Haas Co. Method of producing N-vinyl-N,N'-ethyleneurea. 2,787,619, 4-2-57, Cl. 260-309.7.
- Yost, Russel R., Jr.: See—
Geppert, Donovan V., and Yost. 2,799,827.
- Yost, Russell R., Jr., to Motorola, Inc. Transistor amplifier with neutralized internal feedback. 2,797,267, 6-25-57, Cl. 179-171.

- Yost, William J., to Socony Mobil Oil Co., Inc. Statistical interpretation of seismograms. 2,794,965, 6-4-57, Cl. 340-15.
- Yostville, John J., to Bell Telephone Laboratories, Inc. Identification of serial stored information. 2,794,970, 6-4-57, Cl. 340-174.
- Youhouse, Joseph, to Casco Products Corp. Thermostatic switch. 2,780,698, 2-5-57, Cl. 200-137.
- Youhouse, Joseph, to Automatic Devices Corp. Electric cigar lighter. 2,790,061, 4-23-57, Cl. 219-32.
- Youman Products, Inc.: See—
- Young, William D. 2,785,803.
- Youmans, Arthur H., to Well Surveys Inc. Method and apparatus for radioactivity well-logging. 2,776,378, 1-1-57, Cl. 250-83.6.
- Young, Alma H. Stocking-applying device. 2,796,207, 6-18-57, Cl. 223-111.
- Young, Andrew D., to Jones and Lamson Machine Co. Inspection method and apparatus. 2,802,393, 8-13-57, Cl. 88-24.
- Young, Andrew H.: See—
- Williams, Ferd E., and Young. 2,806,969.
- Young, Arthur J., M. Esterson, A. H. Pickering, and A. W. Crook, to English Electric Valve Co. Ltd. Indirectly heated cathode structure for magnetrons. 2,813,994, 11-19-57, Cl. 313-340.
- Young, Arthur R. Tank-cleaning device. 2,785,008, 3-12-57, Cl. 299-62.
- Young, Bob. Well packer. 2,805,723, 9-10-57, Cl. 166-138.
- Young, C. Frederick. Soil moisture-controlled irrigation system. 2,817,956, 12-31-57, Cl. 61-13.
- Young, Charles, and J. D. Galasso. Electronic soil watering system. 2,785,006, 3-12-57, Cl. 299-25.
- Young, Charles J.: See—
- Olden, Roger G., and Young. 2,777,744.
- Young, Charles J., to Radio Corp. of America. Electrophotographic developing apparatus. 2,786,439, 3-26-57, Cl. 118-51.
- Young, Charles J., to Radio Corp. of America. Apparatus for applying electrostatic developer powder by means of a magnetic brush. 2,786,441, 3-26-57, Cl. 118-51.
- Young, Charles J., to Radio Corp. of America. Electronic character selecting and/or printing apparatus. 2,807,663, 9-24-57, Cl. 178-15.
- Young, Charles J., to the United States of America as represented by the Secretary of the Army. Continuous feed facsimile scanners with endless belt suction type drive. 2,816,160, 12-10-57, Cl. 178-71.
- Young, Charles M., to General Electric Co. Maneuvering automatic pilot. 2,797,379, 6-25-57, Cl. 318-489.
- Young, Cyril C. Combustion head for burner apparatus. 2,803,296, 8-20-57, Cl. 158-76.
- Young, Earl A. Gold ball washing machine. 2,814,813, 12-3-57, Cl. 15-4.
- Young, David C.: See—
- Wheeler, Donald D., and Young. 2,802,818.
- Wheeler, Donald D., and Young. 2,802,830-2,802,837.
- Wheeler, Donald D., and Young. 2,804,458.
- Wheeler, Donald D., and Young. 2,809,965.
- Wheeler, Donald D., and Young. 2,811,535.
- Wheeler, Donald D., and Young. 2,811,536.
- Wheeler, Donald D., and Young. 2,814,627.
- Wheeler, Donald D., and Young. 2,817,668.
- Young, David W.: See—
- Cottle, Delmer L., and Young. 2,787,644.
- Cottle, Delmer L., and Young. 2,796,423.
- Cottle, Delmer L., and Young. 2,810,759.
- Cottle, Delmer L., Young, and Morway. 2,816,074.
- Matuszak, Alfred H., Gleason, Young, and Cottle. 2,800,500.
- Matuszak, Alfred H., McTurk, Cottle, and Young. 2,796,401.
- Young, David W., to Esso Research and Engineering Co. Hydration of olefins with ion exchange resins catalyst. 2,813,908, 11-19-57, Cl. 260-614.
- Young, David W., A. J. Morway, and D. L. Cottle, to Esso Research and Engineering Co. Lubricating grease compositions containing O, N-diacyl-p-aminophenols. 2,795,546, 6-11-57, Cl. 252-42.1.
- Young, David W., and D. L. Cottle, to Esso Research and Engineering Co. Lubricant containing hydrogenated liquid polymer oils. 2,798,853, 7-9-57, Cl. 252-46.6.
- Young, David W., A. J. Morway, and A. F. Sayko, to Esso Research and Engineering Co. Lubricating grease compositions containing polyethylene. 2,810,695, 10-22-57, Cl. 252-32.
- Young, David W., and D. L. Cottle. Asphalt composition containing a liquid hydrogenated polymer oil. 2,815,296, 12-3-57, Cl. 106-273.
- Young, Donald H., to Waterman Pen Co., Inc. Snap-action cap for fountain pen or the like. 2,782,762, 2-26-57, Cl. 120-42.01.
- Young, Donald H., to Waterman Pen Company, Inc. Fountain pen construction and ink cartridge therefor. 2,802,448, 8-13-57, Cl. 120-45.4.
- Young, Donald M.: See—
- Bachman, Fred E., and Young. 2,816,629.
- Walter, Andrew T., and Young. 2,784,170.
- Young, Donald M., and W. N. Stoops, to Union Carbide and Carbon Corp. Production of bis (perfluoroacyl) peroxides. 2,792,423, 5-14-57, Cl. 260-610.
- Young, Donald M., and E. M. La Combe, to Union Carbide and Carbon Corp. Production of vinyl sulfones. 2,801,267, 7-30-57, Cl. 260-607.
- Young, Donald P.: See—
- Elce, Alec, Robson, and Young. 2,800,504.
- Habeshaw, John, Elce, Robson, Armstrong, and Young. 2,800,505.
- Webster, William, and Young. 2,807,650.
- Young, Donald P., to Hercules Powder Co. Manufacture of oxygen-containing organic compounds. 2,797,249, 6-25-57, Cl. 260-621.
- Young, Donald R., to International Business Machines Corp. Piezoelectric interrogation of ferroelectric condensers. 2,782,397, 2-19-57, Cl. 340-173.
- Young, Earle A., A. D. Baker, and R. H. Canaday, to Eastman Kodak Co. Apparatus for translating into legible form characters represented by signals. 2,784,251, 3-5-57, Cl. 178-15.
- Young, Edwin H.: See—
- Brownell, Lloyd E., Flinn, and Young. 2,799,493.
- Young, Edwin H. P.: See—
- Spinks, Alfred, and Young. 2,794,018.
- Young, Frank W. Air filtration. 2,815,826, 12-10-57, Cl. 183-52.
- Young, Fred M., to Young Radiator Co. Overhead type unit heater. 2,812,925, 11-12-57, Cl. 257-137.
- Young, Gale J.: See—
- Creutz, Edward C., Ohlinger, Wigner, and Young. 2,798,398.
- Wigner, Eugene P., Ohlinger, and Young. 2,815,321.
- Wigner, Eugene P., Ohlinger, Young, and Weinberg. 2,810,689.
- Young, George L.: See—
- Yucht, George, and Stanton. 2,815,445.
- Young, Harland H., and E. F. Christopher, to Swift & Co. Process of making urea derivatives of proteins. 2,816,099, 12-10-57, Cl. 260-117.
- Young, Harold: See—
- Stimpson, Edwin G., and Young. 2,809,113.
- Young, Harold, and R. P. Healey, to National Dairy Research Laboratories, Inc. Production of saccharomyces fragilis with an optimum yield of lactase. 2,776,928, 1-8-57, Cl. 195-67.
- Young, Henry B., to Messing Mfg. Co. Slips for supporting pipe in wells. 2,785,454, 3-19-57, Cl. 24-263.
- Young, Herbert, to National Brass Co. Concealed knob anchor. 2,778,667, 1-22-57, Cl. 292-352.
- Young, Herbert W.: See—
- Grevengoed, Paul H., and Young. 2,779,186.
- Young, Herbert W., and P. H. Grevengoed, to National Brass Co. Push-button assembly. 2,778,665, 1-22-57, Cl. 292-1.
- Young, Herbert W., and P. H. Grevengoed, to Dexter Industries, Inc. Lock mechanism. 2,803,479, 8-20-57, Cl. 292-169.
- Young, Robert D., to Sinclair Research Laboratories, Inc. Method of operating a compression ignition internal combustion engine. 2,811,145, 10-29-57, Cl. 123-1.
- Young, Homer W., to Remington Arms Co., Inc. Barrel chamber for cartridges of different length. 2,815,602, 12-10-57, Cl. 42-76.
- Young, Howard S.: See—
- Akin, George A., and Young. 2,784,214.
- Young, James C.: See—
- Reed, Ed, and Young. 2,815,437.
- Young, James E.: See—
- Chapman, James E., Drexel, and Young. 2,777,524.
- Monk, Clarence B., Alsterda, Young, and Johnson. 2,777,184.
- Young, James E., to The Garrett Corp. Actuating mechanism. 2,778,472, 1-22-57, Cl. 192-142.
- Young, James H., to E. I. du Pont de Nemours and Co. Process for application of hydrogen peroxide to materials. 2,777,749, 1-15-57, Cl. 8-104.
- Young, James H., to E. I. du Pont de Nemours and Co. Production of formamidine sulfinic acid. 2,783,272, 2-26-57, Cl. 260-500.
- Young, James P. Acoustic baffle. 2,812,033, 11-5-57, Cl. 181-31.
- Young, Jesse A. Steam clothes drying apparatus. 2,783,549, 3-5-57, Cl. 34-83.
- Young, John C. Vertically adjustable vehicle seat. 2,796,922, 6-25-57, Cl. 155-198.
- Young, John R., to Kaiser Aluminum & Chemical Corp. Screen framing arrangement. 2,784,782, 3-12-57, Cl. 160-395.
- Young, John R., Jr. Internal wrench having simultaneously actuatable pivoted jaws. 2,800,043, 7-23-57, Cl. 81-72.
- Young, Joseph N., to United States of America as represented by the United States Atomic Energy Commission. Two roller anti-friction latch. 2,780,112, 2-5-57, Cl. 74-527.
- Young, Joseph N., to the United States of America as represented by the United States Atomic Energy Commission. Electromagnetic apparatus for moving a rod. 2,803,761, 8-20-57, Cl. 310-14.
- Young, L. A., Spring & Wire Corp.: See—
- Gonsett, Faust R. 2,810,670.
- Hupp, Charles J. 2,815,066.
- Wood, Louis S. 2,792,135.
- Young, Laura: See—
- Young, William. 2,792,589.

- Young, Leonard P. Tip for soldering guns. 2,796,507, 6-18-57, Cl. 219-26.
- Young, Lester C., to Spo, Inc. Foundry flask. 2,778,078, 1-22-57, Cl. 22-96.
- Young, Lloyd W., and F. J. Pilia, to Union Carbide and Carbon Corp. Automatic laminated-assembly welding. 2,788,436, 4-9-57, Cl. 219-137.
- Young, Lloyd W.: *See*—
Pilia, Frank J., and Young. 2,818,493.
Pilia, Frank J., Young, and Royer. 2,817,745.
- Young, Louis B., to the United States of America as represented by the Secretary of the Navy. Impedance bridge. 2,778,993, 1-22-57, Cl. 324-58.
- Young, Lucille S. Curtain threader. 2,782,970, 2-26-57, Cl. 223-105.
- Young, Paul A. Staggered starting racing gate. 2,800,877, 7-30-57, Cl. 119-155.
- Young Radiator Co.: *See*—
Brinen, Howard F. 2,814,433.
Brinen, Howard F. 2,815,432.
Brinen, Paul F. 2,814,467.
Christensen, Donald W. 2,783,980.
Young, Fred M. 2,812,925.
- Young, Ray C., and R. A. Rusca, to the United States of America as represented by the Secretary of Agriculture. Cotton opener. 2,780,839, 2-12-57, Cl. 19-93.
- Young, Renben L. Adjustable anti-skid device for pneumatic tire. 2,775,993, 1-1-57, Cl. 152-228.
- Young, Richard B., to Acushnet Process Co. Lip type seal for sealing hydraulic and pneumatic pressure systems. 2,815,995, 12-10-57, Cl. 309-33.
- Young, Richard J., to International Business Machines Corp. Automatic underscoring mechanism. 2,800,213, 7-23-57, Cl. 197-113.
- Young, Richard W.: *See*—
Vaughan, James R. Jr., Wood, and Young. 2,783,240.
- Young, Richard W., K. H. Wood, and M. J. Muller, to American Cyanamid Co. 5-acylimino-4-mononuclear-aryl-substituted- Δ^2 -1,3,4-thiadiazoline-2-sulfides and method of preparing the same. 2,783,238, 2-26-57, Cl. 260-306.8.
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- Young, Richard W., and J. W. Clapp, to American Cyanamid Co. Pyridazinesulfonamides. 2,816,892, 12-17-57, Cl. 260-250.
- Young, Robert G., Jr., to Scully Signal Co. Spout for filling nozzle in combination with tight fill connection. 2,778,390, 1-22-57, Cl. 141-310.
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- Young, Roy B. Stip printing mechanism. 2,787,201, 4-2-57, Cl. 95-75.
- Young, Sherwood L., to American Radiator & Standard Sanitary Corp. Friction hinge. 2,787,006, 4-2-57, Cl. 4-240.
- Young, Sidney G. Snap-action electric switches. 2,788,419, 4-9-57, Cl. 200-166.
- Young, Sidney G. Electrical socket connectors. 2,788,506, 4-9-57, Cl. 339-256.
- Young, Stephen A. Composite fixture unit. 2,781,786, 2-19-57, Cl. 138-64.
- Young, Stephen A. Valve structure. 2,787,283, 4-2-57, Cl. 137-329.2.
- Young, Virgil H., Jr.: *See*—
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- Young, Walter T., Jr., to Refined Products Corp. Chelating agent. 2,808,435, 10-1-57, Cl. 260-534.
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- Young, Willard G., to Case Mfg. Corp. Non-overflow water closet. 2,778,029, 1-22-57, Cl. 4-75.
- Young, William, deceased, by L. Young, executrix, to Young Windows Ltd. Counterbalancing mechanism. 2,792,589, 5-21-57, Cl. 16-201.
- Young, William D., to Youman Products, Inc. Upflow water filter. 2,785,803, 3-19-57, Cl. 210-134.
- Young, William E.: *See*—
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- Young, William O., Jr., to E. I. du Pont de Nemours and Co. Preparation of tow from filaments of acrylonitrile polymers. 2,811,770, 11-5-57, Cl. 28-78.
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- Youngbeck, Karl W., to Globe-Union Inc. Replacement type dual variable resistor. 2,777,924, 1-15-57, Cl. 201-55.
- Youngberg, Charles H.: *See*—
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- Youngberg, Charles H., to Deere & Co. Wheel mounting. 2,809,870, 10-15-57, Cl. 301-111.
- Youngblood, E. H.: *See*—
Scott, Emmitt Y. 2,817,182.
- Youngblood, Floyd N.: *See*—
Jacobus, Robin A., and Youngblood. 2,786,450.
- Youngblood, Knowles. Bag opening and filling device. 2,780,901, 2-12-57, Cl. 53-384.
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Williams, Paul H., and Younger. 2,777,819.
- Younghusband Barnes & Co., Ltd.: *See*—
Mundy, Cecil W. A., and Malyan. 2,792,410.
- Youngquist, Herbert S., L. G. Kailer, and H. W. Dahly. Weedless attachment. 2,785,498, 3-19-57, Cl. 43-43.4.
- Youngren, Milton D. Greeting card. 2,787,852, 4-9-57, Cl. 40-70.
- Youns, Alfred B.: *See*—
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- Youns, Robert A.: *See*—
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- Youngstown Foundry & Machine Co., The: *See*—
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- Youngstown Industries, Inc.: *See*—
Homery, Alex L., and Simon. 2,776,710.
- Youngstown Sheet and Tube Co.: *See*—
Ashton, Albert A. 2,803,973.
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Williamson, Clarence H. 2,811,116.
- Yunker, Elmer L., to Bell Telephone Laboratories, Inc. Electrical delay circuits. 2,794,123, 5-28-57, Cl. 250-27.
- Younkin, James R., to Phillips Petroleum Co. Computer for solving simultaneous equations. 2,808,989, 10-8-57, Cl. 235-61.
- Yount, Stanley G. Method of lining storage compartments. 2,801,018, 7-30-57, Cl. 217-3.
- Yount, Vesta A. Aquatic amusement device. 2,801,850, 8-6-57, Cl. 272-1.
- Yourtee, John A., to American Viscose Corp. Molding compositions containing cellulose filler and method of making. 2,816,872, 12-17-57, Cl. 260-15.
- Yousem, Ephraim. Cleaner for pipes, etc. 2,786,218, 3-26-57, Cl. 15-104.3.
- Youssov, Georges, to Compagnie Generale de Telegraphie Sans Fil. Ceramic refractory products. 2,789,341, 4-23-57, Cl. 29-182.5.
- Yovanovich, Joseph T., to Pennsylvania Papyrus Corp. Paper tube and method of making the same. 2,785,700, 3-19-57, Cl. 138-78.
- Yovanovich, Joseph T., to Paper Research & Development Corp. Burnishing apparatus. 2,789,484, 4-23-57, Cl. 93-83.
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- Yowell, Howard L., and A. H. Gleason, to Esso Research and Engineering Co. Fungicide containing butadiene-styrene copolymer. 2,798,022, 7-2-57, Cl. 167-42.
- Yozell, W. R.: *See*—
Vance, Byron T. J. 2,785,698.
- Zrigoyen, Frank: *See*—
Georgen, Wendell L., Bilster, and Zrigoyen. 2,782,470.
- Yu, Richard T.: *See*—
Paulding, Herbert L., and Yu. 2,788,886.
- Yuasa Battery Co. Ltd.: *See*—
Yamaura, Masao, and Nakaseko. 2,806,076.
- Yucht, George, and R. S. Stanton; said George Yucht now by change of name George L. Young, assors. to Hughes Aircraft Co. Protective circuit for electron discharge devices. 2,815,445, 12-3-57, Cl. 250-27.
- Yuenger, Robert L., to Starline, Inc. Continuous conveyor type barn gutter cleaners. 2,782,899, 2-26-57, Cl. 198-171.
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- Yule, John A. C., to Eastman Kodak Co. Electro-optical system for producing outline pictures from continuous tone originals. 2,801,279, 7-30-57, Cl. 178-6.7.
- Yuni, William, to the United States of America as represented by the Secretary of the Army. Multi-purpose vacuum tube variable gain amplifier. 2,776,343, 1-1-57, Cl. 179-171.
- Yunker, Clarence R. Hydraulic steering for four wheels of a six wheeled vehicle. 2,804,158, 8-27-57, Cl. 180-79.2.
- Yurka, August, Jr., to The Cyril Bath Co. Wipe forming mechanism and die combination. 2,806,506, 9-17-57, Cl. 153-40.
- Yusem, Seymour: *See*—
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- Yustick, Joseph A. Method and apparatus for sequestering soluble impurities in water. 2,809,158, 10-8-57, Cl. 210-57.

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 Yutang, Lin. Page end indicator for typewriter. 2,804,960, 9-3-57, Cl. 197-189.
- Yutzy, Henry C., and J. A. Leermakers, to Eastman Kodak Co. Photographic emulsions containing metallic mercury. 2,816,030, 12-10-57, Cl. 96-108.
- Z and W Machine Products, Inc.: *See*—
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- Zaage, Curt G. E.: *See*—
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- Zaalberg, Willem, to Smit-Rontgen N. V. Tilting mechanism for X-ray examination-table. 2,816,806, 12-17-57, Cl. 311-6.
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- Zabriskie, Douglas M.: *See*—
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- Zacks, Florence B. Seat throw. 2,817,391, 12-24-57, Cl. 155-182.
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- Zac-Lac Paint & Lacquer Corp.: *See*—
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- Zademach, Erich R., to Metalwash Machinery Co. Driers. 2,787,062, 4-2-57, Cl. 34-229.
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- Zadina, Arthur F. Putting guide. 2,776,836, 1-8-57, Cl. 273-192.
- Zador, Gustave, to A. Tiscione. Socket eliminating base for electric lamps. 2,786,131, 3-19-57, Cl. 240-52.
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- Zager, Stanley E.: *See*—
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- Zahn, Eric H., to Austenal, Inc. Stress breaker for dental restorations. 2,797,456, 7-2-57, Cl. 22-160.
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- Zahn, Otto E., to Rajo Motor Co. Floor wax applicator. 2,799,880, 7-23-57, Cl. 15-131.
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 Zittrell, Anton. 2,800,033.
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- Zahradka, Jerome G., to Motorola, Inc. Valve for heaters. 2,781,780, 2-19-57, Cl. 137-608.
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- Zahradnik, Stanislav: *See*—
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- Zaidan, Joseph P. Venetian blind cleaner. 2,804,640, 9-3-57, Cl. 15-394.
- Zaiger, Louis: *See*—
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- Zaiger, Max: *See*—
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- Zajdel, Casimir M. Tool holders for screw machines. 2,785,902, 3-19-57, Cl. 279-6.
- Zak, Joseph T. Rectilinear slide rules. 2,793,808, 5-28-57, Cl. 235-70.
- Zak, Karel: *See*—
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- Zakarian, Arsham D.: *See*—
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- Zaleski, John F., to General Precision Laboratory Inc. Microwave guide rotatable joint. 2,782,384, 2-19-57, Cl. 333-98.
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- Zaleski, John F., to General Precision Laboratory Inc. Microwave electronic switch. 2,786,979, 3-26-57, Cl. 333-7.
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- Zaleski, John F., to General Precision Laboratory Inc. Microwave phase shifter. 2,814,781, 11-26-57, Cl. 333-6.
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- Zalkind, Albert M. Toy fencing foil. 2,803,087, 8-20-57, Cl. 46-1.
- Zalkind, Joseph. Statement sheet and envelope. 2,777,631, 1-15-57, Cl. 229-73.
- Zalkind, Joseph. Manifold set separating machine. 2,812,567, 11-12-57, Cl. 24-263.
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- Zampella, Frank: *See*—
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- Zampieri, Enrico M., and A. T. Cape, to Coast Metals, Inc. Self-hardening alloys. 2,803,538, 8-20-57, Cl. 75-126.
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- Zanca, Joseph, and S. Terlato; said Zanca assor. to said Terlato. Valve device for tearing doll. 2,812,615, 11-12-57, Cl. 46-135.
- Zandberg, Paul I.: *See*—
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- Zander, Otto J. Egg boiler. 2,790,378, 4-30-57, Cl. 99-336.
- Zander, Rolf A.: *See*—
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- Zandmer, Solis M. Apparatus for sealing a borehole liner. 2,780,293, 2-5-57, Cl. 166-100.
- Zane, Joseph A.: *See*—
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- Zanetti, Louis. Pivotal lens spectacles. 2,786,390, 3-26-57, Cl. 83-41.
- Zang, Arthur F.: *See*—
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- Zang, Victor E., and E. E. Thompson. Chill plates. 2,775,803, 1-1-57, Cl. 22-160.
- Zanger, Arnold. Interchangeable insert support for sewing machines. 2,785,031, 3-12-57, Cl. 311-12.
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- Zantop, Ernst, to Aktiengesellschaft Brown, Boveri & Cie. Cooled converter assemblies. 2,791,722, 5-7-57, Cl. 315-113.
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- Zapapas, James R., and G. F. Thompson, to Eli Lilly and Co. Composite enteric tablet of erythromycin and sulfonamides. 2,798,024, 7-2-57, Cl. 167-82.
- Zapco, Louis: *See*—
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- Zapponi, Paschal P., to Clevite Corp. Method of waterproofing piezoelectric crystals and waterproofed crystal unit. 2,794,132, 5-28-57, Cl. 310—8.9.
- Zar, Jacob L. Container assembly and method. 2,812,231, 11-5-57, Cl. 21—56.
- Zara, Milton H.: *See*—
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- Zarnowski, Frank J., to Orchard Brothers Inc. Awnings. 2,812,813, 11-12-57, Cl. 160—133.
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- Zartler, Herbert P., to Witte Mfg. Co. Hose clamp construction. 2,817,136, 12-24-57, Cl. 24—279.
- Zaslowsky, Joel A.: *See*—
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- Zastrow, Harold G.: *See*—
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- Zastrow, Harold G., to Waldorf Paper Products Co. Can carrier. 2,792,146, 5-14-57, Cl. 220—112.
- Zastrow, Thomas S., to General Mills, Inc. Adjustable thermal switch. 2,779,841, 1-29-57, Cl. 200—138.
- Zauderer, Benjamin.: *See*—
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- Zbikowski, Theodore H.: *See*—
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- Zboril, Frederic R.: *See*—
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- Zearfoss, Elmer W., Jr., to Philco Corp. Plural temperature refrigerator. 2,791,101, 5-7-57, Cl. 62—4.
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- Zebarth, Ralph S., to Gordon Johnson Equipment Co. Tendon puller. 2,790,200, 4-30-57, Cl. 17—11.3.
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- Zebley, Donald D. Replaceable trolley wheel for conveyors. 2,780,178, 2-5-57, Cl. 105—148.
- Zebley, Donald D. Trolley conveyor dip construction. 2,780,345, 2-5-57, Cl. 198—177.
- Zebley, Thomas W.: *See*—
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- Zech, John D., to Atlas Powder Co. N-carboxyalkyl hexityl amines. 2,789,976, 4-23-57, Cl. 260—211.
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- Zeiss, Carl.: *See*—
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- Bernhardt, Eugen. 2,803,130.
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- Drozdofsky, Martin. 2,779,231.
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- Hansen, Gerhard, and Voigt. 2,795,170.
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- Steigerwald, Karl H. 2,793,281.
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- Zeitler, Carl J., Jr. Carcass splitting machines. 2,775,786, 1-1-57, Cl. 17—23.
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- Zeland, Joseph. Nasal filter. 2,777,442, 1-15-57, Cl. 128—206.
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- Zeldman, Maurice I., to General Precision Laboratory Inc. Rotary motion storage device. 2,806,571, 9-17-57, Cl. 192—142.
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- Zelik, Paul G., and J. Volcik. Shoe vulcanizing press. 2,790,996, 5-7-57, Cl. 18—17.
- Zelinger, Henry. Magnetic pencils. 2,790,420, 4-30-57, Cl. 120—9.
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- Berkline Corp., The: See—
- Budnick, Alan. 180,220.
- Berlin, Samuel D., to The Malls Co. Folding book rack. 179,673, 2-12-57, Cl. D33-2.
- Berliner, Robert A., and A. P. Augusztiny; said Augusztiny assor. to said Berliner. Portable outdoor barbecue. 179,468, 1-1-57, Cl. D81-10.
- Bernadotte, Sigvard, and A. Bjorn, to Aktiebolaget Moderna K  k. Tea kettle or similar article. 180,056, 4-16-57, Cl. D44-25.
- Bernard, Edward, Co.: See—
- Klingberg, Arthur F. 179,905.
- Bernfeld, Philip A. Indoor television antenna. 180,057, 4-16-57, Cl. D26-14.
- Bernier, Arthur L. Collapsible rocking chair. 179,878, 3-19-57, Cl. D15-6.
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- Kahn, Julius M., and Bernstein. 180,367.
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- Best, Melvin H., and R. S. Inlow, to K. Freund. Camera. 180,574, 7-9-57, Cl. D61-1.
- Beyer, Louis E., to Electric-Aire Engineering Corp. Air dryer. 180,174, 4-30-57, Cl. D49-1.
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- Biggins, Robert B. J. Mirror viewing device. 179,532, 1-15-57, Cl. D57-1.
- Billig, Ralph B., and M. S. Ziskin. Ice bucket. 180,386, 6-4-57, Cl. D58-17.
- Billington, Evans R., to The Bastian-Blessing Co. Pressure reducing regulator. 179,589, 1-29-57, Cl. D78-1.
- Binasik, Chester S., to Coen Co. Gas burner. 180,638, 7-16-57, Cl. D81-2.
- Binasik, Chester S., to Coen Co. Gas burner unit. 180,927, 9-10-57, Cl. D81-2.
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- Bishop, Henry D., to Evans Products Co. Tricycle. 179,469, 1-1-57, Cl. D34-15.
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- Black, William J., to The Burdett Oxygen Co. of Cleveland, Inc. Pair of safety goggles. 181,456, 11-19-57, Cl. D57-1.
- Blackadder, William. Scale for weighing live birds. 180,265, 5-14-57, Cl. D52-10.
- Blackburn, William M. Mop. 180,355, 5-28-57, Cl. D9-2.
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- Blatherwick, Delbert T., to Robertson Photo-Mechanix Inc. Copy camera. 181,403, 11-12-57, Cl. D61-1.
- Blatt, Leland F., and A. Sherman. Air or oil operated cylinder clamp. 179,755, 2-26-57, Cl. D55-1.
- Blatt, Marvin L. Handbag. 180,639, 7-16-57, Cl. D87-3.
- Bleil, Paul E. Sectional toy bridge. 180,058, 4-16-57, Cl. D34-15.
- Bliss, Charles O. Insulated pail or similar article. 180,928, 9-10-57, Cl. D58-17.
- Bloch, Jack, to Foster Grant Co., Inc. Sunglass frame front or the like. 179,623, 2-5-57, Cl. D57-1.
- Bloch, Jack, to Foster Grant Co., Inc. Sunglass frame front or the like. 179,675, 2-12-57, Cl. D57-1.
- Bloch, Jack, to Foster Grant Co., Inc. Sunglass frame front or the like. 180,762, 8-13-57, Cl. D57-1.
- Bloch, Marcel J. Combined dial and hands for a timepiece. 179,835, 3-12-57, Cl. D42-1.
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- Bloser, Parker Z., to The Zaner-Bloser Co. Writing instrument or the like. 181,180, 10-15-57, Cl. D74-17.
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- Bogdanovich, Sergei, to Weil & Durrse, Inc. Textile fabric or similar article. 180,859, 8-27-57, Cl. D92-1.
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- Boker, Samuel J., to Nova-Plas Mfg. Co., Inc. Combined condiment dispensers and rack therefor. 181,273, 10-29-57, Cl. D44-22.
- Boker, Samuel J., to Novo-Plas Mfg. Co., Inc. Combined condiment dispenser set, holder therefor and napkin holder. 181,573, 12-3-57, Cl. D44-22.
- Boldt, Melvin H., to National Presto Industries, Inc. Combined electrical power connector and thermostatic control. 179,557, 1-22-57, Cl. D52-7.
- Boldt, Melvin H., to Moffats Ltd. Thermostatic control for a range. 180,266, 5-14-57, Cl. D81-25.
- Boldt, Melvin H., to Avco Mfg. Corp. Control panel for television receiver. 180,436, 6-11-57, Cl. D56-4.
- Boldt, Melvin H., to National Presto Industries, Inc. Coffee maker. 180,991, 9-17-57, Cl. D44-26.
- Boldt, Melvin H., to National Presto Industries, Inc. Electric fry pan. 181,246, 10-22-57, Cl. D81-10.
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- Bond, Robert F., and W. W. Felts, to The Gates Rubber Co. Carrying carton for sprinkler hose or the like. 180,763, 8-13-57, Cl. D58-2.
- Booharin, Leo Y., $\frac{1}{2}$ to M. Cooney. Watch band, or similar article. 180,059, 4-16-57, Cl. D42-1.
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- Bossi, Fulvio. Combined electric light bulb and reflector therefor. 181,404, 11-12-57, Cl. D29-1.
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- Boutin, Harold S., to Revco Inc. Refrigerator handle. 181,119, 10-8-57, Cl. D67-3.
- Bovill, Reginald V. Game board. 179,964, 4-2-57, Cl. D34-5.
- Bowers, Fredrick H. Combination disposable fuel container for lighters and illuminating burner. 180,060, 4-16-57, Cl. D48-27.
- Bowlen, Nord, to Rogers, Lunt & Bowlen Co. Spoon or similar article. 179,758, 2-26-57, Cl. D54-12.
- Bowlen, Nord, to Rogers, Hunt & Bowlen Co. Spoon or similar article. 181,574, 12-3-57, Cl. D54-12.
- Bowman, Philip I. Gun. 180,389, 6-4-57, Cl. D30-1.
- Boyd, William H. A., to the United States of America as represented by the Secretary of the Navy. Guided missile. 180,889, 9-3-57, Cl. D71-1.
- Boyd, William H. A., to the United States of America as represented by the Secretary of the Navy. Guided missile. 180,890, 9-3-57, Cl. D71-1.
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- Bramming, Carl, to Aladdin Industries, Inc. Vacuum bottle. 179,880, 3-19-57, Cl. D58-8.
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- Brandt, Thomas F., R. H. Hose, and T. Brendgord. Condenser bushing. 180,817, 8-20-57, Cl. D26-10.
- Brandt, Thomas F., R. H. Hose, and T. Brendgord. Condenser bushing. 181,624, 12-10-57, Cl. D26-10.
- Brashear, Thelma, to M. B. Parker Co. Chair or the like. 180,707, 7-30-57, Cl. D15-1.
- Brass, Sanford, to Chester H. Roth Co., Inc. Hosiery display and merchandising unit. 180,575, 7-9-57, Cl. D80-9.
- Brass, Sanford, to Chester H. Roth Co., Inc. Hosiery display and merchandising unit. 180,576, 7-9-57, Cl. D80-9.
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- Brettel, George A., to Ampex Loudspeaker Corp. Speaker cabinet. 179,533, 1-15-57, Cl. D56-4.
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- Brewer, Darrell R. Cocktail tray. 181,704, 12-17-57, Cl. D44-10.
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- Brewer, Ellsworth F., to E. F. Brewer Co. Mower riding attachment. 180,268, 5-14-57, Cl. D40-1.
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- Britton, Jack A. Combined relief valve and water distribution manifold. 180,010, 4-9-57, Cl. D91-3.
- Britton, Jack A. Combined water heater lateral flow relief valve and union. 180,992, 9-17-57, Cl. D78-1.
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- Brown, Theodore E. Liquid dispensing container. 181,122, 10-8-57, Cl. D2-3.
- Brown, Wendall E., to McKinley Iron Works. Ornamental metal-work panel. 181,575, 12-3-57, Cl. D54-2.
- Bruce, John, to Waterman Pen Co., Inc. Fountain pen. 181,705, 12-17-57, Cl. D74-17.
- Bruck, John P. Portable power operated saber saw. 180,708, 7-30-57, Cl. D93-3.
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- Burnbaum, Jack, to Bradford Novelty Co., Inc. Christmas tree ornament, or similar article. 180,994, 9-17-57, Cl. D29-1.
- Burns, Dorothy. Printed textile fabric. 180,860, 8-27-57, Cl. D92-1.
- Burns, Mary W. Coffee pot or similar article. 181,780, 12-24-57, Cl. D44-26.
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- Burton, Edward D., and G. B. Holcombe. Inflatable mattress. 180,063, 4-16-57, Cl. D5-2.
- Burwell, Stanley J., to Rockwell Mfg. Co. Cut-off machine for metal stock. 180,929, 9-10-57, Cl. D54-14.
- Bydalek, Floyd J., to Baso Inc. Housing for gas burner control devices and the like. 181,274, 10-29-57, Cl. D52-1.
- Bydalek, Floyd J., to Baso Inc. Control device for gas burners and similar apparatus. 181,515, 11-26-57, Cl. D52-1.
- Byland, Henry L., to U. S. Slicing Machine Co., Inc. Meat tenderizing machine. 181,460, 11-19-57, Cl. D11-1.
- Byland, Henry L., to U. S. Slicing Machine Co., Inc. Meat tenderizing machine. 181,461, 11-19-57, Cl. D11-1.
- Byrne, Charles A. Combination cap and screw driver for container of lighter fluid. 179,470, 1-1-57, Cl. D58-26.
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- Campbell, Glenn B. Pivotaly mountable ash tray. 181,406, 11-12-57, Cl. D85—2.
- Cambridge Glass Co., The: *See—*
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- De Angelis, Angelo C., and E. J. Casey, to Standard Electronics Corp. Casing for an electrical ice crusher. 180,933, 9-10-57, Cl. D89—1.
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- Dean, Albert G. Railway passenger car. 181,518, 11-26-57, Cl. D66—1.
- Dean, Joseph C., Jr. Game board. 179,935, 3-26-57, Cl. D34—5.
- Dean, Walter B., to The Budd Co. Washroom unit for railway cars. 180,771, 8-13-57, Cl. D66—1.
- Dean, Walter B. Railway passenger car. 181,132, 10-8-57, Cl. D66—1.
- Dearborn, Howard K. Pontoon boat. 180,866, 8-27-57, Cl. D71—1.
- Dechar, Edward, to Walter Marshak, Inc. Display merchandiser. 181,343, 11-5-57, Cl. D80—9.
- Deep South Specialties, Inc.: *See*—
 Hughes, Albert L. 180,597.
- De Gignac, John, to Tri-City Tripod Canes, Inc. Tripodal cane. 180,867, 8-27-57, Cl. D88—4.
- De Groff, Mark E. Instrument panel. 179,474, 1-1-57, Cl. D26—1.
- Dehn, William F., to Allen-Bradley Co. Limit switch. 180,772, 8-13-57, Cl. D26—13.
- De Kam, Cornelius T., Jr., to Chrysler Corp. Automobile rear view mirror. 179,885, 3-19-57, Cl. D14—6.
- De Kolb, Eric, to Coty, Inc. Combined perfume bottle and holder or similar article. 181,410, 11-12-57, Cl. D86—10.
- De Kolb, Eric, to Coty, Inc. Combined perfume bottle and holder or similar article. 181,411, 11-12-57, Cl. D86—10.
- De Kolb, Eric, to Coty, Inc. Combined perfume bottle and cap or similar article. 181,631, 12-10-57, Cl. D58—6.
- De Kolb, Eric, to Coty, Inc. Perfume bottle stand or similar article. 181,632, 12-10-57, Cl. D86—10.
- De Kolb, Eric, to Coty, Inc. Combined perfume bottle and stand or similar article. 181,710, 12-17-57, Cl. D86—10.
- Delacretaz, Jean C. Cleaning appliance for Venetian blinds or the like. 181,249, 10-22-57, Cl. D9—2.
- De La Fariest, Duke M. Golf tee. 181,633, 12-10-57, Cl. D34—5.
- De La Rue, Thomas, & Co.: *See*—
 Willis, Richard W. E. 181,770.
- De Launay, Kinza B. Crayon tray. 181,463, 11-19-57, Cl. D74—1.
- Del Giudice, Frank J., to Boeing Airplane Co. Airplane seat for a flight engineer or the like. 180,137, 4-23-57, Cl. D15—1.
- Del Giudice, Frank J., to Boeing Airplane Co. Pilot's seat. 180,392, 6-4-57, Cl. D15—1.
- Del Giudice, Frank J., to Boeing Airplane Co. Passenger seat for an airplane or the like. 180,710, 7-30-57, Cl. D15—8.
- Delpidio, Dominic J. Clock. 181,344, 11-5-57, Cl. D42—7.
- Delynn, Victor E. Desk. 180,224, 5-7-57, Cl. D33—7.

- Demag-Zug G. m. b. H.: *See*—
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- Demler, Henry W. Hand tool for crimping electrical connectors onto conductors. 179,678, 2-12-57, Cl. D54-13.
- Denise, John R., to Surface Combustion Corp. Air conditioning heat exchanger unit. 180,773, 8-13-57, Cl. D62-4.
- Deremer, Floyd E., to Oldberg Mfg. Co. Muffler for exhaust gas system. 180,896, 9-3-57, Cl. D14-6.
- Desbrow, Floyd H., and J. B. Gameson. Slide necktie. 180,474, 6-18-57, Cl. D3-16.
- Deschenes, Marie L. Doll or similar article. 180,319, 5-21-57, Cl. D34-4.
- Despard, Victor E., to Pass & Seymour, Inc. Electric wall switch. 179,886, 3-19-57, Cl. D26-13.
- Dessy-Atco Inc.: *See*—
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- De Swart Development Co.: *See*—
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- De Swart, Jan., to De Swart Development Co. Chair. 180,934, 9-10-57, Cl. D15-1.
- De Swart, Jan., to De Swart Development Co. Chair. 180,935, 9-10-57, Cl. D15-1.
- De Swart, Jan., to De Swart Development Co. Chair. 180,936, 9-10-57, Cl. D15-1.
- Detroit Controls Corp.: *See*—
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 Trombley, Bertrand N. 179,501.
- Development Research, Inc.: *See*—
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- Devereux, Robert O. Shutter. 181,519, 11-26-57, Cl. D13-1.
- Devonshire, William H.: *See*—
 Parker, Humphrey F., Devonshire, and Robins. 180,453.
- De Young, Jack, to Zenith Radio Corp. Remote control transmitter. 180,774, 8-13-57, Cl. D26-14.
- Dlan, William, and H. Kramer. Model train track support. 180,441, 6-11-57, Cl. D34-15.
- Diesel Control Corp.: *See*—
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- Dickinson, Joseph E.: *See*—
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- Dickinson, Wilbur C. Dashboard battery tester. 180,475, 6-18-57, Cl. D52-1.
- Dickson, Edgar V., and T. E. Weber, to Hussmann Refrigerator Co. Refrigerated display case. 180,072, 4-16-57, Cl. D80-11.
- Diehl, Adam E. Carrier for audio-visual equipment. 180,868, 8-27-57, Cl. D14-3.
- Dienger, John A.: *See*—
 Berting, Gerald A., Dienger, and Robinson. 179,674.
- Dillard, Pearl E. Strainer for water and flour thickening. 180,359, 5-28-57, Cl. D62-2.
- Diserens, Ralph S.: *See*—
 Jahnke, Robert H., and Diserens. 180,234.
- Disney, Walter E., to Disneyland, Inc. Passenger carrying amusement device. 180,585, 7-9-57, Cl. D34-5.
- Disneyland, Inc.: *See*—
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- Dispensers, Inc.: *See*—
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- Di Stasi, Arthur J. Amphibious automobile. 181,711, 12-17-57, Cl. D14-3.
- Dlouhy, Clarence L., to Emil J. Paidar Co. Beauty shop chair or similar article. 180,393, 6-4-57, Cl. D15-3.
- Doan, Joseph L., Jr. Christmas tree ornament. 179,510, 1-8-57, Cl. D29-1.
- Dobry, Joseph F.: *See*—
 Bergen, Alfred H., and Dobry. 180,816.
- Dobson, Joseph E. Surveyor's target. 179,838, 3-12-57, Cl. D52-1.
- Dodge, Merton L. Combined memo paper roll and pencil holder. 181,579, 12-3-57, Cl. D74-1.
- Doe, Walter P., R. W. Crawford, and R. V. Bendel, to Fisher-Price Toys, Inc. Figure trundle toy. 179,595, 1-29-57, Cl. D34-15.
- Doerfler, Robert L.: *See*—
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- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 179,763, 2-26-57, Cl. D54-12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 179,764, 2-26-57, Cl. D54-12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 179,796, 3-5-57, Cl. D54-12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 180,073, 4-16-57, Cl. D54-12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 180,476, 6-18-57, Cl. D54-12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 180,477, 6-18-57, Cl. D54-12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 181,784, 12-24-57, Cl. D54-12.
- Dolan, Francis D., to The American Floor Surfacing Machine Co. Suction cleaner tank head unit. 179,628, 2-5-57, Cl. D9-2.
- Dolly Hosiery Mills, Inc.: *See*—
 Jamison, Grace W., and Sherrill. 181,198.
- Doman, Donald W., to The Parker Pen Co. Desk base for writing instruments. 179,560, 1-22-57, Cl. D74-1.
- Doman, Donald W., to The Parker Pen Co. Desk base for writing instruments. 180,320, 5-21-57, Cl. D74-1.
- Doman, Donald W., to The Parker Pen Co. Writing instrument receptacle unit. 181,464, 11-19-57, Cl. D74-1.
- Dome, John R. Bar of soap. 180,321, 5-21-57, Cl. D73-1.
- Domizio, Michael. Cradle. 180,442, 6-11-57, Cl. D5-5.
- Donatney, Warren O., to The Napier Co. Clown bank or similar article. 179,765, 2-26-57, Cl. D34-11.
- Doolittle, Andrew H., to The Andrew B. Hendryx Co. Bird cage stand. 179,936, 3-26-57, Cl. D33-14.
- Douglas, Warner A. Electric vibrator or similar article. 180,998, 9-17-57, Cl. D83-1.
- Drake, Blair M., B. W. Kagy, and R. W. Hall. Collapsible vial. 181,278, 10-29-57, Cl. D58-17.
- Drake, William H. Combined holder and opener for safety pins. 180,937, 9-10-57, Cl. D86-10.
- Drake, William H. Combined holder and opener for safety pins. 180,938, 9-10-57, Cl. D86-10.
- Dreier Brothers, Inc.: *See*—
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- Dreier, Raymond C., to Dreier Brothers, Inc. Hack saw. 180,271, 5-14-57, Cl. D93-3.
- Dreitzer, Albert J. Plate. 181,345, 11-5-57, Cl. D36-2.
- Dreitzer, Albert J. Tumbler. 181,346, 11-5-57, Cl. D36-8.
- Dreitzer, Albert J. Goblet. 181,347, 11-5-57, Cl. D36-8.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Control instrument. 179,561, 1-22-57, Cl. D52-7.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Control instrument. 179,562, 1-22-57, Cl. D52-7.
- Dreyfuss, Henry, to Whirlpool-Seeger Corp. Combined front control panel and grill for an air conditioner. 179,839, 3-12-57, Cl. D62-4.
- Dreyfuss, Henry, to Whirlpool-Seeger Corp. Combined front control panel and grill for an air conditioner. 179,887, 3-19-57, Cl. D62-4.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Combined photoflash unit and exposure calculator. 180,225, 5-7-57, Cl. D61-1.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Combined photoflash unit and exposure calculator. 180,272, 5-14-57, Cl. D61-1.
- Dreyfuss, Henry, to The Hoover Co. Suction cleaner casing. 180,394, 6-4-57, Cl. D9-2.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Room thermostat. 180,443, 6-11-57, Cl. D52-7.
- Dreyfuss, Henry, to Rex Cole, Inc. Combined reflector and socket cover for portable lamps. 181,580, 12-3-57, Cl. D48-16.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Clamp for photographic flash unit. 181,712, 12-17-57, Cl. D61-1.
- Dube, Alfred, to Stetson China Co. Sugar bowl or similar article. 179,797, 3-5-57, Cl. D44-15.
- Dube, Alfred, to Stetson China Co. Sugar bowl or similar article. 179,888, 3-19-57, Cl. D44-15.
- Dube, Alfred, to Stetson China Co., Inc. Creamer. 180,586, 7-9-57, Cl. D44-21.
- Dube, Alfred, to Stetson China Co., Inc. Creamer. 180,587, 7-9-57, Cl. D44-21.
- Dube, Alfred, to Stetson China Co. Creamer. 181,348, 11-5-57, Cl. D44-21.
- Duffie, John A., and D. C. Dunham. Solar cooker. 181,713, 12-17-57, Cl. D81-10.
- Dunbar, Russell R., to General Motors Corp. Range. 179,966, 4-2-57, Cl. D81-4.
- Dunham, Daniel C.: *See*—
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- Duopac, Inc.: *See*—
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- Du Pont, E. I., de Nemours and Co.: *See*—
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- Duppstadt, Jay R., and L. Graham, to Bell Aircraft Corp. Helicopter. 179,629, 2-5-57, Cl. D71-1.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 180,588, 7-9-57, Cl. D58-8.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 180,820, 8-20-57, Cl. D8-8.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 180,821, 8-20-57, Cl. D8-8.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 180,822, 8-20-57, Cl. D8-8.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 181,465, 11-19-57, Cl. D58-8.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 181,716, 12-17-57, Cl. D58-6.
- Du Pree, Ernest L. Decanter. 181,717, 12-17-57, Cl. D58-6.
- Du Pree, Ernest L. Decanter. 181,718, 12-17-57, Cl. D58-6.
- Du Pree, Ernest L., and J. Rosati, to Schenley Industries, Inc. Decanter. 181,714, 12-17-57, Cl. D58-8.
- Du Pree, Ernest L., and J. Rosati, to Schenley Industries, Inc. Decanter. 181,715, 12-17-57, Cl. D58-8.
- Durant, Lyndon A. Casing for phonograph. 181,043, 9-24-57, Cl. D56-4.
- Durant, Lyndon A., to United Mfg. Co. Amusement game apparatus. 181,093, 10-1-57, Cl. D34-5.
- Duray, Joseph P., and W. Kurz, to Precision Scientific Co. Sterilizer. 180,178, 4-30-57, Cl. D83-1.

- Duro Mold and Mfg., Inc.: *See*—
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- Duval, Walter J. Combination flush and edge pull for sliding doors. 181,785, 12-24-57, Cl. D10—8.
- Earl, Harley J., to General Motors Corp. Automobile. 180,509, 6-25-57, Cl. D14—3.
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- Eastman Kodak Co.: *See*—
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- Ebstein, John W., to Rigidized Metals Corp. Embossed metal sheet material. 181,520, 11-26-57, Cl. D54—2.
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- Edelmann, Robert B., to E. Edelmann & Co. Cooling system analyzer. 180,685, 7-23-57, Cl. D52—1.
- Edgemond, John W., Jr., to Magna Power Tool Corp. Bench and way unit for multiple purpose power tool. 180,395, 6-4-57, Cl. D93—2.
- Edmondson, Leonard F. Phonograph record holder. 180,641, 7-16-57, Cl. D33—10.
- Ednalite Optical Co., Inc., The: *See*—
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- Edson, Bert, to North American Lace Co., Inc. Lace. 179,721, 2-19-57, Cl. D47—6.
- Eickmeyer, Ludwig, to Gibraltar Mfg. Co., Inc. Clockcase. 181,133, 10-8-57, Cl. D42—7.
- Eickmeyer, Ludwig, to Gibraltar Mfg. Co., Inc. Clock. 181,188, 10-15-57, Cl. D42—7.
- Eisler, Sidney. Pair of spectacles. 179,596, 1-29-57, Cl. D57—1.
- Eitel, Jay M. Combined truck and lift. 179,840, 3-12-57, Cl. D14—3.
- Eko Products Co.: *See*—
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- Elastic Stop Nut Corp. of America: *See*—
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- Elenowitz, Abe. Clamping bar for a paper clip. 180,728, 8-6-57, Cl. D74—1.
- Elgin Metalformers Corp.: *See*—
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- Elliott, Ross E., Jr. Pendant for an earring or the like. 180,013, 4-9-57, Cl. D45—9.
- Elliott, Marion A. Towed type street sweeper. 180,642, 7-16-57, Cl. D14—3.
- Ellis, Charles A., to Sargent & Co. Combined doorknob and rose. 179,679, 2-12-57, Cl. D50—3.
- Ellison, Ada G. Combined wardrobe and clothes rack. 180,589, 7-9-57, Cl. D33—19.
- Ellman, Julius. Hat. 180,729, 8-6-57, Cl. D3—13.
- Elman, I. J.: *See*—
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- Elsas, Norman E. Combined camera and flash gun holder or similar article. 180,939, 9-10-57, Cl. D61—1.
- Emery, Richard L., to Keyes Fibre Co. Packing tray for yarn spools. 180,396, 6-4-57, Cl. D58—13.
- Emery, Richard L., to Keyes Fibre Co. Packing tray for yarn spools. 180,397, 6-4-57, Cl. D58—13.
- Emery, Richard L., to Keyes Fibre Co. Packing tray for fragile articles. 180,590, 7-9-57, Cl. D58—13.
- Emile, John, and J. L. Stephens, to Clothes-"A"-Clean Mfg. Corp. Laundry machine. 179,475, 1-1-57, Cl. D49—1.
- Empire Crafts Corp.: *See*—
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- Ensign, Robert H., and A. G. Jackson, to Barcalo Mfg. Co. Chair. 180,226, 5-7-57, Cl. D15—1.
- Ensign, Robert H., and A. G. Jackson, to Ritter Co., Inc. X-ray unit or the like. 181,521, 11-26-57, Cl. D61—1.
- Ensign, Robert H., and A. G. Jackson, to Ritter Co., Inc. X-ray unit. 181,522, 11-26-57, Cl. D61—1.
- Enterprise Aluminum Co., The: *See*—
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- Eppink, Reno P. Detachable kneeling rail for church pews or similar article. 180,510, 6-25-57, Cl. D15—8.
- Epstein, Herman. Combined can and bottle opener. 179,889, 3-19-57, Cl. D44—29.
- Erdman, Blanche. Clothing display figure. 180,823, 8-20-57, Cl. D80—8.
- Erdman, Blanche. Clothing display figure. 180,824, 8-20-57, Cl. D80—8.
- Erenhouse, Rudolph. Bobby pin. 180,180, 4-30-57, Cl. D86—10.
- Erickson, Carl E. Helmet. 179,967, 4-2-57, Cl. D3—13.
- Erickson, Earl A. Nail polish remover device. 180,940, 9-10-57, Cl. D86—10.
- Ericson, John A. Napkin holder. 179,798, 3-5-57, Cl. D44—24.
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- Erlenmeyer, Obey N. Railway dining car. 180,511, 6-25-57, Cl. D66—1.
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- Ernest, Robert O., to Sunbeam Corp. Electric shaver. 179,563, 1-22-57, Cl. D22—3.
- Ernest, Robert O., to Sunbeam Corp. Hair dryer. 179,597, 1-29-57, Cl. D86—10.
- Ernest, Robert O., to Sunbeam Corp. Combined waffle baker and grill. 179,630, 2-5-57, Cl. D81—10.
- Ernest, Robert O., to Sunbeam Corp. Portable electric sander. 179,799, 3-5-57, Cl. D37—1.
- Ernest, Robert O., to Sunbeam Corp. Portable electric saw. 180,181, 4-30-57, Cl. D93—3.
- Ernest, Robert O., to Sunbeam Corp. Bench grinder. 180,549, 7-2-57, Cl. D37—1.
- Ernest, Robert O., and I. Jepson, to Sunbeam Corp. Electric hand saw. 180,591, 7-9-57, Cl. D93—3.
- Ertsgaard, Byron L., S. V. Sonmore, and R. J. Luger, Jr., to Toro Mfg. Corp. of Minnesota. Power and guiding unit for power driven implements. 180,775, 8-13-57, Cl. D40—1.
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- Eubanks, William S., Jr., to W. R. Chance and Associates, Inc. Plastic swimming pool. 181,044, 9-24-57, Cl. D34—5.
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- Everett, James C. Building. 180,686, 7-23-57, Cl. D13—1.
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- Exner, Virgil M., to Chrysler Corp. Automobile. 179,968, 4-2-57, Cl. D14—3.
- Exner, Virgil M., to Chrysler Corp. Automobile fender. 180,074, 4-16-57, Cl. D14—6.
- Exner, Virgil M., to Chrysler Corp. Automobile door. 180,227, 5-7-57, Cl. D14—6.
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- Faber, John P., to The Muller Machinery Co., Inc. Mortar mixer or similar article. 181,045, 9-24-57, Cl. D14—3.
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- Fall, Herbert S. Combined handle and latch for cabinet drawers, doors, and the like. 181,719, 12-17-57, Cl. D10—8.
- Farkas, Robert. Dielectric generator cabinet or similar article. 180,444, 6-11-57, Cl. D26—5.
- Farrar, Cecil W., to Case Mfg. Corp. Combination leg and towel bar unit for lavatory. 181,581, 12-3-57, Cl. D4—2.
- Farrar, Cecil W., and W. H. Adams, to Case Mfg. Corp. Lavatory. 181,635, 12-10-57, Cl. D4—2.
- Farrington Mfg. Co.: *See*—
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- Fassin, Gustave, to R. H. Peterson and H. Buller. Picture taking housing for check identification. 179,631, 2-5-57, Cl. D61—1.
- Faxstein, Harry N. and L. H., to General Mower Corp. Rotary mower housing. 181,280, 10-29-57, Cl. D40—1.
- Faxstein, Louis H.: *See*—
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- Federal Industrial Mfg. Co.: *See*—
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- Feeley, Robert S. Plaque. 181,523, 11-26-57, Cl. D29-23.
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- Fees, Richard A., to Quaker Lace Co. Tablecloth. 181,525, 11-26-57, Cl. D92-26.
- Fegan, Richard M., to Portable Electric Tools, Inc. Impact wrench power unit. 181,189, 10-15-57, Cl. D54-14.
- Feinberg, Robert M. Bottle. 180,273, 5-14-57, Cl. D58-8.
- Feingold, Herbert H., to Federal Industrial Mfg. Co. Hand dryer. 180,322, 5-21-57, Cl. D4-3.
- Feldstein, Benjamin J. Child's teether. 179,800, 3-5-57, Cl. D83-1.
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- Felver, Richard L., to Westinghouse Air Brake Co. Instrument house. 181,046, 9-24-57, Cl. D13-1.
- Fenlason, Donna L. Combination garment or the like. 179,937, 3-26-57, Cl. D3-17.
- Fénon, Henri F., to Société Anonyme Gaut Blancan. Stapling machine. 180,445, 6-11-57, Cl. D74-1.
- Ferar, Montgomery, to Whirlpool-Seeger Corp. Refrigerator. 181,636, 12-10-57, Cl. D67-3.
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- Ferber, Martin J. Clock. 180,075, 4-16-57, Cl. D42-7.
- Ferguson, James E. Lamp. 181,786, 12-24-57, Cl. D48-19.
- Ferguson, Martin J. Confection. 180,360, 5-28-57, Cl. D82-2.
- Ferrill, Harve, to Harve Ferrill & Co. Display stand or similar article. 181,349, 11-5-57, Cl. D80-9.
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- Fidler, Morton D., to Ronson Corp. Flint holder or similar article. 180,898, 9-3-57, Cl. D58-26.
- Field, Charles W. Pet animal bed. 179,476, 1-1-57, Cl. D12-2.
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- Fillips, Nicholas F., to Sani-Foam Products, Inc. Slipper. 179,536, 1-15-57, Cl. D7-7.
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- Fiske, Irving. Spoon or similar article. 181,787, 12-24-57, Cl. D54-12.
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- Fitt, William C. House. 181,350, 11-5-57, Cl. D13-1.
- Fitzgerald, Harold J., to Supurdisplay, Inc. Service counter for dispensing edibles. 179,680, 2-12-57, Cl. D80-2.
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- Fitzgerald, Harold J., to Supurdisplay, Inc. Warmer for food products. 181,526, 11-26-57, Cl. D81-10.
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- Fitzgerald, Warren W., to Schlage Lock Co. Open escutcheon for a door knob. 179,632, 2-5-57, Cl. D50-6.
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- Florian, Gordon W., to Taylor Instrument Cos. Combination thermometer and barometer. 180,826, 8-20-57, Cl. D52-7.
- Florida, Delhin, to Darrol Co. Hat. 180,942, 9-10-57, Cl. D3-13.
- Flower, Oliver, to Max Factor & Co. Perfume bottle holder or similar article. 180,687, 7-23-57, Cl. D86-10.
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- Folden, Clarence L., to Sears, Roebuck and Co. Photographic flash meter. 180,014, 4-9-57, Cl. D61-1.
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- Formaniak, Gertrude E., R. W. Crawford, and F. E. Seyfarth, to Fisher-Price Toys, Inc. Toy animal figure. 181,190, 10-15-57, Cl. D34-15.
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- Furlani, Walter, and J. W. Stringer, to International Business Machines Corp. Electrostatic printer or similar article. 180,645, 7-16-57, Cl. D64-11.
- Furlani, Walter, and J. W. Stringer, to International Business Machines Corp. Electrostatic card printer or similar article. 181,002, 9-17-57, Cl. D64-11.
- Furlong, Donald F. Support for garment hangers. 181,137, 10-8-57, Cl. D80-8.
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- Geiger, William N. Slide-holding tray for projection machines. 180,870, 8-27-57, Cl. D61-1.
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- Gera, Robert A., to International Furniture, Division of Schnadig Corp. Armless chair. 179,767, 2-26-57, Cl. D15-1.
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- Glass, Marvin I. Figure trundle toy or similar article. 181,469, 11-19-57, Cl. D34-15.
- Glass, Samuel S. Sweater. 181,414, 11-12-57, Cl. D3-6.
- Glazer, Irving D. Bottle carrier. 180,901, 9-3-57, Cl. D58-5.
- Glezen, Lewis E., to Mid-West Metallic Products, Inc. Tray. 180,078, 4-16-57, Cl. D44-10.
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- Glowacke, Edward E., and R. J. Scheelk, to General Motors Corp. Wheel cover. 179,769, 2-26-57, Cl. 14-30.
- Glowacke, Edward E., and R. J. Scheelk, to General Motors Corp. Automobile. 180,594, 7-9-57, Cl. D14-3.
- Goeske, Charles J. Decorative wall switch plate. 181,047, 9-24-57, Cl. D26-13.
- Goforth, Henry E., to United States Rubber Co. Textile fabric. 179,564, 1-22-57, Cl. D92-1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 181,288, 10-29-57, Cl. D92-1.
- Goforth, Henry E., C. R. Howell, and J. F. Fulton, to United States Rubber Co. Textile fabric. 179,565, 1-22-57, Cl. D92-1.
- Golden, Sanford S. Dental chair or similar article. 181,048, 9-24-57, Cl. D15-3.
- Goldfarb, Adolph E., and H. G. Saperstein. Toy squirt camera. 181,353, 11-5-57, Cl. D34-15.
- Goldstein, Arthur, to Tru Balance Corsets, Inc. Lady's girdle or the like. 180,730, 8-6-57, Cl. D20-2.
- Goldstein, Jacob, and H. Y. Kaighin, to Kirsch Co. Curtain rod. 180,646, 7-16-57, Cl. D21-1.
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- Wells, James G., and Golz. 179,994-179,998.
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- Goodall, Leonard B. 179,724.
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- Goodman, Henrietta: See—
- Goodman, Joseph. 179,845.
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- Goodman, Robert, and H. D. Rice. Surface finish gauge. 179,477, 1-1-57, Cl. D52-1.
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- Goonen, Richard. Christmas ornament. 181,584, 12-3-57, Cl. D29-1.
- Goossens, Louis A. Concrete fence. 179,636, 2-5-57, Cl. D28-2.
- Gordon, Barnett D., to M. K. M. Hosiery Mills, Inc. Sweater. 181,191, 10-15-57, Cl. D3-4.
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- Gould, Irving, to Wilkening Mfg. Co. Pull toy. 181,140, 10-8-57, Cl. D34-2.
- Gould, Raymond, to Helen of Troy, Inc. Brassiere. 181,141, 10-8-57, Cl. D20-4.
- Goundie, George H., and H. C. Schroedter, to Creative Playstructures, Inc. Playground apparatus. 180,902, 9-3-57, Cl. D34-5.
- Grady, John T. Slip or similar article. 181,251, 10-22-57, Cl. D3-26.
- Graham, Bernard A., and I. Jepson, to Sunbeam Corp. Power lawn mower. 179,511, 1-8-57, Cl. D40-1.
- Graham, Bernard A., and I. Jepson, to Sunbeam Corp. Lawn mower housing. 179,512, 1-8-57, Cl. D40-1.
- Graham, Elizabeth N. Exerciser. 181,642, 12-10-57, Cl. D83-1.
- Graham, Luell: See—
- Duppstadt, Jay R., and Graham. 179,629.
- Graham, Luell M., to Bell Aircraft Corp. Aircraft. 181,643, 12-10-57, Cl. D71-1.
- Gralewicz, Sigmund J. Toilet paper holder. 179,846, 3-12-57, Cl. D4-3.
- Gralewicz, Sigmund J. Combined toilet paper holder and hook. 180,275, 5-14-57, Cl. D4-3.
- Gralewicz, Sigmund J. Combined toilet paper holder, towel rack and hook. 180,276, 5-14-57, Cl. D4-3.
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- Grauber, Herman G. Flashlight. 180,648, 7-16-57, Cl. D48-24.
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- Graves, Harold E., and H. E. Graves, Jr. 180,515.
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- Greco, Robert W. Holder for condiment dispensers. 180,361, 5-28-57, Cl. D44-24.
- Greco, Robert W. Paper clamp. 181,003, 9-17-57, Cl. D74-2.
- Greene, Harry R. Gasoline dispensing unit. 181,354, 11-5-57, Cl. D52-2.
- Greene, Michael A. Collar or similar article. 181,792, 12-24-57, Cl. D3-16.
- Greer, Robert B. Articulated dish stand or similar article. 180,230, 5-7-57, Cl. D44-10.
- Greeson, Vernon. Book reading rack. 181,726, 12-17-57, Cl. D33-3.
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- Gribin, Murray A., and A. C. Oechsle, to Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Channel selector control unit. 180,551, 7-2-57, Cl. D26-14.
- Griener, Joseph W. Bottle holder. 180,185, 4-30-57, Cl. D83-8.
- Griggs, Elmer L. Grinder console unit. 181,004, 9-17-57, Cl. D37-1.
- Griner, Clarence O., to United States Register Co. Air diffuser register. 179,847, 3-12-57, Cl. D62-4.
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- Grote, Hugo, to Demag-Zug G. m. b. H. Electric motor. 180,479, 6-18-57, Cl. D26-5.
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- Grundy, Lester, to Molla Inc. Cast decorative panel for metal furniture. 180,481, 6-18-57, Cl. D34-2.
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- Gundelfinger, William E., to The Dazey Corp. Mixer or similar article. 181,143, 10-8-57, Cl. D89-1.
- Gundelfinger, William E., to The Dazey Corp. Can opener. 181,192, 10-15-57, Cl. D22-2.
- Gunn, Paul C., to Loma Plastics, Inc. Garbage can. 180,187, 4-30-57, Cl. D58-17.
- Gunn, Paul C., to General Molded Plastics, Inc. Vacuum bottle. 181,355, 11-5-57, Cl. D58-8.
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- Hacklander, Hans, to The Singer Mfg. Co. Sewing machine. 181,528, 11-26-57, Cl. D70-1.
- Hackney, Hubert H., to Gordon W. Morton Co. Miniature car. 179,896, 3-19-57, Cl. D34-15.
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- Hadley, Harlan A., to Toledo Scale Co. End tower weighing scale. 181,049, 9-24-57, Cl. D52-10.
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- Hagstrom, Olle E., to General Electric Co. Meat thermometer unit. 180,146, 4-23-57, Cl. D52-7.
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- Hake, George H., to Niagara Plastic Molds, Inc. Carrying case. 180,712, 7-30-57, Cl. D58-12.
- Halberstadt, Lewis J., to Pro-Phy-Lac-Tic Brush Co. Hair-brush handle or similar article. 180,780, 8-13-57, Cl. D86-4.
- Hall, Hugh J., R. W. Kane, and E. H. Rogers, to Varian Associates. Electromagnetic unit. 179,637, 2-5-57, Cl. D26-5.
- Hall, Hugh J., R. W. Kane, and E. H. Rogers, to Varian Associates. Electromagnetic unit. 179,638, 2-5-57, Cl. D26-5.
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- Hall, John N. Combined figurine and paper weight. 179,567, 1-22-57, Cl. D29-23.
- Hall, Lee C. Golfer's vehicle or the like. 180,362, 5-28-57, Cl. D14-3.
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- Hamming, Fokke, to Aardewerkfabriek Hahn N. V. Combined humidior and ash tray cover. 179,894, 3-19-57, Cl. D85-2.
- Hammon, George L. Two-stage adjustable gas pressure regulator. 180,277, 5-14-57, Cl. D52-1.
- Hammon, George L. Single-stage adjustable gas pressure regulator. 180,278, 5-14-57, Cl. D52-1.
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- Hammond, Boyd, to Tip-Top Products Co. Double ring comb. 180,713, 7-30-57, Cl. D86-8.
- Hammond, Glenn C. Combined tray and holder for artist's supplies. 181,253, 10-22-57, Cl. D33-3.
- Hammond, Robert E. Automobile ash tray. 181,097, 10-1-57, Cl. D85-2.
- Hana, Norman A., to Hek Mfg. Co. Dental chair. 181,098, 10-1-57, Cl. D15-3.
- Hand, Jesse W. Pin or similar article. 179,568, 1-22-57, Cl. D45-19.
- Handin, Joseph A. Lounge chair. 180,364, 5-28-57, Cl. D15-11.
- Handschin, Ernest A. Artificial Christmas tree. 181,644, 12-10-57, Cl. D29-1.
- Hanks, Donald E. Fishing lure. 180,484, 6-18-57, Cl. D31-4.
- Hansen, Earl K. Combination step stool and shoe shine cabinet. 181,793, 12-24-57, Cl. D9-2.
- Hansen, Lucille E. Bath room scale. 181,005, 9-17-57, Cl. D52-10.
- Harby, Richmond M. Casement window operator. 179,639, 2-5-57, Cl. D10-10.
- Harden, Carl M. Newspaper rack or the like. 181,050, 9-24-57, Cl. D33-2.
- Hardesty, Frederick L. Electric megaphone. 179,569, 1-22-57, Cl. D26-14.
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- Hardy, James G., to Realty Hotels Inc. Textile fabric or similar article. 181,470, 11-19-57, Cl. D92-1.
- Hardy, Peter S., to Peerless Aluminum Foundry Co., Inc. Sand molders' workbench. 180,714, 7-30-57, Cl. D33-7.
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- Harper, Robert J., R. H. Ensign, and S. H. Bradd, to Scripto, Inc. Ball point pen. 179,538, 1-15-57, Cl. D74-17.
- Harper, Robert J., and R. H. Ensign. Cigarette lighter. 180,401, 6-4-57, Cl. D48-27.
- Harper, Robert J., R. H. Ensign, and L. F. Platt. Ball point pen. 181,145, 10-8-57, Cl. D74-17.
- Harpman, Webster B. Window mounted room air conditioner. 179,726, 2-19-57, Cl. D62-4.
- Harris, Arthur. Game board. 181,051, 9-24-57, Cl. D34-5.
- Harris, Delmer F., Jr. Gymnastic exercise framework or similar article. 180,402, 6-4-57, Cl. D34-5.
- Harris, John T., to Rudd-Melikian, Inc. Beverage dispenser. 181,645, 12-10-57, Cl. D2-3.
- Harrison, Edward W., and A. N. Bec Var, to General Electric Co. Combined backspasher and control panel for electric ranges. 181,052, 9-24-57, Cl. D81-25.
- Harrison, Reginald A. Soap holder. 179,683, 2-12-57, Cl. D4-3.
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- Hartung, Richard W., and C. F. Harms, to Plastics Mfg. Inc. Combined closure cap and pouring spout. 179,640, 2-5-57, Cl. D58-26.

- Hartz, William W., to Weston Electrical Instrument Corp. Vacuum tube voltmeter. 180,280, 5-14-57, Cl. D26-5.
- Harwin, Dixon R., V. H. Bodle, and L. Strauss, to National Sponge Cushion Co., Inc. Rug cushion or similar article. 180,080, 4-16-57, Cl. D92-1.
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- Hashem, Abraham T. Holder for barber equipment. 181,646, 12-10-57, Cl. D4-3.
- Hastings, Norman R. Precipitation gauge. 179,848, 3-12-57, Cl. D52-1.
- Hauser, Jon W., to Airguide Instrument Co. Case for a weather instrument for a desk or similar article. 181,053, 9-24-57, Cl. D52-7.
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- Heintze, Walter T., to Rek-O-Kut Co. Phonograph tone arm. 179,570, 1-22-57, Cl. D26-14.
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- Hemmeter, George T. Wheel balancing spinner. 180,020, 4-9-57, Cl. D52-1.
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- Doolittle, Andrew H. 179,936.
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- Henshaw, Ivan F., to Automatic Draft and Stove Co., Inc. Circulating heater. 181,531, 11-26-57, Cl. D81-19.
- Hentges, Ronald C., and E. Friedman, to H. & F. Jewelry Mfg., Inc. Finger ring or the like. 181,415, 11-12-57, Cl. D45-10.
- Herider, Elmer A., to Rockwell Spring and Axle Co. Locking hinge for seat structure. 180,188, 4-30-57, Cl. D15-6.
- Herman, Irving. Ventilating hood for cooking ranges. 181,472, 11-19-57, Cl. D81-25.
- Herman, Isadore. Confection or the like. 180,327, 5-21-57, Cl. D82-2.
- Herman, John. Convertible top for a boat. 180,716, 7-30-57, Cl. D71-1.
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- Higier, Julius A. Glove. 180,656, 7-16-57, Cl. D3-11.
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- Leisnering, Theodore C. Clothes sprinkler. 180,489, 6-18-57, Cl. D49-1.
- Leitz, Ernst G. m. b. H.: *See*—
Stein, Wilhelm. 181,682.
- Lemons, Clifton W. Earring or similar article. 181,208, 10-15-57, Cl. D45-9.
- Lent, Constantin P. Combination electric drive for motion picture cameras and holder therefor. 180,027, 4-9-57, Cl. D61-1.
- Lerner, Louis L., and A. Safanoff, to The Gillette Co. Hair comb. 180,794, 8-13-57, Cl. D86-8.
- Leslie, John G., and L. N. Robinson, to Erie City Mfg. Co. Wheel chair. 180,921, 9-3-57, Cl. D15-1.
- Leventhal, Gabriel. Girdle, or similar article. 180,834, 8-20-57, Cl. D20-2.
- Levin, Murray A. Combined magnifying glass and memorandum pad. 179,909, 3-19-57, Cl. D74-1.
- Levin, William G. Textile fabric or similar article. 181,156, 10-8-57, Cl. D92-1.
- Levine, Beth. Shoe. 179,486, 1-1-57, Cl. D7-7.
- Levine, Beth. Shoe. 180,191, 4-30-57, Cl. D7-7.
- Le Vine, Harry H. Candelabra. 180,835, 8-20-57, Cl. D48-2.
- Levings, Sherburne D. Rotatable display fixture. 181,209, 10-15-57, Cl. D1-12.
- Levy, Melvin E. Display dispenser for continuous strip materials. 181,799, 12-24-57, Cl. D52-2.
- Lewine, Hyman W., to Wembley, Inc. Necktie. 179,910, 3-19-57, Cl. D3-16.
- Lewis, Herbert R., $\frac{1}{2}$ to D. Hole. Belt. 180,236, 5-7-57, Cl. D3-10.
- Libson, Maurice E. Dictating machine. 180,237, 5-7-57, Cl. D26-14.
- Liddell, Robert E., N. T. Kuypers, and R. A. Yonkers, to Bissell Carpet Sweeper Co. Housing for a carpet sweeper. 181,010, 9-17-57, Cl. D9-2.
- Lieber, Roman. Eavestrough scoop. 181,103, 10-1-57, Cl. D9-6.
- Lignorner, William B. Pouch or similar article. 180,028, 4-9-57, Cl. D87-3.
- Lignorner, William B. Rain hood. 181,737, 12-17-57, Cl. D3-13.
- Liljemark, Frank H., and M. M. Perry, to Plews Mfg. Co. Oilier. 180,795, 8-13-57, Cl. D58-17.
- Lindberg, Albert W., Jr. Bracket. 179,606, 1-29-57, Cl. D33-3.
- Lindberg, William S.: *See*—
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Lippincott, Joshua G., Hoven, Lindberg, and Nordmark. 180,289.
- Lindblad, Frederick W. Honing tool. 179,542, 1-15-57, Cl. D37-1.
- Lindemann, Howard C. Electro responsive recorder. 180,192, 4-30-57, Cl. D26-14.
- Lindley, Walter E., and M. M. Martin, to Muffler Products Corp. Pipe and muffler cutter. 181,210, 10-15-57, Cl. D54-13.
- Lindop, Carl A. B. Pad lock bolt. 180,520, 6-25-57, Cl. D10-5.
- Lindstrom, Robert J. Broom head or the like. 181,211, 10-15-57, Cl. D9-2.
- Link, Charles T., Jr., to Elgin Sweeper Co. Street cleaner. 181,064, 9-24-57, Cl. D14-3.
- Lipare, Francis X. Shoe or similar article. 180,335, 5-21-57, Cl. D7-7.
- Lippincott, Joshua G., to American Seating Co. Desk or the like. 180,288, 5-14-57, Cl. D33-7.
- Lippincott, Joshua G., A. C. Hoven, W. S. Lindberg, and W. B. Nordmark, to American Seating Co. Desk or the like. 180,289, 5-14-57, Cl. D33-7.
- Lipton, Nat. Combination paste dispenser and tooth brush holder. 180,290, 5-14-57, Cl. D4-3.
- Lipton, Nat. Knob. 181,800, 12-24-57, Cl. D4-3.
- List, Lewis S., to United States Hoffman Machinery Corp. Aircraft runway vacuum cleaner. 181,299, 10-29-57, Cl. D14-3.
- Liubauskas, Boles. Family altar or similar article. 181,300, 10-29-57, Cl. D29-23.
- Livers, John F., to Holy Sepulchre Cemetery. Memorial marker. 179,854, 3-12-57, Cl. D79-2.
- Lo Cascio, Jack J., to Even-Pul Foundations, Inc. Brassiere. 181,479, 11-19-57, Cl. D20-4.
- Lockheed Aircraft Corp.: *See*—
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- Lodvick, George D., and W. L. Martignoni. Lower terminal framing for ski lift cable sheave. 180,291, 5-14-57, Cl. D41-1.
- Loewenstein, Louis K. Sun dial. 179,855, 3-12-57, Cl. D42-7.
- Loewy, Raymond F., to Brown-Forman Distillers Corp. Decanter. 181,301, 10-29-57, Cl. D58-8.
- Logan, Marus C., to The Thomas & Betts Co. Electrical conductor splicing sleeve. 181,302, 10-29-57, Cl. D26-1.
- Loma Plastics, Inc.: *See*—
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- Lombard, Frederick E., Jr., and E. D. Haigler, to American Machine and Metals, Inc. Pneumatic pressure pilot. 181,303, 10-29-57, Cl. D52-1.
- Long, Wiley G., Sr. Combined pen warmer and accessory rack for printers. 180,521, 6-25-57, Cl. D64-11.
- Lord, Edward R. Mobile kitchen bar. 179,806, 3-5-57, Cl. D15-8.
- Lorenzen, Arnold L., to Kraft Foods Co. Jar or similar article. 179,736, 2-19-57, Cl. D58-25.
- Loroco Industries Inc.: *See*—
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- Lowry, Jeff, Iron Works, Inc.: *See*—
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- Lowry, Jefferson R., to Jeff Lowry Iron Works, Inc. Barbecue grill. 180,740, 8-6-57, Cl. D81-10.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Cabinet. 180,150, 4-23-57, Cl. D33-19.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Sideboard. 180,151, 4-23-57, Cl. D33-13.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Triple dresser. 180,152, 4-23-57, Cl. D33-19.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Dresser. 180,153, 4-23-57, Cl. D33-19.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Sideboard. 180,796, 8-13-57, Cl. D33-13.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,011, 9-17-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,212, 10-15-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,213, 10-15-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,214, 10-15-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,215, 10-15-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,259, 10-22-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,260, 10-22-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,261, 10-22-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Table. 181,538, 11-26-57, Cl. D33-14.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Commode. 181,539, 11-26-57, Cl. D33-6.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Chair. 181,540, 11-26-57, Cl. D15-1.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Cabinet. 181,661, 12-10-57, Cl. D33-19.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Sofa. 181,738, 12-17-57, Cl. D15-11.
- Lucca, Marcel. Football game table or similar article. 181,739, 12-17-57, Cl. D34-3.
- Lucent Corp., The: *See*—
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- Luders, Alfred E. Sun dial. 179,691, 2-12-57, Cl. D42-7.
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 Lyman, George F. Display box for watch bands or the like.
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 Lyman, George F., to Farrington Mfg. Co. Font of numerical
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 Madl, Alfred W., to John Oster Mfg. Co. Electric powered
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- Middlemark, Marvin P. Television antenna. 179,812, 3-5-57, Cl. D26—14.
- Middlemark, Marvin P. Television antenna selector knob. 181,065, 9-24-57, Cl. D26—13.
- Middlemark, Marvin P. Television antenna or similar article. 181,420, 11-12-57, Cl. D26—14.
- Mid-West Metallic Products, Inc.: *See*—
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- Midwest Metal Stamping Co.: *See*—
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- Miele, Harry J. Combination desk unit. 179,546, 1-15-57, Cl. D74—1.
- Miles, John B., to Projection Optics Co., Inc. Projector. 181,482, 11-19-57, Cl. D61—1.
- Miles, John B., to Projection Optics Co., Inc. Projector. 181,483, 11-19-57, Cl. D61—1.
- Milks, Hubert E. Medalion. 181,803, 12-31-57, Cl. D29—19.
- Miller, Benjamin F., to Artistic Wire Products Co., Inc. Storage rack. 181,365, 11-5-57, Cl. D44—29.
- Miller, Benjamin F., to Artistic Wire Products Co., Inc. Storage rack. 181,366, 11-5-57, Cl. D44—29.
- Miller, Carroll E., to Cone Automatic Machine Co. Inc. Multiple spindle lathe. 180,493, 6-18-57, Cl. D54—6.
- Miller, Charles W. Paint scraper. 179,487, 1-1-57, Cl. D9—6.
- Miller, Floyd C., to Chloromergo Co., Inc. Chlorinator. 181,307, 10-29-57, Cl. D16—2.
- Miller, Hercheal W., to American Machine and Metals, Inc. Fan hood. 179,950, 3-26-57, Cl. D62—3.
- Miller, Kenneth E.: *See*—
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- Miller, Lester S., to Paeco Rubber Co., Inc. Urinal screen. 180,194, 4-30-57, Cl. D4—5.
- Miller, Nathan. Brassiere. 179,608, 1-29-57, Cl. D20—4.
- Miller, Robert G. and K. E. Stand for a portable sewing machine or the like. 180,744, 8-6-57, Cl. D33—12.
- Miller, William J.: *See*—
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- Miller, William S. Desk. 180,094, 4-16-57, Cl. D33—7.
- Millington, William, and W. M. Day, to The Baldwin Piano Co. Organ console. 181,066, 9-24-57, Cl. D56—2.
- Mills, Hiram L. Transparency storage and carrying case. 180,450, 6-11-57, Cl. D87—5.
- Mills, Hiram L. Transparency storage and carrying case. 180,451, 6-11-57, Cl. D87—5.
- Milne, Stewart J., and C. V. Johnson, to Arthur Salm Inc. Desk set. 181,421, 11-12-57, Cl. D74—1.
- Milton Mfg. Co., Inc.: *See*—
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- Mitchell, Delmar S. Elevator cab. 180,095, 4-16-57, Cl. D41—1.
- Mitchell, Everett R. Milk carton holder. 180,195, 4-30-57, Cl. D58—26.
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- Miyata, Shigetoshi, to Nihon Mishin Seizo Kabushiki Kaisha. Sewing machine. 179,579, 1-22-57, Cl. D70—1.
- Modarelli, James J. Cowled swivel caster. 181,662, 12-10-57, Cl. D10—6.
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- Molloy, Everett W., and D. E. Van Arnam, to Beckman Instruments, Inc. Pocket pH meter. 181,743, 12-17-57, Cl. D52—1.
- Monnet, Georges. Spring actuated shaver. 181,484, 11-19-57, Cl. D22—3.
- Montanye, Carlyle N. Calendar stand or similar article. 180,799, 8-13-57, Cl. D74—5.
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- Mook, Harry H., to Binswanger Mirror. Mirror. 180,800, 8-13-57, Cl. D33-9.
- Moor, Dudley W., Jr., to American Mat Corp. Floor mat. 179,858, 3-12-57, Cl. D9-6.
- Moore, Harry O., to Silabert Corp. Stapler. 181,543, 11-26-57, Cl. D74-1.
- Moore, Robert E., to Amana Refrigeration, Inc. Decanter or similar article. 180,563, 7-2-57, Cl. D44-21.
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- Moore, Walter E., to Knapp-Monarch Co. Control for a heating blanket. 180,196, 4-30-57, Cl. D26-5.
- Moore, Walter E. Corn popper. 180,880, 8-27-57, Cl. D81-10.
- Moore, Walter E., to National Vendors, Inc. Vending machine for cigarettes, candy and the like. 181,804, 12-31-57, Cl. D52-3.
- Moore, Walter E., and J. A. Russo, to General Electric Co. Fan heater or similar article. 179,488, 1-1-57, Cl. D81-10.
- Moorehead, Alexander S. Armored vehicle. 181,221, 10-15-57, Cl. D14-3.
- Morasca, Samuel, to Kool Vent Metal Awning Corp. of America. Permanent awning. 181,161, 10-8-57, Cl. D21-6.
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- Morgan, John W., to Controls Co. of America. Casing for a timer switch. 180,452, 6-11-57, Cl. D26-13.
- Morgan, Porter S., to Morgan Development Laboratories, Inc. Reflector for praxinoscope. 180,372, 5-28-57, Cl. D34-15.
- Morgan, Ray E. Font of printing type. 181,422, 11-12-57, Cl. D64-12.
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- Moro, Antonio, to F.lli Borletti S. p. A. Sewing machine head. 181,160, 10-8-57, Cl. D70-1.
- Moroni, Rolf, to American Collo Corp. Wash mitten. 181,367, 11-5-57, Cl. D9-2.
- Morrill, Harry L., Jr., to Scripto, Inc. Display device. 179,776, 2-26-57, Cl. D80-9.
- Morris, Arthur G. Tea table. 181,805, 12-31-57, Cl. D33-14.
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- Mortimore, James E. Air gun nozzle. 179,859, 3-12-57, Cl. D62-2.
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- Morton, William C. Badge or similar article. 181,663, 12-10-57, Cl. D29-2.
- Mosher, Jack W. Fireplace. 181,597, 12-3-57, Cl. D81-7.
- Mosley, Elmer E. Tooth pick dispenser. 180,693, 7-23-57, Cl. D52-2.
- Moss, Gerald. Lamp or similar article. 179,694, 2-12-57, Cl. D48-19.
- Mossington, Manlius C., to Empire Electronics, Inc. Radio speaker housing. 180,912, 9-3-57, Cl. D26-14.
- Mossop, John D., to The Allicock, Laight & Westwood Co. of Toronto Ltd. Ski pole handle. 180,913, 9-3-57, Cl. D34-14.
- Moszczynski, Anna E. Toy dog. 181,744, 12-17-57, Cl. D34-2.
- Moulthrop, John M. Wire bending block. 181,423, 11-12-57, Cl. D55-1.
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- Mowbray, Harry L. Culvert end protector. 180,410, 6-4-57, Cl. D60-1.
- Moxley, William N. Chair. 180,612, 7-9-57, Cl. D15-1.
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- Mucho, Musa. Cigarette holder. 179,489, 1-1-57, Cl. D85-8.
- Mueller, Moritz L. Portable room air blower. 180,098, 4-16-57, Cl. D62-4.
- Mueller, Richard W. Expandable link chain for a bracelet or similar article. 181,745, 12-17-57, Cl. D45-4.
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- Nagel, Harold A. Neckerchief slide. 179,740, 2-19-57, Cl. D17-10.
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- Naimon, Sara R. Table ornament or similar article. 179,490, 1-1-57, Cl. D29-23.
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- Naimon, Sara R. Bar mitzvah table ornament. 179,609, 1-29-57, Cl. D29-23.
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- Schoeman, Walter G., to Ferber Corp. Ball point pen. 180,621, 7-9-57, Cl. D74—17.
- Schoenfeld, Joseph. Twin bar towel rack. 180,811, 8-13-57, Cl. D4—3.
- Schoepe, Adolf, to Kwikset Locks, Inc. Escutcheon plate. 179,659, 2-5-57, Cl. D50—6.
- Schoepe, Adolf, to Kwikset Locks, Inc. Doorknob. 179,955, 3-26-57, Cl. D50—3.
- Scholl, Leidy G. Toilet bowl brush. 179,985, 4-2-57, Cl. D9—2.
- Scholl, Leidy G. Dish brush. 180,674, 7-16-57, Cl. D9—2.
- Scholl, Leidy G. Back brush. 180,848, 8-20-57, Cl. D9—2.
- Schory, Kenneth P.: *See—*
- Strub, Robert D., and Schory. 181,758.
- Schory, Kenneth P. Combination air conditioning and heating unit casing. 180,247, 5-7-57, Cl. D62—4.
- Schotland, Murray. Hair brush. 180,753, 8-6-57, Cl. D86—10.
- Schott, Andrew F. Abacus. 181,754, 12-17-57, Cl. D25—1.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Window fan. 181,318, 10-29-57, Cl. D62—4.
- Schroeder, John H. Mirror or similar article. 179,660, 2-5-57, Cl. D33—9.
- Schroeder, Paul M., Jr., to Bell Aircraft Corp. Helicopter. 179,661, 2-5-57, Cl. D71—1.
- Schroedter, Howard C.: *See—*
- Groundie, George H., and Schroedter. 180,902.
- Schullian, Edward J. Combined lamp and telephone stand. 180,105, 4-16-57, Cl. D48—19.
- Schultz, Edward. Household jack. 179,821, 3-5-57, Cl. D41—1.
- Schultz, Elmer A.: *See—*
- Colyer, Edwin C., and Schultz. 180,507.
- Schumann, Lawrence R. Basting brush or the like. 181,611, 12-3-57, Cl. D9—2.
- Schumb, Martin T., to The Murray Co. of Texas, Inc. Speed reducer or similar article. 179,405, 1-1-57, Cl. D55—1.
- Schumb, Martin T., to The Murray Co. of Texas, Inc. Speed reducer or similar article. 179,496, 1-1-57, Cl. D55—1.
- Schutmaat, Wayne H., to Penn Controls Inc. Regulating valve. 181,319, 10-29-57, Cl. D78—1.
- Schwartz, John J., to Brown & Bigelow. Scissors or the like. 180,424, 6-4-57, Cl. D22—5.
- Schwartz, Sidney, to Bantam-Lite, Inc. Combined pencil and flashlight. 179,706, 2-12-57, Cl. D74—24.
- Schwartz, Sidney, to Bantam-Lite, Inc. Combined keychain and flashlight. 180,425, 6-4-57, Cl. D48—24.
- Schwarz, John. Vanity case. 179,783, 2-26-57, Cl. D86—10.
- Schwarz, John. Plastic powder box. 180,035, 4-9-57, Cl. D86—10.
- Schwarz, John. Plastic dispensing magazine for pads of tissue paper, cotton and the like. 180,622, 7-9-57, Cl. D4—3.
- Schwarz, John E., to Chrysler Corp. Bumper guard for an automobile. 179,986, 4-2-57, Cl. D14—6.
- Schwarz, John E., to Chrysler Corp. Automobile lamp. 180,704, 7-23-57, Cl. D48—32.
- Schweber, Morris, to Paris Lace & Embroidery Works Inc. Table scarf or similar article. 180,161, 4-23-57, Cl. D92—26.

- Schweighofer, Horst M., and E. H. Fritze. Approach horizon indicator for aircraft. 180,812, 8-13-57, Cl. D52-6.
- Scoggins, Colleen R. Child's bed. 180,162, 4-23-57, Cl. D5-4.
- Scoggins, Colleen R. Child's bed. 180,426, 6-4-57, Cl. D5-4.
- Scott, Hayes O., to The Engineered Products Co. Doorknob. 179,497, 1-1-57, Cl. D50-3.
- Scovill Mfg. Co.: *See*—
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 - Kent, Elizabeth S. 180,022.
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 - Slater, Thomas F. 179,922.
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 - Folden, Clarence L. 180,014.
 - Maiershofer, Karl, and Folden. 180,797.
 - Maiershofer, Karl, and Folden. 180,836.
- Sederquist, Stanley L. F., and O. F. Johnson; said Johnson assor. to said Sederquist. Coin dispenser. 181,025, 9-17-57, Cl. D52-4.
- Seidel, Betty, to J. D. Brumbach, and O. A. and R. Funke, copartners d. b. a. Antietam Quilting Mills and as Fleetwood Infant Products. Printed textile fabric or similar article. 179,784, 2-26-57, Cl. D92-1.
- Seifert, George N. Dental instrument holder. 180,106, 4-16-57, Cl. D80-9.
- Sellman, Harold. Draftsman's template. 181,551, 11-26-57, Cl. D52-1.
- Sengstack, Viola M. Combination glass retainer and spoon holder. 181,026, 9-17-57, Cl. D36-2.
- Senne, David L., to W. J. Voit Rubber Corp. Tetherball. 181,069, 9-24-57, Cl. D34-15.
- Serafin, Frank A. Fish lure. 181,552, 11-26-57, Cl. D31-4.
- Sessions, Marc H., to United States Borax & Chemical Corp. Cabineted powder dispenser. 180,566, 7-2-57, Cl. D4-3.
- Setecka, John C. Measuring device. 179,956, 3-26-57, Cl. D44-29.
- Settle, Charles C. Fishing float. 180,529, 6-25-57, Cl. D31-4.
- Sexton, Herbert C. Expandible book rack. 179,744, 2-19-57, Cl. D33-3.
- Seyfarth, Frederick E.: *See*—
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- Shadid, Hollum B. Meat grinder attachment. 179,707, 2-12-57, Cl. D55-1.
- Shafer, Daniel F., to Mishawaka Rubber and Woolen Mfg. Co. Fastener. 179,614, 1-29-57, Cl. D17-2.
- Shain & Co., Inc.: *See*—
- Gersin, Robert P., and Eshkanian. 180,778.
 - Gersin, Robert P., and Eshkanian. 180,779.
- Shank, Clarence S., 1/2 to R. Critchfield. Dairy bar. 181,070, 9-24-57, Cl. D13-1.
- Shaw, Gerald J., to Outboard Marine Corp. Rotary mower housing. 181,612, 12-3-57, Cl. D40-1.
- Shaw, Melvin: *See*—
- Allen, Robert Y., and Shaw. 181,265.
- Shearer, Smith. Shoe. 181,680, 12-10-57, Cl. D7-7.
- Sheldon, E. H., & Co.: *See*—
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- Shell, John C., Jr.: *See*—
- Larson, Jack L., and Shell. 181,062.
- Shelly, Robert S. Storage receptacle unit. 179,920, 3-19-57, Cl. D58-12.6.
- Shelton, Arloe L. Alter or similar article. 181,681, 12-10-57, Cl. D29-23.
- Shepherdson, Frank H., to North American Lace Co., Inc. Lace. 179,498, 1-1-57, Cl. D47-6.
- Sherman, Arthur: *See*—
- Blatt, Leland F., and Sherman. 179,755.
- Sherman, Jacob S., to Park Sherman Co. Box. 180,378, 5-28-57, Cl. D58-12.6.
- Sherman, Milton D. Portfolio or similar article. 180,530, 6-25-57, Cl. D87-5.
- Sherman, Rallston M., to The Silent Glow Oil Burner Corp. Incinerator. 180,918, 9-3-57, Cl. D81-1.
- Sherman, Rallston M., to The Silent Glow Oil Burner Corp. Combined drier and space heater. 180,961, 9-10-57, Cl. D81-10.
- Sherman, Rallston M., to The Silent Glow Oil Burner Corp. Combined drier and space heater. 180,962, 9-10-57, Cl. D81-1.
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- Shoff, William. Swimmer's aid. 179,708, 2-12-57, Cl. D71-1.
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- Sibbald, Frederick R., to The Hoover Co. Clothes wringer. 179,921, 3-19-57, Cl. D49-1.
- Siebers, Alfred J. Ash tray stand. 180,298, 5-14-57, Cl. D85-2.
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- Silverman, Harry T. Handbag. 180,036, 4-9-57, Cl. D87-3.
- Simmons, Henry B. Nail set holder. 179,822, 3-5-57, Cl. D93-2.
- Simone, Joseph R. Combined toothbrush holder and tooth paste dispenser. 181,111, 10-1-57, Cl. D4-3.
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- Singer, Roger M., to Snyder Mfg. Co. Television antenna. 181,027, 9-17-57, Cl. D26-14.
- Singer, Roger M., to Snyder Mfg. Co. Television antenna. 181,234, 10-15-57, Cl. D26-14.
- Singiser, Frank. Bottle carrier. 180,037, 4-9-57, Cl. D53-4.
- Sinko, John, to Sinko Mfg. & Tool Co. Scraper for wind-shields. 181,495, 11-19-57, Cl. D9-6.
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- Slater, Thomas. Lipstick container. 179,785, 2-26-57, Cl. D86-10.
- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 179,922, 3-19-57, Cl. D86-10.
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- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 180,039, 4-9-57, Cl. D86-10.
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- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 180,041, 4-9-57, Cl. D86-10.
- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 180,042, 4-9-57, Cl. D86-10.
- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 180,107, 4-16-57, Cl. D86-10.
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- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 180,964, 9-10-57, Cl. D86-10.
- Slater, Thomas F., to Scovill Mfg. Co. Lipstick container. 181,817, 12-31-57, Cl. D86-10.

- Slettenmark, Karl I. G. Wind gauge. 179,662, 2-5-57, Cl. D52-1.
- Slough, Glen S., to Auto Craft Products, Inc. Fountain brush. 180,204, 4-30-57, Cl. D9-2.
- Sly, Francis A. Mobile. 181,496, 11-19-57, Cl. D29-1.
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- Smith, Bonnie, Jr. Building or similar article. 179,709, 2-12-57, Cl. D13-1.
- Smith, Donald A., to General Electric Co. Electric frying pan or similar article. 179,864, 3-12-57, Cl. D81-10.
- Smith, Donald J., to Sylvania Electric Products Inc. Electrical socket. 181,375, 11-5-57, Cl. D26-1.
- Smith Englefield and Co. Ltd.: *See*—
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- Smith, John D., to Anti-Corrosive Metal Products Co., Inc. Control unit for motor boats. 179,786, 2-26-57, Cl. D71-1.
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- Smith, Lester L. Louvered ventilator. 179,823, 3-5-57, Cl. D62-4.
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- Smith, Robert G., to Merlite Industries, Inc. Fire alarm. 181,236, 10-15-57, Cl. D72-2.
- Smith, Robert G., to Merlite Industries, Inc. Fire alarm. 181,376, 11-5-57, Cl. D72-2.
- Smith, Thomas R., and C. W. Burkland, to The Maytag Co. Agitator for a washing machine. 181,498, 11-19-57, Cl. D49-1.
- Smith, Thomas R., and C. W. Burkland, to The Maytag Co. Washing machine agitator. 181,499, 11-19-57, Cl. D49-1.
- Snelbaugh, Richard J., and J. E. Dickinson. Card holder. 179,865, 3-12-57, Cl. D34-13.
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- Snyder, Eugene H., to Columbus Plastic Products, Inc. Laundry basket or similar article. 181,500, 11-19-57, Cl. D58-4.
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- Spatz, Walter B. Cosmetic pencil. 179,615, 1-29-57, Cl. D86-10.
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- Spertus, Maurice. Picture frame. 181,756, 12-17-57, Cl. D29-20.
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- Spilman, Raymond, R. Engel, and R. Hollerith, Jr. Calculating machine. 180,724, 7-30-57, Cl. D64-11.
- Spitz, Bernard. Garment hanger. 181,167, 10-8-57, Cl. D80-8.
- Spitz, Sherie K., to Flex-Let Corp. Expandable chain for a bracelet or similar article. 180,966, 9-10-57, Cl. D45-4.
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- Stahl, Oscar C., to The Borden Co. Hose. 180,850, 8-20-57, Cl. D43-1.
- Stahlhut, Leo G., and C. X. Meyer, to Day-Brite Lighting, Inc. Panel for lighting fixture or the like. 181,238, 10-15-57, Cl. D48-16.
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- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Spectacle case. 179,924, 3-19-57, Cl. D57-1.
- Stegmaier, Truman F., to Parmelee Plastics Co. Tablet dispenser. 181,820, 12-31-57, Cl. D52-2.
- Stein, Wilhelm, to Ernst Leitz G. m. b. H. Camera. 181,682, 12-10-57, Cl. D61-1.
- Steinbach, Thomas M., to The Stiffel Co. Lighting fixture. 180,675, 7-16-57, Cl. D48-19.
- Steiner, William R., to General Motors Corp. Air dehumidifier unit. 181,683, 12-10-57, Cl. D62-4.
- Steinle, James R. Golf ball retriever. 181,028, 9-17-57, Cl. D34-5.
- Stenbeck, Edith M., to Catalina, Inc. Bathing suit. 179,583, 1-22-57, Cl. D3-17.
- Stephens, Frank H., Jr. Corner speaker enclosure. 181,377, 11-5-57, Cl. D26-14.
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- Truex, Van D., to The Yale & Towne Mfg. Co. Door knob. 180,120, 4-16-57, Cl. D50-3.
- Truex, Van D., to The Yale & Towne Mfg. Co. Escutcheon plate for a door lock. 180,121, 4-16-57, Cl. D50-6.
- Tseng, Hung-tu. Multi ring bubble producing toy. 180,255, 5-7-57, Cl. D34-15.
- Tucker, Irwin W. Prayer altar. 180,380, 5-28-57, Cl. D29-23.
- Tucker, Irwin W. Prayer altar. 180,381, 5-28-57, Cl. D29-23.
- Tunstead, Charles W. Boarding ladder. 179,748, 2-19-57, Cl. D15-8.
- Tunstead, Charles W. Boarding ladder. 180,122, 4-16-57, Cl. D15-1.
- Tupper, Earl S. Combined box and cover therefor. 179,617, 1-29-57, Cl. D58-11.
- Tupper, Earl S. Combined pitcher and cover therefor. 180,049, 4-9-57, Cl. D44-21.
- Tupper, Earl S. Rolling pin. 180,050, 4-9-57, Cl. D44-29.
- Tupper, Earl S. Combination teething ring, comb and rattle. 180,164, 4-23-57, Cl. D86-8.
- Tupper, Earl S. Doily. 180,165, 4-23-57, Cl. D3-9.
- Tupper, Earl S. Table crumber set. 180,209, 4-30-57, Cl. D44-18.
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- Umanoff, Arthur H., to The Telescope Folding Furniture Co., Inc. Collapsible chair. 180,973, 9-10-57, Cl. D15-1.
- Umanoff, Arthur H., to The Telescope Folding Furniture Co., Inc. Collapsible chair. 180,974, 9-10-57, Cl. D15-1.
- Umanoff, Arthur H., to The Telescope Folding Furniture Co., Inc. Collapsible chair. 180,975, 9-10-57, Cl. D15-1.
- Umbarger, James A. Electric switch. 180,569, 7-2-57, Cl. D26-13.
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- Van der Togt, Jan, to Tomado N. V. Lazy tongs trivet. 181,764, 12-17-57, Cl. D44-10.
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- Van Voorhis, Grace G., to Revlon, Inc. Cosmetic case. 179,551, 1-15-57, Cl. D86-10.
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- Wagner, Franz, to Ekco Products Co. Kitchen utensil handle or similar article. 179,711, 2-12-57, Cl. D44-29.
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- Wilke, William J. Combination reel and container. 180,633, 7-9-57, Cl. D41-1.
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- Williams, Moses M., 50% to R. S. Jackson. Sweater or similar article. 179,669, 2-5-57, Cl. D3-4.
- Williams, Roland. Toothpick dispenser. 180,981, 9-10-57, Cl. D44-24.
- Williams, William D., to National Laboratories, Inc. Liquid chemical applicator for toilet bowls and the like. 181,696, 12-10-57, Cl. D9-2.
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- Wilson, Forest, to Stratford Furniture Corp. Sofa. 179,829, 3-5-57, Cl. D15-11.
- Wilson, Forest. Combined room divider and bookshelves or the like. 179,999, 4-2-57, Cl. D33-14.
- Wilson, Forest. Furniture leg. 180,000, 4-2-57, Cl. D33-14.
- Wilson, Forest. Step table. 180,001, 4-2-57, Cl. D33-14.
- Wilson, Forest. Cocktail table. 180,002, 4-2-57, Cl. D33-14.
- Wilson, Forest. Corner table. 180,003, 4-2-57, Cl. D33-14.
- Wilson, Forest. Sleeping unit. 181,771, 12-17-57, Cl. D5-4.
- Wilson Jones Co.: *See*—
Bartuska, Frank. 181,335.
- Wilson, Lawrence H., to Midwest Mfg. Corp. Range light housing. 181,030, 9-17-57, Cl. D81-25.
- Wilson, Lawrence H., A. H. Titus, Jr., W. J. Miller, and E. E. Aylor. Stove control panel. 180,814, 8-13-57, Cl. D81-25.
- Wilson, Marion C.: *See*—
Jicha, Walter F., and Wilson. 180,903.
Zikmund, Bohumil A., Wilson, and Jicha. 180,922.
- Wilson, Marion C., and W. F. Jicha, to Calumet Steel Castings Corp. Wheel block. 181,031, 9-17-57, Cl. D41-1.
- Wilson, Russell B. Folding tray table. 179,830, 3-5-57, Cl. D33-14.
- Wilson, Woodrow S.: *See*—
Carabel, Morton A., and Wilson. 179,837.
- Windle, Jack H.: *See*—
La Mar, Harry H., and Windle. 181,478.
- Winer, Simon, to National Store Fixture Co., Inc. Chair. 181,032, 9-17-57, Cl. D15-1.
- Winger, Joseph A., to The Texas Co. Illuminable advertising sign. 180,756, 8-6-57, Cl. D1-12.
- Winokur, Harry, and L. N. Lechter, to Harwin Management Corp. Restaurant building. 180,215, 4-30-57, Cl. D13-1.
- Winship, Albert W., to Winship Co., Inc. Article of luggage. 181,616, 12-3-57, Cl. D87-5.
- Winship Co., Inc.: *See*—
Winship, Albert W. 181,616.
- Winson, Jonathan, to Air Baby, Inc. Mitten. 180,129, 4-16-57, Cl. D3-11.
- Winter, Frank J., Jr. Infant's shoe. 181,396, 11-5-57, Cl. D7-7.3.
- Wintermantel, Norman G., to American Machine & Foundry Co. Mudguard for a cycle or similar article. 181,116, 10-1-57, Cl. D34-15.
- Winters, Charles D., Sr., to G. P. Winters. Sign board. 181,697, 12-10-57, Cl. D1-12.
- Winters, Gertrude P.: *See*—
Winters, Charles D., Sr. 181,697.
- Wise, George. Shelf for shaving gear or the like. 179,714, 2-12-57, Cl. D4-3.
- Wise, Llewellyn H. Holder for a fishing rod. 179,586, 1-22-57, Cl. D31-4.
- Wistrand, John C., to Brown & Bigelow. Memorandum clip or similar article. 180,216, 4-30-57, Cl. D26-14.
- Wistrand, John C., to Brown & Bigelow. Desk lighter. 180,854, 8-20-57, Cl. D48-27.

- Witt, Wilhelm, and A. Beck. Stereoscopic camera. 180,167, 4-23-57, Cl. D61—1.
- Wolf, Saul K. Combined vanity tray and receptacle. 181,698, 12-10-57, Cl. D86—10.
- Wolkowitz, Max, to Bell Bedspreads, Inc. Window shade or similar article. 181,510, 11-19-57, Cl. D21—6.
- Wolverine Supply and Mfg. Co.: *See—*
- Lackovic, Nicholas V. 179,775.
- Wood, Edward L., to Gar Wood Industries, Inc. Wheel trim. 180,757, 8-6-57, Cl. D14—30.
- Wood, Gar, Industries, Inc.: *See—*
- Wood, Edward L. 180,757.
- Wood, John F. Phonograph transducer. 180,347, 5-21-57, Cl. D26—14.
- Wood, Morris E., to Higbie Mfg. Co. Fishing reel. 180,758, 8-6-57, Cl. D31—4.
- Wood, William H., Jr. Weathervane. 179,960, 3-26-57, Cl. D52—1.
- Woods, Henry V. Ball caster. 181,397, 11-5-57, Cl. D10—6.
- Woodward, Roy E. Chair. 180,982, 9-10-57, Cl. D15—11.
- Woolter, Cecil B.: *See—*
- Laughlin, Clayton A. 179,485.
- Woolter, Cecil B., to U. I. Colson Co. Letter opener or the like. 180,348, 5-21-57, Cl. D74—1.
- Woolley, Eben B., $\frac{1}{2}$ to F. O. Hindle. Combined lighting fixture and clothes rail. 179,792, 2-26-57, Cl. D33—8.
- Wooster Rubber Co., The: *See—*
- Breneman, Joseph C. 181,340.
- Caldwell, James R. 179,717.
- Wrablica, Paul, Jr. Liquor cabinet or similar article. 179,871, 3-12-57, Cl. D33—3.1.
- Wrablica, Paul, Jr. Liquor cabinet or similar article. 179,872, 3-12-57, Cl. D33—3.1.
- Wright, Edward J. Games board. 181,772, 12-17-57, Cl. D34—5.
- Wright, Russell. Plastic sheet material. 180,130, 4-16-57, Cl. D87—3.
- Wright, Russell. Plastic sheet material. 180,217, 4-30-57, Cl. D87—3.
- Wright, Russell. Plastic sheet material. 179,793, 2-26-57, Cl. D87—3.
- Yager, Lloyd. Snow sled. 181,330, 10-29-57, Cl. D34—15.
- Yale & Towne Mfg. Co., The: *See—*
- Basaldella, Mirko. 180,988.
- Basaldella, Mirko. 180,989.
- Basaldella, Mirko. 180,990.
- Holland, Glen. 179,942.
- Holland, Glen. 180,082.
- Spadini, Andrea. 179,710.
- Truex, Van D. 180,043—8.
- Truex, Van D. 180,119.
- Truex, Van D. 180,120.
- Truex, Van D. 180,121.
- Yamada, Koichi, to Nihon Mishin Seizo Kabushiki Kaisha. Sewing machine frame. 179,873, 3-12-57, Cl. D70—1.
- Yeiser, John O., to Varian Associates. Graphic recorder. 179,715, 2-12-57, Cl. D26—14.
- Yonkers, Robert A.: *See—*
- Liddell, Robert E., Kuypers, and Yonkers. 181,010.
- Young, Gisella. Head scarf. 179,831, 3-5-57, Cl. D3—13.
- Young, Philip E., to George S. Bailey Hat Co. Hat. 180,052, 4-9-57, Cl. D3—13.
- Young, Robert W. Sand glass timer. 179,927, 3-19-57, Cl. D42—7.
- Young, Sol, to L. Batlin & Son, Inc. Decanter. 180,855, 8-20-57, Cl. D58—9.
- Youngworth, Bernard. Top for a fence post. 179,832, 3-5-57, Cl. D28—4.
- Zagara, Francis A., to Taylor Instrument Companies. Wall thermometer. 180,310, 5-14-57, Cl. D52—7.
- Zagara, Frank A., to Eastman Kodak Co. Slide projector. 181,398, 11-5-57, Cl. D61—1.
- Zagara, Frank A., to Eastman Kodak Co. Projector carrying case. 181,399, 11-5-57, Cl. D61—1.
- Zagwyn, Anthony T.: *See—*
- Pawly, John G., and Zagwyn. 181,747.
- Pawly, John G., and Zagwyn. 181,748.
- Zalewski, Joseph, to Austen Display Inc. Collapsible display ornament or similar article. 180,053, 4-9-57, Cl. D29—1.
- Zander, Fritz A., to M. E. Abbott. Piloting apparatus for use in gauging surface finish. 179,750, 2-19-57, Cl. D52—1.
- Zander, Fritz A., to M. E. Abbott, trustee. Rotary piloting apparatus. 180,856, 8-20-57, Cl. D26—5.
- Zaner-Bloser Co., The: *See—*
- Bloser, Parker Z. 181,180.
- Zappa, Stephen J. Combination tool for use by wild animal trappers. 181,828, 12-31-57, Cl. D35—2.
- Zappe, Gustav, to Milwaukee Lace Paper Co. Paper doily or similar article. 179,587, 1-22-57, Cl. D59—2.
- Zedric, Louis M., Jr. Tissue dispenser. 180,433, 6-4-57, Cl. D4—3.
- Zeidman, Robert, to Mail Pouch Tobacco Co. Toy dog. 181,511, 11-19-57, Cl. D34—2.
- Zeidman, Robert, to Mail Pouch Tobacco Co. Toy fox. 181,569, 11-26-57, Cl. D34—2.
- Zeidman, Robert, to Mail Pouch Tobacco Co. Toy bear. 181,570, 11-26-57, Cl. D34—2.
- Zeller, Theodore J., to Mack Trucks, Inc. Truck cab. 181,033, 9-17-57, Cl. D14—3.
- Zelony, Emanuel M., to Duopac, Inc. Closure cap for bottles. 179,833, 3-5-57, Cl. D58—26.
- Zenith Radio Corp.: *See—*
- Budlong, Robert D. 180,580.
- De Young, Jack. 180,774.
- Ziegler, Brandt F.: *See—*
- Swann, Edward R., and Ziegler. 179,867.
- Ziegler, Paul E., to Goodyear Aircraft Corp. One-man helicopter. 180,311, 5-14-57, Cl. D71—1.
- Zierhut, Clarence, to Paper Mate Mfg. Co. Writing instrument or the like. 181,244, 10-15-57, Cl. D74—17.
- Zierhut, Clarence, to Paper Mate Mfg. Co. Desk pen support or the like. 181,773, 12-17-57, Cl. D74—1.
- Zierhut, Harold E.: *See—*
- Larson, George G., and Zierhut. 180,149.
- Zikmund, Bohumil A., M. C. Wilson, and W. F. Jicha, to Calumet Steel Castings Corp. Wheel block. 180,922, 9-3-57, Cl. D41—1.
- Zimberoff, Manuel, R. G. Leavitt, and H. I. Paul. Combined mounted camera and photoflash unit. 179,670, 2-5-57, Cl. D61—1.
- Zinkil, Roy H., and T. P. Newman, to Crane Co. Closet bowl. 180,983, 9-10-57, Cl. D4—5.
- Ziskin, Manuel S.: *See—*
- Billig, Ralph B., and Ziskin. 180,386.
- Zisla, Harold, to United States Rubber Co. Boot or similar article. 180,258, 5-7-57, Cl. D7—7.
- Zisla, Harold, to United States Rubber Co. Boot or similar article. 180,259, 5-7-57, Cl. D7—7.
- Zoffer, Robert H. Portable commode. 180,634, 7-9-57, Cl. D4—5.
- Zuckerwar, Richard C. Glove or similar article. 180,984, 9-10-57, Cl. D3—11.
- Zupon, Francis J. Combined bathtub and toilet bowl. 181,512, 11-19-57, Cl. D4—4.
- Zylbert, Thaddeus J., to The Singer Mfg. Co. Sewing machine. 180,168, 4-23-57, Cl. D70—1.



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LIST OF PLANT PATENTEES

- Anderson, Frederic W. Nectarine tree. 1,543, 1-1-57, Cl. 47-62.
- Anderson, Frederic W. Nectarine tree. 1,544, 1-1-57, Cl. 47-62.
- Anderson, Frederic W. Nectarine tree. 1,545, 1-1-57, Cl. 47-62.
- Anderson, Frederic W. Nectarine tree. 1,634, 8-20-57, Cl. 47-62.
- Anderson, Frederic W. Nectarine tree. 1,645, 9-24-57, Cl. 47-62.
- Anderson, Frederic W. Nectarine tree. 1,646, 10-8-57, Cl. 47-62.
- Armstrong Nurseries, Inc.: See—
- Norman, Albert. 1,650.
- Swim, Herbert C. 1,648.
- Swim, Herbert C. 1,649.
- Swim, Herbert C. 1,651.
- Swim, Herbert C. 1,652.
- Arnesen, Edward B. Camelia plant. 1,562, 2-12-57, Cl. 47-60.
- Baerman, Ralph, and C. H. Fischer, to Selected Glads, Inc. Gladiolus plant. 1,591, 4-16-57, Cl. 47-60.
- Baerman, Ralph, and C. Fischer, to Selected Glads, Inc. Gladiolus plant. 1,654, 10-29-57, Cl. 47-60.
- Baerman, Ralph, and C. Fischer, to Selected Glads, Inc. Gladiolus plant. 1,655, 10-29-57, Cl. 47-60.
- Battaglia, Joseph D., to E. H. and H. S. Kemp, co-partners trading as Bountiful Ridge Nurseries. Peach tree. 1,661, 12-3-57, Cl. 47-62.
- Berner, Charles M. Azalea plant. 1,575, 3-5-57, Cl. 47-60.
- Bisbee, Roy A., to Stark Bro's Nurseries and Orchards Co. Apple tree. 1,565, 2-12-57, Cl. 47-62.
- Blitzen, Harris H., to Woodlawn Gardens, Inc. Rose plant. 1,556, 1-22-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,547, 1-1-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,548, 1-1-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,553, 1-15-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,554, 1-15-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,555, 1-15-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,563, 2-12-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,564, 2-12-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,570, 2-26-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,571, 2-26-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,578, 3-19-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,585, 3-26-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,599, 5-7-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,603, 5-21-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,609, 6-11-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,610, 6-11-57, Cl. 47-60.
- Boerner, Eugene S., to C. W. Stuart & Co. Rose plant. 1,611, 6-25-57, Cl. 47-61.
- Boerner, Eugene S., to C. W. Stuart & Co. Rose plant. 1,624, 7-30-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,625, 7-30-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,628, 8-6-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,629, 8-6-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,630, 8-6-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,635, 8-20-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,636, 8-20-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,638, 9-3-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,643, 9-24-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,644, 9-24-57, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,657, 11-5-57, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,666, 12-10-57, Cl. 47-60.
- Boos, Albert A. Peach tree. 1,626, 8-6-57, Cl. 47-62.
- Booy, Peter J., Rose Nursery: See—
- Silva, William E. 1,574.
- Bos, Henry, to The Premier Rose Gardens, Consolidated. Rose plant. 1,584, 3-26-57, Cl. 47-61.
- Bosley, Edith C.: See—
- Shepherd, Roy E. 1,608.
- Bountiful Ridge Nurseries: See—
- Battaglia, Joseph D. 1,661.
- Brans, Theodor, to A. D. Vanderkraats. California privet plant. 1,593, 4-23-57, Cl. 47-59.
- Brownell, Josephine D. Rose plant. 1,606, 6-11-57, Cl. 47-61.
- Bunge, Walter W. Rose plant. 1,637, 8-27-57, Cl. 47-61.
- Burkey, Harold I. Snapdragon plant. 1,597, 4-30-57, Cl. 47-60.
- Burkey, Harold I. Snapdragon plant. 1,601, 5-14-57, Cl. 47-60.
- Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 1,546, 1-1-57, Cl. 47-61.
- Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 1,566, 2-12-57, Cl. 47-61.
- Cole, David B., to The Cole Nursery Co. Honey locust tree. 1,600, 5-14-57, Cl. 47-59.
- Cole, David B., to The Cole Nursery Co. Honey locust tree. 1,605, 5-21-57, Cl. 47-59.
- Cole, David B., to The Cole Nursery Co. Honey locust tree. 1,619, 7-16-57, Cl. 47-59.
- Cole Nursery Co., The: See—
- Cole, David B. 1,600.
- Cole, David B. 1,605.
- Cole, David B. 1,619.
- Conard-Pyle Co., The: See—
- Dot, Pedro. 1,663.
- Mallerin, Charles. 1,572.
- Mallerin, Charles. 1,573.
- Meillard, Francis. 1,576.
- Conklin, Henry A. Rose plant. 1,582, 3-26-56, Cl. 47-61.
- Connell, William F. Apple tree. 1,602, 5-14-57, Cl. 47-62.
- Consolidated Nurseries, Inc.: See—
- Shamburger, Paul. 1,633.
- Corcorran, Herbert L. Almond tree. 1,622, 7-16-57, Cl. 47-62.
- Crandall, Judson L. Apricot tree. 1,551, 1-15-57, Cl. 47-62.
- Cremer, Rosella G. Rose plant. 1,607, 6-11-57, Cl. 47-61.
- Danegger, Emil R. Ligustrum plant. 1,664, 12-3-57, Cl. 47-59.
- Dering, Eldon P.: See—
- Von Abrams, Gordon J. 1,662.
- Deroux, Raymond, to Stark Bro's Nurseries and Orchards Co. Peach tree. 1,668, 12-10-57, Cl. 47-62.
- Doerr, Ervin H. Double gladiolus plant. 1,559, 2-5-57, Cl. 47-60.
- Doerr, Ervin H. Red gladiolus plant. 1,560, 2-5-57, Cl. 47-60.
- Doerr, Ervin H. White gladiolus plant. 1,561, 2-5-57, Cl. 47-60.
- Dot, Pedro, to The Conard-Pyle Co. Rose plant. 1,663, 12-3-57, Cl. 47-61.
- Duehrsen, Carl G., to C. A. Elmer, trading as Elmer Roses. Rose plant. 1,581, 3-19-57, Cl. 47-61.
- Elliott, Marion. Carnation plant. 1,656, 11-5-57, Cl. 47-60.
- Elmer, Constance A.: See—
- Duehrsen, Carl G. 1,581.
- Miller, Andrew J. 1,579.
- Elmer Roses: See—
- Duehrsen, Carl G. 1,581.
- Miller, Andrew J. 1,579.
- First Burgundy, Inc.: See—
- Loretto, Conio, J. N., and L. 1,567.
- Fischer, Carl H.: See—
- Baerman, Ralph, and Fischer. 1,591.
- Baerman, Ralph, and Fischer. 1,654.
- Baerman, Ralph, and Fischer. 1,655.
- Franc, Godfrey C. Rose plant. 1,598, 5-7-57, Cl. 47-61.
- Gavella, Louis E. Escallonia plant. 1,658, 11-5-57, Cl. 47-60.
- Germain's, Inc.: See—
- Lammerts, Walter E. 1,557.
- Whisler, Milton L. 1,615.
- Gregory, Emily B. Pyracantha plant. 1,590, 4-16-57, Cl. 47-59.
- Grullemans, John J.: See—
- Manske, Richard H. F. 1,594.
- Manske, Richard H. F. 1,595.
- Manske, Richard H. F. 1,596.

- Grullemans, John J. Hemerocallis plant. 1,669, 12-17-57, Cl. 47-60.
- Grullemans, John J. Hemerocallis plant. 1,670, 12-17-57, Cl. 47-60.
- Gulf Stream Products, Inc.: *See*—
Ingram, Collingwood. 1,589.
- Hemet Wholesale: *See*—
Lindquist, Robert V. 1,671.
- Hess, Cornelius W. M. Yew (*Taxus*) plant. 1,617, 7-9-57, Cl. 47-59.
- Hill, Joseph H., Co.: *See*—
Byrum, Roy L. 1,546.
Byrum, Roy L. 1,566.
- Howard & Smith, Inc.: *See*—
Warriner, William A. 1,588.
- Ingram, Collingwood, to Gulf Stream Products, Inc. *Rubus* plant. 1,589, 4-16-57, Cl. 47-60.
- Jackson & Perkins Co.: *See*—
Boerner, Eugene S. 1,547.
Boerner, Eugene S. 1,548.
Boerner, Eugene S. 1,553.
Boerner, Eugene S. 1,554.
Boerner, Eugene S. 1,555.
Boerner, Eugene S. 1,563.
Boerner, Eugene S. 1,564.
Boerner, Eugene S. 1,570.
Boerner, Eugene S. 1,571.
Boerner, Eugene S. 1,578.
Boerner, Eugene S. 1,585.
Boerner, Eugene S. 1,599.
Boerner, Eugene S. 1,603.
Boerner, Eugene S. 1,609.
Boerner, Eugene S. 1,610.
Boerner, Eugene S. 1,625.
Boerner, Eugene S. 1,628.
Boerner, Eugene S. 1,629.
Boerner, Eugene S. 1,630.
Boerner, Eugene S. 1,635.
Boerner, Eugene S. 1,636.
Boerner, Eugene S. 1,638.
Boerner, Eugene S. 1,643.
Boerner, Eugene S. 1,644.
Boerner, Eugene S. 1,657.
Boerner, Eugene S. 1,666.
Kordes, Wilhelm. 1,577.
Kordes, Wilhelm. 1,604.
Kordes, Wilhelm. 1,618.
Mansuino, Ada. 1,639.
Martinez, John. 1,616.
McGredy, Samuel D., IV. 1,667.
Perkins, Charles H. 1,642.
Tantau, Mathias. 1,580.
Valdrez, Jose G. 1,660.
Verschuren, Hendrikus A. M. 1,641.
- Kemp, Edgar H.: *See*—
Battaglia, Joseph D. 1,661.
- Kemp, Homer S.: *See*—
Battaglia, Joseph D. 1,661.
- Kordes, Wilhelm, to Jackson & Perkins Co. *Rose* plant. 1,577, 3-12-57, Cl. 47-61.
- Kordes, Wilhelm, to Jackson & Perkins Co. *Rose* plant. 1,604, 5-21-57, Cl. 47-61.
- Kordes, Wilhelm, to Jackson & Perkins Co. *Rose* plant. 1,618, 7-9-57, Cl. 47-61.
- Kramer, August, to Kramer Bros. Nurseries. *Camellia* plant. 1,583, 3-26-57, Cl. 47-60.
- Kramer Bros. Nurseries: *See*—
Kramer, August. 1,583.
- Lafky, Mark G. *Iris* plant. 1,569, 2-26-57, Cl. 47-60.
- Lammerts, Walter E., to Germain's, Inc. *Rose* plant. 1,557, 1-29-57, Cl. 47-61.
- Lammerts, Walter E., to Roseway Nurseries. *Rose* plant. 1,558, 1-29-57, Cl. 47-61.
- Law, Walter A., to Stark Bro's Nurseries and Orchards Co. *Apple* tree. 1,550, 1-8-57, Cl. 47-62.
- Le Grice, Edward B. *Rosa floribunda* plant. 1,665, 12-10-57, Cl. 47-61.
- Lindquist, Robert V., to Hemet Wholesale. *Rose* plant. 1,671, 12-24-57, Cl. 47-61.
- Loretto, Conio, J. N., and L., to First Burgundy, Inc. *Raspberry* plant. 1,567, 2-19-57, Cl. 47-62.
- Loretto, Joseph N.: *See*—
Loretto, Conio, J. N., and L. 1,567.
- Loretto, Leonard: *See*—
Loretto, Conio, J. N., and L. 1,567.
- Mallerin, Charles, to The Conard-Pyle Co. *Rose* plant. 1,572, 2-26-57, Cl. 47-61.
- Mallerin, Charles, to The Conard-Pyle Co. *Rose* plant. 1,573, 2-26-57, Cl. 47-61.
- Manske, Richard H. F., to J. J. Grullemans. *Dicentra* plant. 1,594, 4-30-57, Cl. 47-60.
- Manske, Richard H. F., to J. J. Grullemans. *Dicentra* plant. 1,595, 4-30-57, Cl. 47-60.
- Manske, Richard H. F., to J. J. Grullemans. *Dicentra* plant. 1,596, 4-30-57, Cl. 47-60.
- Mansuino, Ada, to Jackson & Perkins Co. *Rose* plant. 1,639, 9-3-57, Cl. 47-61.
- Martinez, John, to Jackson & Perkins Co. *Rose* plant. 1,616, 7-2-57, Cl. 47-61.
- McGredy, Samuel D., IV, to Jackson & Perkins Co. *Rose* plant. 1,667, 12-10-57, Cl. 47-61.
- McKee, William J., to Schreiner's Gardens. *Iris* plant. 1,592, 4-16-57, Cl. 47-60.
- Meiland, Francis, to The Conard-Pyle Co. *Rose* plant. 1,576, 3-12-57, Cl. 47-61.
- Meyers, Charles Q. *Spiraea* shrub. 1,640, 9-17-57, Cl. 47-60.
- Miller, Andrew J., to C. A. Elmer, trading as Elmer Roses. *Rose* plant. 1,579, 3-19-57, Cl. 47-61.
- Moore, Ralph S. *Rose* plant. 1,631, 8-6-57, Cl. 47-61.
- Moore, William W. *Hardy* peach tree. 1,647, 10-8-57, Cl. 47-62.
- Motose, Thomas E. *Rose* plant. 1,552, 1-15-57, Cl. 47-61.
- Murray, Merritt J., to A. M. Todd Co. *Mint* plant. 1,612, 7-2-57, Cl. 47-59.
- Murray, Merritt J., to A. M. Todd Co. *Mint* plant. 1,613, 7-2-57, Cl. 47-59.
- Murray, Merritt J., to A. M. Todd Co. *Mint* plant. 1,614, 7-2-57, Cl. 47-59.
- Norman, Albert, to Armstrong Nurseries, Inc. *Rose* plant. 1,650, 10-8-57, Cl. 47-61.
- Pennock, Charles F. *Dracaena* plant. 1,627, 8-6-57, Cl. 47-59.
- Perkins, Charles H., to Jackson & Perkins Co. *Rose* plant. 1,642, 9-24-57, Cl. 47-61.
- Peterson & Dering: *See*—
Von Abrams, Gordon J. 1,662.
- Premier Rose Gardens, Consolidated, The: *See*—
Bos, Henry. 1,584.
- Rich, Samuel J.: *See*—
Smith, Mildred M. 1,586.
- Rodgers, Vincent B. *Almond* tree. 1,568, 2-19-57, Cl. 47-62.
- Roseway Nurseries: *See*—
Lammerts, Walter E. 1,558.
- Roxburgh, John M., to Stark Bro's Nurseries and Orchards Co. *Peach* tree. 1,632, 8-13-57, Cl. 47-61.
- Sanders, Harold T. *Rose* plant. 1,659, 11-12-57, Cl. 47-61.
- Sawle, William S., Jr. *Apple* tree. 1,587, 4-9-57, Cl. 47-62.
- Schreiner's Gardens: *See*—
McKee, William J. 1,592.
- Selected Glads, Inc.: *See*—
Baerman, Ralph, and Fischer. 1,591.
Baerman, Ralph, and Fischer. 1,654.
Baerman, Ralph, and Fischer. 1,655.
- Shamburger, Paul, to Consolidated Nurseries, Inc. *Rose* plant. 1,633, 8-13-57, Cl. 47-61.
- Shepherd, Roy E., to E. C. Bosley. *Rose* plant. 1,608, 6-11-57, Cl. 47-61.
- Silva, William E., to Peter J. Booy Rose Nursery. *Rose* plant. 1,574, 2-26-57, Cl. 47-61.
- Smith, Mildred M., to S. J. Rich. *Ornamental* plum tree. 1,586, 4-2-57, Cl. 47-62.
- Stark Bro's Nurseries and Orchards Co.: *See*—
Bisbee, Roy A. 1,565.
Deroux, Raymond. 1,668.
Law, Walter A. 1,550.
Roxburgh, John M. 1,632.
- Stuart, C. W., & Co.: *See*—
Boerner, Eugene S. 1,611.
Boerner, Eugene S. 1,624.
- Swim, Herbert C., to Armstrong Nurseries, Inc. *Rose* plant. 1,648, 10-8-57, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. *Peach* tree. 1,649, 10-8-57, Cl. 47-62.
- Swim, Herbert C., to Armstrong Nurseries, Inc. *Apricot* tree. 1,651, 10-8-57, Cl. 47-62.
- Swim, Herbert C., to Armstrong Nurseries, Inc. *Nectarine* tree. 1,652, 10-8-57, Cl. 47-62.
- Tantau, Mathias, to Jackson & Perkins Co. *Rose* plant. 1,580, 3-19-57, Cl. 47-61.
- Tiret, Horace M. *Fuchsia* plant. 1,620, 7-16-57, Cl. 47-60.
- Tiret, Horace M. *Fuchsia* plant. 1,621, 7-16-57, Cl. 47-60.
- Todd, A. M., Co.: *See*—
Murray, Merritt J. 1,612.
Murray, Merritt J. 1,613.
Murray, Merritt J. 1,614.
- Valdrez, Jose G., to Jackson & Perkins Co. *Rose* plant. 1,660, 11-12-57, Cl. 47-61.
- Vanderkraats, Arie D.: *See*—
Brans, Theodoor. 1,593.
- Van Zanten, Maurits L. V. *Azalea* plant. 1,653, 10-15-57, Cl. 47-60.
- Verschuren, Hendrikus A. M., to Jackson & Perkins Co. *Rose* plant. 1,641, 9-24-57, Cl. 47-61.
- Von Abrams, Gordon J., to E. P. Dering, d. b. a. Peterson & Dering. *Rose* plant. 1,662, 12-3-57, Cl. 47-61.
- Wagner, Edwin M. *Peach* tree. 1,623, 7-30-57, Cl. 47-62.
- Warriner, William A., to Howard & Smith, Inc. *Rose* plant. 1,588, 4-9-57, Cl. 47-61.
- Whisler, Milton L., to Germain's, Inc. *Rose* plant. 1,615, 7-2-57, Cl. 47-61.
- Winkler, Marshall N. *Carnation* plant. 1,549, 1-8-57, Cl. 47-60.
- Woodlawn Gardens, Inc.: *See*—
Bliven, Harris H. 1,556.

1957

CLASSIFICATION OF PATENTS

NOTE.—First number=class, second number=subclass, third number=patent number

1— 1: 2,794,980 2,799,857 2,803,012 2: 2,791,772 2,795,785 2,808,587 2,809,373 2,814,802 2,814,803 2,816,288 3: 2,776,431 2,778,019 2,780,809 2,786,201 2,788,522 2,795,786 2,796,607 2,798,218 2,798,219 2,799,019 2,801,414 2,817,839 4: 2,794,981 6: 2,785,400 18.1: 2,779,942 24.5: 2,784,405 32: 2,790,971 41: 2,793,364 44.4: 2,792,571 2,799,858 2,801,415 2,814,041 44.5: 2,775,762 2,778,020 2,778,021 2,780,810 2,785,401 2,785,402 2,790,173 2,790,174 2,790,972 2,801,416 2,804,620 2,806,218 45: 2,816,289 46: 2,783,468 2,796,608 2,806,219 47: 2,779,021 2,780,811 2,786,202 2,789,287 2,798,220 49: 2,775,763 2,775,764 2,775,765 2,778,022 2,781,515 2,784,406 2,795,787 2,797,414 2,799,859 2,801,417 2,801,418 2,812,515 2,814,042 49.1: 2,789,288 49.5: 2,783,469 49.6: 2,775,766 49.8: 2,795,788 2,799,860 2,802,211 60: 2,810,910 101: 2,783,470 2,799,861 104: 2,785,403 106: 2,777,126 2,780,812 2,787,000 2,817,840 118: 2,813,021 120: 2,786,203 123: 2,781,516 124: 2,795,789 127: 2,787,789 131: 2,787,001 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5— 64: 2,802,219	6— 12: 2,807,034	9— 8: 2,814,055	12— 8.3: 2,805,431	15— 3.1: 2,799,877	15— 128: 2,782,432
69: 2,779,951	7— 5.4: 2,806,229	9: 2,785,420	10.2: 2,794,994	3.14: 2,778,042	2,784,435
72: 2,783,529	5.6: 2,791,954	2,791,785	10.3: 2,799,874	3.17: 2,817,862	2,785,425
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82: 2,788,530	8: 2,799,026	2,806,231	12: 2,776,444	2,816,303	2,794,200
87: 2,809,381	9: 2,806,230	2,808,435	12.3: 2,778,039	2,785,423	2,814,815
91: 2,810,920	11: 2,809,384	2,803,839	17: 2,788,875	21: 2,800,671	2,816,306
93: 2,781,526	14.1: 2,797,420	2,804,633	21: 2,806,232	2,803,025	2,790,190
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98: 2,784,420	2,813,278	2,784,426	33: 2,798,235	2,807,037	2,793,379
2,790,978	8— 6.5: 2,802,712	2,800,666	36: 2,783,486	2,807,033	2,807,816
99: 2,780,817	2,806,759	2,802,222	36.5: 2,813,281	22: 2,799,035	2,779,961
2,781,527	12: 2,787,515	2,803,023	36.8: 2,787,799	2,799,878	2,790,191
2,790,183	18: 2,817,574	2,814,056	2,813,282	23: 2,798,237	2,801,435
2,809,382	25: 2,795,477	2,776,443	37: 2,799,876	2,812,529	2,775,778
2,814,051	32: 2,783,121	2,817,101	38: 2,810,142	2,816,304	2,778,045
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100: 2,804,631	36: 2,798,788	2,775,776	41.1: 2,794,193	27: 2,817,103	2,794,999
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103: 2,794,190	43: 2,817,575	2,792,577	51: 2,781,532	2,805,433	2,808,602
105: 2,793,375	45: 2,815,259	2,802,223	53.4: 2,813,283	29: 2,801,431	2,805,435
109: 2,805,427	55: 2,792,276	2,810,138	53.6: 2,808,600	2,806,236	2,808,603
111: 2,799,867	2,796,318	2,814,057	53.7: 2,798,236	40: 2,784,432	2,813,288
118: 2,790,184	2,812,230	2,814,811	55: 2,813,284	41: 2,783,487	2,816,307
119: 2,811,725	2,812,998	2,815,518	60: 2,784,431	45: 2,793,378	2,817,105
2,817,852	56: 2,802,713	2,816,299	85: 2,782,432	49: 2,777,140	2,778,046
122: 2,781,528	2,802,714	2,816,310	2,799,030	2,780,819	2,798,240
131: 2,784,421	61: 2,813,773	2,787,795	2,808,601	2,782,434	2,816,308
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164: 2,779,032	71: 2,777,745	2,795,804	90: 2,802,226	2,785,424	132: 2,789,300
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2,790,185	94.1: 2,805,116	44: 2,811,729	103: 2,787,012	75: 2,794,196	132.7: 2,805,436
191: 2,788,531	2,805,913	2,800,667	115.6: 2,811,731	77: 2,781,534	133: 2,793,380
210: 2,775,775	2,814,052	8: 2,783,484	115.8: 2,787,013	83: 2,782,435	2,811,732
2,814,052	94.17: 2,804,367	10: 2,813,279	115.8: 2,787,013	93: 2,797,422	2,813,289
211: 2,809,383	94.18: 2,781,241	11: 2,815,519	116.2: 2,789,294	2,799,879	2,814,060
273: 2,803,020	94.25: 2,809,878	12: 2,791,786	128: 2,799,032	2,802,227	136: 2,791,789
275: 2,791,783	94.27: 2,805,117	2,796,616	133: 2,805,432	95: 2,802,228	2,793,381
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296: 2,776,442	94.33: 2,785,475	18: 2,790,188	136: 2,777,139	100: 2,791,788	2,807,818
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310: Re.24,392	105: 2,805,118	2,799,027	2,799,033	102: 2,775,777	2,817,106
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2,807,032	114.5: 2,776,868	34: 2,812,526	2,794,995	2,807,039	2,816,309
2,816,296	2,810,624	43: 2,800,668	2,806,234	104.01: 2,787,800	138: 2,779,963
319: 2,783,482	115.5: 2,781,242	50: 2,800,669	2,799,034	2,801,432	2,785,426
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320: 2,817,853	2,786,732	72: 2,779,038	2,794,996	104.04: 2,782,436	2,803,844
323: 2,797,419	115.6: 2,791,484	2,779,039	6: 2,777,891	2,813,285	2,806,238
327: 2,777,138	116: 2,782,090	86: 2,784,428	2,794,058	104.06: 2,786,219	2,808,604
2,785,418	2,785,041	2,787,796	2,804,492	2,814,147	139: 2,782,438
2,785,419	2,785,947	2,791,787	2,808,446	2,810,143	2,783,488
2,787,009	2,785,948	2,793,376	9: 2,782,245	104.07: 2,803,026	2,793,382
2,802,220	2,786,733	2,812,527	2,796,450	104.09: 2,779,042	2,806,239
2,803,022	2,793,929	2,814,812	2,800,519	104.1: 2,803,842	2,814,817
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331: 2,779,953	2,789,030	94: 2,795,805	2,804,493	104.2: 2,789,296	2,799,882
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2,811,726	2,816,003	107: 2,798,234	2,805,270	2,786,218	2,780,822
2,817,854	127.5: 2,806,762	111: 2,799,028	2,788,379	2,787,423	142: 2,787,015
2,817,855	129: 2,776,869	116: 2,800,670	2,812,375	2,803,843	143: 2,798,241
2,817,856	2,787,516	123: 2,783,485	17: 2,798,892	2,800,672	2,802,229
334: 2,789,292	130: 2,793,930	2,808,598	2,802,041	2,810,144	2,814,818
2,791,784	2,784,052	2,808,599	18: 2,813,921	2,817,863	2,792,581
2,799,870	130.1: 2,794,700	124: 2,781,530	20: 2,778,866	2,816,305	2,802,230
2,803,836	2,808,311	128: 2,813,280	2,784,243	2,807,814	2,804,637
2,804,632	131: 2,777,750	129: 2,784,429	22: 2,801,275	2,817,864	2,787,107
2,808,596	137: 2,792,377	2,787,797	23: 2,783,288	118: 2,778,044	146: 2,781,537
335: 2,787,794	2,815,260	2,799,871	2,796,451	2,790,981	2,786,221
2,788,532	137.5: 2,790,698	2,817,861	2,782,246	2,800,673	2,817,866
2,810,921	139: 2,802,715	130: 2,803,840	25: 2,809,223	2,807,815	147: 2,777,143
337: 2,792,576	139.1: 2,790,699	132: 2,802,224	26: 2,780,666	2,813,286	2,777,144
2,795,802	148: 2,816,811	138: 2,784,430	27: 2,785,214	2,815,521	151: 2,808,605
338: 2,782,427	151.1: 2,785,042	139: 2,799,872	2,793,242	2,779,959	153: 2,807,819
339: 2,779,033	151.2: 2,786,736	140: 2,797,421	2,803,689	2,786,220	159: 2,812,530
341: 2,805,428	156: 2,810,625	146: 2,816,302	29: Re.24,300	2,794,198	160: 2,780,823
2,815,515	158: 2,789,031	147: 2,779,040	2,805,271	2,794,997	2,790,192
344: 2,817,857	9— 1: 2,781,529	152: 2,787,798	2,801,433	2,794,998	167: 2,797,424
2,785,533	2,784,424	155: 2,792,578	2,801,434	2,804,636	171: 2,805,437
345: Re.24,386	2,794,191	166: 2,779,956	2,789,153	2,803,843	172: 2,796,619
2,782,428	2,811,728	2,787,813	2,790,840	2,813,287	2,799,037
2,786,215	2,817,859	2,811,730	2,792,438	2,777,142	2,817,867
2,786,216	3: 2,794,192	2,792,578	2,798,108	2,784,434	174: 2,811,538
2,815,516	4: 2,802,221	2,779,956	2,818,461	2,779,960	176: 2,795,807
347: 2,795,803	5: 2,803,537	2,781,531	33: 2,790,019	2,789,297	179: 2,789,302
2,807,033	2,816,297	1: 2,799,029	2,794,843	2,810,145	180: 2,789,303
2,807,809	6: 2,778,035	3: 2,794,993	2,795,636	2,817,104	182: 2,782,439
348: 2,779,034	2,807,811	12— 1: 2,782,431	2,814,658	2,784,199	2,797,425
2,810,922	2,814,810	2,787,011	2,799,873	2,798,239	2,817,108
2,812,525	2,816,298	2,799,873	2,807,036	2,810,146	183: 2,790,985
2,814,053	7: 2,805,430	4.3: Re.24,344	2,802,225	2,809,385	184: 2,789,304
351: 2,794,991	2,815,517	2,802,225	7.1: 2,804,634	125: 2,790,982	2,803,029
2,798,233	8: 2,790,186	2,778,038	7.5: 2,778,038	127: 2,806,237	2,814,061
353: 2,809,979	2,790,187			128: 2,780,821	186: 2,777,145
2,805,429	2,801,429				
354: 2,779,035	2,814,054				
2,779,036					
2,801,427					
2,817,858					
356: 2,780,818					
362: 2,801,428					
4: 2,811,727					
11: 2,779,037					

15— 187: 2,783,490 2,794,201 192: 2,790,986 193: 2,779,043 2,786,222 198: 2,778,047 2,778,048 201: 2,796,620 202: 2,785,427 2,787,016 2,796,621 2,810,147 203: 2,792,582 2,797,426 2,814,819 205: 2,785,428 2,787,017 209: 2,778,049 2,786,223 2,792,583 2,799,038 2,803,845 2,813,291 210: 2,777,146 2,777,147 2,787,801 2,790,193 2,809,387 2,810,148 2,810,923 2,816,311 2,816,312 2,816,313 2,816,314 213: 2,782,440 215: 2,795,001 220: 2,805,438 227: 2,784,436 228: 2,777,148 2,779,044 229: 2,777,149 2,782,441 2,790,987 2,796,622 2,800,674 2,804,638 2,815,523 230: 2,779,964 2,788,539 2,794,202 2,795,002 2,797,427 2,799,884 2,805,439 2,811,733 2,813,292 231: 2,790,988 2,810,149 2,811,734 236: 2,792,584 2,806,240 243: 2,799,885 244: 2,783,491 2,789,305 2,810,150 2,810,924 2,816,315 245: 2,777,150 2,730,824 2,781,539 2,782,442 2,782,443 2,782,444 2,782,445 2,782,446 2,782,447 2,782,448 2,782,449 2,792,585 2,792,586 2,794,203 2,796,623 2,797,428 2,798,242 2,801,436 2,803,030 2,807,821 2,814,062 2,814,820 2,814,821 2,814,822 246: 2,775,779 2,777,151 2,791,790 2,798,243 248: 2,778,050 2,799,886 2,803,031 2,807,040 2,807,041 2,817,868 2,817,869 250: 2,787,802 2,798,244	15— 250: 2,806,241 2,807,822 2,814,823 250.4: 2,816,316 250.5: 2,786,224 2,790,194 2,802,231 251: 2,786,225 253: 2,785,429 2,785,430 2,790,989 2,795,809 2,800,675 2,802,232 2,803,846 2,807,823 2,811,735 254: 2,784,437 2,787,803 255: 2,775,780 2,780,825 2,781,540 2,782,450 2,784,438 2,787,018 2,790,195 2,790,990 2,795,003 2,795,004 2,799,039 2,799,887 2,800,676 2,804,639 2,809,388 2,811,736 256.5: 2,779,045 2,781,541 2,815,524 257: 2,814,824 258: 2,794,204 2,808,606 261: 2,802,233 262: 2,793,383 265: 2,791,791 2,798,245 267: 2,817,109 302: 2,814,825 304: 2,782,451 306: 2,788,540 307: 2,792,587 308: 2,800,677 310: 2,779,046 2,791,792 312: 2,812,251 314: 2,803,847 317: 2,803,848 318: 2,797,427 319: 2,814,063 323: 2,779,047 325: 2,801,437 326: 2,814,064 327: 2,780,826 2,811,737 328: 2,793,384 2,811,738 330: 2,788,541 2,814,065 332: 2,797,430 337: 2,780,827 2,784,439 339: 2,789,306 2,809,389 340: 2,784,440 344: 2,809,390 351: 2,780,828 2,806,242 359: 2,776,446 2,784,441 2,807,824 365: 2,780,829 2,814,066 367: 2,793,385 2,800,678 368: 2,785,431 373: 2,812,251 375: 2,785,432 385: 2,782,452 387: 2,777,152 394: 2,789,307 2,804,640 398: 2,807,825 400: 2,805,440 402: 2,789,308 417: 2,815,525 418: 2,799,040 16— 4: 2,779,048 7: 2,807,826 16: 2,796,624 2,806,243 18: 2,810,151 2,810,925 2,812,252 21: 2,787,804 24: 2,808,607 26: 2,779,965	16— 29: 2,800,679 30: 2,790,196 32: 2,784,442 34: 2,779,049 40: 2,799,041 42: 2,794,205 2,807,042 44: 2,785,433 49: 2,782,453 55: 2,786,226 62: 2,790,991 65: 2,777,153 2,806,244 66: 2,812,533 2,814,067 70: 2,808,608 76: 2,807,043 78: 2,795,005 80: 2,783,492 82: 2,779,050 2,791,793 2,799,888 85: 2,784,443 2,787,019 2,797,431 2,805,441 86: 2,775,781 2,807,044 2,808,609 87: 2,784,444 2,801,438 2,811,739 87.4: 2,796,625 2,812,534 2,815,526 94: 2,790,197 2,796,626 95: 2,798,246 96: 2,778,051 97: 2,783,493 105: 2,775,782 2,784,445 2,786,227 2,816,317 110: 2,777,154 2,798,247 2,798,248 2,800,680 111: 2,803,849 116: 2,782,454 2,787,805 2,815,527 117: 2,803,032 121: 2,796,627 124: 2,783,494 2,793,386 125: 2,807,827 128: 2,782,455 2,790,198 129: 2,781,542 130: 2,778,052 131: 2,786,228 133: 2,779,966 137: 2,797,432 2,813,293 2,813,294 139: 2,775,783 140: 2,779,051 2,794,206 2,799,889 2,812,535 2,815,528 141: 2,812,536 2,812,537 142: 2,799,042 2,803,850 2,811,740 2,812,538 144: 2,798,249 2,803,033 146: 2,791,794 2,807,823 147: 2,796,623 2,817,870 150: 2,796,629 153: 2,810,152 159: 2,794,207 162: 2,808,610 163: 2,779,967 2,807,829 2,813,295 164: 2,777,155 166: 2,793,387 169: 2,780,830 2,786,229 2,787,433 2,817,871 171: 2,778,053 2,790,992 2,793,388 2,794,208 172: 2,799,890 174: 2,798,250 177: 2,803,611 178: 2,804,641	16— 179: 2,777,156 2,815,529 180: 2,781,543 2,783,495 2,799,891 2,803,034 2,810,153 2,812,539 184: 2,797,434 190: 2,777,157 2,805,442 2,816,318 191: 2,811,741 197: 2,776,447 2,786,230 2,786,231 2,791,795 2,792,588 2,793,389 2,796,630 2,813,296 2,817,872 198: 2,782,456 2,795,810 2,797,435 201: 2,792,589 202: 2,776,448 2,791,796 17— 1: 2,775,784 2,778,054 2,779,968 2,784,446 2,785,434 2,791,797 2,795,811 2,798,251 2,799,892 2,800,681 2,802,234 2,809,391 2,815,530 2: 2,778,055 2,781,544 2,784,447 2,785,435 2,789,309 2,794,209 2,816,319 3: 2,775,785 4: 2,799,043 2,803,035 2,806,245 5: 2,795,812 6: 2,808,612 7: 2,785,436 2,792,590 2,793,390 2,795,006 2,810,154 2,817,110 8: 2,795,813 2,795,814 2,813,297 2,808,613 9: 2,779,052 11: 2,785,437 2,787,020 2,787,806 2,791,798 2,793,391 2,793,392 2,795,815 2,807,046 2,810,926 2,811,742 2,812,540 2,814,063 11.1: 2,777,158 2,805,443 11.2: 2,790,199 2,810,927 11.3: 2,790,200 12: 2,787,807 2,793,393 23: 2,775,786 2,789,310 25: 2,806,246 2,816,320 26: 2,802,235 2,807,055 2,811,743 28: 2,791,799 32: 2,784,448 2,787,808 2,793,394 2,795,816 2,799,044 2,799,893 2,806,247 2,808,614 2,810,155 2,817,873 34: 2,776,449 2,780,831	17— 34: 2,807,830 39: 2,794,210 2,805,444 43: 2,791,800 2,803,036 2,814,826 44.1: 2,797,436 2,817,111 44.2: 2,803,037 44.3: 2,790,993 45: 2,777,159 2,782,457 2,783,496 2,784,449 2,784,450 2,795,817 2,808,615 2,813,298 18— 1: 2,778,056 2,778,057 2,779,053 2,782,458 2,782,459 2,786,232 2,795,818 2,799,894 2,802,236 2,803,038 2,804,642 2,810,156 2,812,541 2,813,299 2,814,069 2: 2,779,054 2,779,055 2,789,311 2,801,439 2,803,039 2,804,643 2,807,047 2,813,300 2,814,827 2,815,531 2.4: 2,790,201 2,795,819 2.5: 2,793,395 2,810,157 2,810,158 2.6: 2,784,451 2,807,048 2,808,616 2,814,828 4: 2,775,787 2,776,450 2,779,056 2,780,832 2,791,801 2,806,248 2,817,875 5: 2,779,969 2,781,545 2,784,452 2,789,313 2,789,313 2,790,994 2,792,591 2,794,211 2,799,045 2,804,644 2,806,249 2,810,928 5.3: 2,811,744 2,817,112 6: 2,782,460 2,782,461 2,783,497 2,789,314 8: 2,777,160 2,812,542 2,777,161 2,778,058 2,780,833 2,787,021 2,788,542 2,789,315 2,789,316 2,791,802 2,793,396 2,798,252 2,799,895 2,800,682 2,801,440 2,803,851 2,804,645 2,804,646 2,807,831 2,815,532 10: 2,776,451 2,776,452 2,786,233 2,803,040 2,809,392 2,811,745	18— 11: 2,796,631 12: 2,775,788 2,780,834 2,783,498 2,783,499 2,784,453 2,785,438 2,787,022 2,796,632 2,798,253 2,799,046 2,799,047 2,799,896 2,802,237 2,802,238 2,803,041 2,805,445 2,807,832 2,810,159 2,813,301 2,813,302 2,814,070 2,817,876 13: 2,778,059 2,779,970 2,779,971 2,790,202 2,791,803 2,794,213 2,800,683 2,807,833 2,808,617 2,809,393 2,811,746 14: 2,780,835 2,788,543 2,801,441 2,803,042 2,805,446 2,814,071 2,817,113 15: 2,806,250 2,815,533 2,817,114 16: 2,792,592 2,797,437 2,801,442 2,803,852 2,807,049 2,809,394 2,809,395 2,812,543 2,814,829 16.5: 2,777,162 2,791,804 2,796,633 2,800,684 16.7: 2,810,929 2,775,789 17: 2,778,060 2,779,057 2,790,995 2,790,996 2,798,254 2,802,239 2,808,618 2,810,930 2,812,544 2,812,545 2,812,546 2,814,072 18: 2,777,163 2,778,061 2,791,805 2,793,397 2,795,007 2,797,438 2,801,443 2,806,251 2,808,619 2,809,396 2,812,547 2,814,073 2,814,830 2,817,877 19: 2,783,500 2,788,544 2,792,593 2,804,647 2,814,074 20: 2,798,255 2,803,853 2,808,620 2,813,303 21: 2,799,048 26: 2,790,997 2,806,252 2,811,747 27: 2,779,058 30: 2,777,164 2,778,062 2,779,059 2,779,972 2,780,836
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18— 30: 2,781,546 2,781,547 2,785,439 2,786,284 2,790,203 2,790,204 2,792,594 2,796,256 2,799,049 2,801,444 2,803,854 2,804,648 2,804,649 2,805,447 2,807,050 2,814,831 2,816,321 2,817,115	18— 54: 2,792,280 2,792,281 2,796,319 2,805,119 2,809,090 2,811,409 2,811,410 2,813,775 2,813,776 2,814,550 2,816,004 54.7: 2,799,052 2,799,053 2,814,076 55: 2,781,551 2,781,552 2,783,503 2,787,023 2,788,546 2,790,206 2,791,806 2,795,821 2,798,257 2,798,258 2,798,259 2,799,897 2,804,654 2,807,051 2,810,162 2,810,934 2,811,750 2,817,118 2,790,908 55.1: 2,799,054 2,777,165 2,779,976 2,784,457 2,801,897 2,790,207 2,790,999 2,796,634 2,814,077 57: 2,784,630 2,791,000 2,803,043 58: 2,808,623 2,812,551 2,815,534 2,817,878 58.3: 2,785,442 58.6: 2,806,257 59: 2,776,453 2,777,166 2,780,837 2,786,237 2,786,238 2,787,024 2,789,318 2,791,807 2,795,009 2,795,822 2,796,635 2,809,399 2,810,935 2,814,835 2,816,323 59.2: 2,815,535 59.3: 2,778,064 59.5: 2,783,504 60: Re.24,351 2,781,553 2,805,448 2,814,836 2,781,554 2,784,458 2,797,444 59.6: 2,795,010 2,797,443 2,801,446 2,801,447 2,802,240 2,804,651 2,804,652 2,806,255 2,810,933 2,812,550 2,814,075 2,817,117	19— 93: 2,816,324 96: 2,789,319 2,810,163 98: 2,795,012 105: 2,817,120 106: 2,788,547 109: 2,779,053 112: 2,816,325 115: 2,785,443 116: 2,786,239 2,781,556 2,802,241 120: 2,807,052 130: 2,797,445 2,798,259 2,810,164 2,812,553 131: 2,777,168 2,780,546 2,794,214 2,813,307 134: 2,794,215 2,814,838 135: 2,777,169 2,783,505 2,787,025 2,799,320 2,793,400 2,801,448 2,811,751 2,813,008 2,815,539 2,801,449 136: 2,807,053 2,810,938 139: 2,804,656 2,787,026 140: 2,787,811 2,787,993 142: 2,778,066 2,806,258 2,812,554 143: 2,811,752 2,816,326 143.5: 2,810,165 2,810,939 144.5: 2,798,260 2,799,055 2,795,824 145: 2,816,327 146: 2,777,170 148: 2,817,879 155: 2,810,940 156: 2,807,054 2,812,555 2,780,841 159: 2,783,506 2,799,056 2,816,328 165: 2,795,013 2,800,686 2,813,309 166: 2,811,753 2,799,057 2,778,457 20— .5: 2,780,842 2,813,310 1: 2,777,171 2,780,843 2,815,539 1.11: 2,787,027 2,803,855 1.12: 2,791,002 2,802,242 1.126: 2,815,541 2,817,121 2,817,122 1.13: 2,815,540 1.2: 2,776,456 1.7: 2,779,064 2,775,794 2,780,844 2,782,465 2,787,028 2,791,003 2,793,401 2,793,402 2,795,014 2,797,446 2,803,856 2,816,329 3.5: 2,816,330 4: 2,777,172 2,779,065 2,779,066 2,781,557 2,781,558 2,782,464 2,783,507 2,787,029 2,787,812 2,787,813 2,789,321 2,790,209	20— 4: 2,792,595 2,793,403 2,794,216 2,795,825 2,796,636 2,804,657 2,807,056 2,810,166 2,815,542 2,817,123 2,817,124 5: 2,796,637 6: 2,789,322 7: 2,807,057 8: 2,817,125 9: 2,803,045 10: 2,807,834 11: Re.24,285 2,781,559 2,791,004 2,802,243 2,810,941 2,814,841 2,813,311 12: 2,776,458 2,786,067 2,806,259 2,779,978 15: 2,779,979 2,796,638 2,797,447 2,797,448 2,797,449 2,799,058 2,799,899 2,808,624 2,814,840 16: 2,777,173 2,790,210 2,807,835 2,808,625 18: 2,802,244 19: 2,786,240 2,791,005 2,791,006 2,791,808 2,792,596 2,807,058 2,815,543 24: 2,799,900 25: 2,807,836 27: 2,813,508 35: 2,780,845 2,782,465 2,786,241 2,791,809 2,797,450 2,798,261 2,798,262 2,799,059 2,799,901 2,805,450 2,807,837 2,809,402 2,816,331 2,817,880 36: 2,791,007 38: 2,779,980 2,786,242 2,787,030 2,795,015 40: 2,777,174 2,794,217 2,804,658 40.5: 2,779,067 2,799,902 42: 2,779,068 2,784,459 2,790,211 2,790,212 2,791,810 2,795,016 2,798,263 2,799,903 2,807,059 48: 2,776,459 49: 2,778,068 2,784,460 2,796,639 2,816,332 50: 2,785,444 2,802,245 52: 2,775,795 2,775,796 2,775,797 2,784,461 2,789,323 2,800,687 2,802,246 52.2: 2,777,175 2,778,069 2,782,466 2,792,597 2,799,060 2,807,060 2,807,838	20— 52.2: 2,813,312 2,815,544 52.4: 2,779,981 2,782,467 2,817,126 53: 2,779,069 2,781,560 2,793,404 2,795,017 2,805,451 2,811,754 2,812,556 2,812,557 55: 2,775,798 2,807,839 2,814,078 56.4: 2,780,846 2,794,218 2,803,857 2,812,558 2,813,313 2,814,841 56.5: 2,778,070 2,784,462 2,787,031 2,795,018 2,805,452 57.5: 2,776,460 2,778,071 2,779,982 2,780,847 2,780,848 2,784,463 2,785,445 2,788,548 2,788,549 2,788,550 2,789,324 2,791,008 2,791,009 2,791,010 2,792,598 2,795,826 2,797,451 2,797,452 2,804,659 2,804,660 2,806,260 2,807,061 2,811,755 2,814,079 2,814,842 61: 2,777,176 2,808,626 62: 2,776,461 2,785,446 2,786,243 2,787,032 2,796,640 2,798,264 2,799,061 2,807,840 2,813,314 2,815,545 63: 2,807,062 64: 2,779,070 2,788,551 2,794,219 2,794,220 2,799,904 65: 2,792,599 67: 2,786,244 2,802,247 2,813,315 68: 2,797,453 69: 2,773,072 2,781,561 2,787,033 2,790,213 2,790,214 2,793,405 2,793,406 2,794,221 2,795,019 2,799,062 2,799,063 2,801,450 2,805,453 2,807,841 70: 2,787,034 2,791,011 74: 2,779,983 2,787,035 2,796,641 2,803,858 2,806,261 2,811,756 2,812,559 2,817,881 78.3: 2,800,688 2,807,842 78.6: 2,784,464 79: 2,787,036 89: 2,782,468	20— 91: 2,809,403 92: 2,796,642 2,807,063 2,809,404 2,814,080 92.4: 2,775,799 2,793,407 92.5: 2,815,546 94: 2,809,405 101: 2,788,552 2,795,020 21— 2: 2,802,716 2.5: 2,816,812 2.7: 2,793,932 56: 2,812,231 58: 2,809,879 60.5: 2,797,138 2,797,139 2,797,140 2,797,141 61: 2,809,406 77: 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	795, 023	178:	2 805, 459		2 814, 087		2 807, 857		2 800, 701		2 803, 053
	800, 695	191:	2 779, 077	265:	2 791, 018		2 810, 182	81:	2 794, 239	102:	2 788, 566
	2 813, 320		2 783, 517		2 807, 855		2 814, 849		2 805, 465	103:	2 778, 091
5:	2 787, 818	197:	2 784, 472		2 810, 179		2 816, 347	82:	2 776, 465		2 782, 489
	2 787, 819		2 807, 852		2 811, 766	157:	2 779, 082		2 786, 258		2 782, 490
6:	2 784, 469	199:	2 808, 633		2 778, 085	26— 2:	2 778, 477		2 788, 563		2 783, 527
10:	2 812, 563	201:	2 777, 181	268:	2 803, 866	7:	Re. 24.316		2 796, 566		2 785, 567
11:	2 791, 015		2 794, 227	269:	2 816, 342	18. 5:	2 792, 615		2 798, 283		2 788, 568
13:	2 793, 413		2 794, 228	271:	2 775, 806		2 792, 616		2 814, 851		2 810, 189
18:	2 782, 479		2 797, 463	279:	2 787, 039		2 798, 280		2 816, 349		2 810, 190
23:	2 779, 986		2 810, 944		2 806, 276	51. 4:	2 795, 029	29— 1:	2 782, 486	105:	2 778, 092
	2 795, 025	203:	2 809, 411		2 816, 343	55:	2 812, 568		2 788, 564		2 780, 558
	2 816, 337	204:	2 803, 865		2 817, 136	57:	2 799, 913		2 809, 418		2 785, 456
27:	2 793, 414	205:	2 784, 473	280:	2 795, 835		2 813, 325	1. 1:	2 810, 185		2 805, 467
	2 810, 943	205. 1:	2 800, 699	281:	2 777, 184	62:	2 787, 822	1. 22:	2 782, 487		2 805, 468
	2 816, 338	205. 11:	2 784, 474	282:	2 778, 086	68:	2 791, 021		2 815, 560		2 835, 469
	2 817, 129		2 792, 610	283:	2 810, 180	69:	2 777, 186	1. 23:	2 792, 618		2 814, 854
33:	2 814, 845		2 794, 229	284:	2 811, 767	27— 6:	2 804, 675	1. 3:	2 805, 466		2 816, 352
38:	2 801, 452		2 806, 274	285:	2 787, 040	7:	2 811, 768		2 780, 555	106:	2 785, 457
	2 814, 846		2 814, 847	286:	2 816, 344	8:	2 816, 344	6:	2 790, 227	115:	2 801, 460
49:	2 790, 221	205. 13:	2 790, 223	287:	2 785, 455	14:	2 785, 455	18:	2 787, 046	116:	2 815, 563
66:	2 777, 179		2 791, 017	288:	2 810, 181	15:	2 810, 181	21:	2 814, 089	118:	2 784, 484
	2 779, 984		2 798, 274	289:	2 813, 324	26:	2 813, 324	25. 12:	2 791, 022	119:	2 784, 093
	2 781, 566		2 798, 275	290:	2 779, 989	27:	2 779, 989		2 791, 023	120:	2 801, 461
	2 784, 470	205. 14:	2 779, 078		2 789, 332		2 792, 613	25. 13:	2 806, 279	121:	2 804, 678
	2 796, 646		2 785, 452	30:	2 789, 333		2 793, 417		2 813, 327	123:	2 800, 704
68:	2 798, 270		2 786, 250		2 794, 231		2 795, 838	25. 14:	2 784, 480		2 814, 855
	2 802, 248		2 799, 070		2 795, 026	26:	2 817, 138		2 786, 259		2 780, 859
69:	2 787, 038		2 810, 945		2 795, 027	27:	2 802, 253		2 795, 840	128:	2 780, 859
72. 5:	2 779, 985		2 811, 764	36:	2 800, 700	32:	2 781, 571	25. 16:	2 786, 260	130:	2 812, 571
73:	2 777, 180		2 817, 890	38:	2 786, 252	35:	2 783, 523		2 814, 090	131:	2 794, 240
	2 780, 850	205. 15:	2 779, 988	39:	2 786, 253		2 806, 278	25. 17:	2 790, 228	148. 4:	2 783, 528
	2 783, 512		2 782, 481	41:	2 779, 080		2 810, 947		2 795, 032		2 784, 485
	2 783, 513		2 788, 557		2 781, 570	1:	2 783, 524	25. 18:	2 795, 033		2 792, 619
	2 783, 514		2 790, 224		2 786, 254		2 786, 256	25. 19:	2 807, 866		2 796, 658
	2 784, 471		2 792, 611		2 787, 041		2 793, 418	25. 2:	2 808, 636	149. 5:	2 787, 048
	2 786, 249		2 794, 230		2 788, 558		2 801, 455	25. 3:	2 816, 350		2 804, 679
	2 791, 016		2 799, 909		2 789, 335	2:	2 812, 569		2 784, 479		2 814, 856
	2 795, 024		2 807, 853		2 792, 614	5:	2 807, 859		2 810, 951	155:	2 798, 284
	2 796, 647		2 809, 412		2 798, 278	15:	2 810, 183		2 813, 326		2 805, 470
	2 798, 271		2 810, 174		2 799, 071		2 807, 854		2 814, 852	155. 5:	2 777, 192
	2 800, 696	205. 16:	2 796, 649		2 810, 946		2 802, 254		2 814, 853		2 777, 193
	2 803, 048		2 804, 669	45:	2 804, 671		2 802, 255	25. 35:	2 777, 188		2 779, 993
	2 805, 457	205. 17:	2 795, 831	80:	2 817, 891		2 803, 051		2 784, 481		2 782, 491
	2 817, 131		2 817, 887	99:	2 804, 672		2 817, 139		2 787, 520		2 782, 492
	2 817, 132	207:	2 813, 321	103:	2 789, 336	17:	2 779, 084	25. 42:	2 802, 256		2 787, 824
	2 817, 888	211:	2 798, 276	105:	2 805, 461		2 781, 572		2 814, 091		2 792, 620
74:	2 807, 849	213:	2 807, 068	109:	2 794, 232	19:	2 795, 030	33:	2 776, 466		2 793, 420
75:	2 803, 864		2 809, 413	118:	2 776, 463	22:	2 788, 562		2 777, 189		2 800, 705
	2 807, 066	216:	2 796, 650		2 783, 520		2 814, 850		2 782, 488		2 803, 054
77:	2 790, 222		2 799, 910		2 786, 255	28:	2 789, 339		2 783, 525		2 804, 680
	2 800, 697		2 817, 134		2 787, 042		2 794, 236		2 793, 419		2 805, 471
	2 809, 408	217:	2 785, 453		2 791, 019		2 795, 839		2 800, 702	155. 54:	2 795, 841
81:	2 783, 515		2 816, 340		2 793, 416	32:	2 786, 257	34:	2 804, 677		2 807, 867
	2 795, 829	218:	2 786, 251		2 795, 836		2 807, 860	37:	2 788, 565	155. 55:	2 776, 467
	2 799, 907		2 807, 069		2 797, 466	35:	2 797, 468		2 791, 822		2 802, 257
	2 800, 698	221:	2 797, 464		2 798, 279	45:	2 779, 991		2 799, 075		2 807, 868
	2 801, 453		2 798, 277		2 799, 072		2 807, 861	41:	2 783, 526		2 808, 639
	2 802, 249		2 807, 854		2 809, 414		2 787, 044	45:	2 799, 076	155. 57:	2 807, 869
	2 806, 273		2 811, 765		2 817, 137		2 791, 820	46:	2 777, 190	156. 4:	2 786, 261
	2 808, 631		2 816, 341	121:	2 787, 043		2 814, 088	47:	2 799, 076		2 778, 095
	2 810, 171		2 817, 135		2 799, 073	64:	2 808, 634	66:	2 801, 457	156. 8:	2 786, 262
	2 810, 172	222:	2 788, 558		2 783, 521		2 803, 052	67:	2 796, 657		2 787, 049
	2 810, 173	227:	2 778, 082	122:	2 807, 070		2 778, 090	68:	2 815, 561		2 788, 569
84:	2 794, 225	230:	2 784, 475	123:	2 777, 185	72:	2 790, 225	69:	2 775, 808		2 799, 918
	2 802, 250		2 802, 251	124:	2 814, 848		2 795, 031		2 781, 573		2 799, 919
85:	2 792, 607	230. 5:	2 795, 832	126:	2 794, 233		2 796, 654		2 791, 823		2 800, 706
	2 815, 553		2 805, 460	130:	2 799, 911		2 796,				

29—157.3:	2,779,086	29— 407:	2,775,812	30— 4:	2,794,245	30— 117:	2,776,479	30— 318:	2,787,058	33— 1:	2,781,581
	2,795,035		2,816,354		2,803,057	123:	2,775,815		2,798,292		2,791,836
	2,807,074	413:	2,792,623		2,803,871		2,786,271	320:	2,783,537		2,795,046
159.01:	2,779,994	414:	2,807,874		2,806,280		2,787,055		2,788,574		2,795,851
	2,816,353	420:	2,815,567		2,810,952		2,795,043	321:	2,810,194		2,799,087
159.2:	2,804,681	420.5:	2,792,624	6.1:	2,775,814		2,807,085	324:	2,778,109		2,803,061
160.6:	2,793,422		2,793,427		2,784,488		2,810,954		2,803,059		2,804,687
163.5:	2,778,096		2,794,241		2,788,572	124:	2,776,480		2,809,426		2,808,649
182:	2,796,660	421:	2,799,084		2,799,922		2,810,192		2,810,957		2,813,338
182.1:	2,801,462	423:	2,798,286		2,814,102		2,814,868		2,812,577		2,813,339
182.3:	2,799,080		2,807,875	8.5:	2,814,103		2,814,869	327:	2,810,958		2,814,115
182.5:	2,776,468		2,814,861	9:	2,802,258	129:	2,783,535	339:	2,802,265	2:	2,784,491
	2,783,529	428:	2,808,642		2,776,476	130:	2,779,097		2,814,112		2,806,286
	2,783,530	429:	2,794,242		2,776,477	132:	2,780,001	342:	2,787,059		2,813,340
	2,789,341		2,812,574		2,786,268	133:	2,807,086	351:	2,794,252		2,814,116
	2,805,473	430:	2,779,092	11:	2,786,269	134:	2,798,289	355:	2,799,930	3:	2,778,112
	2,807,075	433:	2,801,463	15.5:	2,804,682	138:	2,791,831	356:	2,809,427		2,782,504
	2,807,076	441:	2,779,093	16:	2,778,102	139:	2,790,235	31— 5:	2,782,502		2,784,492
	2,814,857	443:	2,814,862		2,778,103	142:	2,799,086		6: 2,798,293		2,793,439
182.7:	2,791,025	445:	2,779,094		2,787,052		2,811,775		7: 2,803,878		2,807,088
184:	2,792,621	450:	2,782,495		2,802,259		2,811,776		10: 2,815,573	5:	2,816,361
187:	2,812,573		2,795,036		2,804,683		2,814,870		11: 2,802,266	8:	2,795,852
191.2:	2,814,095		2,795,037	17:	2,801,464	143:	2,806,282		13: 2,809,428	9:	2,790,239
193.5:	2,778,097		2,797,473	19:	2,780,861	151:	2,783,536		14: 2,787,832		2,792,631
	2,770,860		2,803,056	23:	2,817,896		2,784,489		17: 2,802,267		2,797,484
194:	2,793,423		2,813,331	24:	2,797,478		2,793,434		2,814,113		2,800,716
195:	2,784,486	451:	2,793,428		2,815,570	152:	2,798,290	20:	2,799,931	11:	2,814,878
	2,799,081	452:	2,776,471	28:	2,799,923		2,814,106	21:	2,810,195	12:	2,795,047
196.2:	2,782,493		2,811,773	29.5:	2,783,533		2,814,107	22:	2,813,336		2,813,341
196.6:	2,817,141	453:	2,792,625		2,801,465		2,814,108	25:	2,783,538	13:	2,778,113
197:	2,800,707	454:	2,779,095	30:	2,778,104		2,814,109	37:	2,791,834		2,778,114
198:	2,775,809	458:	2,777,194		2,791,829	155:	2,777,195	48:	2,814,114	16:	2,780,003
200:	2,809,421		2,779,997		2,810,953		2,779,098	89:	2,803,529	18:	2,777,199
202:	2,779,995		2,795,844		2,814,865	159:	2,803,646	2:	2,775,816		2,777,200
205:	2,808,640	460:	2,795,038	31:	2,782,499		2,782,501	32— 2:	2,776,485		2,810,960
	2,814,096	468:	2,799,085		2,790,240	164.9:	2,785,462		2,778,110		2,799,088
	2,815,564	469:	2,782,496		2,793,429		2,805,475		2,784,490	20:	2,791,031
206:	2,786,263		2,791,826	32:	2,780,862		2,814,871		2,790,237	21:	2,813,342
211:	2,790,231		2,816,355		2,789,346	166:	2,817,899		2,799,932		2,813,343
	2,795,842	470.3:	2,779,998		2,794,246		2,817,899		2,803,879	23:	2,777,201
	2,803,870		2,795,039		2,800,713	167:	2,814,110		2,817,900		2,789,354
219:	2,805,474	470.5:	2,785,459	34:	2,780,863	168:	2,780,867	5:	2,781,579		2,796,065
220:	2,798,285	470.9:	2,786,265		2,785,461	170:	2,787,056		2,781,580		2,809,431
225:	2,707,077	471.1:	2,791,827		2,791,830	171:	2,791,027		2,789,350		2,809,432
227:	2,779,037	471.5:	2,782,497		2,804,684	180:	2,776,481		2,797,482	24:	2,807,878
	2,811,772		2,813,332		2,807,876	186:	2,791,028		2,798,294	25:	2,782,505
229:	2,779,088		2,813,333		2,812,575	200:	2,780,868	8:	2,792,628	27:	2,781,582
	2,792,622	47.3:	2,794,243	40:	2,799,924	201:	2,778,106		2,793,436		2,800,717
	2,795,843		2,800,709		2,808,644		2,778,107		2,808,648		2,804,688
	2,799,082	473.1:	2,776,472		2,812,576		2,795,848	9:	2,808,648		2,810,961
	2,807,078		2,800,710	41:	2,780,864		2,802,263	10:	2,778,111		2,817,902
	2,814,097	475:	2,776,473		2,786,270	206:	2,794,248		2,798,295		2,817,903
	2,814,858		2,786,266		2,787,053	208:	2,789,347	12:	2,799,933	28:	2,778,115
	2,814,859	477.7:	2,776,474		2,790,234	210:	2,790,236	14:	2,789,351	31:	2,810,962
234:	2,817,142		2,787,827		2,811,774	228:	2,799,928	15:	2,802,268	32:	2,812,579
235:	2,779,996		2,816,356	41.5:	2,802,260		2,810,955	17:	2,802,269	34:	2,814,117
	2,781,575	480:	2,817,144	43:	2,783,534		2,814,872	19:	2,776,486	41:	2,786,274
	2,781,576	481:	2,794,244		2,787,829	229:	2,794,249		2,792,629		2,791,837
	2,785,458	484:	2,778,099		2,787,830	230:	2,776,482	20:	2,794,253	42:	2,776,491
	2,796,661	487:	2,817,893		2,793,430		2,800,715		2,806,284		2,782,506
	2,803,871	488:	2,807,082		2,794,247	231:	2,779,099	23:	2,810,196	46:	2,786,275
	2,807,079	492:	2,781,577		2,795,042	232:	2,788,573	24:	2,796,664		2,795,853
236:	2,776,469	494:	2,795,040		2,797,479	233.5:	2,789,348	25:	2,801,469		2,797,485
237:	2,793,424		2,800,711		2,797,480		2,809,429	26:	2,793,437		2,798,296
240:	2,815,565	495:	2,816,357		2,798,287	239:	2,816,359	27:	2,785,464		2,817,147
251:	2,807,080		2,817,894		2,799,925	242:	2,797,481		2,791,835	47:	Re.24,313
252:	2,776,470		2,817,895		2,801,466	247:	2,810,956		2,792,630		2,781,583
	2,789,342	497:	2,784,487		2,802,261	248:	2,777,196		2,799,934		2,795,048
254:	2,807,081	497.5:	2,782,498		2,803,874		2,791,832		2,806,285		2,809,433
	2,779,089		2,809,422		2,806,281		2,795,044	28:	2,776,487		2,815,574
	2,808,641	498:	2,779,999		2,808,645	252:	2,803,058		2,776,488	48:	2,814,118
255:	2,805,641	501:	2,809,423		2,809,424	253:	2,808,647		2,788,576	50:	2,775,817
256:	2,797,470	505:	2,815,568		2,814,866	254:	2,794,250		2,788,577		2,777,202
259:	2,789,343	506:	2,797,474		2,815,571		2,801,467	32:	2,786,272		2,778,116
261:	2,817,143	508:	2,795,041		2,816,358		2,801,468		2,788,575		2,782,507
267:	2,779,090		2,808,643	48:	2,787,831	263:	2,795,849		2,797,483		2,782,508
	2,807,872	509:	2,778,100	50:	2,807,084	266:	2,791,833		2,801,470		2,782,509
	2,814,098	510:	2,807,083	53:	2,780,865	269:	2,798,291		2,816,360		2,782,510
268:	2,797,471	528:	2,797,476		2,817,897	272:	2,781,578	33:	2,809,429		2,782,511
	2,814,860	530:	2,814,100	59:	2,793,431	276:	2,776,483	35:	2,776,489		2,790,241
269:	2,807,873	534:	2,780,000	60.5:	2,780,866	278:	2,814,874	40:	2,776,490		2,800,718
271:	2,799,083		2,814,863		2,793,432	280:	2,785,463		2,795,850		2,803,880
275:	2,788,571	535:	2,778,101		2,795,846		2,804,686		2,799,935		2,806,287
	2,800,708		2,789,344	61:	2,776,478		2,807,877		2,810,959		2,810,963
282:	2,813,330	536:	2,799,921	63:	2,799,926	263:	2,795,849	46:	2,787,833	52:	2,799,936
286:	2,775,810	543:	2,776,475	66:	2,799,927	266:	2,791,833	58:	2,789,352	56:	2,783,539
	2,787,825	545:	2,815,569	70:	2,795,847	269:	2,798,291		2,793,438		2,785,465
	2,796,662	550:	2,783,532	73:	2,817,146	272:	2,781,578		2,814,877		2,792,632
287:	2,817,892	552:	2,786,267	90:	2,804,685	276:	2,776,483	61:	2,777,198		2,794,256
288:	2,779,091	552.2:	2,814,101	91:	2,778,105	278:	2,814,874	63:	2,782,503	58:	2,777,203
	2,783,531	553:	2,787,828		2,803,875	280:	2,785,463		2,786,273		2,806,288
	2,787,826	556:	2,792,627	92:	2,793,433		2,807,877		2,790,238		2,817,904
	2,793,425		2,810,191	94:	2,814,867	296:	2,789,349		2,791,030	64:	2,796,666
	2,793,426	30— 1:	2,775,813	99:	2,782,500	297:	2,802,264		2,794,254		2,814,879
	2,799,920		2,800,712	100:	2,795,848	300:	2,778,108		2,805,477	69:	2,807,089
	2,803,872	2:	2,795,845	102:	2,787,054	301:	2,799,929		2,811,777	70:	2,813,344
	2,815,566		2,797,477		2,796,663	303:	2,813,335	67:	2,817,901	71:	2,785,466
289:	2,791,232		2,814,864		2,817,898						

33— 75: 2,796,667	33— 149: 2,792,633	33— 178: 2,815,578	33— 207: 2,789,363	34— 80: 2,789,369	35— 10. 4: 2,799,950
2,803,881	2,808,651	2,801,475	2,794,263	82: 2,782,526	2,809,445
2,807,879	2,809,437	2,777,209	2,806,296	2,795,055	2,811,789
76: 2,799,937	153: 2,794,259	2,778,119	2,807,887	2,809,442	2,815,587
2,815,575	162: 2,807,881	2,780,006	2,816,368	2,814,130	2,817,909
2,817,905	163: 2,797,490	2,780,007	2,807,888	2,817,157	2,814,131
77: 2,807,977	2,802,274	2,787,060	2,789,364	83: 2,783,549	11: 2,784,501
2,810,197	2,805,483	2,792,636	2,789,365	85: 2,792,641	12: 2,787,842
2,784,493	2,806,292	2,786,672	2,804,692	2,795,056	2,788,589
2,804,691	2,816,363	2,800,721	2,814,127	86: 2,777,212	2,793,445
2,805,479	165: 2,798,298	2,802,277	2,792,638	2,804,694	2,798,306
85: 2,788,579	166: 2,791,034	2,810,965	2,810,206	87: 2,779,103	2,803,893
2,800,719	167: 2,788,580	2,815,579	2,813,349	2,802,283	2,804,698
2,802,270	168: 2,788,581	2,815,580	2,816,369	2,810,967	2,808,658
2,806,290	2,789,356	2,815,581	2,782,524	90: 2,775,824	2,808,659
2,809,434	2,792,634	2,791,841	2,812,036	2,776,496	2,809,446
2,811,778	2,817,151	2,786,673	2,812,090	2,776,497	2,810,210
86: 2,785,467	169: 2,783,542	2,797,494	2,805,489	2,780,876	2,817,161
88: 2,797,486	2,791,839	2,797,495	2,814,128	2,799,948	13: 2,780,012
2,805,480	2,797,491	2,798,300	2,782,525	2,817,158	14: 2,808,660
2,810,198	2,807,882	2,805,486	2,803,887	2,798,304	17: 2,778,125
89: 2,803,062	2,814,122	2,807,885	2,791,037	2,813,354	18: 2,796,682
95: 2,782,513	170: 2,782,517	2,808,653	2,795,053	92: 2,808,657	19: 2,796,683
102: 2,777,204	2,814,123	2,811,783	2,803,067	93: 2,810,208	23: 2,811,591
2,802,271	2,814,884	2,813,347	2,784,498	95: 2,804,695	24: 2,811,790
104: 2,814,580	2,816,364	2,814,125	2,796,676	99: 2,807,891	25: 2,795,057
107: 2,790,242	172: 2,777,207	2,815,582	2,786,279	2,782,527	29: 2,801,476
2,789,938	2,780,871	2,815,583	2,800,723	103: 2,807,892	30: 2,789,371
109: 2,789,355	2,787,836	2,816,366	2,808,656	104: 2,804,696	31: 2,795,862
2,800,720	2,787,837	2,776,494	2,803,068	105: 2,785,479	2,797,499
110: 2,791,838	2,793,441	2,778,120	2,802,279	107: 2,788,586	2,803,669
112: 2,797,487	2,799,940	2,780,872	2,811,786	109: 2,780,019	35: 2,775,827
121: 2,785,468	2,799,941	2,781,586	1: 2,781,588	2,810,968	14: 2,808,660
2,817,148	2,810,202	2,782,518	5: 2,813,350	2,779,104	17: 2,778,125
122: 2,796,668	2,811,780	2,796,674	8: 2,794,264	2,788,587	18: 2,796,682
123: 2,802,272	2,814,124	2,802,278	2,817,155	2,817,908	19: 2,796,683
2,803,882	173: 2,799,942	2,808,654	9: 2,785,478	2,798,305	23: 2,811,591
125: 2,780,870	2,805,484	2,812,588	2,789,366	2,810,969	24: 2,811,790
2,797,488	174: 2,775,819	2,785,475	2,805,490	2,792,642	25: 2,795,057
2,798,297	2,776,493	2,788,584	2,810,207	2,792,643	29: 2,801,476
2,808,650	2,777,208	2,793,442	2,783,544	2,791,038	30: 2,789,371
2,811,779	2,780,004	2,796,675	2,786,280	125: 2,791,038	31: 2,795,862
2,812,580	2,780,005	2,810,204	2,788,585	130: 2,805,493	35: 2,775,827
126. 4: 2,777,205	2,781,585	2,811,784	2,795,860	133: 2,778,124	14: 2,808,660
2,782,514	2,783,543	2,775,821	2,799,095	2,783,551	17: 2,778,125
126. 7: 2,799,089	2,784,496	2,777,210	2,813,351	2,793,444	18: 2,796,682
129: 2,782,515	2,784,497	2,780,873	2,813,352	2,798,306	19: 2,796,683
2,782,516	2,787,838	2,782,519	2,781,589	2,798,307	23: 2,811,591
2,790,243	2,788,582	2,782,520	2,798,301	2,807,893	24: 2,811,790
130: 2,785,469	2,791,840	2,807,093	2,812,591	2,814,886	25: 2,795,057
2,810,199	2,795,854	2,814,885	15: 2,799,947	134: 2,816,371	29: 2,801,476
131: 2,815,576	2,796,669	2,794,261	18: 2,804,693	143: 2,799,949	30: 2,789,371
132: 2,813,345	2,797,492	2,807,094	20: 2,783,545	2,803,889	31: 2,795,862
133: 2,815,577	2,797,493	2,816,367	21: 2,796,677	147: 2,794,266	35: 2,775,827
134: 2,778,117	2,799,943	2,799,093	31: 2,799,096	150: 2,795,861	14: 2,808,660
2,783,540	2,802,275	2,807,095	32: 2,778,123	151: 2,815,585	17: 2,778,125
2,793,440	2,803,063	2,807,886	35: 2,775,823	152: 2,800,725	18: 2,796,682
2,809,435	2,803,064	2,786,278	2,795,054	155: 2,779,105	19: 2,796,683
2,809,436	2,803,065	2,810,205	39: 2,817,156	156: 2,780,877	23: 2,811,591
135: 2,776,492	2,803,883	2,814,126	41: 2,810,966	157: 2,790,249	24: 2,811,790
2,801,471	2,803,884	2,780,874	2,811,787	159: 2,780,878	25: 2,795,057
137: 2,778,118	2,803,885	2,795,052	43: 2,796,678	160: 2,777,213	29: 2,801,476
2,797,489	2,805,485	2,809,439	45: 2,781,590	2,791,039	30: 2,789,371
138: 2,781,584	2,807,091	2,789,367	2,789,367	2,803,890	31: 2,795,862
2,795,050	2,807,092	2,813,348	2,792,639	2,794,267	35: 2,775,827
2,814,881	2,807,883	2,778,121	2,796,679	2,794,268	14: 2,808,660
141: 2,777,206	2,807,884	2,789,359	2,797,497	2,797,498	17: 2,778,125
2,806,291	2,808,652	2,809,440	2,798,302	173: 2,806,297	18: 2,796,682
2,817,906	2,809,438	2,812,589	2,807,096	181: 2,806,298	19: 2,796,683
143: 2,791,032	2,810,964	2,782,521	2,807,889	202: 2,794,269	23: 2,811,591
2,794,257	2,811,781	2,782,522	2,816,370	207: 2,790,250	24: 2,811,790
2,799,939	2,811,782	2,782,523	2,790,247	2,804,697	25: 2,795,057
2,801,472	2,812,585	2,785,476	2,790,248	2,800,726	29: 2,801,476
2,805,481	2,812,586	2,789,360	2,800,724	210: 2,792,644	30: 2,789,371
2,812,581	2,813,346	2,789,361	2,807,097	214: 2,803,891	31: 2,795,862
2,812,582	2,816,365	2,793,443	2,807,890	216: 2,816,372	35: 2,775,827
2,814,882	2,817,152	2,794,262	2,783,546	229: 2,787,062	14: 2,808,660
2,817,149	177: 2,785,472	2,795,857	2,809,441	2,803,892	17: 2,778,125
144: 2,814,119	2,790,245	2,795,858	2,783,547	232: 2,810,209	18: 2,796,682
147: 2,775,818	2,798,299	2,797,496	2,780,008	242: 2,775,825	19: 2,796,683
2,783,541	178: 2,775,820	2,803,066	2,784,499	35— 4: 2,815,586	23: 2,811,591
2,784,494	2,785,473	2,805,487	2,805,491	5: 2,800,727	24: 2,811,790
2,784,495	2,785,474	2,805,488	2,805,491	6: 2,802,284	25: 2,795,057
2,785,470	2,786,276	2,806,293	2,799,097	8: 2,776,498	29: 2,801,476
2,787,834	2,786,277	2,788,583	2,787,061	9: 2,775,826	30: 2,789,371
2,790,244	2,788,583	2,789,357	2,787,840	2,789,370	31: 2,795,862
2,794,258	2,789,358	2,817,153	2,802,280	2,790,251	35: 2,775,827
2,795,049	2,792,635	2,817,154	2,812,592	2,796,680	14: 2,808,660
2,799,090	2,792,636	201: 2,778,122	2,817,907	2,809,443	17: 2,778,125
2,801,473	2,794,260	203: 2,795,859	58: 2,784,500	2,817,159	18: 2,796,682
2,807,880	2,795,855	203. 13: 2,777,211	2,787,841	10. 2: 2,791,842	19: 2,796,683
2,810,200	2,795,856	203. 15: 2,781,587	2,794,265	2,792,645	23: 2,811,591
2,812,583	2,796,670	2,799,094	2,812,593	2,792,646	24: 2,811,790
2,814,120	2,796,671	203. 18: 2,780,875	60: 2,779,102	2,796,681	25: 2,795,057
2,814,121	2,799,091	204: 2,779,101	62: 2,803,888	2,809,444	29: 2,801,476
2,814,883	2,799,092	2,811,785	65: 2,789,368	2,811,788	30: 2,789,371
2,817,150	2,799,944	2,815,584	2,814,129	2,817,160	31: 2,795,862
148: 2,785,471	2,799,945	205: 2,791,035	73: 2,802,281	10. 4: 2,775,828	35: 2,775,827
2,787,835	2,799,946	205. 5: 2,787,839	75: 2,792,640	2,777,214	14: 2,808,660
2,791,033	2,801,474	2,792,637	76: 2,780,009	2,777,215	17: 2,778,125
2,795,051	2,802,276	2,806,295	79: 2,783,548	2,779,106	18: 2,796,682
2,802,273	2,803,886	206: 2,789,362	2,802,282	2,780,011	19: 2,796,683
2,805,482	2,810,203	207: 2,776,495	2,813,353	2,783,552	23: 2,811,591
2,812,584	2,812,587	2,785,477		2,788,588	24: 2,811,790

36—	35: 2,807,100 36: 2,776,502 2,802,285 2,806,302 2,807,101 37: 2,814,132 42: 2,795,867 2,798,313 44: 2,784,502 2,808,663 2,809,450 46.5: 2,780,879 52: 2,800,729 58.5: 2,776,503 2,817,164 58.6: 2,787,063 59: 2,784,503 2,787,843 2,803,070 2,817,165 70: 2,779,109 71: 2,779,110 2,782,532 2,783,553 2,786,282 2,790,254 2,791,844 2,791,845 2,803,895 2,807,102 2,814,133 72: 2,804,700 2,808,664 75: 2,789,375 2,810,215 76: 2,811,791 2,817,166 77: 2,795,868 2,814,888 78: 2,775,829 2,784,504 2,789,376 2,795,869 2,807,103 37— 2: 2,776,504 2,779,111 2,806,303 2,808,665 2,814,134 8: 2,791,041 9: 2,806,304 10: 2,786,283 12: 2,781,592 2,783,554 13: 2,795,870 19: 2,802,286 30: 2,783,555 42: 2,775,830 2,778,126 2,792,650 2,817,910 43: 2,776,505 2,777,217 2,777,218 2,779,112 2,785,482 2,787,064 2,794,271 2,795,871 2,802,287 2,815,590 45: 2,794,272 2,797,502 53: 2,782,533 2,784,505 2,785,483 2,799,952 2,803,071 2,811,792 80: 2,797,503 81: 2,786,284 85: 2,782,534 86: 2,777,219 2,787,844 2,817,167 90: 2,783,556 2,790,255 2,797,504 2,817,911 94: 2,798,314 96: 2,807,104 97: 2,782,535 98: 2,783,557 2,783,558 2,784,506 2,784,507 2,791,042 103: 2,778,127 104: 2,778,128 105: 2,777,220 108: 2,806,305 110: 2,791,043 2,814,889 117.5: 2,787,445 2,790,256	37—117.5: 2,804,701 2,812,595 126: 2,789,377 2,791,044 2,795,872 135: 2,804,702 2,814,890 141: 2,778,129 142: 2,805,496 2,807,105 143: 2,777,221 2,796,685 2,816,375 144: 2,775,831 2,777,222 2,778,130 2,778,131 2,784,508 2,787,065 2,794,273 2,798,315 2,808,666 145: 2,783,559 2,797,505 2,797,506 2,804,703 2,817,168 147: 2,812,596 148: 2,814,891 153: 2,787,066 2,794,274 2,795,060 2,806,306 154: 2,787,846 156: 2,799,099 2,815,591 159: 2,787,847 167: 2,783,560 169: 2,786,285 180: 2,779,113 2,792,651 184: 2,795,061 2,801,969 189: 2,801,479 191: 2,780,014 195: 2,795,873 2,810,216 7: 2,787,848 10: 2,807,894 11: 2,782,536 12: 2,809,451 2,810,970 15: 2,784,509 21: 2,778,132 30: 2,799,100 52: 2,803,896 55: 2,795,874 56: 2,813,557 58: 2,777,223 59: 2,789,378 2,810,217 66: 2,807,895 2,814,135 77: 2,777,224 2,777,225 2,777,226 2,781,593 2,782,537 2,783,561 2,786,286 2,786,287 2,786,288 2,791,045 2,792,652 2,793,448 2,793,449 2,794,275 2,795,062 2,797,507 2,799,101 2,802,288 2,803,079 2,803,072 2,805,497 2,807,896 2,810,218 2,811,793 2,812,598 2,813,558 2,815,592 2,815,593 2,817,912 78: 2,817,169 90: 2,799,102 2,811,794 2,814,136 99: 2,810,971 104: 2,814,137 2,817,170 112: 2,785,484 117: 2,810,972 121: 2,812,599 122: 2,801,480	38— 126: 2,814,892 135: 2,783,562 2,807,106 137: 2,803,897 138: 2,787,849 139: 2,808,667 140: 2,811,795 144: 2,776,506 2,789,379 2,810,219 39— 1: 2,795,875 5: 2,778,133 6: 2,805,498 2,806,307 18: 2,798,316 2,799,103 2,807,107 22: 2,804,704 31: 2,786,289 2,793,450 2,803,898 2,810,220 43: 2,804,705 55: 2,794,276 74: 2,803,899 87: 2,777,227 2,795,063 2,803,074 40— 1: 2,785,485 1.5: 2,795,064 2,795,876 2,797,508 2,781,594 2,785,486 2,798,317 2,799,104 2,802,290 2,811,796 2.2: 2,780,015 2,800,731 2,807,108 3: 2,794,277 2,794,278 2,805,499 4: 2,791,846 10: 2,787,067 2,790,257 2,791,046 2,794,279 2,797,509 2,807,897 2,810,221 2,812,600 2,814,138 2,815,594 10.5: 2,777,228 2,788,592 2,795,877 2,798,318 2,808,668 11: 2,779,114 2,799,953 2,800,732 16: 2,785,487 2,813,559 2,816,376 17: 2,779,115 2,793,451 2,811,797 2,812,601 19.5: 2,813,560 20: 2,796,686 23: 2,815,595 30: 2,791,047 31: 2,800,733 2,803,900 32: 2,788,593 2,793,452 2,794,280 2,799,954 2,810,222 33: 2,798,319 2,808,669 2,810,973 34: 2,795,065 39: 2,797,510 2,803,901 2,810,223 2,817,913 52: 2,794,281 2,814,893 53: 2,777,229 61: 2,777,230 62: 2,799,105 2,808,670 63: 2,797,511 2,805,500 2,814,894 64: 2,787,068 2,802,291 2,805,501 65: 2,787,850 2,807,109 67: 2,798,320	40— 68: Re.24,297 2,785,488 2,787,851 2,798,321 2,803,075 2,804,706 2,812,602 70: 2,783,563 2,787,069 2,787,852 2,809,452 2,805,502 72: 2,795,878 77: 2,805,503 86: 2,787,070 2,788,594 95: 2,795,066 96: 2,781,595 2,782,538 2,783,564 102: 2,779,116 2,795,067 104: 2,780,016 2,785,489 2,786,290 2,791,048 2,791,848 2,791,849 2,794,282 2,799,955 107: 2,788,595 2,791,850 2,797,512 2,803,902 108: 2,807,898 109: 2,786,291 2,814,139 111: 2,782,539 2,812,604 113: 2,810,224 115: 2,815,596 119: 2,787,071 120: 2,783,565 2,787,853 2,796,687 2,798,322 2,810,974 121: 2,801,481 124.1: 2,780,017 2,788,596 2,803,076 2,815,597 125: 2,775,832 2,775,833 2,775,834 2,776,507 2,780,018 2,783,566 2,790,258 2,791,049 2,791,851 2,792,654 2,793,453 2,797,513 2,800,734 2,805,504 2,806,308 2,809,453 2,814,140 2,815,598 126: Re.24,399 2,777,231 2,794,283 2,795,068 2,801,482 2,810,975 2,813,561 2,814,895 128: 2,779,117 129: 2,780,880 2,797,514 2,802,292 2,812,605 2,816,377 130: 2,778,134 2,779,118 2,786,292 2,791,050 2,791,852 2,795,069 2,801,483 2,805,505 2,810,225 2,812,606 2,812,607 2,816,378 2,816,379 131: 2,796,688 132: 2,778,135 2,782,540 2,798,323 2,807,899	40— 132: 2,811,798 2,814,141 2,817,914 2,817,915 133: 2,801,484 2,808,671 135: 2,784,510 138: Re.24,368 2,795,070 139: 2,791,853 2,798,324 2,817,916 140: 2,799,106 142: 2,804,707 2,816,380 145: 2,798,325 152: 2,782,541 2,798,326 2,803,077 2,805,506 2,806,309 2,811,799 2,815,599 2,816,381 152.1: 2,782,542 2,784,511 2,791,051 2,796,689 2,809,454 2,816,382 152.2: 2,807,900 2,800,735 154: 2,800,735 155: 2,776,508 2,777,232 2,790,259 2,795,071 2,810,226 2,814,896 156: 2,785,490 2,798,327 2,807,101 158: 2,796,690 2,817,171 159: 2,799,107 41— 1: 2,776,509 2,776,510 2,776,511 2,799,956 2,804,708 2,810,976 4: 2,782,543 2,787,072 2,806,311 2,814,142 2,815,600 5: 2,806,312 5.5: 2,815,601 9: 2,776,512 2,783,567 2,803,078 10: 2,777,233 2,781,596 2,784,512 2,789,380 2,793,454 2,794,284 2,803,903 2,803,904 2,803,905 2,806,313 2,806,314 2,809,455 2,809,456 2,810,977 11: 2,787,073 2,792,655 12: 2,788,597 13: Re.24,411 2,791,854 14: 2,806,315 2,807,901 15: 2,788,598 2,795,879 2,814,897 21: 2,782,544 2,811,800 22: 2,807,111 2,810,978 24: 2,784,513 25: 2,791,052 34: Re.24,277 2,805,505 2,778,136 2,789,381 2,792,656 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2,803,109

57— 164: 2,780,909	60— 30: 2,812,633	60— 35.6: 2,817,209	60— 51: 2,813,398	60— 97: 2,800,771	62— 3: 2,788,639
2,795,926	32: 2,784,549	2,817,951	52: 2,780,065	2,802,338	2,791,098
58— 6: 2,790,300	2,812,634	37: 2,816,419	2,780,917	2,804,751	2,794,322
16: 2,779,150	35.4: 2,775,863	39.02: 2,783,612	2,780,918	2,804,752	2,795,112
2,798,358	2,778,188	39.03: 2,812,637	2,782,598	2,804,753	2,799,142
21.1: 2,789,410	2,778,189	39.04: 2,777,288	2,782,599	2,805,552	2,799,143
21.12: 2,777,278	2,782,592	39.05: 2,781,635	2,787,887	2,807,142	2,801,523
28: 2,777,279	2,806,348	39.07: 2,787,121	2,790,305	2,807,936	2,807,145
2,789,411	2,810,257	39.08: 2,791,090	2,793,499	2,810,262	2,807,940
2,800,763	35.5: 2,780,913	39.09: 2,787,885	2,793,500	2,811,017	2,817,213
2,817,207	35.54: 2,780,057	2,807,932	2,797,550	2,811,018	4: 2,776,543
30: 2,796,728	2,780,058	2,814,180	2,799,138	2,811,838	2,778,197
34: 2,796,729	2,791,088	39.14: 2,775,865	2,799,139	2,817,211	2,779,162
38: 2,779,151	2,793,493	2,775,866	2,799,993	61— .5: Re.24,318	2,779,163
41: 2,797,545	2,797,547	2,806,351	2,800,769	2,787,125	2,780,072
44: 2,785,528	2,798,362	39.15: 2,776,537	2,803,110	2,803,114	2,780,924
46: 2,779,152	2,802,333	2,814,181	2,803,111	2,810,263	2,780,925
53: 2,783,610	2,803,944	39.16: 2,782,594	2,804,749	4: 2,803,113	2,781,641
2,789,412	2,807,137	2,791,884	2,809,494	11: 2,782,604	2,781,642
2,814,927	35.55: 2,780,059	2,795,928	2,811,016	2,802,339	2,783,616
56: 2,799,986	2,791,089	2,802,334	2,811,834	2,803,948	2,784,562
57.5: 2,786,326	2,793,494	2,804,747	2,814,182	2,810,264	2,786,334
2,803,940	2,797,548	2,807,138	2,814,183	13: 2,817,956	2,787,129
67: 2,786,327	2,799,989	39.17: 2,787,886	2,815,646	21: 2,803,949	2,787,889
80: 2,777,280	2,799,990	2,796,732	2,816,420	25: 2,776,541	2,788,640
2,777,281	2,812,636	39.2: 2,789,418	2,817,210	2,779,160	2,788,641
2,784,546	35.6: 2,775,864	2,806,350	53: Re.24,317	2,778,194	2,791,099
82: 2,789,413	2,776,536	39.23: 2,797,549	2,777,286	2,784,558	2,791,100
2,807,133	2,778,190	2,807,933	2,781,639	31: 2,791,886	2,791,101
2,810,255	2,778,191	39.27: 2,804,748	2,783,614	35: 2,811,839	2,791,102
88: 2,775,861	2,779,157	39.28: 2,777,289	2,784,554	36: 2,782,605	2,792,690
2,780,050	2,779,158	2,780,916	2,788,636	41: 2,777,294	2,792,691
2,786,328	2,780,054	2,782,595	2,799,994	2,796,738	2,794,323
2,790,301	2,780,055	2,786,330	2,802,337	45: 2,780,067	2,795,113
2,799,134	2,780,056	2,786,331	2,803,112	2,795,934	2,795,114
2,804,746	2,780,914	2,792,685	2,805,548	2,795,935	2,795,938
2,815,640	2,780,915	2,795,107	2,807,140	2,801,522	2,800,773
90: 2,777,282	2,781,633	2,795,929	2,807,935	46.5: Re.24,346	2,801,524
2,779,153	2,781,634	2,796,733	2,812,638	2,775,869	2,801,525
2,784,547	2,782,593	2,802,335	2,815,647	2,817,212	2,805,555
2,806,343	2,784,550	2,805,546	2,817,953	48: 2,780,919	2,807,146
91: 2,792,684	2,784,551	2,805,547	2,817,954	53: 2,782,606	2,807,147
107: 2,780,910	2,785,532	2,806,352	2,777,292	58: 2,791,096	2,807,148
2,806,344	2,788,635	2,806,353	2,783,615	54: 2,779,161	2,807,149
109: 2,779,154	2,789,416	2,808,702	2,784,555	57: 2,789,419	2,807,941
2,785,529	2,789,417	2,809,492	2,785,533	63: 2,780,920	2,808,706
2,789,414	2,790,303	2,795,108	2,796,736	67: 2,795,936	2,811,019
111: 2,782,591	2,790,304	2,795,930	2,801,521	69: 2,784,559	2,812,642
113: 2,803,941	2,791,087	2,807,934	2,805,549	72: 2,795,111	2,817,214
116: 2,787,115	2,791,882	39.32: 2,778,192	2,815,648	69: 2,784,559	2,809,497
2,808,698	2,791,883	2,801,518	54.5: 2,782,600	72: 2,807,937	2,799,164
121: 2,786,329	2,793,491	2,813,396	2,787,122	2,812,640	2,796,740
125: 2,781,630	2,793,492	2,813,397	2,791,094	73: 2,802,340	2,801,526
126: 2,785,530	2,794,316	39.35: 2,777,290	2,794,320	2,805,553	2,814,933
2,794,314	2,794,317	2,793,496	2,796,737	74: 2,780,068	2,778,198
130: 2,817,208	2,794,318	39.36: 2,780,060	2,807,141	76: 2,791,097	2,786,335
7: 2,783,611	2,794,319	2,800,767	2,813,399	81: 2,812,641	2,787,890
29: 2,806,345	2,795,104	2,803,945	2,817,955	84: 2,804,754	2,791,103
75: 2,780,051	2,795,105	2,806,354	2,776,538	1: 2,775,870	2,791,887
76: 2,777,283	2,796,730	2,809,493	2,777,293	2,777,295	2,799,144
79: 2,775,862	2,796,731	39.37: 2,795,106	2,778,193	2,780,069	2,801,527
2,780,052	2,798,360	39.38: 2,803,946	2,785,534	2,780,070	2,806,357
2,781,631	2,798,361	39.51: 2,784,552	2,790,306	2,780,071	2,807,150
2,785,531	2,799,136	2,795,109	2,792,686	2,780,921	2,808,707
2,787,116	2,799,137	39.55: 2,793,497	2,792,687	2,780,922	2,814,184
2,787,117	2,799,987	39.61: 2,782,596	2,793,501	2,784,560	8: 2,786,336
2,790,302	2,799,988	2,786,332	2,799,140	2,784,561	2,787,130
2,799,135	2,800,765	39.65: 2,777,291	2,800,770	2,785,536	2,794,324
2,805,541	2,800,766	2,782,597	2,803,947	2,785,537	2,807,151
80: 2,807,928	2,801,515	2,807,139	2,804,750	2,786,333	2,807,151
85: 2,777,284	2,801,516	2,811,832	2,805,550	2,787,126	15: 2,790,308
87: 2,807,929	2,801,517	39.66: 2,780,061	2,805,551	2,787,127	24: 2,775,871
1: 2,798,359	2,802,332	2,783,613	2,808,703	2,788,637	70: 2,809,498
6: 2,777,285	2,803,943	2,791,091	2,808,704	2,790,307	80: 2,787,891
2,810,256	2,805,542	2,801,519	2,808,705	2,793,504	87: 2,781,643
7: 2,780,911	2,805,543	2,806,355	2,809,495	2,794,321	89: 2,780,926
12: 2,777,287	2,805,544	2,811,833	2,811,835	2,795,937	2,783,617
13: 2,779,155	2,805,545	39.69: 2,781,636	2,811,836	2,796,739	2,786,338
2,779,156	2,806,349	2,787,120	2,812,639	2,798,364	2,788,642
2,780,053	2,807,136	2,801,520	2,816,422	2,798,365	2,807,942
2,780,912	2,807,931	39.7: 2,817,952	57: 2,787,123	2,799,997	2,810,266
2,803,942	2,808,699	39.71: 2,781,637	59: 2,779,159	2,800,772	2,811,021
2,811,826	2,808,700	2,810,260	60: 2,780,066	2,803,115	2,811,020
14: 2,795,927	2,808,701	39.72: 2,775,867	2,784,556	2,805,554	89.5: 2,786,339
2,815,641	2,809,491	2,780,062	62.5: 2,776,539	2,807,143	2,794,325
15: 2,791,881	2,810,258	2,793,495	67: 2,813,400	2,807,144	2,810,267
16: 2,817,949	2,810,259	2,799,991	70: 2,787,124	2,807,938	2,814,185
19: 2,807,134	2,811,015	39.74: 2,781,638	73: 2,811,837	2,810,265	89.6: 2,784,564
2,816,416	2,811,827	2,800,768	95: 2,781,640	2,813,401	91: 2,775,872
23: 2,787,118	2,811,828	39.75: 2,795,110	2,793,502	2,813,402	91.5: 2,780,073
2,797,546	2,811,829	2,796,734	97: 2,776,540	2,814,932	2,780,074
2,815,642	2,811,830	2,796,735	2,778,193	2,777,296	2,791,888
24: 2,781,632	2,811,831	2,796,736	2,782,601	2,780,923	2,783,618
2,784,548	2,812,635	39.82: 2,784,553	2,782,602	2,785,535	92: 2,791,104
2,789,415	2,813,394	2,806,356	2,782,603	2,791,095	2,805,556
2,794,315	2,813,395	2,810,261	2,784,557	2,791,885	99: 2,780,075
2,817,950	2,814,179	40: 2,815,645	2,785,535	2,792,688	2,783,618
29: 2,787,119	2,814,928	51: 2,780,063	2,785,536	2,793,503	102: 2,775,873
2,800,764	2,814,929	2,780,064	2,791,885	2,793,503	2,782,607
2,814,178	2,814,930	2,791,092	2,792,688	2,795,933	2,787,892
30: 2,795,103	2,814,931	2,791,093	2,793,503	2,797,551	2,791,889
2,806,346	2,815,643	2,793,498	2,795,932	2,799,995	2,798,366
2,806,347	2,815,644	2,799,992	2,802,336	2,799,996	
2,807,135	2,816,417				
2,807,930	2,816,418				

70—	135: 2, 803, 955 2, 806, 369 2, 813, 418 136: 2, 781, 656 141: 2, 795, 947 142: 2, 814, 193 143: 2, 793, 520 144: 2, 777, 315 146: 2, 795, 948 2, 801, 536 2, 803, 956 2, 803, 957 2, 814, 194 2, 814, 195 149: 2, 786, 348 2, 789, 425 153: 2, 814, 196 156: 2, 787, 155 2, 816, 432 169: 2, 807, 157 2, 816, 433 177: 2, 777, 316 181: 2, 793, 521 2, 814, 197 207: 2, 780, 934 216: 2, 779, 184 2, 803, 958 230: 2, 791, 898 231: 2, 778, 215 232: 2, 785, 564 258: 2, 797, 572 264: 2, 778, 216 2, 795, 127 2, 796, 755 2, 798, 372 2, 799, 154 267: 2, 789, 426 233: 2, 802, 357 2, 802, 358 314: 2, 792, 703 333: 2, 779, 185 2, 807, 954 340: 2, 814, 941 347: 2, 783, 636 362: 2, 804, 765 364: 2, 775, 884 2, 790, 318 366: 2, 808, 717 370: 2, 807, 153 389: 2, 780, 088 419: 2, 782, 624 420: 2, 803, 959 432: 2, 793, 522 451: 2, 779, 186 2, 785, 565 2, 815, 655 455: 2, 782, 625 456: 2, 778, 217 2, 780, 089 2, 790, 319 2, 793, 523 2, 795, 128 2, 805, 566 2, 808, 718 457: 2, 777, 317 2, 816, 434 458: 2, 783, 637 459: 2, 791, 899 465: 2, 795, 129 1: 2, 816, 014 2, 816, 825 2. 1: 2, 792, 295 2. 3: 2, 777, 762 2, 784, 070 2, 785, 967 2, 792, 296 2, 802, 727 2, 811, 432 2, 812, 247 2. 4: 2, 776, 196 2, 776, 197 2, 805, 137 2. 5: 2, 778, 721 2, 799, 567 2, 804, 381 2, 805, 926 2, 818, 327 2. 6: 2, 779, 669 2, 780, 635 2, 782, 111 2, 782, 112 2, 784, 071 2, 784, 072 2, 788, 268 2, 801, 911 2. 7: 2, 785, 968 2, 789, 044 2, 794, 727 2, 799, 568 2, 801, 160 2, 805, 927 2, 807, 530 3: 2, 791, 496 8: 2, 797, 985 9: 2, 798, 800	71—	11: 2, 797, 154 2, 813, 014 12: 2, 801, 912 25: 2, 805, 138 29: 2, 789, 045 2, 814, 556 31: 2, 804, 382 35: 2, 804, 383 36: 2, 776, 198 37: 2, 783, 139 2, 783, 140 39: 2, 803, 531 40: 2, 786, 746 2, 797, 986 2, 802, 728 41: 2, 792, 297 42: 2, 799, 569 44: 2, 778, 722 47: 2, 781, 254 2, 782, 113 59: 2, 795, 495 63: 2, 788, 269 2, 817, 582 64: 2, 779, 670 2, 785, 969 2, 798, 801 2, 806, 773 1: 2, 803, 127 2, 811, 850 15: 2, 783, 638 2, 786, 349 2, 816, 435 16: 2, 781, 657 2, 783, 639 2, 787, 156 2, 797, 573 2, 812, 654 2, 815, 656 17: 2, 780, 090 18: 2, 809, 544 23: 2, 791, 900 28: 2, 787, 902 29: 2, 795, 949 2, 805, 567 2, 811, 035 30: 2, 776, 559 32: 2, 777, 318 35: 2, 791, 116 2, 810, 285 39: 2, 792, 704 41: 2, 810, 286 44: 2, 817, 965 50: 2, 781, 658 77: 2, 780, 935 95: 2, 804, 766 96: 2, 815, 657 101: 2, 795, 130 2, 814, 942 103: 2, 780, 936 105: 2, 788, 652 2, 794, 336 106: 2, 798, 373 107: 2, 810, 287 110: 2, 814, 943 118: 2, 802, 359 2, 811, 036 2, 816, 436 127: 2, 791, 117 128: 2, 788, 653 130: 2, 809, 513 136: 2, 800, 013 138: 2, 798, 374 2, 804, 767 73—	17: 2, 791, 901 19: 2, 795, 132 23: 2, 783, 640 2, 787, 903 2, 811, 037 24: 2, 775, 885 2, 785, 567 2, 788, 656 26: 2, 817, 229 27: 2, 786, 350 2, 787, 904 2, 807, 159 2, 815, 659 30: 2, 777, 320 2, 783, 641 32: 2, 803, 960 35: 2, 777, 323 2, 812, 655 37. 5: 2, 806, 370 37. 8: 2, 779, 188 37. 9: 2, 777, 321 2, 781, 661 2, 797, 576 2, 805, 568 38: 2, 788, 657 2, 794, 338 2, 799, 156 2, 802, 360 40: 2, 796, 757 2, 800, 788 40. 5: 2, 788, 658 2, 793, 524 2, 807, 955 46: 2, 817, 230 49. 2: 2, 806, 371 49. 5: 2, 780, 092 2, 805, 569 49. 6: 2, 780, 093 2, 780, 094 2, 782, 628 2, 809, 515 2, 811, 851 2, 813, 419 2, 815, 660 55: 2, 791, 902 2, 805, 570 56: 2, 781, 662 2, 791, 903 57: 2, 778, 220 2, 782, 629 2, 794, 339 58: 2, 801, 537 59: 2, 814, 945 60: 2, 796, 758 2, 807, 160 2, 812, 656 2, 817, 231 61: 2, 779, 189 64: 2, 782, 630 65: 2, 782, 631 67: 2, 787, 905 2, 793, 525 2, 796, 759 67. 2: 2, 782, 632 2, 782, 633 67. 3: 2, 779, 190 67. 4: 2, 788, 659 67. 5: 2, 787, 158 67. 6: 2, 803, 128 67. 7: 2, 795, 133 2, 799, 157 67. 8: 2, 779, 191 2, 783, 642 2, 800, 789 2, 803, 129 70: 2, 778, 221 71: 2, 783, 643 71. 2: 2, 776, 560 71. 7: 2, 782, 634 2, 799, 158 73: 2, 777, 324 2, 793, 526 2, 793, 527 2, 801, 538 2, 807, 956 76: 2, 780, 095 2, 792, 706 2, 808, 720 2, 816, 437 81: 2, 803, 130 2, 804, 769 2, 807, 161 2, 816, 438 2, 816, 439 82: 2, 796, 760 83: 2, 790, 321 2, 813, 420 86: 2, 783, 644 88: 2, 775, 886 2, 792, 707 88. 5: 2, 800, 790 2, 808, 721 2, 812, 657 92: 2, 778, 222 94: 2, 810, 289	73—	94: 2, 811, 038 95: 2, 782, 635 100: 2, 777, 322 2, 784, 587 2, 817, 232 101: 2, 803, 131 103: 2, 812, 658 104: 2, 795, 951 105: 2, 789, 429 114: 2, 796, 761 2, 796, 762 116: 2, 790, 322 2, 800, 014 2, 800, 015 2, 811, 852 2, 817, 966 117: 2, 803, 132 118: 2, 809, 516 119: 2, 800, 791 134: 2, 785, 568 135: 2, 800, 792 136: 2, 783, 645 2, 811, 853 139: 2, 791, 904 2, 801, 539 2, 803, 133 140: 2, 802, 361 141: 2, 775, 887 2, 776, 561 2, 788, 660 2, 795, 134 2, 803, 134 2, 809, 517 2, 814, 946 143: 2, 807, 162 2, 807, 957 144: 2, 787, 159 2, 795, 135 2, 795, 136 2, 809, 518 2, 776, 562 2, 782, 636 2, 785, 569 2, 788, 661 2, 795, 137 2, 799, 159 2, 799, 161 2, 805, 571 2, 813, 421 2, 814, 198 149: 2, 792, 708 150: 2, 775, 888 2, 780, 096 2, 801, 540 2, 804, 770 151: 2, 775, 889 2, 776, 563 2, 776, 564 2, 781, 663 2, 788, 662 2, 795, 952 2, 816, 440 151. 5: 2, 806, 372 2, 779, 192 2, 783, 646 2, 785, 351 2, 787, 906 2, 792, 709 2, 814, 947 156: 2, 788, 663 159: 2, 786, 352 2, 794, 340 2, 806, 373 2, 809, 519 160: 2, 807, 163 161: 2, 784, 588 2, 789, 430 2, 799, 162 2, 812, 659 167: 2, 799, 163 2, 807, 164 2, 812, 660 2, 813, 422 2, 817, 233 168: 2, 782, 637 2, 803, 961 170: 2, 814, 948 171: 2, 789, 431 2, 808, 722 172: 2, 795, 953 178: 2, 796, 763 2, 807, 165 2, 807, 958 2, 814, 199 182: 2, 785, 570 2, 786, 353 2, 799, 164 186: 2, 793, 528 187: 2, 782, 638 188: 2, 791, 905 189: 2, 780, 937 2, 805, 572 2, 809, 520	73—	190: Re. 24, 404 2, 789, 432 2, 800, 793 194: 2, 779, 193 2, 783, 647 2, 794, 341 2, 800, 016 2, 808, 723 2, 811, 854 2, 813, 423 2, 814, 949 195: 2, 800, 017 198: 2, 784, 589 199: 2, 784, 590 200: 2, 814, 200 202: 2, 780, 933 204: 2, 776, 565 2, 777, 325 2, 786, 354 2, 799, 165 2, 800, 018 2, 813, 424 205: 2, 776, 566 207: 2, 775, 890 2, 816, 441 208: 2, 776, 567 209: 2, 778, 223 2, 779, 194 2, 800, 019 2, 805, 573 211: 2, 803, 962 212: 2, 789, 433 215: 2, 781, 660 216: 2, 814, 950 224: 2, 794, 342 2, 817, 967 228: 2, 800, 020 2, 800, 794 2, 804, 771 2, 805, 574 2, 811, 855 231: 2, 800, 021 2, 800, 022 2, 812, 661 233: 2, 791, 118 2, 806, 374 255: 2, 776, 568 257: 2, 789, 434 262: 2, 795, 138 273: 2, 815, 661 274: 2, 799, 166 2, 807, 959 280: 2, 809, 521 2, 809, 522 281: 2, 775, 891 2, 778, 224 290: 2, 787, 160 291: 2, 791, 906 292: 2, 807, 166 298: 2, 795, 954 300: 2, 803, 135 301: 2, 791, 119 302: 2, 796, 764 304: 2, 775, 892 2, 789, 435 2, 793, 529 2, 814, 951 2, 817, 234 309: 2, 791, 907 317: 2, 795, 955 2, 808, 722 318: 2, 797, 577 319: 2, 801, 541 321: 2, 811, 039 322: 2, 797, 578 2, 802, 362 2, 807, 960 330: 2, 792, 710 335: 2, 815, 662 337: 2, 781, 664 338: 2, 809, 523 339: 2, 790, 323 2, 814, 201 340: 2, 816, 442 341: 2, 798, 377 2, 813, 425 342: 2, 815, 663 2, 817, 235 343: 2, 776, 569 2, 814, 202 345: 2, 803, 136 349: 2, 814, 952 355: 2, 800, 023 2, 811, 856 2, 814, 953 356: 2, 799, 167 358: 2, 805, 575 361: 2, 780, 097 362: 2, 777, 326 2, 795, 139 363: 2, 804, 772 363. 5: 2, 813, 426 363. 9: 2, 817, 968 367: 2, 803, 137	73—368. 3: 2, 806, 375 2, 806, 376 2, 810, 290 368. 4: 2, 804, 773 371: 2, 795, 140 2, 811, 040 2, 817, 236 373: 2, 787, 161 379: 2, 784, 591 2, 784, 592 380: 2, 800, 098 382: 2, 809, 524 384: 2, 790, 324 386: 2, 782, 639 388: 2, 780, 099 2, 812, 662 389: 2, 778, 225 2, 780, 100 2, 806, 377 390: 2, 794, 343 2, 800, 795 398: 2, 780, 101 2, 784, 593 2, 788, 664 2, 800, 796 2, 807, 167 2, 814, 203 399: 2, 785, 571 400: 2, 780, 102 401: 2, 817, 237 406: 2, 780, 103 2, 808, 725 407: 2, 816, 443 2, 816, 444 411: 2, 788, 665 2, 813, 427 414: 2, 796, 765 421: 2, 779, 195 2, 798, 378 2, 800, 797 421. 5: 2, 786, 355 422: 2, 784, 594 2, 794, 344 2, 807, 961 2, 811, 041 423: 2, 795, 141 2, 815, 664 424: 2, 814, 204 425. 4: 2, 782, 640 2, 812, 663 2, 817, 969 427: 2, 793, 530 2, 807, 168 429: 2, 787, 162 431: 2, 803, 138 432: 2, 791, 120 2, 802, 363 2, 815, 665 2, 817, 970 434: 2, 775, 893 438: 2, 803, 963 449: 2, 809, 525 455: 2, 804, 774 457: 2, 777, 327 2, 782, 641 2, 798, 379 458: 2, 779, 196 2, 780, 939 461: 2, 804, 775 462: 2, 783, 648 2, 787, 907 2, 799, 168 2, 815, 666 2, 817, 971 464: 2, 783, 649 466: 2, 785, 572 2, 805, 576 2, 816, 445 471: 2, 817, 972 480: 2, 813, 428 483: 2, 816, 446 484: 2, 803, 964 74—	1: 2, 783, 650 2, 788, 666 2, 788, 667 2, 797, 579 1. 5: 2, 783, 651 2: 2, 776, 570 2, 778, 226 2, 813, 429 2, 816, 447 2, 817, 973 5: 2, 782, 642 2, 785, 573 2, 797, 580 2, 800, 024 2, 805, 577 2, 809, 526 2, 815, 667 5. 1: 2, 786, 356 2, 787, 908 2, 795, 142 2, 799, 169 2, 808, 726
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74— 5. 1:	2,808,727	74— 44:	2,789,437	74—230. 17:	2,791,125	74— 388:	2,796,772	74— 484:	2,785,585	74— 600:	2,803,148
	2,815,668	49:	2,796,769		2,792,712		2,800,801		2,793,539		2,815,681
5. 14:	2,807,169		2,800,029		2,795,962		2,802,371		2,800,805	603:	2,815,682
5. 2:	2,802,364	52:	2,785,576		2,797,587		2,809,532	486:	2,792,713		2,817,980
5. 22:	2,809,528	54:	2,799,171		2,799,176		2,817,246	488:	2,776,579	604:	2,808,736
	2,811,042	55:	2,776,573		2,802,367	392:	2,777,333	489:	2,785,386	606:	2,782,656
5. 34:	2,801,544	60:	2,803,140		2,803,143		2,782,653		2,796,676	609:	2,775,905
	2,811,043		2,812,664		2,805,583	393:	2,784,612	491:	2,800,035	625:	2,775,906
5. 4:	2,787,909	61:	2,778,230		2,806,381		2,788,534	492:	2,803,147		2,775,908
	2,795,143	63:	Re. 24,283		2,810,296		2,788,672		2,816,455	626:	2,805,585
	2,795,956	69:	2,782,647		2,812,666		2,788,673	493:	2,779,208	645:	2,782,657
	2,801,542	70:	2,775,900		2,816,452		2,795,966		2,792,719		2,782,658
	2,810,291		2,779,199	230. 3:	2,779,202		2,810,298	394:	2,803,970		2,787,170
	2,813,430		2,795,145		2,781,669		2,785,579		2,815,676		2,788,678
	2,814,954	75:	2,810,294		2,784,606		2,804,781		2,815,677		2,800,036
	2,816,448	79:	2,816,450		2,787,165	397:	2,775,903	501:	2,799,180		2,815,684
	2,817,974	82:	2,810,295		2,806,379	400:	2,788,674	501. 5:	2,787,916	650:	2,785,587
5. 41:	2,803,965	84:	2,784,599	230. 5:	2,802,366	405:	2,800,802		2,810,300		2,790,334
5. 43:	2,780,104		2,786,360	230. 6:	2,787,913		2,813,434	502:	2,778,242	665:	2,780,114
5. 44:	2,789,436		2,791,908	230. 7:	2,777,330	409:	2,810,299		2,787,917		2,781,674
	2,817,239	87:	2,778,231		2,778,234		2,811,860		2,805,584		2,787,171
5. 47:	2,800,025		2,785,577		2,806,380	411:	2,800,803		2,817,247		2,789,444
	2,817,975	89:	2,784,600	230. 8:	2,787,914	415:	2,784,613	503:	2,787,168		2,790,335
5. 5:	2,797,581		2,791,909		2,805,582	417:	2,780,942		2,792,720		2,790,336
	2,805,578	90:	2,782,648		2,808,730	421:	2,779,205		2,800,806		2,790,337
5. 6:	2,794,345	95:	2,786,361	231:	2,799,177		2,784,614		2,806,384		2,803,973
	2,795,957	96:	2,777,329	234:	2,775,902		2,801,548		2,807,173	675:	2,779,212
	2,804,776		2,784,601	236:	2,803,144		2,811,861	504:	2,800,807	677:	2,781,675
	2,814,955		2,793,534	241:	2,777,331	422:	2,815,675		2,811,867		2,782,659
	2,817,240		2,803,967		2,781,670	424:	2,787,915		2,799,178		2,795,152
5. 7:	2,778,227		2,811,047	242. 1:	2,783,655	424. 8:	2,776,577	506:	2,787,169		2,795,153
	2,780,940	97:	2,776,574		2,789,438		2,778,239	507:	2,808,734		2,795,154
	2,786,357		2,784,602		2,791,910		2,795,149	509:	2,779,590		2,799,182
	2,801,543	99:	2,799,172		2,806,382		2,799,178	512:	2,797,209		2,803,974
6:	2,777,328		2,805,579	242. 11:	2,806,382		2,800,804		2,811,868		2,807,967
	2,782,643	100:	2,787,911	242. 13:	2,791,126		2,806,383	522:	2,776,580		2,811,872
	2,786,358		2,802,365	242. 14:	2,782,650		2,808,731		2,793,540		2,814,214
	2,807,170	102:	2,800,798		2,784,607		2,817,978	526:	2,776,581	679:	2,816,458
7:	2,775,894	108:	2,805,580	242. 3:	2,817,244	432:	2,785,580		2,803,971	681:	2,804,784
	2,776,571	110:	Re. 24,343	242. 8:	2,780,108	436:	2,782,654		2,780,112	686:	2,803,975
	2,778,228		2,775,901		2,798,380		2,789,441	527:	2,777,336	687:	2,778,244
	2,782,644		2,783,652	242. 9:	2,776,576		2,795,150		2,791,129		2,790,338
	2,782,645		2,786,362		2,794,347		2,797,589		2,800,808		2,808,737
	2,787,910		2,790,325	243:	2,781,671		2,799,207	528:	2,793,541	688:	2,792,722
	2,796,766		2,791,123		2,791,911		2,780,943	531:	2,781,672	695:	2,791,130
	2,800,026	125. 5:	2,778,232		2,796,771		2,783,656		2,795,967	701:	2,791,131
	2,811,044		2,804,778		2,800,031	441:	2,791,128		2,802,374		2,808,738
	2,815,669	128:	2,779,200		2,815,672		2,797,589	532:	2,806,385	710:	2,795,969
	2,816,449		2,808,729	245:	2,785,578	458:	2,802,372		2,787,918	710. 5:	2,803,149
10. 2:	2,780,941	129:	2,779,201	246:	2,778,236		2,812,668		2,789,443		2,803,150
	2,813,431	142:	2,787,912	250:	2,789,439	459:	2,779,206	540:	2,781,673	711:	2,778,245
10. 33:	2,793,531		2,800,799		2,793,536		2,797,207		2,816,456		2,789,446
	2,800,027	144:	2,805,581		2,811,857		2,780,943	543:	2,811,869		2,785,588
	2,811,045	152:	2,781,666	251:	2,788,670		2,793,538	546:	2,793,542		2,786,366
10. 41:	2,778,229		2,793,535		2,816,453		2,802,373	548:	2,797,592		2,789,447
10. 45:	2,788,668		2,799,173	252:	2,798,381		2,802,373	551. 9:	2,815,679		2,791,132
	2,799,170	169:	2,784,603	254:	2,780,109	459. 5:	2,776,578		2,814,211	713:	2,817,251
	2,797,582	191:	2,817,242		2,787,166		2,778,240	532:	2,789,443		2,786,367
10. 5:	2,803,139	192:	2,807,171		2,802,368		2,808,732		2,812,669		2,801,551
	2,810,292	198:	2,783,653		2,802,369		2,792,715	540:	2,781,673		2,808,740
10. 52:	2,775,895		2,816,421		2,810,297		2,789,442		2,806,385	714:	2,788,679
	2,803,966	199:	2,784,604	258:	2,811,858		2,807,966		2,787,918		2,791,919
10. 54:	2,811,046		2,787,164	325:	2,779,204		2,811,862	543:	2,811,869	720:	2,812,670
10. 7:	2,780,105		2,788,669		2,792,713		2,814,957	546:	2,793,542	722:	2,792,723
	2,784,595		2,794,346		2,800,800		2,775,904	548:	2,797,592		2,807,174
	2,785,574		2,800,030	330:	2,793,537	472:	2,777,334	551. 9:	2,815,679		2,789,447
10. 85:	2,775,896		2,814,205	333:	2,778,237		2,783,657	552:	2,810,301		2,791,132
	2,797,583		2,814,956		2,790,326		2,783,658		2,814,211		2,808,739
12:	2,793,532		2,815,670	334:	2,795,963		2,785,581	553:	2,811,870		2,817,251
13:	2,784,596	200:	2,786,363		2,812,667		2,785,582	555:	2,813,436	713:	2,786,367
14:	2,775,897		2,795,961	336. 5:	2,802,370		2,785,583	557:	2,790,330		2,801,551
15. 4:	2,800,028		2,801,546		2,807,172		2,785,584	560:	2,792,721		2,808,740
15. 63:	2,776,572		2,803,141		2,815,673		2,788,675		2,802,375	714:	2,788,679
	2,793,533	202:	2,796,770	337. 5:	2,784,608		2,790,327	562:	2,804,783		2,791,919
15. 88:	2,807,962		2,809,529		2,795,964		2,790,328	562. 5:	2,791,915	720:	2,812,670
	2,810,293		2,816,451	342:	2,811,859		2,791,913		2,799,181	722:	2,792,723
	2,795,958	203:	2,780,107	344:	2,791,912		2,792,716		2,814,212		2,807,174
16:	2,801,545	205:	2,795,146	348:	2,807,964		2,799,179	563:	2,776,582	724:	2,806,386
	2,813,432	206:	2,781,667	351:	2,780,110		2,800,032		2,809,538	730:	2,800,037
	2,795,144		2,791,124		2,803,145		2,801,549	565:	2,810,302	731:	2,775,909
17. 8:	2,779,197		2,803,142		2,817,976		2,804,782	567:	2,817,248	732:	2,785,589
18. 1:	2,781,665	208:	2,781,668	355:	2,795,965		2,808,733	568:	2,791,916		2,786,368
	2,784,597	209:	2,784,206		2,804,779		2,809,533		2,811,871		2,787,172
	2,786,359	214:	2,817,243	359:	2,784,609		2,809,534	569:	2,788,677		2,789,448
	2,795,959		2,783,654		2,787,167		2,809,535		2,816,457		2,797,594
22:	Re. 24,389	216. 5:	2,799,174		2,804,782		2,809,536	571:	2,790,331	745:	2,778,247
	2,775,898		2,812,665	360:	Re. 24,327		2,811,863		2,790,332		2,794,348
	2,780,106		2,814,207		2,811,048		2,811,864		2,795,968		2,814,959
	2,795,960	217:	2,784,605	364:	2,782,651		2,814,208	573:	2,778,243	750:	2,785,590
	2,796,767		2,797,585		2,803,968		2,816,454		2,782,655		2,787,173
23:	2,791,121		2,801,547	368:	2,777,332		2,798,382		2,791,917		2,787,919
25:	2,791,122		2,807,963		2,792,714		2,798,383		2,798,383		2,788,680
	2,792,711	218:	2,799,175		2,797,588		2,800,033	574:	2,779,210		2,795,970
	2,808,728		2,813,433		2,815,674	477:	2,792,717		2,779,211		2,799,183
26:	2,784,598	219:	2,778,233	370:	2,811,049		2,811,865	580:	2,815,680		2,803,976
27:	2,779,198	220:	2,809,530	371:	2,789,440		2,814,209	586:	2,786,364	751:	2,787,920
37:	2,806,378	221:	2,797,586		2,807,965		2,803,969	589:	2,808,735		2,791,920
42:	2,797,584	222:	2,809,531	374:	2,784,610	478:	2,778,241	594. 4:	2,814,213		2,796,775

74—	752: 2,806,387 2,811,051 754: 2,777,337 757: 2,802,376 759: 2,786,369 2,795,972 2,799,184 2,806,388 2,813,437 764: 2,780,944 766: 2,794,350 781: 2,783,661 2,807,968 2,810,303 789: 2,806,389 2,810,304 797: 2,779,214 798: 2,815,685 801: 2,801,552 2,802,377 2,804,785 805: 2,783,662 2,795,155 812: 2,788,681 2,810,305 813: 2,777,338 815: 2,807,175 819: 2,801,553 820: 2,816,459 822: 2,795,973 2,796,776 2,800,038 824: 2,808,741 826: 2,810,306 2,776,199 2,776,200 2,784,073 2,785,061 2,785,062 2,787,534 2,791,497 2,791,498 2,793,106 2,793,107 2,793,108 2,799,570 2,800,404 2,805,139 2,806,774 2,807,531 2,807,532 2,810,632 2,811,433 2,813,785 2,816,826 2,818,326 1: 2,776,201 2,776,202 2,797,155 798,902 804,384 805,928 809,105 815,272 2,816,015 2: 2,807,533 3: 2,779,671 2,784,074 789,804 792,208 793,109 796,340 799,571 805,140 805,141 2,807,534 2,808,322 4: 2,794,728 801,913 812,248 812,249 5: 2,780,536 2,785,063 789,895 794,729 799,572 799,573 803,532 806,775 806,776 806,777 809,106 810,633 816,016 2,784,075 6: 2,817,583 7: 2,795,496 9: 2,797,987 2,813,015 2,813,016 10: 2,782,114 2,799,574 2,808,323 2,808,324 11: 2,776,881	75—	11: 2,786,747 2,805,142 2,805,929 2,805,930 13: 2,797,988 2,805,143 20: 2,784,076 24: 2,800,405 25: 2,781,255 26: 2,780,537 2,783,141 2,784,077 2,805,144 27: 2,776,203 2,778,723 2,789,896 2,799,575 2,801,914 2,805,145 2,806,778 28: 2,776,882 2,797,156 2,802,730 29: 2,808,325 30: 2,778,724 2,811,434 2,814,557 33: 2,797,157 2,806,779 34: 2,790,710 2,806,780 35: 2,797,989 2,807,535 2,805,931 37: 2,805,146 38: 2,807,536 40: 2,782,115 2,784,078 2,784,079 41: 2,790,711 2,792,299 2,793,946 2,795,497 2,799,576 2,810,634 2,811,435 2,814,558 2,818,329 43: 2,780,538 2,786,748 2,787,535 2,796,341 2,802,731 2,808,326 44: 2,802,732 46: 2,786,749 2,816,017 48: 2,776,883 49: 2,776,204 2,788,270 2,815,273 51: 2,790,712 2,806,782 52: 2,781,256 2,789,046 2,804,385 2,811,436 2,815,274 2,815,275 53: 2,776,205 2,803,533 2,805,147 2,806,781 2,814,559 55: 2,794,730 57: 2,784,731 58: 2,785,970 2,805,932 2,808,327 60: 2,793,110 2,800,631 2,801,161 2,803,534 2,803,535 2,803,536 2,805,933 2,807,537 2,805,940 2,815,276 2,816,018 2,781,584 63: 2,784,080 2,801,162 2,803,536 64: 2,807,538 65: 2,805,934 66: 2,789,047 2,798,803 2,810,635 2,810,636 2,813,017 2,815,277 67: 2,779,672 2,794,732 2,794,733 2,805,935	75—	67: 2,809,107 68: 2,776,884 2,795,498 2,810,637 2,813,786 72: 2,784,081 2,806,783 2,815,278 74: 2,784,082 2,816,019 77: 2,797,158 82: 2,790,713 2,793,111 2,815,279 84: 2,777,763 2,778,725 2,780,539 2,785,971 2,786,750 2,797,159 2,805,148 2,807,539 2,814,560 2,818,330 84.1: 2,782,116 2,782,117 2,785,064 2,785,972 2,787,536 2,787,537 2,787,538 2,789,897 2,795,499 2,801,915 2,813,018 2,817,585 84.4: 2,785,065 2,785,973 2,797,160 2,813,019 84.5: 2,778,726 2,782,118 2,783,142 2,787,539 2,791,499 2,804,386 2,805,151 2,809,108 2,812,250 2,813,787 2,814,561 2,816,020 2,816,021 2,816,828 85: 2,779,673 87: 2,795,500 2,816,022 88: 2,781,257 93: 2,776,206 2,788,271 2,809,886 2,811,437 94: 2,797,990 101: Re.24,298 2,779,674 2,798,804 2,805,936 2,805,937 2,805,938 2,806,784 103: Re.24,369 2,814,562 105: 2,777,764 107: 2,810,638 108: 2,778,727 2,786,751 2,787,540 2,796,342 2,805,939 109: 2,796,343 2,813,020 115: 2,776,207 119: 2,778,728 2,778,729 2,803,537 2,805,149 2,807,537 2,805,940 121: 2,786,752 2,793,112 2,796,344 2,801,163 2,805,941 122: 2,777,765 2,810,639 2,813,788 122.7: 2,778,730 2,809,887 123: 2,781,258 2,797,991 2,798,805 2,813,789 124: 2,791,500 2,797,161 2,797,162 2,804,387	75—	125: 2,784,083 2,797,992 2,797,993 2,805,150 2,805,152 2,809,888 2,816,830 126: 2,776,208 2,778,731 2,781,259 2,789,048 2,789,049 2,793,947 2,801,164 2,803,538 2,805,942 2,814,563 128: 2,793,113 2,793,948 2,799,577 2,801,916 2,803,539 2,815,280 129: 2,780,540 2,782,119 2,791,501 2,809,109 130: 2,778,732 2,779,675 2,780,541 2,781,260 2,789,898 2,792,300 2,793,114 2,797,994 2,811,438 2,816,829 133: 2,790,714 2,800,406 133.5: 2,776,885 134: 2,777,766 2,780,542 2,786,753 2,786,754 2,797,995 2,801,165 2,805,153 2,810,640 2,815,281 2,815,282 2,818,331 2,818,332 135: 2,781,261 2,793,949 138: 2,801,917 142: 2,807,540 143: 2,781,262 2,807,541 2,811,439 144: 2,781,263 147: 2,789,050 149: 2,816,023 152: 2,792,301 153: 2,789,899 2,795,501 156.5: 2,802,733 157.5: 2,777,767 159: 2,783,143 2,789,900 2,809,889 2,810,641 161: 2,778,733 165: 2,780,543 2,813,790 166: 2,796,345 2,805,944 2,811,440 2,811,441 2,811,720 2,811,721 167: 2,794,707 168: 2,786,755 2,788,272 2,801,166 2,813,023 169: 2,806,785 170: 2,780,544 2,794,734 2,809,890 171: 2,781,264 2,783,144 2,793,950 2,805,154 2,805,945 2,809,110 2,815,283 2,816,024 2,817,586 173: 2,793,115 2,796,346 2,805,155 175.5: 2,777,768 2,779,677 2,785,066	75—175.5:	2,786,756 2,787,541 2,796,347 2,797,996 2,798,806 2,798,807 2,801,167 2,810,642 2,810,643 2,813,791 2,818,333 2,818,334 2,818,335 2,818,336 2,818,337 2,818,338 176: 2,780,545 2,798,808 177: 2,784,084 200: 2,798,809 201: 2,798,810 206: 2,785,974 211: 2,776,886 2,776,887 2,806,786 2,814,564 212: 2,783,145 213: 2,794,735 214: 2,789,901 2,792,302 2,793,951 2,807,542 224: 2,793,116 225: 2,818,339 226: 2,809,891 4: 2,807,969 5: 2,808,742 2,814,960 25: 2,795,974 2,802,378 2,816,460 29: 2,802,379 31: 2,801,554 2,811,052 2,813,438 36: 2,799,185 2,817,252 2,815,686 40: 2,780,945 2,792,724 2,798,384 2,811,873 2,811,874 41: 2,793,544 2,805,587 43: 2,808,743 50: 2,785,591 54: 2,800,039 2,814,961 63: 2,783,663 2,808,744 65: 2,779,215 66: 2,779,216 73: 2,778,248 78: 2,789,385 82: 2,790,339 82.1: 2,786,370 2,789,449 82.2: 2,800,040 86: 2,795,156 89: 2,778,249 89.2: 2,787,921 2,795,975 95: 2,815,687 101: 2,796,777 2,800,811 104: 2,787,174 2,795,976 107: 2,775,911 2,778,250 2,787,922 2,791,133 2,791,134 2,794,351 2,797,595 2,803,152 2,807,970 2,816,461 2,817,981 2,811,875 108: 2,777,339 2,780,115 2,788,682 3: 2,791,921 2,793,545 2,799,186 2,808,745 2,809,539 4: 2,788,683 2,795,977 2,812,671 2,814,215 2,816,462 5: 2,779,217	77—	5: 2,792,725 2,793,546 2,806,390 2,809,540 2,810,307 2,811,876 2,816,463 18: Re.24,289 19: 2,810,308 23: 2,814,216 25: 2,776,584 2,783,664 28: 2,811,053 2,817,982 32.3: 2,791,135 32.4: 2,807,176 32.5: 2,780,116 32.7: 2,790,340 33.5: 2,811,877 34.4: 2,784,616 42: 2,794,352 55: 2,777,340 2,779,218 2,792,726 2,794,353 2,795,978 2,802,380 2,810,309 56: 2,784,617 2,798,386 58: 2,793,547 2,800,041 2,804,786 2,811,054 2,811,055 2,811,056 2,812,672 2,815,688 2,816,464 61: 2,814,217 62: 2,778,251 2,780,946 2,783,665 2,786,371 2,788,684 2,792,727 2,796,778 2,804,787 2,804,788 2,810,310 2,811,878 2,811,879 2,813,439 2,814,218 2,814,219 2,816,465 2,817,253 63: 2,779,219 2,782,661 2,786,372 64: 2,779,220 2,785,592 2,787,175 2,791,136 2,808,746 67: 2,786,373 68: 2,817,983 69: 2,777,341 2,780,947 2,800,812 2,803,153 70: 2,778,252 73.5: 2,777,342 2,784,618 2,785,593 2,792,728 2,795,979 2,804,789 75: 2,795,980 1: 2,811,880 2,816,466 9: 2,800,813 2,804,790 2,812,673 13: 2,791,137 13.1: 2,798,387 17: 2,779,221 2,800,814 2,805,588 2,809,541 20: 2,793,548 25: 2,807,177 39: 2,811,057 41: 2,780,117 42: 2,784,619 2,785,594 2,795,981 2,799,187 2,809,542 2,809,543 44: 2,791,138 2,786,374 2,799,188 2,806,391
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78—	47: 2,817,984	81—	15: 2,781,681	81—	57: 2,808,749	82—	36: 2,817,260	84—	404: 2,788,697	88—	1: 2,782,676
	48: 2,801,555		2,782,665		2,817,256		37: 2,811,886		2,800,827		2,784,639
	49: 2,813,440		2,783,668	58.1: 2,817,257	2,817,257		38: 2,778,261		2,791,146		2,787,187
	52: 2,797,596		2,783,669	60: 2,796,790	2,796,790		2,791,928		2,787,929		2,792,740
	61: 2,798,388		2,784,621	2,799,194	2,799,194		40: 2,800,824		2,811,071		2,792,741
	82: 2,815,689		2,784,622	2,800,821	2,800,821		2,807,180		408: 2,788,698		2,794,360
	2,817,254		2,784,623	62: 2,803,980	2,803,980		41: 2,777,352		411: 2,779,227		2,795,163
	96: 2,811,058		2,786,375	64: 2,780,951	2,780,951		43: 2,803,159		422: 2,784,634		2,795,164
	2,811,881		2,787,925	68: 2,784,628	2,784,628		44: 2,797,602		2,784,635		2,795,165
	99: 2,802,381		2,788,685	71: 2,786,380	2,795,986		2,797,603		2,785,596		2,800,831
79—	5: 2,798,389		2,789,453	2,797,599	2,797,599		2,797,604		2,787,930		2,803,986
	2,814,220		2,790,341	2,807,179	2,807,179		2,808,753		2,791,930		2,815,694
80—	16: 2,781,676		2,791,925	2,817,258	2,817,258	84—	1.01: 2,800,047		2,799,199		2,815,695
	1: 2,782,662		2,791,926	2,775,913	2,775,913		2,811,069		2,800,828		2,817,994
	2,815,690		2,794,355	2,800,043	2,800,043		2,811,887		2,799,200	1.5:	2,780,129
	3: 2,809,545		2,795,983	2,802,384	2,802,384	1.04:	2,787,183		424: 2,806,400		2,800,052
	5: 2,776,585		2,796,784	2,811,067	2,811,067		2,798,397		458: 2,812,682	2.2:	2,802,389
	5.1: 2,796,779		2,796,786	2,803,981	2,803,981	1.14:	2,812,679		459: 2,802,388	2.3:	2,780,130
	2,798,390		2,799,190	2,808,750	2,808,750	1.15:	2,780,126		461: 2,805,596		2,788,701
	2,798,391		2,799,191	2,810,313	2,810,313	1.16:	2,802,386		470: 2,788,699		2,792,742
	6: 2,781,677		2,799,192	2,817,259	2,817,259		2,812,679		471: 2,807,183	2.4:	2,779,231
	7: 2,792,729		2,799,193	2,782,667	2,782,667	1.26:	2,783,672		477: 2,811,072	2.7:	2,803,160
	11: 2,778,253		2,800,042	2,798,393	2,798,393		2,812,683		478: 2,814,230	14:	2,775,918
	12: 2,779,222		2,800,818	2,801,561	2,801,561		2,793,554		485: 2,792,739		2,776,593
	13: 2,779,223		2,801,560	2,803,981	2,803,981		2,809,547		2,814,231		2,777,355
	14: 2,780,118		2,802,383	2,808,750	2,808,750	1.27:	2,776,591		2,814,231		2,777,356
	2,780,948		2,803,156	2,810,313	2,810,313	1.28:	2,784,632	85—	1: 2,778,265		2,779,232
	2,783,666		2,803,977	2,810,314	2,810,314		2,809,548		2,804,796		2,780,131
	2,814,962		2,804,791	2,792,735	2,792,735		2,792,737		2: 2,789,456		2,780,132
16: 2,807,178			2,805,591	2,800,044	2,800,044		2,795,161		2,804,797		2,780,955
24: 2,801,556			2,805,592	2,800,045	2,800,045		2,800,825		2,783,673		2,783,675
25: 2,781,678			2,806,394	2,814,225	2,814,225		2,786,381	2.4:	2,784,636		2,783,676
2,782,663			2,808,748	2,805,593	2,805,593		2,787,927		2,787,931		2,784,640
30: 2,811,882			2,809,546	2,813,443	2,813,443		2,800,048		2,799,201		2,787,188
31.1: 2,787,176			2,810,312	2,814,226	2,814,226		2,806,397		2,805,597		2,788,702
36: 2,789,450			2,811,064	2,775,914	2,775,914		2,807,181		2,797,605		2,790,347
38: 2,776,586			2,811,065	2,788,690	2,788,690		2,813,446		2,779,228		2,791,150
2,784,620			2,812,676	2,793,552	2,793,552		2,807,181		2,780,128		2,791,931
41: 2,811,059			2,813,442	2,798,394	2,798,394		2,813,446		2,782,672		2,791,932
42: 2,796,780			2,814,222	2,800,822	2,800,822		2,780,952		2,786,383		2,792,743
43: 2,796,781			2,814,223	2,805,594	2,805,594		2,780,127		2,804,798		2,792,744
44: 2,811,060			2,817,986	2,806,396	2,806,396		2,779,225		2,816,471		2,793,560
47: 2,777,343			2,804,792	2,778,260	2,778,260		2,784,633		2,790,346		2,793,561
48: 2,791,923			2,795,157	2,796,791	2,796,791		2,796,795		2,801,564		2,794,362
51: 2,791,139			2,780,123	2,784,629	2,784,629		2,800,049		2,798,403		2,794,363
2,812,674			2,782,666	2,801,562	2,801,562		2,799,197		2,811,889		2,794,364
2,816,467			2,800,819	2,780,124	2,780,124		2,813,447		2,798,404		2,795,166
52: 2,815,691			2,803,157	2,795,987	2,795,987		2,779,226		2,779,229		2,795,991
56: 2,792,730			2,784,624	2,804,793	2,804,793		2,806,398		2,782,673		2,795,992
62: 2,780,119			2,788,686	2,808,751	2,808,751		2,793,555		2,793,559		2,796,798
2,791,924			2,795,984	2,813,444	2,813,444		2,808,754		2,773,916		2,797,609
2,803,154			2,788,688	2,817,259	2,817,259		2,812,681		2,784,637		2,797,610
2,807,971			2,794,356	2,776,589	2,776,589		2,792,738		2,789,457		2,799,203
81—	3: 2,780,949		2,788,688	2,794,357	2,794,357		2,793,556		2,797,606		2,800,053
	2,783,667		2,796,787	2,788,691	2,788,691		2,800,050		2,812,684		2,802,390
	2,787,923		2,792,731	2,804,794	2,804,794		2,803,982		2,809,549		2,802,391
	2,793,549		2,796,788	2,787,181	2,787,181		2,800,051		2,816,472		2,803,161
	2,794,354		2,796,788	2,795,160	2,795,160		2,803,982		2,789,458		2,803,987
	2,800,815		2,776,588	2,797,600	2,797,600		2,806,398		2,775,917		2,805,598
	2,802,382		2,788,689	2,784,625	2,784,625		2,816,469		2,783,674		2,806,401
	2,803,155		2,792,732	2,786,376	2,786,376		2,778,262		2,798,405		2,807,976
	2,805,589		2,793,551	2,788,689	2,788,689		2,793,557		2,798,406		2,808,755
	2,805,590		2,795,158	2,792,732	2,792,732		2,781,685		2,799,202		2,809,551
	2,806,392		2,803,978	2,793,551	2,793,551		2,788,694		2,797,607		2,809,552
	2,812,675		2,806,395	2,799,195	2,799,195		2,790,344		2,787,185		2,810,315
	2,814,221		2,783,670	2,800,823	2,800,823		2,798,398		2,787,932		2,810,316
	2,817,985		2,787,178	2,811,068	2,811,068		2,776,592		2,795,989		2,811,074
3.1: 2,791,140			2,787,179	2,791,144	2,791,144		2,778,263		2,803,984		2,811,890
2,801,557			2,815,692	2,807,973	2,807,973		2,798,399		2,807,184		2,812,685
3.3: 2,793,550			2,811,884	2,817,990	2,817,990		2,805,595		2,813,449		2,812,686
2,806,393			2,793,553	2,796,792	2,796,792		2,788,695		2,800,829		2,813,451
2,808,747			2,786,377	2,797,601	2,797,601		2,796,796		2,816,473		2,816,474
3.32: 2,799,189			2,789,454	2,807,974	2,807,974		2,787,928		2,782,674		2,817,264
3.34: 2,800,816			2,791,141	2,777,349	2,777,349		2,780,954		2,787,186		2,817,265
3.36: 2,797,597			2,792,733	2,777,350	2,777,350		2,793,557		2,778,266		2,817,266
2,811,061			2,796,798	2,777,351	2,777,351		2,798,400		2,807,185		2,817,267
3.4: 2,810,311			2,811,066	2,816,470	2,816,470		2,800,826		2,811,073		2,817,268
3.43: 2,787,924			2,812,677	2,782,668	2,782,668		2,804,795		2,781,687		2,817,269
3.44: 2,779,224			2,816,468	2,792,736	2,792,736		2,816,470		2,797,608		2,817,270
2,796,782			2,796,793	2,796,793	2,796,793		2,817,070		2,784,638		2,785,597
2,811,062			2,798,395	2,798,395	2,798,395		2,817,071		2,795,990		2,791,933
3.46: 2,778,254			2,817,991	2,817,991	2,817,991		2,791,145		2,807,975		2,791,934
5.1: 2,814,963			2,784,626	2,782,669	2,782,669		2,803,983		2,787,933		2,796,799
6: 2,797,598			2,790,342	2,791,927	2,791,927		2,791,929		2,800,830		2,796,801
2,800,817			2,795,159	2,783,671	2,783,671		2,811,888		2,807,186		2,798,407
7: 2,789,451			2,798,392	2,796,794	2,796,794		2,802,387		2,809,550		2,798,408
9.1: 2,777,344			2,800,820	2,797,601	2,797,601		2,806,399		2,817,262		2,804,799
2,801,558			2,817,987	2,813,445	2,813,445		2,790,345		2,791,148		2,811,075
2,813,441			2,817,987	2,817,992	2,817,992		2,794,358		2,791,149		2,811,076
9.3: 2,796,783			2,817,987	2,817,992	2,817,992		2,798,401		2,794,359		2,813,452
9.5: 2,778,255			2,817,987	2,817,992	2,817,992		2,798,401		2,803,985		2,816,475
2,780,120			2,817,987	2,817,992	2,817,992		2,798,401		2,803,985		2,816,476
2,787,177			2,817,987	2,817,992	2,817,992		2,798,401		2,803,985		2,816,476
2,795,982			2,817,987	2,817,992	2,817,992		2,798,401		2,803,985		2,816,476
2,817,255			2,817,987	2,817,992	2,817,992		2,798,401		2,803,985		2,816,476
9.51: 2,782,664			2,817,987	2,81							

88— 16. 6:	2,790,348	88— 24:	2,811,892	88— 57:	2,784,646	89— 1. 5:	2,805,601	89—	129:	2,798,415	90— 33:	2,814,238
	2,792,745		2,812,687		2,785,602		2,807,193		131:	2,791,942		2,818,001
	2,810,318		2,813,454		2,785,603		2,809,557		135:	2,779,247	38:	2,781,698
	2,811,077		2,813,455		2,785,604		2,815,698			2,804,808	45:	2,786,397
16. 8:	2,780,133		2,813,456		2,788,708	1. 7:	2,780,143			2,805,604	58:	2,783,687
	2,807,978		2,814,232		2,788,709		2,786,393			2,814,235		2,783,688
	2,817,995		2,814,233		2,789,463		2,787,192		136:	2,776,600	59:	2,790,361
17:	2,790,349		2,815,696		2,791,153		2,787,938			2,776,601		2,806,411
	2,807,188		2,816,477		2,791,154		2,788,712			2,805,605		2,810,326
	2,788,708		2,816,478		2,792,749		2,789,470		140:	2,785,605		2,811,771
	2,797,612		2,817,267		2,792,750		2,789,471		142:	2,807,196		2,814,974
	2,800,832		2,817,996		2,792,751		2,790,352		144:	2,781,697		2,816,489
	2,807,979		2,817,997		2,793,564		2,790,353		150:	2,804,809		2,818,002
18. 4:	2,787,189	26:	2,817,268		2,793,565		2,791,941		154:	2,780,965	60:	2,803,999
	2,793,562	28:	2,783,680		2,794,368		2,792,754		155:	2,777,365	62:	2,796,806
	2,802,392		2,793,563		2,796,001		2,792,755			2,779,248		2,810,327
18. 7:	2,781,689		2,795,169		2,796,002		2,792,756			2,786,394		2,814,239
	2,803,989		2,803,993		2,797,618		2,792,757			2,804,810	92— 1:	2,805,946
19. 3:	2,788,704		2,808,759		2,798,411		2,792,758		156:	2,791,943	1. 5:	2,776,209
	2,808,756		2,808,760		2,799,207		2,798,413			2,809,565	2:	2,788,273
20:	2,779,235		2,813,457		2,801,570		2,800,056		158:	2,780,144		2,801,168
	2,795,993		2,814,965		2,803,167		2,800,835		163:	2,789,478		2,816,831
	2,798,408	28. 9:	2,804,801		2,803,996		2,800,836		165:	2,811,902		2,816,832
	2,803,990	28. 93:	2,780,136		2,803,997		2,801,571		177:	2,788,714	3:	2,785,975
	2,806,404	29:	2,781,691		2,807,982		2,801,572		187:	2,795,171		2,787,542
22:	2,777,356		2,782,681		2,807,983		2,802,398		188:	2,775,920		2,791,502
	2,785,598		2,787,191		2,808,762		2,802,399		190:	2,788,715		2,794,736
23:	2,803,162		2,789,460		2,810,322		2,803,168		191:	2,777,366		2,794,737
	2,806,405		2,794,367		2,810,323		2,804,805			2,789,479		2,799,578
24:	2,810,319		2,811,893		2,811,080		2,807,194			2,805,606		2,802,405
	2,776,595	31:	2,807,191		2,811,081		2,809,558		193:	2,783,685		2,802,734
	2,777,357		2,814,966		2,811,082		2,809,559			2,791,944		2,810,644
	2,777,358		2,817,269		2,812,689		2,811,900			2,800,059		2,810,645
	2,777,359	32:	2,784,641		2,814,969		2,816,483			2,814,972		2,810,646
	2,778,269		2,804,802		2,816,480		2,817,272		194:	2,816,484		2,811,442
	2,779,236		2,807,981		2,816,481		2,789,472	4:	2,776,602		2,812,252	
	2,779,237		2,811,894		2,816,482		2,792,759	6:	2,779,249		2,816,833	
	2,780,134	33:	2,814,967		2,817,270		2,783,684	8:	2,791,945		2,791,503	
	2,780,135	34:	2,811,895		2,817,998		2,790,354	13:	2,780,145		2,799,579	
	2,780,956	39:	2,777,360		2,812,690		2,801,573	14:	2,782,688		2,801,918	
	2,780,957		2,785,601		2,812,691		2,801,574	90— 1:	2,776,603		2,803,540	
	2,781,690		2,787,937		2,812,692		2,782,689		1. 4:	2,787,195		2,809,111
	2,782,678		2,789,461		2,812,692		2,791,155	1. 6:	2,778,279		2,783,146	
	2,782,679		2,791,937		2,780,958		2,792,760		3:	2,780,146		2,799,580
	2,782,680		2,795,997		2,782,685		2,796,005			2,775,921	11:	2,789,051
	2,783,678		2,808,761		2,788,710		2,801,575		4:	2,792,763	13:	2,789,902
	2,783,679		2,809,554		2,792,752		2,805,602		5:	2,802,402	14:	2,794,738
	2,785,599		2,809,555		2,795,170		2,806,409		6:	2,783,686		2,805,156
	2,785,600		2,812,688		2,796,004		2,808,763		9. 4:	2,775,922		2,810,647
	2,786,384	40:	2,813,458		2,797,619		2,809,560			2,782,690	18:	2,793,117
	2,786,385		2,776,596		2,811,898		2,811,901		11:	2,787,196	20:	2,787,940
	2,786,386		2,781,692		2,813,460		2,812,693			2,787,939		2,792,765
	2,786,387		2,782,682		2,810,324		2,807,195			2,786,395	21:	2,780,546
	2,786,388		2,786,389		2,796,003		2,779,242			2,788,716		2,784,085
	2,787,190		2,795,998		2,790,350		2,800,837			2,789,480		2,785,067
	2,787,935		2,797,616		2,796,005		2,802,400			2,791,946		2,786,757
	2,787,936		2,800,055		2,797,620		2,809,561			2,816,485		2,786,758
	2,788,705		2,801,568		2,806,408		2,787,193	11. 42:	2,814,236		2,786,759	
	2,788,707		2,815,697		2,814,970		2,789,473	11. 5:	2,808,764		2,789,903	
	2,789,459	41:	2,777,361		2,791,938		2,800,057	11. 64:	2,776,604		2,797,163	
	2,791,151		2,778,270		2,779,240		2,778,276	12:	2,780,966		2,801,169	
	2,791,152		2,786,390		2,792,753		2,779,243		2,811,903		2,806,787	
	2,791,935		2,786,391		2,807,984		2,789,474		13:	2,782,691		2,807,543
	2,791,936		2,789,462		2,797,621		2,790,355		12. 5:	2,787,196		
	2,792,746		2,796,003		2,811,899		2,790,356			2,782,691	23:	2,796,006
	2,792,747		2,803,994		2,807,192		2,784,641			2,784,648		2,796,807
	2,794,364		2,806,407		2,807,193		2,784,648			2,787,197	24:	2,779,251
	2,794,365		2,813,459		2,782,686		2,787,197			2,790,359	26:	2,778,282
	2,794,366	43:	2,783,681		2,783,686		2,783,687			2,793,568	27:	2,807,989
	2,795,167	44:	2,814,968		2,802,394		2,797,622			2,793,568		2,811,904
	2,795,168	47:	2,778,271		2,803,998		2,803,169			2,794,370	28:	2,791,158
	2,795,994		2,781,693		2,778,273		2,804,806			2,794,371		2,796,808
	2,795,995		2,795,999		2,780,959		2,809,562			2,800,838		2,799,208
	2,795,996		2,811,079		2,811,083		2,815,699			2,811,085		2,809,567
	2,796,802		2,811,896		2,778,274		2,817,999			2,816,486		2,816,490
	2,797,613	51:	2,798,409		2,788,711		2,776,599	34:	2,809,566	13. 05:	2,796,809	
	2,797,614		2,801,569		2,793,566		2,811,084			2,793,569	34:	2,796,809
	2,797,615	52:	2,797,617		2,775,919		2,780,963	35:	2,780,963	13. 1:	Re. 24.361	
	2,799,204	53:	2,811,897		2,789,464		2,794,369			2,808,765		2,779,252
	2,799,205	54:	2,796,000		2,791,939		2,804,807			2,812,694		2,782,692
	2,799,206	54. 5:	2,809,556		2,802,395		2,809,563			2,800,060		2,791,159
	2,800,054	56:	2,792,748		2,805,600		2,788,713	36:	2,788,713	13. 2:	2,785,608	
	2,800,833		2,795,410		2,807,985		2,779,244	37:	2,779,244	13. 4:	2,812,695	
	2,800,834		2,803,995		2,780,960		2,780,964			2,814,237		2,796,810
	2,801,566	57:	2,776,597		2,776,598		2,787,194	37. 5:	2,787,194	13. 5:	2,778,280	
	2,801,567		2,777,362		2,804,803		2,803,170			2,786,396		2,784,650
	2,802,393		2,777,363		2,817,271		2,782,687	41:	2,778,277		2,786,398	
	2,803,163		2,777,364	89— 1:	2,779,241		2,789,475			2,788,718	41:	2,785,284
	2,803,164		2,778,272		2,780,961		2,789,476			2,790,360	43:	2,779,254
	2,803,165		2,779,238		2,789,465		2,791,156			2,800,839		2,781,699
	2,803,166		2,779,239		2,789,466		2,800,058			2,813,461		2,781,700
	2,803,991		2,780,137		2,789,467		2,805,603		13. 7:	2,784,649		2,803,172
	2,803,992		2,780,138		2,790,351		2,807,987			2,791,157	44:	2,779,253
	2,804,800		2,780,139		2,791,940		2,814,234		14:	2,793,570		2,784,651
	2,805,599		2,780,140		2,796,004		2,778,278		15:	2,816,487		2,786,398
	2,806,406		2,780,141		2,798,412		2,785,006			2,818,000		2,783,719
	2,807,189		2,780,142		2,804,804		2,790,357					2,797,623
	2,807,190		2,781,694		2,807,986		2,802,401		15. 1:	2,788,717		2,799,209
	2,807,980		2,781,695		2,810,325		2,779,245			2,792,764	46:	2,791,947
	2,808,757		2,782,683	1. 5:	2,814,971		2,781,696			2,779,250	49:	2,780,968
	2,808,758		2,782,684		2,778,275		2,785,007			2,778,2		

92—	57:	2,777,367	94—	34:	2,801,579	95—	64:	2,777,371	96—	107:	2,784,090	97—	54:	2,798,420	98—	40:	2,804,007	
		2,797,624		35:	2,817,274			2,803,182		108:	2,784,091		55:	2,780,975			2,807,992	
		2,813,463		39:	2,817,275			2,805,610			2,816,030		56:	2,805,613			2,807,993	
	59:	2,802,404		46:	2,813,466		69:	2,777,372		109:	2,776,211		59:	2,793,578			2,811,093	
	66:	2,778,285			2,813,467		73:	2,780,153		114:	2,787,545		61:	2,779,262			2,811,094	
	70:	2,806,412		46:	2,779,258			2,789,491			2,808,331			2,787,203			2,813,475	
	74:	2,776,605			2,789,485			2,807,199		115:	2,787,546		62:	2,780,976			2,813,476	
93—	1:	2,783,690			2,796,811		75:	2,780,154		116:	2,789,905			2,796,011			2,814,242	
		2,786,399		48:	2,812,696			2,817,279		5:	2,796,816		63:	2,787,945			2,814,243	
		2,787,941		50:	2,775,925			2,787,201		10:	2,783,698			2,790,368			2,814,978	
		2,788,079		1:	2,782,697			2,797,626			2,785,613			2,797,628		41:	2,790,372	
		2,791,948			2,813,468			2,800,064			2,788,725		66:	2,781,711		42:	2,778,293	
		2,792,766			2,817,276		76:	2,814,975		13:	2,791,952		68:	2,787,204			2,784,660	
		2,793,572		1.1:	2,796,812		77.5:	2,783,697		15:	2,775,926		71:	2,812,700			2,799,214	
		2,799,210			2,807,198		85:	2,804,002		19:	2,804,004		78:	2,783,701			2,806,419	
	1.3:	2,809,568			2,813,469		86:	2,780,156		20:	2,813,472			2,796,012			2,814,979	
	8:	2,777,368		1.7:	2,781,704			2,791,950		26:	2,777,373			2,797,629		43:	2,777,382	
		2,779,255			2,781,705			2,806,416			2,780,157		115:	2,795,179			2,780,981	
		2,805,607			2,791,949		89:	2,776,611		31:	2,807,200		123:	2,785,617			2,800,849	
		2,809,569			2,803,177			2,780,973		32:	2,818,007			2,797,630			2,805,615	
		2,818,003			2,816,493			2,780,974		34:	2,792,769			2,816,498		46:	2,800,850	
	18:	2,785,609			2,817,277			2,786,401		35:	2,804,813		177:	2,808,772		54:	2,807,202	
	19:	2,788,720		4.5:	2,780,151			2,790,363		37:	2,788,726		179:	2,777,379		55:	2,782,705	
		2,803,173			2,781,706			2,792,768		40:	2,787,943			2,793,579			2,797,632	
	20:	2,779,256			2,786,400			2,793,574			2,793,576		188:	2,804,815		58:	2,818,009	
		2,818,004			2,787,199			2,801,580			2,795,176			2,805,614			2,808,773	
	22:	2,782,694			2,788,721			2,804,812			2,800,065		198:	2,796,013		62:	2,811,095	
		2,810,328			2,790,362			2,810,331			2,803,183		198.1:	2,781,712		67:	2,805,616	
	35:	2,780,969			2,791,162			2,811,909			2,805,611			2,785,618		84:	2,803,184	
		2,781,701			2,800,062		90.5:	2,781,708			2,816,495		209:	2,785,619			2,805,617	
	36:	2,778,286			2,803,178			2,800,845		41:	2,777,374		210:	2,790,369		87:	2,798,422	
		2,779,257			2,808,768			2,804,003		42:	2,776,612		212:	2,796,819		88:	2,789,493	
		2,783,691		10:	2,780,971		93:	2,791,951			2,784,655			2,812,701		94:	2,780,982	
		2,785,610		11:	2,781,707		94:	2,810,332		43:	2,779,259		213:	2,781,713			2,781,717	
		2,796,007			2,783,696			2,811,088			2,791,953		215:	2,811,912			2,787,207	
		2,811,086			2,796,813			2,812,699			2,792,770		216:	2,802,408			2,789,494	
		2,813,464			2,800,842		100:	2,793,575			2,805,612			2,816,499			2,796,822	
36.01:		2,799,211			2,808,769			2,811,910		44:	2,789,492		220:	2,818,008			2,801,582	
		2,801,677			2,812,697			2,813,471			2,800,066		225:	2,779,263			2,804,817	
		2,803,174			2,812,698			2,817,280		46.07:	2,777,375		226:	2,778,292			2,810,335	
		2,803,175		11.5:	2,782,698		105:	2,800,846			2,780,159		227:	2,777,380			2,814,244	
36.5:		2,778,287			2,789,486			2,803,541			2,782,703		230:	2,780,977		98:	2,808,774	
		2,803,176			2,800,063		96—	2,803,542			2,786,402			2,786,405		99.8:	2,790,373	
36.6:		2,776,606			2,807,990			2,808,328			2,786,403			2,795,180			2,800,851	
		2,776,607			2,811,907			2,803,543			2,790,364		98—	1:	2,791,168		105:	2,790,374
		2,800,840		12:	2,796,814			2,808,329			2,804,005			2,806,417			106:	2,811,096
36.8:		2,776,608			2,809,570			2,808,330			2,804,814			2,817,281			108:	2,800,852
		2,785,611		12.5:	2,792,767			2,814,555		46.09:	2,790,365		1.5:	2,811,090		110:	2,780,983	
37:		2,789,481			2,796,009			2,790,715		46.27:	2,778,290			2,814,241			2,790,375	
		2,802,406			2,796,815			2,787,543			2,781,709			2,815,705			2,790,376	
		2,815,700			2,817,278			2,794,739			2,785,614		2:	2,785,620		114:	2,799,215	
39:		2,801,578		13:	2,780,972			2,789,052			2,785,615			2,786,406			2,806,420	
		2,811,087			2,788,722			2,789,053			2,809,573			2,787,205		115:	2,779,265	
44:		2,813,465			2,789,488			2,799,581		46.39:	2,800,847			2,787,206			2,807,994	
49:		2,775,923			2,794,376			2,801,919		46.41:	2,794,382			2,791,957			2,809,575	
		2,783,692			2,794,377		29:	2,778,734			2,776,613			2,796,014			2,810,336	
		2,794,372			2,794,378			2,789,054		46.59:	2,780,160			2,796,820			2,810,337	
		2,804,000			2,797,625			2,794,740			2,783,699			2,797,631		116:	2,784,661	
		2,808,766			2,804,811			2,802,735			2,815,703			2,798,421			2,785,622	
		2,818,005		14:	2,784,653		33:	2,804,388		46.81:	2,790,366			2,800,067			2,793,580	
51:		2,776,609			2,782,699			2,811,443		46.93:	2,785,616			2,800,068			2,800,853	
		2,794,373			2,794,379		37:	2,811,444		47.02:	2,791,167			2,807,201			2,802,409	
		2,798,416			2,815,701			2,816,025			2,811,089			2,810,333			2,812,703	
52:		2,783,693		17:	2,778,288			2,811,445		47.1:	2,811,911			2,811,913		118:	2,804,008	
53:		2,780,148		18:	2,778,289			2,805,157		47.14:	2,777,376			2,812,702		119:	2,775,928	
		2,780,970			2,782,700			2,789,904			2,782,704			2,817,282			2,790,377	
		2,782,695			2,788,723			2,792,303			2,807,991					121:	2,802,410	
		2,794,374			2,794,380			2,807,544		47.15:	2,777,377		9:	2,810,334			2,803,185	
54.2:		2,789,482			2,795,173			2,808,179			2,784,656		10:	2,794,383			2,797,636	
		2,816,491			2,803,179			2,804,001			2,795,177		20:	2,813,473		99—	1:	2,778,736
55.1:		2,783,694			2,804,001			2,780,152		47.24:	2,788,727			2,801,581		2:	2,776,889	
		2,802,407			2,782,701		60:	2,810,648		47.25:	2,788,727		33:	2,804,816			2,784,092	
		2,814,240			2,788,724		61:	2,782,120		47.34:	2,783,700			2,806,418			2,786,760	
		2,818,006			2,789,489			2,782,121			2,793,577			2,817,283			2,789,906	
58:		2,789,483			2,791,163		66:	2,784,086		47.37:	2,788,728			2,787,207			2,797,997	
		2,817,273			2,791,164			2,794,741		47.38:	2,788,729		36:	2,785,621			2,801,173	
58.1:		2,806,413			2,794,381			2,805,947		47.43:	2,815,704		37:	2,777,381			2,806,788	
58.2:		2,776,610			2,795,174			2,815,284		47.51:	2,779,260			2,780,978			2,806,789	
		2,810,329			2,800,843			2,816,026		47.52:	2,796,817			2,790,370			2,808,332	
58.3:		2,798,417			2,809,571		75:	2,778,735			2,816,496			2,804,006			2,809,892	
58.4:		2,807,197			2,810,330			2,780,547		47.53:	2,784,657			2,814,977			2,810,649	
59:		2,816,492			2,813,470			2,781,265			2,797,627		38:	2,781,714			2,818,340	
62:		2,791,161			2,803,180			2,805,159		47.54:	2,788,730			2,787,946		3:	2,790,716	
		2,796,008		34:	2,803,180			2,807,545		47.58:	2,81							

99—	10: 2,784,094	99—	109: 2,803,547	99—	163: 2,801,927	99—	283: 2,811,098	100—	52: 2,817,288	101—	93: 2,811,102
	11: 2,811,447		2,816,035		2,801,928		2,818,010		53: 2,784,665		2,811,103
	14: 2,776,212		2,787,549		2,806,794		2,777,383		56: 2,799,219		2,811,918
	2,785,069		2,813,027		2,810,651		2,796,018		57: 2,817,289		2,813,479
	2,802,737		2,789,909		2,813,032		2,783,704		88: 2,785,625		2,813,480
	2,802,738		2,794,746		2,791,509		2,814,245		97: 2,810,339		2,813,481
	2,813,024		2,799,556		2,811,453		2,798,423		98: 2,791,171		2,814,985
	2,813,025		2,813,028		2,812,259		2,817,285		2,804,820		2,814,986
	2,816,834		2,781,269		2,778,739		2,780,162		2,808,776		2,817,291
16: 2,785,977			2,782,122		2,785,985		2,809,577		2,811,100		2,818,018
20: 2,813,794			2,786,762		2,786,769		2,809,578		2,782,710		2,779,267
22: 2,776,891			2,793,122		2,799,589		2,782,706		2,816,502		2,780,165
23: 2,784,095			2,796,351		2,801,180		2,796,823		2,817,290		2,800,074
	2,784,096		2,805,950		2,805,164		2,788,733		2,807,205		2,817,292
	2,785,978		2,816,036		2,807,548		2,799,217		2,807,988		2,801,583
	2,796,348		2,817,590		2,810,652		2,800,070		2,795,184		2,784,668
	2,796,349		2,783,151		2,811,454		2,806,421		2,808,989		2,777,387
	2,813,795		2,784,098		2,813,798		2,818,011		126: 2,796,826		2,783,708
31: 2,803,546			2,787,550		2,816,837		2,806,422		127: 2,800,072		2,799,223
35: 2,813,026			2,793,123		2,777,769		2,787,947		142: 2,787,949		2,800,075
36: 2,811,448			2,801,177		2,784,103		2,790,378		165: 2,797,635		2,814,987
38: 2,783,147			2,808,336		2,793,126		2,800,071		174: 2,798,424		2,779,299
43: 2,789,907			2,815,285		2,793,127		2,809,579		2,818,013		2,792,780
48: 2,787,547			2,815,286		2,793,955		2,804,818		180: 2,775,930		2,780,166
	2,798,811		2,789,910		2,809,896		2,796,019		192: 2,791,172		2,783,709
	2,801,175		2,797,164		2,811,455		2,813,478		200: 2,792,777		2,793,586
	2,806,791		2,779,679		2,813,033		2,811,914		211: 2,781,720		2,796,581
	2,807,547		2,783,152		2,776,216		2,782,707		218: 2,780,989		2,793,587
50.5: 2,811,449			2,812,255		2,779,581		2,785,623		2,794,386		2,797,637
	2,816,031		2,809,114		2,787,552		2,794,384		219: 2,812,708		2,803,191
	2,816,032		2,813,029		2,802,743		2,794,385		229: 2,782,711		2,810,340
51: 2,790,718			2,778,737		2,807,549		2,806,423		232: 2,788,736		2,779,288
54: 2,776,213			2,783,153		2,807,550		2,814,980		233: 2,788,737		2,780,167
	2,783,148		2,785,072		2,810,038		2,815,012		234: 2,776,616		2,780,991
	2,793,953		2,803,548		2,785,074		2,804,011		248: 2,815,708		2,790,382
	2,811,450		2,783,154		2,802,744		2,780,163		256: 2,793,584		2,808,777
56: 2,794,743			2,786,763		2,802,745		2,784,663		257: 2,815,709		2,779,269
57: 2,781,267			2,786,764		2,813,034		2,795,182		268: 2,807,206		2,791,173
61: 2,812,253			2,791,508		2,817,592		2,805,618		269: 2,786,410		2,775,933
63: 2,818,341			2,808,337		2,777,770		2,788,734		289: 2,775,931		2,811,104
70: 2,802,739			2,809,893		2,781,272		2,816,501		1: 2,811,101		2,797,638
	2,787,588		2,811,451		2,789,913		2,815,707		4: 2,776,617		2,813,482
71: 2,783,149			2,813,030		2,783,155		2,809,580		5: 2,778,296		2,787,212
	2,788,276		2,801,178		2,815,708		2,781,718		19: 2,803,187		2,789,497
	2,801,920		2,809,894		2,815,709		2,807,203		20: 2,786,411		2,804,014
	2,804,389		2,803,549		2,785,986		2,814,246		26: 2,778,297		2,813,483
77: 2,785,979			2,812,256		2,801,929		2,780,984		28: 2,793,585		2,814,247
77.1: 2,786,761			2,801,922		2,789,058		2,807,995		32: 2,803,188		2,800,076
	2,787,548		2,803,550		2,800,410		2,815,706		35: 2,785,626		2,814,248
	2,791,505		2,809,587		2,789,059		2,783,705		36: 2,802,412		2,798,425
	2,793,120		2,800,409		2,785,075		2,794,387		37: 2,799,220		2,813,484
	2,793,954		2,812,257		2,788,281		2,785,624		41: 2,807,207		2,791,174
	2,794,744		2,800,407		2,788,282		2,787,948		42: 2,777,385		2,796,826
	2,794,745		2,784,099		2,798,814		2,791,959		44: 2,778,298		2,800,077
	2,800,408		2,785,982		2,780,551		2,792,773		46: 2,781,721		2,806,422
	2,805,162		2,786,765		2,785,076		2,795,183		48: 2,818,017		2,808,778
79: 2,776,892			2,789,911		2,801,930		2,797,633		56: 2,787,951		2,810,341
80: 2,801,176			2,795,503		2,806,795		2,804,012		60: 2,814,984		2,814,988
	2,808,333		2,798,813		2,812,260		2,811,915		65: 2,797,636		2,798,427
	2,813,796		2,801,923		2,786,770		2,815,707		66: 2,777,386		2,811,919
81: 2,785,077			2,801,924		2,785,077		2,817,287		69: 2,784,666		2,789,498
83: 2,788,277			2,818,343		2,806,796		2,790,380		91: 2,790,381		2,809,582
85: 2,792,304			2,778,738		2,816,840		2,814,982		2,796,828		2,816,504
88: 2,785,980			2,785,983		2,777,771		2,810,338		2,807,999		2,775,934
89: 2,784,097			2,786,766		2,780,552		2,791,960		2,815,711		2,790,383
90: 2,810,650			2,786,767		2,787,553		2,784,664		2,816,503		2,798,428
92: 2,776,893			2,790,719		2,797,166		2,796,020		2,786,412		2,788,738
	2,781,268		2,809,895		2,798,815		2,804,819		2,787,954		2,809,581
	2,796,350		2,812,258		2,796,352		2,788,735		2,780,164		2,811,919
93: 2,783,150			2,817,591		2,786,768		2,793,582		2,781,719		2,789,499
94: 2,791,506			2,782,123		2,788,283		2,811,099		2,792,778		2,809,582
	2,801,921		2,784,100		2,816,841		2,812,706		2,795,185		2,816,504
	2,802,740		2,784,101		2,817,593		2,796,824		2,796,828		2,775,934
	2,802,741		2,803,551		2,815,289		2,792,775		2,807,999		2,790,383
	2,808,334		2,788,280		2,806,797		2,797,634		2,815,711		2,798,428
95: 2,793,121			2,781,270		2,812,262		2,792,776		2,816,503		2,806,425
98: 2,776,894			2,811,452		2,789,914		2,792,775		2,776,618		2,790,384
	2,789,055		2,785,073		2,804,009		2,792,775		2,781,722		2,780,990
	2,795,502		2,793,124		2,787,208		2,797,634		2,784,667		2,801,584
100: 2,779,678			2,799,588		2,795,181		2,792,775		2,785,627		2,794,389
	2,785,981		2,815,287		2,792,772		2,797,634		2,786,412		2,791,175
	2,789,056		2,790,720		2,809,576		2,792,775		2,787,210		2,789,499
	2,802,742		2,790,721		2,817,288		2,797,634		2,787,952		2,787,214
	2,812,254		2,779,680		2,812,284		2,792,775		2,787,953		2,790,385
102: 2,785,071			2,785,984		2,793,581		2,807,204		2,792,779		2,794,390
	2,813,797		2,790,717		2,777,124		2,805,619		2,796,829		2,783,710
103: 2,816,835			2,797,165		2,788,732		2,780,986		2,796,830		2,802,416
104: 2,789,057			2,801,925		2,797,166		2,782,709		2,799,221		2,776,619
105: 2,816,033			2,816,037		2,798,815		2,807,997		2,799,222		2,782,713
	2,817,589		2,793,125		2,809,576		2,812,707		2,800,073		2,804,015
	2,818,342		2,804,390		2,817,284		2,799,218		2,800,854		2,775,935
107: 2,788,278			2,805,951		2,812,704		2,796,825		2,802,414		2,794,391
	2,789,908		2,784,102		2,793,581		2,803,186		2,802,415		2,794,392
	2,791,507		2,786,768		2,777,124		2,793,583		2,805,620		2,795,186
	2,798,812		2,781,271		2,788,732		2,808,776				
	2,799,584		2,797,998		2,816,500		2,809,577				
	2,805,163		2,806,793		2,799,216		2,810,339				
	2,806,792		2,809,115		2,796,017		2,811,454				
	2,808,335		2,776,214		2,812,705		2,812,706				
	2,816,034		2,780,550		2,784,662		2,813,033				
	2,816,836		2,787,551		2,804,010		2,814,246				
109: 2,788,279			2,789,912		2,783,703		2,796,825				
	2,792,305		2,792,307		2,811,097		2,803,186				
	2,792,306		2,801,179		2,786,408		2,793,583				
	2,799,585		2,801,926		2,808,775		2,817,287				

101—	274: 2,782,714	102—	26: 2,779,279	103—	2: 2,784,670	103—	52: 2,812,717	103—	126: 2,808,785	103—	232: 2,777,398
	283: 2,791,176		27: 2,779,280		2,793,593		2,813,490		2,809,592		2,797,648
	288: 2,787,215		2,796,834		2,794,397		2,790,392		2,816,510		233: Re.24,304
	291: 2,779,271		28: 2,777,389		2,808,779		2,796,026		2,816,511		2,790,395
	292: 2,775,937		2,801,585		3: 2,781,726		2,797,646		2,816,512		2,803,197
	298: 2,778,304		2,802,421		2,787,959		2,809,589		2,816,513		2,804,830
	2,795,187		2,802,422		2,800,857		2,815,715		2,817,297		234: 2,777,399
	322: 2,788,739		2,818,020		2,804,016		72: 2,804,020		2,818,023		241: 2,817,299
	328: 2,776,620		30: 2,812,712		2,804,017		83: 2,816,508		129: 2,811,927		248: 2,809,597
	329: 2,778,305		33: 2,817,294		2,808,780		84: 2,777,394		131: 2,783,714		260: 2,812,723
	333: 2,778,306		37.6: 2,785,632		4: 2,791,964		87: 2,780,174		134: 2,778,317		262: 2,778,318
	2,783,711		37.8: 2,790,389		2,791,965		2,782,720		136: 2,776,625		2,782,726
	2,797,639		2,807,208		2,797,642		2,782,721		2,777,396		2,795,197
	336: 2,798,429		38: 2,776,621		2,804,018		2,784,672		2,781,000		263: 2,798,442
	348: 2,795,188		2,777,391		2,806,429		2,785,635		2,786,422	104—	1: 2,787,965
	349: 2,811,105		2,791,961		2,807,213		2,791,967		2,789,513		2,787,966
	350: 2,787,955		39: 2,779,281		2,808,781		2,792,786		2,791,185		2,787,967
	2,788,740		41: 2,786,415		2,810,345		2,796,835		2,809,593		2,787,968
	2,788,741		2,793,590		2,811,924		2,799,227		2,818,024		9: 2,786,426
	2,802,417		2,812,713		2,818,022		2,802,425		2,818,025		12: 2,789,516
	2,817,293		44: 2,811,922		5: 2,780,171		2,803,194		2,782,725		2,791,971
	351: 2,788,742		2,818,021		2,785,634		2,804,021		2,802,425		2,795,198
	359: 2,797,640		49: 2,776,622		2,786,417		2,805,626		2,811,928		17: 2,799,230
	364: 2,777,388		2,776,623		2,790,391		2,808,782		2,814,255		18: 2,802,427
	366: 2,787,216		2,779,282		2,793,594		2,809,590		2,777,397		26: 2,814,996
	2,813,485		2,779,283		2,794,398		2,810,348		2,791,969		48: 2,817,300
	369: 2,794,393		2,787,218		2,798,435		2,814,254		2,810,351		88: 2,816,516
	2,810,343		2,789,505		2,810,346		89: 2,805,627		2,789,514		89: 2,781,001
	375: 2,787,956		2,791,962		2,812,715		93: 2,795,193		2,794,400		2,796,839
	2,790,386		2,792,784		2,814,992		96: 2,791,182		2,804,023		2,796,840
	2,794,394		2,798,430		6: 2,787,220		97: 2,780,175		2,813,491		93: 2,787,969
	378: 2,779,272		2,801,586		2,788,745		2,786,420		2,780,177		2,818,031
	382: 2,788,743		2,804,822		2,807,214		2,806,433		2,785,638		96: 2,786,427
	2,814,989		2,804,823		2,816,506		2,795,194		2,786,423		118: 2,788,749
	391: 2,779,273		2,807,209		7: 2,777,393		103: 2,784,673		2,791,186		126: 2,811,111
	2,785,629		2,809,584		10: 2,780,172		2,787,962		2,796,838		150: 2,791,972
	2,816,505		2,814,250		11: 2,781,727		2,796,027		2,801,594		2,792,409
	2,818,019		50: 2,784,669		2,791,179		2,796,028		2,811,929		170: 2,803,198
	392: 2,779,274		2,787,958		2,803,192		2,800,084		2,818,026		172: 2,782,727
	394: 2,785,630		2,793,591		2,778,312		2,807,217		2,818,027		2,812,724
401.1:	2,789,500		2,801,587		12: 2,798,436		2,808,783		2,798,440		246: 2,800,861
	2,800,856		51: 2,793,592		16: 2,800,858		2,809,591		2,803,195		247: 2,807,219
	2,802,418		56: 2,782,716		2,816,507		2,810,349		2,816,514		258: 2,789,517
	2,804,821		2,809,585		25: 2,778,313		2,812,718		2,795,195		2,807,220
	2,814,990		63: 2,805,622		2,786,418		104: 2,804,826		2,795,196		2,810,354
	404: 2,815,712		65.4: 2,800,079		2,787,960		2,815,716		2,796,032		259: 2,817,301
	407: 2,779,275		66: 2,780,995		26: 2,804,019		106: 2,800,998		2,818,028		260: 2,782,728
	415: 2,800,078		67: 2,798,431		35: 2,787,221		108: 2,775,945		2,793,596	105—	1: 2,789,518
415.1:	2,778,307		70: 2,779,284		37: 2,776,624		2,816,509		2,779,294		3: 2,803,199
	2,793,588		2,796,024		2,778,314		2,777,395		2,779,295		2,815,720
	2,802,419		2,800,080		2,800,082		2,794,399		2,801,595		4: 2,782,729
	416: 2,811,920		2,807,210		2,806,430		2,806,434		2,807,218		2,785,640
	421: 2,797,641		70.2: 2,775,941		2,812,716		2,811,109		2,776,626		2,812,725
	425: 2,786,413		2,775,942		38: 2,777,390		2,798,438		2,789,515		2,812,726
	2,791,177		2,789,506		2,787,222		113: 2,780,999		2,809,594		2,816,517
	2,810,344		2,791,963		2,791,180		2,784,674		2,813,492		8: 2,793,597
	426: 2,811,106		2,796,025		2,795,191		2,790,393		2,815,718		10: 2,794,401
	2,812,709		2,800,081		2,797,643		2,791,968		2,776,627		27: 2,811,112
102—	2: 2,815,713		2,801,588		2,798,437		2,792,787		2,776,628		29: 2,782,730
	4: 2,778,308		2,804,824		2,801,591		2,798,439		2,776,629		35: 2,802,428
	6: 2,775,938		2,809,586		2,806,431		2,801,592		2,779,296		49: 2,789,519
	2,787,217		71: 2,782,717		2,806,432		2,804,022		2,802,426		2,814,257
	2,791,178		2,790,390		2,807,215		2,808,784		2,804,828		95: 2,787,970
	7: 2,780,992		2,806,427		2,811,108		2,810,350		2,813,493		132.1: 2,811,113
	2,789,501		73: 2,779,285		2,814,252		2,811,110		2,814,256		148: 2,780,178
	2,789,502		2,806,428		39: 2,779,290		2,815,717		2,816,515		159: 2,800,086
	2,814,249		2,808,000		40: 2,808,003		2,817,296		2,808,008		160: 2,805,629
	7.2: 2,796,021		76: 2,779,286		41: 2,780,173		2,779,292		2,785,639		160.5: 2,814,258
	2,809,583		78: 2,778,310		2,797,644		2,780,176		2,792,789		177: 2,781,002
	8: 2,790,387		2,801,589		2,804,825		2,782,722		2,797,647		178: 2,787,226
	2,812,710		79: 2,781,725		2,782,718		2,784,675		2,786,424		191: 2,782,731
	13: 2,775,939		2,798,432		2,782,719		2,785,636		2,801,596		193: Re.24,349
	2,786,414		2,807,211		2,791,966		2,791,183		2,784,676		196: 2,797,649
	2,789,503		80: 2,777,392		2,800,083		2,796,836		2,812,720		2,797,650
	2,813,486		2,789,507		2,808,004		2,799,228		2,792,790		197: 2,777,400
	14: 2,793,589		81.2: 2,812,714		2,808,005		2,778,316		2,798,441		2,777,401
	16: 2,779,276		2,778,311		2,809,588		2,782,723		2,815,719		2,781,003
	2,779,277		2,779,287		2,813,488		2,789,511		2,818,029		2,805,630
	2,780,993		2,795,190		2,815,714		2,796,029		2,791,970		2,811,114
	2,781,723		2,805,623		44: 2,775,944		2,808,006		2,804,829		2,814,259
	2,787,957		2,817,295		2,778,315		2,779,293		2,814,994		199: 2,780,179
	2,795,189		83: 2,789,508		2,786,419		2,788,747		2,787,964		2,796,841
	17: 2,781,724		84: 2,808,001		2,810,347		2,775,946		2,817,298		200: 2,817,302
	18: 2,780,994		2,814,251		2,811,925		2,781,729		2,783,715		210: 2,781,731
	2,792,782		86.5: 2,785,633		2,814,253		2,782,724		2,787,225		215: 2,787,971
	2,802,420		90: 2,801,590		45: 2,779,291		2,785,637		2,776,630		221: 2,781,004
	20: 2,779,278		92.5: 2,805,624		46: 2,787,223		2,791,184		2,784,677		225: 2,777,402
	2,782,715		93: 2,775,943		2,787,961		2,804,827		2,800,085		2,782,732
	2,785,631		2,788,744		2,795,192		2,805,628		2,808,786		228: 2,804,024
	2,792,783		2,798,433		2,799,225		2,811,926		2,810,352		242: 2,806,435
	2,796,022		2,809,587		2,799,226		2,796,837		2,812,721		280: 2,784,679
	2,796,833		97: 2,780,996		2,800,859		2,786,421		2,812,722		282: 2,778,319
	2,799,224		98: 2,779,288		2,802,423		2,788,748		2,811,930		2,791,973
	2,811,921		2,780,997		2,803,193		2,812,719		2,786,425		286: 2,815,721
21.6:	2,790,388		2,813,487		2,805,625		2,796,030		2,809,595		308: 2,810,355
21.8:	2,796,023		1: 2,786,416		2,807,216		2,781,730		2,799,229		2,810,356
22:	2,806,426		2,787,219		2,813,489		2,787,224		2,800,860		2,810,357
	2,812,711		2,798,434		2,814,993		2,787,963		2,814,995		2,818,032
	2,814,991		2,807,212		47: 2,784,671		2,789,512		2,783,716		309: 2,810,358
	23: 2,775,940		2,808,002		49: 2,802,424		2,790,394		2,803,196		

105— 358: 2,811,115 367: 2,808,788 2,812,727 368: 2,782,733 2,802,429 2,818,303 2,818,033 369: 2,786,428 2,803,200 2,803,201 2,806,436 2,808,009 2,808,789 2,811,116 2,812,728 2,813,495 2,817,304 2,817,305 376: 2,790,396 393: 2,794,402 397: 2,806,437 401: 2,815,722 406: 2,788,750 409: 2,779,297 2,780,180 2,784,680 2,804,025 2,813,496 414: 2,801,597 416: 2,792,791 418: 2,814,997 419: 2,783,718 422: 2,794,403 2,815,723 424: 2,813,497 458: 2,788,751 106— 1: 2,780,553 2,806,798 10: 2,780,554 2,782,124 2,812,263 13: 2,777,772 2,803,552 2,812,264 14: 2,783,156 2,784,104 2,785,078 2,791,510 2,796,353 2,811,456 2,816,842 14.5: 2,795,504 15: 2,789,060 2,797,999 2,800,412 2,804,391 2,809,897 2,818,344 19: 2,809,116 22: 2,810,653 23: 2,785,079 24: 2,798,000 28: 2,794,747 30: 2,776,895 34: 2,802,746 2,813,801 2,817,594 35: 2,798,816 36: 2,784,105 37: 2,792,309 38.23: 2,798,001 2,798,817 38.28: 2,786,771 38.35: 2,790,722 2,798,818 2,802,747 2,813,035 2,816,040 38.5: 2,816,843 38.6: 2,795,505 38.7: 2,816,041 38.9: 2,809,898 2,812,265 39: 2,776,896 2,776,897 2,776,898 2,777,773 2,781,273 2,789,061 2,801,181 2,803,553 2,805,165 40: 2,776,210 2,786,772 42: 2,801,182 43: 2,792,310 2,806,799 2,806,800 2,814,566 44: 2,816,844 45: 2,776,899 46: 2,782,125	106— 46: 2,782,126 2,804,392 47: 2,777,774 2,787,554 2,790,723 2,805,166 48: 2,795,506 2,800,414 52: 2,776,217 2,776,900 53: 2,813,036 2,799,590 55: 2,816,042 57: 2,776,218 2,785,284 2,802,748 2,818,345 60: 2,798,002 62: 2,805,167 2,814,567 64: 2,814,568 65: 2,793,128 2,785,080 66: 2,803,554 2,792,311 67: 2,801,183 69: 2,802,749 2,802,750 2,808,338 2,811,457 72: 2,815,292 74: 2,807,552 2,788,285 80: 2,793,956 82: 2,806,801 84: 2,809,118 86: 2,793,957 90: 2,776,901 2,776,902 2,776,903 2,793,724 2,793,129 2,798,003 2,801,931 2,804,393 2,816,043 92: 2,783,167 93: 2,795,507 2,795,508 95: 2,804,394 97: 2,794,748 2,803,555 2,815,293 98: 2,803,556 99: 2,785,987 2,793,130 100: 2,790,725 2,792,312 2,793,958 2,801,932 108: 2,781,274 109: 2,779,682 2,785,988 2,791,511 118: 2,815,294 121: 2,793,131 2,800,415 122: 2,810,654 123: 2,786,773 2,815,295 128: 2,776,219 135: 2,799,591 2,799,592 2,813,037 136: 2,776,220 141: 2,805,952 146: 2,810,655 153: 2,810,656 2,811,459 154: 2,784,106 2,810,657 162: 2,786,774 2,789,915 163: 2,779,683 2,805,168 2,805,169 2,814,569 164: 2,792,313 165: 2,777,775 2,781,275 2,783,158 2,784,107 2,810,658 2,813,038 170: 2,776,904 2,778,740 2,792,314 2,809,119 173: 2,793,959 2,812,266 176: 2,789,916 2,805,170 2,805,171 177: 2,782,127 2,782,128	106— 179: 2,809,899 2,811,460 180: 2,811,461 181: 2,809,120 2,810,659 2,814,570 182: 2,816,044 183: 2,812,267 193: 2,778,741 2,787,555 2,795,509 2,801,933 2,811,462 194: 2,803,557 197: 2,781,276 205: 2,803,558 208: 2,780,555 2,791,512 213: 2,796,354 2,801,184 218: 2,776,221 220: 2,801,934 230: 2,797,167 238: 2,776,905 241: 2,805,953 243: 2,785,989 2,793,132 2,807,553 2,809,121 2,783,159 255: 2,815,292 256: 2,783,160 257: 2,776,906 268: 2,797,168 270: 2,780,556 2,783,161 2,796,355 2,802,751 2,816,845 271: 2,807,554 272: 2,777,776 2,796,356 2,807,555 273: 2,797,169 2,815,296 277: 2,780,557 2,786,775 2,789,017 2,789,918 278: 2,783,162 2,805,954 280: 2,783,163 286: 2,788,286 2,790,726 2,795,510 287: 2,788,287 2,793,980 2,798,593 2,818,346 288: 2,786,776 2,799,594 2,799,595 2,801,185 2,801,186 2,805,955 2,805,956 2,805,957 2,816,045 289: 2,791,513 296: 2,785,990 2,793,961 2,796,357 298: 2,808,339 2,813,039 299: 2,795,511 300: 2,780,558 2,796,358 2,798,819 2,817,595 2,818,347 301: 2,777,777 2,777,778 304: 2,785,991 2,793,133 2,811,463 2,818,348 305: 2,806,802 306: 2,776,222 2,786,777 307: 2,793,134 2,794,749 2,813,040 2,816,046 308: 2,789,919 2,805,958 2,809,122 310: 2,793,962 107— 1: 2,778,321 2,780,181 2,784,681 2,784,682 2,794,404 2,795,199 2,798,443 2,800,087 2,804,831	107— 1: 2,810,359 2,811,117 2,816,518 2,817,306 2,818,034 4: 2,780,182 2,781,732 2,784,683 7: 2,799,231 8: 2,808,790 2,811,933 9: 2,782,734 2,790,397 12: 2,783,719 2,785,752 2,791,974 2,792,702 2,800,862 2,804,026 2,811,934 2,814,260 14: 2,777,403 2,778,322 2,778,323 2,779,298 2,782,735 2,782,736 2,791,187 2,791,975 2,793,598 2,797,652 2,798,444 2,800,833 2,802,430 15: 2,787,972 2,803,202 2,806,438 2,807,221 19: 2,784,684 2,797,653 2,794,405 21: 2,802,431 2,813,498 2,814,998 25: 2,790,398 26: 2,790,399 28: 2,791,188 2,814,261 44: 2,801,598 46: 2,778,324 47: 2,778,325 48: 2,780,183 2,785,641 2,786,429 2,797,654 2,808,791 2,815,724 54: Re.24,299 2,785,642 2,796,033 57: 2,784,685 2,784,686 2,791,189 2,804,027 2,809,598 2,812,729 58: 2,786,430 59: 2,804,832 63: 2,783,720 2,792,793 66: 2,777,404 67: 2,800,089 108— 1: 2,783,721 2,802,432 2,804,028 2,805,631 2,812,730 3: 2,811,935 7: 2,801,599 2,804,833 2,808,010 13: 2,799,232 2,814,999 16: 2,790,400 2,801,600 2,800,863 2,811,118 26: 2,807,222 28: 2,777,405 2,780,184 2,784,687 30: 2,801,601 32: 2,805,632 33: 2,802,433 109— 1: 2,792,794 34: 2,804,029 47: 2,775,947 50: 2,798,445 52: 2,791,976 59: 2,800,090 2,803,203 62: 2,786,431 63.5: 2,778,326 2,783,722	109— 63.5: 2,797,655 2,811,119 2,811,936 87: 2,814,262 110— 1: 2,776,631 2,781,005 2,788,753 2,791,977 2,793,599 2,805,633 2,818,035 7: 2,808,011 8: 2,777,406 2,788,754 18: 2,783,723 2,790,401 2,800,864 2,802,434 2,804,031 2,814,263 2,816,519 28: 2,777,407 2,778,327 2,782,738 2,800,091 2,800,092 2,800,093 2,808,012 32: 2,794,406 38: 2,806,439 40: 2,804,834 56: 2,780,185 68: 2,795,200 97: 2,789,520 2,791,190 98: 2,789,521 99: 2,781,006 2,787,227 2,799,233 103: 2,811,120 105.5: 2,800,094 2,807,223 106: 2,780,186 165: 2,780,187 173: 2,776,632 2,790,402 2,791,191 2,792,795 179: 2,804,032 2: 2,776,633 2,815,725 3: 2,791,192 2,799,234 2,804,033 2,813,499 4: 2,775,948 5: 2,812,731 2,815,726 6: 2,789,522 7: 2,781,733 2,782,739 2,794,407 2,802,435 2,804,034 7.1: 2,790,403 2,800,865 2,808,013 52: 2,782,740 2,812,732 80: 2,808,792 2,818,036 92: 2,776,634 112— 2: 2,776,635 2,777,408 2,787,228 2,787,229 2,792,796 2,797,656 2,809,599 2,811,121 2,812,733 3: 2,787,230 2,796,842 11: 2,778,328 2,811,935 16: 2,787,231 18: 2,783,724 21: 2,800,095 36: 2,807,224 38: 2,780,188 46: 2,780,189 52: 2,779,299 67: 2,799,235 76: 2,788,755 77: 2,804,035 2,814,265 79: 2,781,007 2,782,741 2,784,688 2,784,689 2,785,643	112— 79: 2,800,096 2,804,835 2,809,600 2,818,037 79.5: 2,780,190 2,812,734 100: Re.24,305 2,809,601 103: 2,806,440 105: 2,803,204 108: 2,811,939 110: 2,802,436 2,811,122 114: 2,781,734 2,788,756 2,804,036 118: 2,803,205 121: 2,790,404 2,815,000 122: 2,800,097 123: 2,790,405 124: 2,803,206 139: 2,815,038 140: 2,801,602 147: 2,776,636 151: 2,781,008 158: Re.24,370 2,792,737 2,803,207 2,805,634 2,810,360 160: 2,779,300 2,788,757 169: 2,781,009 174: 2,816,010 2,816,520 188: 2,784,690 192: 2,811,940 199: 2,778,329 2,782,735 204: 2,796,034 207: 2,811,123 209: 2,782,742 210: 2,794,408 2,808,793 2,818,039 213: 2,787,232 214: 2,777,409 215: 2,783,725 218: 2,808,014 219: 2,796,035 220: 2,788,758 2,793,600 221: 2,781,011 2,799,236 2,802,437 223: 2,785,644 225: 2,815,727 226: 2,792,798 231: 2,802,438 2,813,500 2,817,307 235: 2,804,037 2,808,794 2,811,124 2,814,266 241: 2,790,406 251: 2,780,191 252: 2,811,012 2,808,795 256: 2,780,192 2,791,193 258: 2,796,036 260: 2,788,759 2,808,796 2,808,797 261: 2,788,760 2,790,407 262: 2,800,866 2,818,040 264: 2,780,193 2,781,013 266: 2,813,501 269: 2,787,233 113— 1: 2,781,014 2,805,635 10: 2,791,978 11: 2,786,432 15: 2,777,410 2,790,408 18: 2,811,125 23: 2,779,301 33: 2,782,743 2,793,601 35: 2,794,409 38: 2,781,015 2,783,726 2,802,439 42: 2,807,226 44: 2,783,727 2,783,728 2,787,973
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2,818,042 210: 2,816,522 219: 2,797,657 221: 2,800,868 2,806,442 2,811,127 230: 2,808,016 235: 2,798,448 240: 2,793,602 115— .5: 2,792,800 1: 2,812,737 14: 2,797,659 17: 2,791,196 2,811,942 18: 2,787,974 2,804,838 25: 2,775,950 28: 2,809,602 29: 2,808,802 30: 2,785,647 35: 2,794,410 39: 2,812,738 41: 2,782,744 2,809,605 42: 2,815,731 52: 2,784,691 2,777,414	116— 8: 2,789,527 22: 2,788,762 28: 2,784,692 2,815,732 31: 2,786,436 33: 2,810,361 34: 2,793,603 2,794,411 2,795,204 2,798,449 2,798,450 35: 2,800,098 2,787,236 2,802,441 36: 2,807,229 2,793,604 56: 2,788,763 57: 2,793,605 2,802,442 63: 2,777,415 2,781,017 2,782,745 2,783,730 2,787,975 2,790,410 2,798,451 2,800,099 2,802,443 2,808,803 2,817,808 67: 2,781,018 2,788,764 2,802,444 70: 2,779,304 2,786,437 86: 2,804,040 101: 2,782,746 105: 2,792,801 106: 2,777,416 2,778,330 2,798,452 2,799,239 112: 2,779,305 2,782,747 2,782,748 2,804,839 114: 2,780,198 2,782,749 2,782,750 2,787,237 2,787,238 2,789,528 2,796,039 2,796,040 2,803,212 2,809,606 2,815,733 115: 2,777,417 2,805,636 116: 2,810,362 117: 2,780,199 2,800,869 2,811,128 2,817,309 118: 2,785,648 2,791,197 119: 2,778,331 2,798,453 124: 2,775,951 2,778,332 2,780,200 2,781,019 2,782,751 2,783,731 2,808,017 124.1: 2,781,736 2,790,411 124.4: 2,781,737 2,808,018 129: 2,780,201 2,782,752 2,783,732 2,786,438 2,788,765 2,792,802 2,792,803 2,794,412 2,794,413 2,804,041 2,805,637 2,810,363 130: 2,776,638 133: 2,798,454 2,803,213 2,813,503 2,814,267 135: 2,780,202 2,795,205 2,813,504 136.5: 2,793,606 2,793,607 137: 2,783,733 2,784,693 2,792,804 2,800,100	116— 137: 2,804,042 141: 2,792,805 142: 2,789,529 2,811,129 148: 2,787,976 149: 2,800,101 2,808,019 155: 2,800,870 169: 2,782,753 2,793,608 173: 2,794,414 174: 2,799,240 2,793,963 2,798,004 2,812,268 4: 2,781,277 2,797,170 2,817,596 5.3: 2,784,108 2,795,512 7: 2,779,684 2,794,750 2,797,171 8: 2,798,005 2,800,416 9: 2,798,006 10: 2,780,559 2,790,727 2,809,900 2,817,597 11: 2,785,081 2,795,513 2,798,820 2,802,752 2,811,464 2,815,297 12: 2,786,778 13: 2,797,172 14: 2,818,349 17: 2,776,223 2,805,959 2,806,803 17.5: 2,776,907 2,784,109 2,787,556 2,788,288 2,793,135 2,811,465 2,817,598 18: 2,810,660 21: 2,798,821 2,806,256 2,813,041 22: 2,785,082 2,786,779 2,803,559 2,811,466 2,814,571 25: 2,777,779 30: 2,782,129 2,787,557 2,798,822 33: 2,793,136 33.3: 2,793,964 2,813,802 2,816,047 33.5: 2,776,908 2,776,909 2,779,685 2,785,992 2,787,558 2,789,062 2,792,317 2,793,137 2,795,514 2,798,823 2,802,753 2,809,123 34: 2,790,728 2,791,514 35: 2,801,935 2,815,298 36: 2,777,780 2,781,278 2,810,661 2,813,042 37: 2,778,742 38: 2,776,224 2,779,686 2,782,130 2,800,417 2,805,960 41: 2,776,225 42: 2,800,418 44: 2,785,083 2,790,729 2,804,395 46: 2,778,743 2,800,419 2,806,804 2,809,124 2,809,901	117— 47: 2,779,687 2,789,063 2,808,349 2,809,125 2,812,269 49: 2,777,782 2,793,138 2,804,396 50: 2,801,187 2,812,270 51: 2,785,084 2,797,173 2,813,044 54: 2,784,110 2,798,007 2,809,126 2,813,045 55: 2,789,920 60: 2,780,560 62: 2,776,910 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2,793,620 2,794,423 2,797,665 2,798,459 2,799,248 2,800,110 2,800,111 2,802,453 2,802,454 2,804,052 2,804,849 2,805,647 2,806,449 2,806,450 2,807,238 2,808,809 2,809,611 2,809,612 2,810,370 2,811,950 2,815,004 2,817,317 39: 2,778,344 2,789,542 2,799,249 2,803,221 40: 2,782,766 2,787,252 2,790,425 2,801,615 2,801,616 2,803,222 2,804,053 2,804,054 2,808,810 2,811,136 2,811,137 2,811,951 2,813,518 2,815,005 2,815,736 41: 2,775,957 2,779,314 2,781,743 2,781,744 2,782,767 2,784,702 2,784,703 2,787,253 2,787,254 2,788,770 2,789,543 2,791,203 2,794,424 2,797,666 2,799,250 2,799,251 2,799,252 2,801,617 2,801,618 2,802,455 2,803,223 2,807,239 2,807,240 2,811,138 2,813,519 2,815,737 2,817,318 42: 2,782,768 2,782,769 2,812,746 44: 2,783,743 45: 2,780,204 2,781,026 2,798,460 2,802,456	121—	46: 2,783,744 2,784,704 2,786,453 2,788,771 2,790,426 2,794,425 2,802,457 2,803,224 46. 4: 2,785,660 46. 5: 2,777,426 2,783,745 2,786,454 2,787,255 2,790,427 2,796,851 2,798,461 2,800,112 2,801,619 2,807,241 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	2, 808, 038		2, 791, 993	142. 5:	2, 776, 651		2, 815, 015		2, 783, 755	2:	2, 778, 357
41. 12:	2, 786, 456		2, 792, 819	145:	2, 795, 220		2, 818, 057		2, 792, 826		2, 780, 220
	2, 802, 459		2, 795, 217	146. 5:	2, 786, 087		2, 801, 625		2, 799, 267		2, 780, 221
	2, 807, 246		2, 795, 218		2, 790, 841		2, 816, 537		2, 800, 126		2, 790, 437
	2, 808, 817		2, 797, 673		2, 796, 453		2, 786, 461		2, 804, 066		2, 790, 438
41. 15:	2, 811, 956		2, 803, 231		2, 798, 109		2, 814, 284		2, 804, 869		2, 795, 223
	2, 798, 465		2, 803, 232		2, 808, 447		2, 777, 436		2, 809, 627		2, 797, 682
	2, 815, 739		2, 804, 060	148:	2, 781, 412		2, 779, 323		2, 811, 962		2, 800, 895
41. 16:	2, 810, 372		2, 804, 061		2, 782, 247		2, 808, 820		2, 818, 059		2, 804, 069
41. 19:	2, 776, 648		2, 804, 062		2, 783, 289		2, 814, 285	113:	2, 804, 067		2, 810, 383
41. 21:	2, 787, 986		2, 804, 863		2, 784, 244		2, 817, 329		2, 804, 870	2. 05:	2, 812, 757
	2, 804, 860		2, 804, 864		2, 785, 215		2, 777, 437		2, 805, 660		2, 796, 863
41. 31:	2, 785, 664		2, 806, 459		2, 787, 649		2, 815, 016		2, 806, 466		2, 799, 270
41. 35:	2, 788, 773		2, 806, 460		2, 788, 780		2, 802, 461		2, 807, 258		2, 801, 629
	2, 800, 119		2, 807, 251		2, 790, 020	125—	1: 2, 781, 754		2, 810, 381		2, 811, 964
	2, 808, 039		2, 808, 818		2, 797, 252		3: 2, 801, 626		2, 798, 477		2, 815, 748
41. 38:	2, 788, 774		2, 809, 618		2, 809, 224		11: 2, 778, 353	116:	2, 808, 046	2. 06:	2, 813, 525
	2, 807, 247		2, 811, 959		2, 814, 659		2, 780, 214		2, 808, 047		2, 815, 749
	2, 815, 011		2, 812, 750		2, 814, 660		2, 781, 035		2, 811, 151	2. 07:	2, 822, 828
	2, 816, 528		2, 813, 520	149:	2, 792, 439		2, 782, 778	120:	2, 808, 824	2. 1:	2, 799, 269
41. 42:	2, 784, 705		2, 813, 521		2, 796, 454		2, 786, 462	121:	2, 787, 997		2, 808, 826
41. 43:	2, 799, 259		2, 814, 283		2, 815, 394		2, 791, 211	123:	2, 791, 213	4:	2, 783, 757
41. 46:	2, 788, 775		2, 815, 012	169:	2, 795, 221		2, 792, 823	140:	2, 814, 287	6:	2, 779, 327
41. 54:	2, 799, 260		2, 815, 740	179:	2, 775, 962		2, 792, 824	141:	2, 800, 127		2, 793, 639
41. 64:	2, 797, 671		2, 816, 532		2, 779, 322		2, 794, 433	190:	2, 815, 018		2, 797, 683
	2, 799, 261		2, 818, 050		2, 793, 634		2, 797, 678	191:	2, 800, 128	9:	2, 797, 684
	2, 799, 262		2, 818, 051		2, 796, 059		2, 800, 124	194:	2, 776, 655	13:	2, 800, 896
41. 65:	2, 782, 774	97:	2, 778, 349		2, 796, 856		2, 803, 238		2, 780, 219	17:	2, 809, 628
	2, 796, 053		2, 785, 668		2, 799, 264		2, 804, 064		2, 805, 661	19:	2, 775, 965
	2, 811, 957		2, 804, 063		2, 803, 236		2, 804, 867	200:	2, 794, 434	20:	2, 807, 259
41. 67:	2, 816, 529		2, 805, 656		2, 809, 623		2, 804, 868	202:	2, 803, 241		2, 812, 758
41. 82:	2, 788, 776	98:	2, 798, 468		2, 816, 535		2, 806, 462	204:	2, 792, 827		2, 812, 759
41. 83:	2, 783, 748	99:	2, 791, 207	180:	2, 812, 754		2, 807, 255	208:	2, 800, 891	24:	2, 789, 557
	2, 783, 749	102:	2, 783, 752		2, 812, 755		2, 815, 017		2, 816, 539		2, 792, 829
41. 85:	2, 816, 530		2, 796, 854	185:	2, 781, 033		2, 815, 744	214:	2, 803, 242	24. 1:	2, 779, 328
41. 86:	2, 782, 775	103:	2, 780, 209		2, 784, 709		2, 817, 330	220:	2, 799, 268		2, 787, 998
	2, 786, 457		2, 780, 210		2, 789, 551		2, 807, 256	243:	2, 800, 892		2, 792, 830
	2, 808, 040		2, 780, 211		2, 799, 265		2, 818, 058	261:	2, 811, 963		2, 795, 224
44:	2, 807, 248		2, 781, 751		2, 804, 865		2, 804, 065	262:	2, 800, 893		2, 800, 897
46:	2, 783, 750		2, 796, 055	187. 5:	2, 788, 781		2, 808, 044		2, 801, 627		2, 803, 243
	2, 811, 148		2, 817, 323	188:	2, 776, 652		2, 811, 960	263:	2, 814, 288	24. 2:	2, 809, 629
	2, 811, 958	108:	2, 808, 042		2, 778, 352		2, 797, 679	270:	2, 791, 214	24. 3:	2, 787, 261
47:	2, 781, 031	117:	2, 809, 619		2, 787, 992		2, 808, 821		2, 798, 478		2, 809, 630
	2, 795, 216		2, 809, 620		2, 797, 676		2, 815, 745	271. 1:	2, 781, 755	25:	2, 777, 439
48:	2, 816, 531	119:	2, 775, 960		2, 797, 677		2, 798, 473	271. 2:	2, 815, 019		2, 791, 999
50:	2, 786, 458		2, 775, 961		2, 799, 266		2, 798, 474		2, 815, 747		2, 815, 020
51:	2, 781, 748		2, 778, 350		2, 800, 122		2, 792, 825	273:	2, 796, 060	28:	2, 776, 658
	2, 781, 749		2, 785, 669		2, 807, 253		2, 795, 222	292:	2, 783, 756		2, 798, 479
	2, 805, 654		2, 786, 460		2, 813, 524		2, 803, 239	307:	2, 776, 656		2, 798, 480
52:	2, 791, 990		2, 787, 989		2, 817, 326		2, 808, 045		2, 789, 555		2, 810, 384
	2, 801, 620		2, 787, 990	190:	2, 787, 993		2, 815, 746		2, 808, 825	30:	Re. 24, 357
	2, 806, 457		2, 787, 991	191:	2, 785, 670		2, 777, 438		2, 818, 060		2, 776, 659
	2, 808, 041		2, 791, 994		2, 791, 996		2, 778, 354	337:	2, 804, 068		2, 779, 329
55:	2, 781, 750		2, 791, 995		2, 800, 123		2, 779, 324		2, 806, 467		2, 787, 999
	2, 782, 776		2, 793, 632		2, 803, 237		2, 779, 325	343. 5:	2, 804, 871		2, 816, 540
	2, 791, 205		2, 797, 674		2, 810, 377		2, 781, 036		2, 808, 048		2, 787, 999
56:	2, 796, 853		2, 800, 120		2, 815, 014		2, 798, 475	350:	2, 806, 468	33:	2, 781, 040
	2, 786, 459		2, 800, 121		2, 818, 054		2, 808, 822	360:	Re. 24, 295		2, 790, 440
58:	2, 807, 249		2, 801, 623	193:	2, 775, 963		2, 809, 625		2, 781, 756		2, 808, 827
	2, 776, 649		2, 803, 233		2, 788, 782		2, 776, 653		2, 782, 781		2, 808, 828
	2, 783, 751		2, 809, 621		2, 791, 209		2, 778, 355		2, 810, 382	34:	2, 786, 465
59:	2, 785, 665		2, 810, 374		2, 804, 866		2, 811, 961	374:	2, 782, 782		2, 809, 631
	2, 788, 777		2, 812, 751		2, 818, 055		2, 787, 260		2, 788, 783	44:	2, 796, 861
	2, 793, 631		2, 813, 522	195:	2, 780, 212		2, 780, 215	384:	2, 790, 436	57:	2, 797, 685
61:	2, 804, 861		2, 818, 052		2, 781, 034		2, 798, 476	385:	2, 811, 152		2, 806, 469
65:	2, 780, 208	120:	2, 777, 432		2, 784, 710		2, 797, 680		2, 814, 289	60:	2, 781, 041
	2, 778, 348		2, 781, 752		2, 787, 994		2, 779, 326	127—	7: 2, 816, 049		2, 806, 470
	2, 787, 987		2, 815, 013		2, 789, 552		2, 781, 037	22:	2, 796, 365		2, 808, 000
	2, 792, 817		2, 817, 324		2, 789, 553		2, 786, 463	30:	2, 809, 903		2, 790, 441
	2, 796, 054	122:	2, 781, 032		2, 792, 820		2, 787, 995		2, 818, 356		2, 800, 899
	2, 797, 672		2, 788, 779		2, 796, 857		2, 787, 996	31:	2, 807, 559		2, 818, 061
	2, 798, 466		2, 793, 633		2, 810, 378		2, 797, 681	32:	2, 778, 750	66:	2, 776, 660
	2, 802, 460		2, 797, 675		2, 817, 327		2, 806, 463	33:	2, 805, 966		2, 793, 640
	2, 805, 655	127:	2, 796, 056	198:	2, 783, 753		2, 816, 538	34:	2, 783, 167	68:	2, 803, 244
	2, 806, 458	133:	2, 796, 855		2, 792, 821		2, 805, 658		2, 784, 118	69:	2, 777, 440
	2, 811, 149	136:	2, 794, 431		2, 798, 470		2, 782, 779	36:	2, 803, 567	71:	2, 787, 262
69:	2, 776, 650	139:	2, 777, 433		2, 798, 471		2, 791, 212		2, 787, 562		2, 798, 481
71:	2, 787, 259		2, 777, 434		2, 798, 472		2, 806, 464		2, 789, 066	75:	2, 801, 630
	2, 792, 818		2, 778, 351	124—	1: 2, 783, 754		2, 790, 434	37:	2, 778, 751		2, 803, 245
	2, 814, 281		2, 784, 708		2: 2, 784, 711		2, 817, 331		2, 791, 523		2, 808, 049
73:	2, 782, 777		2, 789, 550		6: 2, 793, 635		2, 778, 356		2, 801, 939		2, 811, 965
	2, 788, 778		2, 790, 432		7: 2, 792, 822		2, 814, 286	38:	2, 776, 228	76. 5:	2, 781, 042
	2, 801, 621		2, 794, 432		2, 806, 461		2, 781, 038	40:	2, 797, 176		2, 785, 671
	2, 814, 282		2, 796, 057		2, 815, 743		2, 796, 858	43:	2, 807, 560		2, 803, 246
75:	2, 789, 547		2, 796, 058		10: 2, 816, 536		2, 789, 554		2, 818, 358		2, 797, 332
	2, 804, 862		2, 799, 263		11: 2, 780, 213		2, 782, 780	44:	2, 801, 940	78:	2, 778, 358
	2, 807, 250		2, 803, 234		2, 810, 376		2, 791, 997		2, 802, 757		2, 808, 050
	2, 810, 373		2, 810, 375		2, 812, 752		2, 806, 465	46:	2, 785, 998		2, 813, 526
76:	2, 798, 467		2, 812, 753		2, 813, 523		2, 778, 995	48:	2, 776, 229	80:	2, 787, 263
78:	2, 791, 991		2, 813, 523		2, 815, 741		2, 775, 966	55:	2, 813, 810		2, 797, 686
	2, 801, 622		2, 816, 533		2, 817, 328		2, 780, 216	66:	2, 798, 0		

128— 85: 2,808,052 87: 2,785,672 2,800,900 2,802,463 2,806,471 2,807,260 2,813,527 2,816,541 2,818,063 89: 2,781,757 90: 2,800,129 92: 2,780,223 2,781,758 2,785,673 2,801,631 2,812,761 94: 2,796,862 2,807,261 98: 2,779,330 99: 2,815,023 127: 2,811,153 2,818,064 132: 2,816,542 133: 2,783,759 2,798,482 134: 2,782,783 2,806,472 136: 2,800,898 2,809,632 137: 2,818,065 140: 2,779,331 2,784,713 141: 2,775,967 2,785,674 2,800,901 2,810,385 2,811,966 142: 2,781,043 2,788,001 2,792,831 2,804,071 2,810,386 2,810,387 2,814,290 2,814,291 2,814,292 2,815,750 2,817,334 2,818,066 2,818,067 144: 2,792,832 145: 2,775,968 2,780,224 2,792,000 2,815,751 146: 2,784,714 2,787,264 2,791,216 2,798,483 2,809,633 2,811,967 2,814,293 152: 2,785,675 2,785,676 2,803,247 2,804,072 153: 2,781,044 2,786,466 2,792,001 156: 2,785,677 2,787,266 2,802,464 2,804,073 2,807,262 2,811,154 2,817,335 158: 2,798,484 159: 2,802,465 167: 2,800,902 170: 2,815,752 172: 2,787,267 173: 2,784,715 2,785,678 2,798,485 2,798,486 2,800,903 2,816,543 2,816,544 191: 2,803,248 2,812,762 192: 2,785,679 195: 2,809,634 201: 2,788,784 203: 2,791,217 206: 2,777,442 214: 2,777,443 2,786,467 2,792,002 2,794,435 2,800,904 2,816,545 215: 2,814,294 216: 2,805,682 218: Re.24,322 2,776,661	128— 218: 2,778,359 2,778,360 2,786,468 2,789,559 2,792,833 2,792,834 2,798,487 2,799,271 2,804,074 2,806,473 2,809,635 2,811,155 2,812,763 2,813,528 2,816,546 221: 2,799,272 225: 2,803,249 2,811,968 227: 2,777,444 2,784,716 229: 2,813,529 231: 2,815,753 2,815,754 232: 2,782,784 2,798,488 235: 2,792,003 240: 2,791,218 241: 2,781,759 2,802,466 248: 2,811,156 249: 2,818,068 250: 2,793,641 252: 2,794,436 2,796,062 2,803,250 2,803,251 2,805,663 2,812,764 2,816,547 2,816,548 253: 2,779,332 2,817,336 260: 2,792,835 266: 2,816,549 271: 2,778,361 272: 2,780,225 2,787,268 2,787,269 2,788,002 2,794,437 2,808,053 2,808,829 2,815,024 2,815,755 2,816,550 2,817,337 275: 2,792,836 2,815,025 276: 2,784,717 2,812,765 277: 2,804,075 283: 2,778,362 2,782,785 2,784,718 2,787,270 2,788,785 2,796,063 2,798,489 2,808,830 2,813,530 2,814,295 2,818,069 284: 2,788,003 2,788,786 2,793,642 2,801,632 2,808,831 2,815,026 285: 2,808,832 2,815,756 286: 2,800,906 2,817,338 287: 2,779,333 288: 2,796,064 2,807,263 290: Re.24,385 2,787,271 2,798,490 2,815,027 294: 2,796,864 295: 2,789,560 2,796,865 2,816,551 296: 2,805,664 303: 2,779,334 2,781,760 2,788,787 2,796,866 2,802,467 2,803,252 2,807,264 2,811,969 303.1: 2,792,004	128—303.12: 2,777,445 303.14: 2,815,757 303.17: 2,808,833 305: 2,787,272 2,816,552 314: 2,801,633 325: 2,799,273 327: 2,803,253 2,811,970 330: 2,798,491 333: 2,818,070 2,818,071 334: 2,817,339 335: 2,798,492 339: 2,802,468 2,808,054 2,811,157 2,814,296 340: 2,795,225 2,808,055 346: 2,796,065 2,796,867 347: 2,779,335 348: 2,790,442 350: 2,813,531 351: 2,786,469 2,792,837 2,804,076 352: 2,791,219 356: 2,799,274 360: 2,811,949 361: 2,792,838 369: 2,801,634 373: 2,817,340 374: 2,780,226 2,814,297 379: 2,798,493 2,798,494 404: 2,814,298 417: 2,782,786 419: 2,785,680 2,808,834 422: 2,779,336 129— 1: 2,799,275 2,807,265 4: 2,804,872 11: 2,789,561 13: 2,784,719 16: 2,790,443 2,800,907 2,810,388 2,815,758 16.1: 2,795,226 16.7: 2,786,470 2,800,130 16.8: 2,799,276 21: 2,814,299 23: 2,802,469 2,809,636 24: 2,791,220 2,817,341 25: 2,799,277 26: 2,789,562 28: 2,793,643 36: 2,807,266 38: 2,816,553 5: 2,779,337 2,792,005 2,818,072 9: 2,787,273 2,792,839 25: 2,811,972 26: 2,814,300 27: 2,794,438 2,796,868 2,808,835 2,811,158 2,812,766 30: 2,782,787 2,790,444 2,801,635 2,803,254 2,804,077 2,804,873 2,807,267 2,808,056 2,808,836 2,809,904 4: 2,782,788 8: 2,815,028 9: 2,809,637 10: 2,785,681 2,786,471 2,789,563 2,792,006 2,795,227 2,804,078 2,804,874 2,806,474 2,808,057 2,812,767 14: 2,775,969 15: 2,775,970 2,797,689	131— 15: 2,801,636 17: 2,776,916 2,778,753 20: 2,815,029 21: 2,800,131 2,805,665 2,808,058 2,809,638 2,815,759 38: 2,785,682 59: 2,788,004 60: 2,791,221 72: 2,779,338 89: 2,795,228 94: 2,779,339 2,786,472 2,798,495 2,802,470 2,808,059 2,808,060 2,809,639 2,809,640 108: 2,796,066 2,805,666 109: 2,791,222 2,795,229 121: 2,783,760 136: 2,777,446 140: 2,798,496 2,805,667 143: 2,805,668 2,805,669 144: 2,799,278 145: 2,789,564 146: 2,802,471 149: 2,780,227 2,785,683 2,809,641 172: 2,792,840 173: 2,802,472 2,803,255 2,815,030 175: 2,776,662 2,779,340 2,783,761 2,788,005 2,794,439 2,816,554 178: 2,777,447 181: 2,778,363 182: 2,778,364 2,785,684 2,785,685 186: 2,790,445 194: 2,776,663 198: 2,791,224 202: 2,801,637 203: 2,797,690 207: 2,796,869 2,797,691 2,804,079 2,805,670 2,807,268 208: 2,780,228 2,792,841 2,800,908 2,801,638 2,805,671 2,815,760 2,815,761 2,818,073 210: 2,782,789 211: 2,776,664 213: 2,775,971 2,795,230 215: 2,798,497 225: 2,808,837 235: 2,776,665 2,778,365 2,779,341 2,786,473 2,790,446 2,790,447 2,795,231 2,798,498 2,800,132 2,800,909 2,806,475 237: 2,777,448 2,804,080 238: 2,786,474 240: 2,786,475 2,786,476 2,799,279 2,808,061 241: 2,781,761 2,784,720 2,799,280 243: 2,790,448 254: 2,800,133 256: 2,777,449 2,779,342 2,781,762 2,792,842	131— 256: 2,796,067 2,796,870 257: 2,785,686 260: 2,796,068 132— 1: 2,777,450 2,785,687 2,796,871 5: 2,812,768 2,814,301 7: 2,775,972 2,776,668 2,781,045 2,781,763 2,782,790 2,783,762 2,785,688 2,787,274 2,789,565 2,789,566 2,791,225 2,794,440 2,805,672 2,807,269 2,808,838 2,817,342 9: 2,781,764 2,810,389 2,818,074 31: 2,794,441 2,800,910 32: 2,776,667 2,793,644 33: 2,800,911 34: 2,783,763 2,785,689 2,785,690 2,788,006 2,797,692 2,803,256 2,809,642 36: 2,777,451 37: 2,811,973 38: 2,781,046 2,788,007 40: 2,813,532 2,781,047 2,788,788 2,796,872 2,801,639 2,808,839 41: 2,776,666 2,779,343 2,787,275 42: 2,787,276 2,793,645 2,809,643 2,809,644 2,809,645 2,809,646 43: 2,792,843 2,811,159 45: 2,778,366 2,781,048 2,786,477 46: 2,796,069 2,798,499 2,799,281 47: 2,785,232 2,805,673 48: 2,787,367 2,795,233 2,797,693 2,813,533 49: 2,775,973 2,798,500 2,815,031 50: 2,791,226 2,797,694 53: 2,789,567 73: 2,816,555 75: 2,816,556 75.4: 2,801,640 76.2: 2,785,691 76.4: 2,811,161 79: 2,796,873 2,805,674 2,809,647 83: 2,779,344 2,783,764 2,796,874 2,804,081 2,804,082 2,808,841 84: 2,790,449 2,794,442 2,796,875 2,796,070 88.5: 2,807,270 88.7: 2,784,721 2,799,282 89: 2,811,162 92: 2,784,722 101: 2,814,302	132— 110: 2,797,695 113: 2,794,443 120: 2,796,071 2,799,283 2,816,557 121: 2,815,032 143: 2,785,692 147: 2,817,343 151: 2,808,062 158: 2,799,284 2,806,476 162: 2,792,007 163: 2,785,693 133— 2: 2,778,368 2,796,876 2,802,473 2,802,474 4: 2,805,675 5: 2,782,791 6: 2,790,450 8: 2,805,676 134— 1: 2,779,695 2,784,119 2,802,758 2,814,575 2: 2,790,738 2,796,366 2,810,665 6: 2,789,067 7: 2,779,696 2,780,568 2,792,316 9: 2,793,144 13: 2,785,999 15: 2,800,420 21: 2,784,120 2,786,000 22: 2,817,606 23: 2,789,927 2,805,967 27: 2,801,941 28: 2,787,563 34: 2,786,001 2,798,012 37: 2,798,825 45: 2,807,271 46: 2,785,694 56: 2,789,568 2,809,648 2,816,558 57: 2,781,765 2,784,723 2,808,063 58: 2,782,792 2,782,793 2,784,724 2,786,478 2,788,789 2,789,569 2,808,064 2,811,974 60: 2,802,475 61: 2,787,277 63: 2,818,075 65: Re.24,281 70: 2,811,163 72: 2,783,765 2,786,479 74: 2,802,476 76: 2,780,229 101: 2,788,008 2,808,842 102: 2,777,452 2,788,009 2,811,975 2,818,076 104: 2,788,010 2,802,477 108: 2,788,790 111: 2,818,077 116: 2,784,725 2,787,278 121: 2,787,279 139: 2,775,974 143: 2,803,257 145: 2,811,976 158: 2,799,285 159: 2,808,843 160: 2,801,641 167: 2,792,008 2,807,272 168: 2,800,134 169: 2,791,227 171: 2,786,480 182: 2,775,975 186: 2,790,451 200: 2,777,453 135— 1: 2,778,369 2,782,794 2,783,766 2,785,695 2,789,570 2,790,452
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135—	1:	2,792,844	136—	90:	2,787,650	137—	85:	2,800,136	137—	218:	2,814,304	137—	444:	2,783,772	137—599.1:	2,807,280
	2:	2,793,646			2,791,620			2,800,914			2,817,354			2,793,655	599.2:	2,813,545
	3:	2,796,877			2,798,111			2,806,480		219:	2,781,051		445:	2,804,087	604:	2,792,018
	4:	2,797,696			2,806,077			2,811,165		221:	2,784,780		448:	2,778,377		2,794,447
	5:	2,802,478		91:	2,806,895		86:	2,816,562		223:	2,778,374			2,804,088		2,796,446
	6:	2,808,844			2,817,697			2,776,669			2,789,577		454:	2,796,078	605:	2,789,579
	7:	2,808,845		100:	2,783,292			2,776,670			2,804,085		454.5:	2,800,140	608:	2,781,780
	8:	2,812,769			2,796,456			2,796,481		224.5:	2,788,795		454.6:	2,783,773		2,782,799
	9:	2,818,078		102:	2,800,579		87:	2,805,679			2,791,233			2,816,569		2,791,236
3:		2,810,390		106:	2,816,152			2,795,234			2,818,080		455:	2,781,737		2,796,079
		2,811,164		107:	2,807,658			2,796,879			2,818,081			2,788,797		2,809,662
4:		2,781,766			2,816,153			2,803,259		236:	2,808,069		458:	2,788,798	614.18:	2,784,739
		2,788,011		111:	2,793,244			2,817,560		238:	2,780,232		458:	2,785,698	614.19:	2,788,802
		2,798,501			2,797,253			2,800,915			2,783,771		460:	2,806,484	620:	2,775,982
		2,799,286			2,798,895			2,815,763		240:	2,810,394		461:	2,800,918		2,778,379
		2,804,083			2,812,377			2,787,281		242:	2,807,277		464:	2,805,680		2,780,242
		2,806,477			2,814,661			2,799,288		243.2:	2,797,701		469:	2,778,378		2,787,287
		2,806,478		112:	2,781,413			2,817,351		244:	2,778,375			2,792,015		2,792,019
		2,808,846		113:	2,798,112			2,785,235			2,784,732			2,793,656		2,795,239
		2,817,344			2,814,662			2,803,260		246.14:	2,786,484			2,813,539		2,796,080
5:		2,777,454		115:	2,788,383		100:	Re.24,410		246.15:	2,815,766			2,815,040		2,799,293
		2,788,791		119:	2,814,663			2,800,137		246.16:	2,788,015			2,817,356		2,810,399
		2,796,072			2,814,664			2,808,848		246.19:	2,788,016			2,799,291		2,811,170
		2,798,502		120:	2,795,638			2,811,166		246.22:	2,788,017			2,799,291		2,811,170
		2,804,876			2,805,271			2,781,771			2,788,796		478:	2,813,540		2,812,775
		2,808,065		125:	2,800,521		101.27:	2,789,573			2,807,278		484.2:	2,800,141		2,815,041
		2,811,977			2,810,008		102:	2,804,878		248:	2,811,980		486:	2,787,285		2,815,042
		2,815,762		133:	2,781,414			2,816,563		255:	2,805,679		487.5:	2,812,773		2,817,359
6:		2,797,697			2,794,060		106:	2,809,652		256:	2,779,351		489:	2,812,774	621:	2,782,802
		2,817,345			2,802,442		107:	2,775,979		267:	2,792,014		490:	2,814,307	622:	2,781,782
7.1:		2,781,767			2,803,691			2,791,228			2,815,767		491:	2,779,352		2,785,699
		2,816,559			2,806,078		108:	2,779,346		268:	2,778,376		491:	2,794,446		2,792,021
8:		2,809,649			2,806,079			2,781,049		271:	2,815,037			2,796,855		2,796,081
15:		2,783,767			2,809,226			2,791,229		276:	2,781,052		492.5:	2,817,357		2,797,705
		2,817,346		134:	2,812,378			2,796,075		309:	2,808,849		493:	2,781,053		2,803,266
20:		2,775,976		135:	2,800,522			2,807,273		315:	2,777,462		493:	2,776,673	622.5:	2,783,775
		2,782,795		137:	2,778,754			2,807,274			2,780,233		493.1:	2,789,578	623:	2,791,237
		2,784,726		143:	2,812,379			2,813,536			2,796,881		493.2:	2,781,774		2,800,143
		2,788,792		144:	2,816,154		110:	2,792,011		316:	2,802,482		493.6:	2,816,571	624:	2,781,056
		2,810,391		145:	2,810,775			2,808,068		321:	2,818,082		494:	2,788,799		2,806,485
23:		2,816,560		146:	2,799,719			2,816,564		328:	2,815,038			2,817,358	625.18:	2,814,309
26:		2,775,977		147:	2,786,089		111:	2,778,372		329.02:	2,804,086		495:	2,787,286	625.25:	2,814,310
28:		2,779,345		162:	2,810,776		112:	2,778,373		329.2:	2,787,283		496:	2,780,240	625.34:	2,782,801
		2,796,073		165:	2,802,443			2,789,575		329.4:	2,796,882		498:	2,781,775	625.36:	2,786,487
33:		2,789,571		166:	2,783,293			2,791,230		340:	2,785,697			2,799,292	625.38:	2,782,800
36:		2,784,727			2,783,294			2,804,879			2,811,981		501:	2,803,264	625.41:	2,817,360
44:		2,781,768			2,801,276			2,811,979		341:	2,777,463		504:	2,816,572	625.43:	2,801,646
45:		2,802,479			2,777,892		113:	2,775,980		353:	2,813,537			2,800,919	625.44:	2,784,740
		2,811,978		170:	2,777,892			2,816,565		356:	2,798,504		505.11:	2,784,731	625.46:	2,782,801
		2,817,347		173:	2,818,463		114:	2,803,261		360:	2,810,395		505.12:	2,775,981	625.48:	2,788,019
47:		2,782,796			2,786,090			2,812,771		375:	2,792,845		505.22:	2,782,798	627.5:	2,807,281
47.5:		2,817,348			2,786,881		115:	2,784,729		376:	2,806,482		505.44:	2,781,776	628:	2,775,768
48:		2,808,066			2,790,022			2,804,084		381:	2,815,039		508:	2,805,681	630.15:	2,817,466
49:		2,778,370			2,797,254		116:	2,779,347		382:	2,816,566		512:	2,809,920	631:	2,799,294
		2,788,793			2,809,227			2,789,576		388:	2,801,644		513.3:	2,809,660	633:	2,797,707
50:		2,793,647		178:	2,786,091		116.3:	2,796,076		390:	2,780,234		516.11:	2,797,464	635:	2,806,486
54:		2,799,287			2,813,142		116.5:	2,773,458			2,780,235		516.13:	2,777,464	636.2:	2,792,847
		2,783,290		137—	1:	2,796,878		2,789,574			2,780,236		516.21:	2,803,265	636.4:	2,811,783
		2,785,216			2,818,079			2,806,481			2,780,237		516.29:	2,792,016	637.1:	2,781,783
		2,788,380			7:	2,815,033		2,786,482			2,780,238		525.5:	2,781,777	637.2:	2,796,888
		2,788,381			8:	2,814,303		2,809,653		392:	2,797,702		527.8:	2,781,054	777:	2,799,580
		2,790,021			13:	2,809,650		2,779,348		393:	2,809,655		532:	2,813,544	784:	2,811,984
		2,792,440			21:	2,790,453		2,811,050			2,816,567		533.15:	2,790,460	787:	2,814,311
		2,794,059			31:	2,805,677		2,791,231		399:	2,784,733		533.25:	2,786,485	789:	2,801,646
		2,794,844			38:	2,788,012		2,815,036			2,793,652		539:	2,797,703	790:	2,805,682
		2,795,637			39:	2,812,770		2,780,231			2,796,883		540:	2,781,778		2,811,171
		2,796,455			47:	2,784,728		2,786,483		400:	2,788,018		540.11:	2,784,737	636.4:	2,811,783
		2,798,893			63:	2,787,280		2,788,014		403:	2,793,653		543.13:	2,795,238	637.1:	2,781,783
		2,805,272			64:	2,790,454		2,792,012		406:	2,803,262		543.19:	2,797,704	637.2:	2,796,888
		2,805,273			65:	2,806,479		2,800,138			2,806,483		543.23:	2,777,465	791:	2,812,777
		2,806,075			66:	2,797,699		2,807,275		408:	2,787,284		544:	2,783,774	793:	2,775,987
		2,807,657			67:	2,810,642		2,810,392			2,796,077		545:	2,788,801	796:	2,811,173
		2,810,005			68:	2,797,455		2,792,013		409:	2,782,797		546:	2,788,019		2,811,172
		2,811,568			69:	2,809,651		2,809,654		410:	2,790,458		547:	2,788,019	636.4:	2,811,783
		2,817,696			70:	2,796,074		2,810,393		411:	2,781,772		548:	2,788,019	637.1:	2,781,783
5:		2,788,382			71:	2,800,912		2,810,393		412:	2,790,459		549:	2,788,019	637.2:	2,796,888
		2,793,243			72:	2,788,794		2,793,648			2,796,884		550:	2,816,573	777:	2,799,580
		2,802,894			73:	2,777,456		2,790,456		414:	2,799,290		551:	2,802,483	784:	2,811,984
		2,811,569			74:	2,781,769		2,807,276			2,811,168		552:	2,813,544	787:	2,814,311
		2,811,570			75:	2,817,349		2,776,671		416:	2,780,239		553:	2,802,483	789:	2,801,646
		2,798,110			76:	2,809,652		2,777,459			2,791,234		554:	2,783,774	790:	2,805,682
		2,798,894			77:	2,788,794		2,809,654		417:	2,784,734		555:	2,816,573		2,811,172
		2,803,690			78:	2,777,456		2,793,648								

138— 31: 2,809,666 2,809,667 2,817,361 37: 2,777,467 2,788,803 2,815,770 39: 2,781,057 2,795,240 42: 2,784,741 2,805,685 44: 2,790,463 45: 2,775,984 2,781,058 2,788,020 2,791,239 2,791,240 2,811,174 46: 2,781,059 2,781,060 2,781,061 2,787,288 2,796,889 2,801,647 2,802,485 2,802,486 2,817,362 46.5: 2,800,925 47: 2,792,848 48: 2,816,575 50: 2,817,363 54: 2,804,095 55: 2,787,289 2,788,804 56: 2,782,803 2,798,508 2,810,400 58: 2,809,668 64: Re.24,366 2,781,786 65: 2,782,804 66: 2,808,851 68: 2,776,674 2,794,448 2,798,509 2,818,083 74: 2,782,805 2,801,648 2,802,487 2,804,885 2,817,364 2,818,084 76: 2,782,806 2,790,464 2,791,241 2,807,282 2,814,313 2,815,043 78: 2,785,700 2,795,241 2,798,510 89: 2,786,489 2,810,401 2,818,086 89.3: 2,780,243 93: 2,811,985 94: 2,780,244 2,812,778 94.3: 2,789,582 2,815,771 94.5: 2,781,787 2,800,926 97: 2,808,852 1: 2,797,709 2,805,686 2,810,402 7: 2,783,776 2,804,096 8: 2,817,365 10: 2,798,511 2,800,146 11: 2,776,675 2,781,788 12: 2,799,295 13: 2,808,071 2,811,986 2,813,547 29: 2,783,777 2,811,175 2,817,366 30: 2,803,267 33: 2,786,490 2,797,710 2,798,512 36: 2,797,711 37: 2,809,669 38: 2,781,789 39: 2,777,468 2,800,147 2,814,314 44: 2,784,742 46: 2,808,072 51: 2,788,021 54: 2,802,488 55: 2,790,465 2,799,296	139— 55: 2,815,772 59: 2,807,283 71: 2,815,044 77: 2,778,380 79: 2,818,085 85: 2,795,242 92: 2,796,083 2,808,073 100: 2,777,469 2,812,779 101: 2,798,513 108: 2,812,780 110: 2,786,491 2,792,023 2,809,670 122: 2,810,403 123: 2,813,548 2,814,315 2,816,576 124: 2,777,470 2,789,583 125: 2,777,471 2,788,022 2,788,805 2,805,687 2,817,367 126: 2,783,778 2,785,701 2,796,084 2,808,853 127: 2,796,085 136: 2,781,790 142: 2,784,743 2,787,290 2,807,284 2,808,074 145: 2,777,472 2,813,549 154: 2,792,024 2,792,025 159: 2,786,492 2,800,148 161: 2,783,779 165: 2,796,086 2,796,087 2,817,368 166: 2,776,676 2,796,890 2,804,097 168: 2,788,806 188: 2,775,985 2,793,658 2,817,369 189: 2,813,550 191: 2,799,297 192: 2,783,780 193: 2,784,744 195: 2,816,577 196: 2,781,791 2,785,702 197: 2,783,781 2,785,703 207: 2,778,381 2,788,024 217: 2,810,404 223: 2,808,075 224: 2,785,704 228: 2,782,807 232: 2,777,473 2,777,474 2,781,792 2,781,793 2,809,671 2,814,316 233: 2,789,584 237: 2,792,026 239: 2,817,370 243: 2,801,649 245: 2,778,382 248: 2,792,849 2,807,285 255: 2,784,745 256: 2,808,076 260: 2,778,383 2,791,242 266: 2,792,850 2,806,487 270: 2,782,808 2,787,291 273: 2,808,077 281: 2,787,292 291: 2,790,466 2,795,243 2,811,987 293: 2,818,087 296: 2,815,045 304: 2,776,677 308: 2,811,176 312: 2,813,551 336: 2,809,672 338: 2,812,781 341: 2,781,794 348: 2,815,773 371: 2,781,795 2,788,025	139— 371: 2,792,027 383: 2,792,851 2,795,244 2,797,712 2,800,927 2,808,854 2,810,405 2,817,371 385.5: 2,811,177 392: 2,808,855 394: 2,779,354 401: 2,787,293 2,794,449 2,807,286 403: 2,780,245 2,796,088 406: 2,777,475 2,800,149 407: 2,808,078 409: 2,816,578 410: 2,785,705 2,788,023 411: 2,794,450 2,797,713 419: 2,807,287 420: 2,804,098 2,804,886 2,812,782 421: 2,788,026 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2,815,779 2,815,780 145— 1: 2,788,814 2: 2,793,664 2,804,109 4: 2,805,696 5: 2,781,804 24: 2,779,367 29: 2,776,689 2,781,805 2,809,684 30: 2,788,815 31: 2,778,395 2,780,256 2,783,798 2,804,110 32: 2,782,820 33: 2,781,806 2,783,036 2,795,251 2,796,098 2,808,086	145— 34: 2,782,821 35: 2,792,038 2,799,309 36: 2,808,861 46: 2,783,799 50: 2,781,807 2,782,822 2,788,816 2,788,817 2,792,039 2,792,861 2,800,936 2,804,894 2,808,087 2,808,862 2,815,054 51: 2,780,257 2,782,823 52: 2,783,800 2,789,601 2,796,099 2,796,100 2,817,377 61: 2,796,101 2,808,088 2,814,322 71: 2,778,396 76: 2,810,415 114.5: 2,811,187 116: 2,782,824 2,794,468 2,812,791 117: 2,792,862 120: 2,794,469 125: 2,794,470 2,804,895 129: 2,777,487 2,798,520 146— 1: 2,791,252 2,812,792 2: 2,789,602 2,792,040 2,794,471 2,785,252 2,798,521 2,811,188 2,815,055 2,818,096 3: 2,781,069 2,791,253 2,801,658 7: 2,782,825 2,783,801 9: 2,806,496 12: 2,812,793 13: 2,804,111 14: 2,783,802 2,799,310 27: 2,813,561 2,816,587 28: 2,788,818 2,788,819 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2, 789, 641	2, 790, 497	2, 816, 610	2, 810, 440	225: 2, 791, 279	2, 789, 937
39: 2, 780, 284	2, 792, 889	2, 786, 530	2, 788, 073	2, 813, 589	2, 790, 744
2, 788, 852	66: 2, 795, 276	2, 804, 145	2, 788, 074	226: 2, 778, 433	2, 790, 745
2, 797, 751	2, 804, 925	2, 811, 205	2, 816, 611	2, 792, 896	2, 811, 478
40: 2, 796, 124	2, 814, 345	2, 788, 071	2, 794, 505	2, 799, 350	2, 813, 058
2, 818, 114	68: 2, 776, 006	2, 793, 696	2, 788, 856	2, 806, 539	48: 2, 795, 527
41: 2, 780, 285	2, 782, 853	2, 795, 279	2, 812, 819	228: 2, 796, 939	2, 811, 479
2, 781, 092	2, 784, 784	2, 804, 146	2, 790, 500	243: 2, 783, 844	49. 5: 2, 805, 975
2, 790, 494	2, 796, 930	2, 813, 583	2, 793, 700	2, 799, 351	52: 2, 800, 576
2, 797, 752	2, 802, 529	2, 818, 117	2, 806, 534	2, 801, 700	2, 793, 155
2, 798, 547	2, 805, 715	2, 818, 118	2, 787, 327	2, 808, 113	2, 803, 582
2, 799, 335	2, 808, 884	2, 786, 531	2, 797, 755	167— 14: 2, 793, 973	2, 807, 566
2, 801, 691	69: 2, 813, 582	2, 804, 147	2, 780, 292	16: 2, 813, 056	2, 818, 369
42: 2, 781, 840	70: 2, 782, 854	2, 815, 815	2, 780, 293	16: 2, 777, 791	53: 2, 797, 182
2, 792, 884	2, 801, 694	2, 776, 010	2, 808, 111	2, 789, 936	2, 809, 913
2, 800, 178	71: 2, 778, 423	2, 784, 787	2, 804, 151	17: 2, 817, 621	2, 810, 676
2, 810, 436	2, 795, 277	2, 796, 130	2, 813, 587	18: 2, 815, 311	2, 811, 480
2, 815, 074	73: 2, 790, 498	2, 811, 206	2, 785, 756	22: 2, 776, 237	2, 814, 583
2, 815, 075	2, 792, 890	2, 818, 119	2, 788, 857	2, 777, 792	53. 1: 2, 783, 178
43: 2, 780, 286	2, 803, 303	2, 776, 713	2, 798, 558	2, 779, 703	2, 787, 574
2, 802, 527	2, 804, 144	2, 782, 857	2, 806, 535	2, 784, 136	2, 800, 425
44: 2, 779, 409	76: 2, 777, 521	2, 787, 325	2, 791, 277	2, 786, 009	2, 802, 772
2, 789, 642	79: 2, 815, 813	2, 800, 963	2, 781, 852	2, 792, 327	2, 809, 914
45: 2, 778, 420	84. 5: 2, 776, 007	2, 801, 698	2, 786, 533	2, 795, 525	2, 812, 282
2, 785, 747	2, 778, 424	2, 801, 999	2, 793, 281	2, 796, 376	2, 815, 313
46: 2, 783, 840	2, 781, 094	2, 811, 207	2, 807, 326	2, 797, 181	2, 818, 370
47: 2, 778, 421	2, 793, 694	2, 813, 584	2, 815, 080	2, 801, 200	53. 2: 2, 792, 329
2, 780, 287	2, 798, 551	2, 799, 341	2, 800, 186	2, 802, 768	2, 793, 976
2, 783, 841	2, 798, 552	2, 811, 208	2, 802, 532	2, 808, 359	54: 2, 785, 103
2, 793, 693	2, 800, 180	2, 801, 185	2, 776, 012	2, 810, 675	2, 781, 290
2, 796, 125	2, 803, 304	2, 801, 715	2, 799, 444	2, 814, 582	2, 789, 938
2, 796, 126	2, 806, 529	2, 805, 718	2, 806, 536	2, 815, 312	2, 794, 762
800, 179	86: 2, 817, 404	2, 796, 131	2, 802, 533	2, 818, 364	2, 795, 528
805, 764	2, 776, 712	2, 800, 964	2, 810, 441	2, 818, 365	2, 799, 617
48: 2, 779, 410	2, 785, 751	2, 803, 306	2, 815, 081	2, 818, 366	2, 801, 951
2, 781, 841	2, 798, 553	2, 805, 719	2, 778, 428	2, 792, 328	2, 802, 773
2, 781, 842	2, 799, 340	2, 806, 530	2, 784, 789	2, 793, 154	56: 2, 786, 058
2, 791, 274	87: 2, 811, 204	2, 806, 531	2, 798, 559	2, 799, 612	2, 788, 308
2, 792, 885	89: 2, 800, 959	2, 807, 324	2, 786, 534	30: 2, 776, 238	2, 796, 378
2, 795, 548	89. 5: 2, 805, 716	2, 815, 079	2, 799, 345	2, 776, 921	2, 801, 201
801, 692	91: 2, 814, 346	2, 779, 415	2, 799, 346	2, 777, 793	2, 809, 915
808, 883	94: 2, 782, 855	2, 779, 416	2, 781, 853	2, 777, 794	2, 804, 421
815, 811	2, 792, 061	2, 779, 417	2, 802, 534	2, 779, 704	64: 2, 776, 740
818, 115	2, 807, 323	2, 782, 858	2, 805, 723	2, 780, 575	2, 776, 923
49: 2, 776, 004	95: 2, 787, 324	2, 805, 720	2, 778, 429	2, 784, 137	2, 779, 705
2, 780, 288	2, 808, 885	2, 781, 850	2, 778, 430	2, 785, 101	2, 780, 577
2, 785, 748	2, 816, 608	2, 792, 893	2, 814, 348	2, 786, 795	2, 784, 141
2, 797, 753	96: 2, 788, 854	2, 796, 934	Re. 24, 352	2, 786, 797	2, 785, 104
2, 798, 549	99: 2, 778, 425	2, 804, 148	2, 796, 937	2, 787, 573	2, 786, 781
2, 810, 437	2, 781, 095	2, 805, 721	2, 776, 013	2, 789, 077	2, 789, 079
814, 343	2, 796, 931	2, 805, 722	2, 798, 347	2, 793, 974	2, 791, 530
817, 403	2, 797, 754	2, 787, 326	2, 808, 888	2, 789, 613	2, 791, 531
50: 2, 777, 518	102: 2, 792, 062	2, 799, 342	2, 785, 757	2, 799, 614	2, 792, 330
2, 783, 842	108: 2, 802, 530	2, 811, 209	2, 789, 645	2, 802, 769	2, 793, 156
2, 796, 929	110: 2, 778, 426	2, 793, 697	2, 802, 535	2, 803, 580	2, 793, 157
2, 799, 336	2, 805, 717	2, 796, 132	2, 781, 100	2, 804, 420	2, 793, 158
2, 799, 337	2, 815, 814	2, 796, 935	2, 787, 328	2, 805, 184	2, 793, 159
800, 958	111: 2, 781, 096	2, 776, 714	2, 797, 756	2, 806, 813	2, 793, 977
812, 816	2, 800, 181	2, 778, 427	2, 802, 536	2, 812, 280	2, 793, 978
51: 2, 781, 843	112: 2, 781, 846	2, 779, 418	2, 804, 152	2, 812, 281	2, 794, 763
2, 781, 844	2, 796, 127	2, 782, 859	2, 808, 112	2, 817, 622	2, 797, 183
53: 2, 792, 886	2, 801, 695	2, 784, 788	2, 811, 210	2, 818, 367	2, 798, 834
54: 2, 783, 843	2, 818, 116	2, 785, 752	2, 797, 757	2, 818, 368	2, 799, 618
58: 2, 805, 714	113: 2, 784, 785	2, 785, 753	2, 776, 014	2, 818, 369	2, 799, 619
814, 344	2, 784, 785	2, 788, 072	2, 816, 612	2, 799, 613	2, 799, 620
59: 2, 781, 093	2, 816, 609	2, 788, 855	181: 2, 784, 790	31: 2, 784, 138	2, 800, 426
2, 781, 845	2, 791, 275	2, 792, 894	183: 2, 796, 938	32: 2, 796, 377	2, 801, 952
2, 790, 495	2, 808, 107	2, 796, 936	185: 2, 798, 560	33: 2, 776, 239	2, 803, 584
2, 798, 338	115: 2, 781, 848	2, 798, 557	187: 2, 778, 431	2, 778, 922	2, 804, 422
2, 809, 696	2, 789, 644	2, 802, 531	2, 779, 419	2, 786, 535	2, 805, 185
2, 815, 076	2, 792, 891	2, 806, 532	2, 786, 535	2, 787, 767	2, 807, 567
816, 607	2, 792, 892	2, 808, 109	2, 815, 817	2, 781, 289	2, 807, 568
60: 2, 776, 710	2, 793, 695	2, 814, 347	2, 818, 120	2, 785, 102	2, 808, 360
2, 779, 411	2, 796, 932	2, 808, 887	188: 2, 776, 015	2, 786, 798	2, 811, 481
2, 784, 783	2, 798, 554	2, 780, 289	190: 2, 808, 889	2, 789, 078	2, 813, 820
2, 787, 323	2, 800, 182	2, 793, 698	192: 2, 808, 890	2, 790, 749	2, 815, 814
2, 788, 853	2, 800, 968	2, 804, 699	195: 2, 779, 420	2, 793, 975	2, 816, 059
2, 790, 496	2, 776, 008	2, 804, 926	196: 2, 806, 537	2, 795, 526	67: 2, 788, 309
2, 802, 528	2, 790, 499	2, 776, 011	199: 2, 813, 588	2, 799, 615	2, 817, 623
2, 804, 134	2, 801, 696	2, 781, 098	203: 2, 780, 294	2, 799, 616	68: 2, 781, 291
2, 804, 142	120: 2, 800, 960	2, 785, 754	204: 2, 791, 278	2, 801, 950	2, 794, 764
2, 808, 697	121: 2, 798, 555	2, 781, 851	2, 797, 758	2, 802, 770	2, 816, 060
2, 815, 077	2, 800, 961	2, 804, 149	2, 797, 759	2, 802, 771	72: 2, 783, 179
61: 2, 776, 005	124: 2, 786, 528	2, 812, 818	2, 796, 134	2, 809, 146	2, 813, 059
2, 776, 711	2, 808, 108	2, 792, 895	2, 812, 025	2, 809, 912	73: 2, 795, 529
2, 777, 519	125: 2, 781, 097	2, 794, 504	2, 777, 522	2, 811, 476	74: 2, 778, 769
2, 777, 520	2, 781, 849	2, 808, 110	2, 785, 758	2, 813, 819	2, 797, 184
2, 778, 422	206: 2, 796, 128	63: 2, 776, 715	2, 792, 063	35: 2, 800, 424	2, 799, 621
2, 779, 413	2, 791, 276	2, 781, 099	2, 799, 348	37: 2, 811, 477	2, 805, 976
2, 785, 749	207: 2, 796, 933	2, 795, 280	218: 2, 781, 854	38. 5: 2, 816, 057	2, 807, 569
2, 785, 750	1: 2, 795, 278	2, 799, 343	2, 782, 860	38. 7: 2, 784, 139	2, 811, 482
2, 792, 060	2, 801, 697	2, 804, 150	2, 806, 538	2, 786, 010	2, 779, 621
2, 792, 887	2, 815, 078	2, 807, 325	2, 810, 442	39: 2, 803, 581	2, 805, 976
2, 792, 888	3: 2, 784, 786	2, 813, 585	2, 816, 613	40: 2, 807, 565	2, 811, 482
2, 799, 339	4: 2, 800, 183	2, 813, 586	219: 2, 777, 523	42: 2, 777, 795	2, 779, 706
2, 801, 693	2, 803, 305	2, 815, 816	221: 2, 804, 927	2, 786, 011	2, 787, 575
2, 804, 143	7: 2, 786, 529	72: 2, 780, 290	224: 2, 790, 501	2, 786, 012	2, 789, 080
2, 808, 105	2, 809, 698	2, 785, 755	2, 798, 561		

167—	75:	2,799,622	169—	31:	2,784,791	174—	35:	2,783,295	174—	168:	2,786,885	178—	6.6:	2,813,926	178—	69.5:	2,801,282
		2,801,953			2,785,759			2,793,245		169:	2,779,815			2,813,927			2,802,051
		2,803,585			2,785,760			2,796,457			2,813,923			2,815,397			2,802,899
77:		2,778,770			2,794,506			2,798,897		170:	2,814,669			2,816,162			2,816,164
		2,779,707			2,796,135			2,807,659		172:	2,816,155			2,817,701		70:	2,785,225
		2,793,159			2,804,153			2,816,948		188:	2,808,451			2,818,464			2,787,657
		2,801,202			2,805,725		40:	2,785,217		211:	2,776,332			2,786,887			2,794,855
		2,815,315			2,783,846			2,790,023	178—	1:	2,806,898		6.7:	2,788,389			2,794,856
78:		2,784,143			2,809,700			2,812,380		2:	2,776,333			2,798,116			2,801,283
		2,786,014	170—	17:	2,812,823		41:	2,790,843			2,779,816			2,801,279			2,802,052
		2,787,576		68:	2,777,524		43:	2,783,296			2,787,654			2,818,465			2,803,703
		2,787,577		79:	2,791,281		44:	2,783,297			2,796,460		6.8:	2,786,096			2,816,956
		2,793,160		135.2:	2,778,436		45:	2,794,061			2,805,278			2,788,390			2,786,097
		2,798,835		135.22:	2,811,212		50:	2,779,812			2,805,279			2,798,901	71:		2,799,724
		2,798,836		135.24:	2,788,075		50.52:	2,813,922			2,805,280			2,813,148			2,810,785
80:		2,785,105		135.27:	2,791,282		50.56:	2,803,693			2,805,283			2,816,159		79:	2,776,340
81:		2,777,797			2,804,154		50.61:	2,808,448			2,808,452		7.1:	2,778,872		179—	1:
		2,777,798		135.29:	2,794,507		50.62:	2,802,896		4.1:	2,810,778			2,778,873			2,787,874
		2,778,771		135.4:	2,776,016		50.64:	2,786,882		5:	2,802,898			2,785,222			2,778,875
		2,787,578			2,782,861		51:	2,810,009			2,806,081			2,785,223			2,781,416
		2,793,161			2,795,283			2,816,949		5.1:	2,788,387			2,794,850			2,784,252
		2,796,380			2,799,353		52:	2,777,893			2,809,231			2,800,527			2,784,253
		2,797,185			2,808,115			2,779,813			2,813,145			2,804,497			2,785,226
		2,798,023			2,808,116			2,786,094			2,816,156			2,816,160			2,786,098
		2,804,423			2,814,349			2,795,639		5.2:	2,790,844			2,779,819			2,786,099
		2,808,361			2,818,122			2,805,275			2,790,845		7.2:	2,782,253			2,786,889
		2,809,148		135.72:	2,801,701		53:	2,778,869			2,799,722			2,784,248			2,790,027
		2,811,483		135.73:	2,809,701		57:	2,811,574			2,808,453			2,786,888			2,790,970
		2,816,854		135.74:	2,776,720			2,811,575			2,810,779			2,804,498			2,791,628
		2,816,855			2,779,422		59:	2,783,298			2,810,780			2,810,015			2,791,629
82:		2,776,924			2,781,856			2,792,443			2,811,577			2,816,954			2,791,630
		2,787,579			2,784,792			2,808,449			2,811,578			2,817,702			2,791,631
		2,793,979			2,796,136		60:	2,813,143			2,816,157			2,818,466			2,792,449
		2,796,381	159:		2,780,297		70:	2,782,249			2,816,158			2,818,467			2,793,248
		2,798,024			2,782,862			2,803,694		5.4:	2,776,334		7.3:	2,776,338			2,793,249
		2,798,837			2,786,538		72:	2,798,898			2,776,335			2,784,249			2,794,857
		2,798,838			2,814,350		73:	2,786,883			2,777,010			2,791,627			2,795,648
		2,805,977		160.11:	2,776,017			2,789,154			2,778,871			2,796,462			2,798,902
		2,809,916		160.12:	2,815,820		74:	2,796,458			2,779,817			2,797,258			2,799,725
		2,809,917		160.13:	2,776,718		75:	2,777,894			2,779,818			2,797,259			2,800,529
		2,809,918		160.14:	2,815,082			2,798,113			2,780,668			2,801,280			2,802,053
		2,812,283		160.16:	2,795,284		76:	2,787,652			2,782,252			2,803,700			2,802,054
		2,816,061		160.17:	2,782,863		77:	2,782,250			2,785,220			2,803,701			2,802,055
		2,816,062			2,795,285			2,794,062			2,785,221			2,810,783			2,802,900
84:		2,785,106			2,808,891			2,800,523			2,786,886			2,814,671			2,804,499
		2,804,424		160.18:	2,812,026		84:	2,802,044			2,787,655		7.4:	2,783,300			2,804,500
		2,804,425		160.19:	2,777,525		87:	2,788,384			2,789,156			2,784,250			2,805,284
		2,809,149		160.2:	2,809,702			2,792,444			2,789,157			2,809,234			2,806,082
84.5:		2,778,772		160.21:	2,796,137			2,803,695			2,790,025		7.5:	2,816,955			2,806,083
		2,780,578			2,796,138			2,813,144			2,790,846			Re.24,336			2,807,665
		2,783,180			2,798,563		88:	2,786,095			2,790,847			2,776,339			2,807,666
		2,791,533		160.23:	2,779,423			2,803,696			2,790,848			2,794,067			2,808,458
		2,794,765			2,780,298			2,810,010			2,791,626			2,795,644			2,810,016
87.1:		2,780,579			2,793,702			2,814,665			2,792,446			2,800,528			2,810,786
		2,793,980		160.25:	2,818,123		92:	2,788,385			2,792,447			2,802,046			2,812,382
		2,809,150		160.26:	2,810,443		94:	2,777,895			2,793,246			2,807,662			2,813,152
88:	Re.24,373			160.29:	2,793,703			2,791,623			2,793,247			2,811,581			2,813,928
90:		2,783,181		160.32:	2,781,857			2,799,721			2,794,064			2,814,801			2,814,672
		2,790,747			2,786,539		99:	2,783,299			2,794,065		7.6:	2,792,448			2,815,398
		2,791,534			2,791,283			2,796,459			2,794,849		15:	2,784,251			2,815,399
		2,814,584			2,792,064			2,815,396			2,795,643			2,807,663			2,816,165
		2,814,585			2,794,508		102:	2,779,814			2,797,256		17:	2,780,670			2,817,705
93:		2,778,773			2,797,761			2,808,450			2,797,257			2,781,415			2,817,706
		2,779,708			2,798,564		106:	2,785,218			2,798,114			2,782,254			2,817,707
		2,783,182			2,807,327		110:	2,802,897			2,798,900			2,790,026			2,817,708
		2,806,814		160.33:	2,804,155		113:	2,782,251			2,799,723			2,777,897	1.5:		2,777,897
		2,812,284		160.4:	2,792,897			2,791,624			2,801,278			2,795,646	2:		2,788,392
		2,818,371		160.43:	2,812,027			2,794,848			2,802,045			2,806,901			2,792,450
94:		2,778,774		160.47:	2,776,719			2,804,494			2,803,697			2,816,161			2,805,285
95:		2,776,241		160.55:	2,815,821			2,805,276			2,803,698		17.5:	2,817,703			2,811,583
		2,790,748		160.57:	2,818,124			2,814,666			2,804,495			2,818,468			2,815,400
		2,801,203		160.58:	2,812,028		116:	2,800,524			2,804,496		22:	2,785,224			2,816,166
168—	24:	2,791,280		168:	2,779,424		117:	2,787,653			2,806,899			2,789,159		2.5:	2,795,649
169—	1:	2,779,421			2,800,967			2,809,229			2,807,660			2,780,671	5:		2,780,671
		2,780,295		173:	2,794,509			2,810,011			2,807,661			2,797,280			2,783,302
		2,781,101		177:	2,796,139		120:	2,789,155			2,808,454			2,802,047			2,787,658
		2,783,845						2,795,640			2,808,455			2,802,048			2,804,501
		2,787,329	171—	12:	2,802,326			2,798,899			2,808,456			2,813,149			2,806,902
		2,790,502		56:	2,806,540		126:	2,780,667			2,809,232		26:	2,813,150			2,811,584
		2,800,965		63:	2,806,541		128:	2,778,870			2,809,233		28:	2,802,049			2,816,957
		2,793,701			2,817,405		135:	2,795,641			2,810,013		33:	2,795,647			2,816,958
2:		2,800,966		85:	2,812,029		138:	2,800,525			2,810,781		34:	2,807,664			2,777,012
		2,802,538		87:	2,804,156			2,809,230			2,811,579		43.5:	2,803,702			2,777,013
		2,815,818	174—	4:	2,815,395			2,814,667			2,813,146			2,817,704			2,777,898
		2,815,819		5:	2,786,08												

179— 6.3:	2 786,890	179— 18:	2 807,671	179—100.11:	2 808,467	179— 171:	2 780,682	179— 171:	2 808,474	180— 33:	2 781,859
	2 791,634		2 807,672		2 813,155		2 780,683		2 809,239		2 792,899
6.5:	2 804,502		2 808,459	100.2:	2 776,341		2 781,419		2 809,240	41:	2 780,541
	2 806,084		2 809,236		2 777,901		2 781,420		2 809,241	43:	2 801,702
7.1:	2 817,709		2 812,385		2 778,880		2 781,421		2 810,023	44:	2 796,941
	2 782,256		2 813,929		2 779,826		2 781,422		2 810,024		2 796,942
	2 782,257		2 814,673		2 782,263		2 781,423		2 810,025		2 796,943
	2 794,070		2 815,403		2 783,311		2 782,264		2 810,793	47:	2 802,539
8.5:	2 807,667		2 816,171		2 784,259		2 782,265		2 811,590	48:	2 817,407
	2 790,849		2 816,172		2 785,232		2 782,266		2 811,591	53:	2 778,438
	2 817,710		2 817,712		2 785,233		2 782,267		2 812,389		2 789,647
10:	2 790,850		2 777,015		2 786,895		2 782,268		2 812,390		2 792,065
15:	2 778,877		2 802,903	22:	2 786,896		2 782,269		2 812,391		2 792,066
	2 780,672		2 810,018		2 786,897		2 783,314		2 812,393		2 792,067
	2 782,258		2 815,404		2 791,640		2 783,315		2 813,156		2 795,286
	2 783,305		2 816,961		2 793,253		2 783,316		2 813,157		2 785,763
	2 784,255		2 787,667	27:	2 795,651		2 784,262		2 813,934	54:	2 804,930
	2 785,227		2 790,853		2 797,264		2 784,263		2 815,406		2 808,893
	2 786,100		2 792,453		2 799,732		2 785,235		2 815,407	55:	2 782,864
	2 786,891		2 796,466		2 800,534		2 785,236		2 815,408	57:	2 784,794
	2 786,892		2 797,262		2 801,293		2 786,900		2 816,178	64:	2 814,352
	2 787,660		2 801,285		2 802,905		2 786,901		2 816,179	66:	2 789,648
	2 790,029		2 801,286		2 802,906		2 786,902		2 816,180	68:	2 778,439
	2 794,071		2 805,287		2 803,708		2 786,903		2 816,964		2 796,141
	2 794,072		2 805,288		2 803,709		2 787,672		2 817,715	68.5:	2 802,540
	2 794,858		2 806,090		2 804,506		2 787,673		2 817,716		2 817,409
	2 796,464		2 807,673		2 804,507		2 788,397		2 817,717	69:	2 793,705
	2 798,118		2 813,153		2 804,508		2 788,398		2 817,718		2 794,511
	2 799,727		2 813,930		2 806,904		2 789,162		2 817,719		2 815,822
	2 799,728		2 814,674		2 807,676		2 789,163		2 818,472	69.1:	2 793,644
	2 802,056		2 815,405		2 809,237		2 789,164		2 802,071	70:	2 802,066
	2 802,057		2 817,713		2 809,238		2 790,033	175:	2 808,475	72:	2 800,972
	2 803,704	27.51:	2 808,460		2 810,020		2 790,034		2 785,237	73:	2 805,764
	2 810,787	27.52:	2 780,675		2 810,791		2 790,035	175.2:	2 787,674		2 806,542
	2 816,168		2 787,668		2 813,932		2 790,036		2 795,657		2 806,543
	2 816,169	27.54:	2 798,119		2 814,676		2 790,037		2 806,993		2 809,707
	2 816,959		2 816,173		2 816,174		2 790,854		2 816,995		2 811,214
15.5:	2 777,900	36:	2 806,091		2 816,175		2 790,855	175.23:	2 797,268		2 815,084
	2 780,673	37:	2 783,308		2 816,176		2 790,856	175.25:	2 799,739		2 816,616
	2 781,417	38:	2 804,504	100.3:	2 784,260		2 790,857	175.31:	2 784,264	74:	2 779,426
	2 816,960		2 814,675	100.4:	2 777,902		2 791,642	179:	2 787,675		2 802,541
15.55:	2 817,711	41:	2 816,962		2 799,733		2 791,643	180:	2 803,713	75:	2 788,077
15.6:	2 784,256	51:	2 780,676	100.41:	2 776,342		2 791,644	182:	2 778,889		2 802,542
	2 784,257	78:	2 794,074		2 777,016		2 791,645		2 790,038		2 804,157
	2 795,650	81:	2 785,231		2 780,680		2 791,646	188:	2 798,122		2 818,129
16:	2 781,418		2 801,287		2 786,898		2 792,458		2 806,906		2 777,530
	2 790,030		2 801,288		2 786,899		2 793,256	180— 1:	2 784,793	77:	2 796,644
	2 802,901		2 801,289		2 792,456		2 794,076		2 797,762	79.1:	2 789,649
	2 806,085		2 808,461		2 783,254		2 794,077		2 803,307	79.2:	2 797,427
	2 806,086		2 808,462		2 806,905		2 794,863		2 808,892		2 781,860
	2 812,383		2 818,470	107:	2 816,056		2 794,864		2 812,030		2 783,849
	2 812,384	84:	2 794,860		2 777,903		2 794,865		2 814,351		2 791,287
	2 815,402		2 801,290		2 783,312		2 794,866		2 816,615		2 796,945
	2 818,469		2 802,058		2 787,670		2 795,652	2:	2 777,526		2 797,764
17:	2 782,259		2 806,909		2 789,160		2 795,653	6:	2 793,704		2 804,158
	2 782,260		2 808,463		2 792,457		2 795,654	6.2:	2 800,188		2 805,726
	2 783,306		2 811,586		2 794,075		2 795,655	6.26:	2 789,646		2 808,120
	2 785,228		2 813,154		2 804,509		2 795,656	6.28:	2 780,299		2 818,129
	2 790,851		2 808,464		2 808,468		2 796,468	6.34:	2 778,437	82:	2 777,531
	2 794,859	86:	2 788,394		2 813,933		2 796,469	6.48:	2 791,284		2 783,850
	2 802,902	87:	2 808,464	108:	2 798,121		2 796,471		2 808,117		2 784,795
	2 809,235	90:	2 783,309	110:	2 778,881		2 797,265		2 818,125		2 789,650
	2 810,788		2 791,638		2 786,899		2 797,266		2 818,126		2 792,901
	2 816,170		2 799,729		2 787,671		2 797,267	6.5:	2 787,331		2 793,706
18:	2 777,014		2 799,730		2 796,467		2 798,903		2 798,555		2 800,190
	2 778,878		2 810,789		2 791,641		2 798,904	6.58:	2 791,285		2 804,159
	2 778,879		2 810,790	114:	2 794,862		2 798,905	6.7:	2 781,858		2 815,085
	2 779,821		2 811,587	115.5:	2 778,882		2 799,734		2 788,076	82.1:	2 780,300
	2 779,822	99:	2 780,677		2 789,161		2 799,735		2 797,763		2 804,160
	2 779,823		2 794,861		2 801,294		2 799,736	7:	2 777,527		2 809,708
	2 779,824		2 802,904		2 810,021		2 799,737	8:	2 777,528		2 816,617
	2 780,674		2 812,386		2 814,677		2 799,738		2 783,847		2 781,102
	2 783,307		2 782,261		2 818,471		2 801,295		2 785,761	89:	2 798,568
	2 785,229	100:	2 812,387	116:	2 790,032		2 801,296		2 800,968	90:	2 796,142
	2 785,230	100.1:	2 779,825	121:	2 793,255		2 801,297		2 800,969		2 804,931
	2 787,661		2 780,678	146:	2 783,313		2 801,298		2 800,970		2 817,410
	2 787,662		2 780,679	156:	2 784,261		2 801,299	9:	Re.24,272	181— 5:	Re.24,330
	2 787,663		2 782,262		2 786,102		2 801,300	9.1:	2 776,018		2 779,428
	2 787,664		2 783,301		2 810,022		2 801,301		2 808,118		2 780,301
	2 787,665		2 784,258	157:	2 777,017		2 801,302		2 809,703		2 782,865
	2 787,666		2 786,101		2 786,893		2 802,063		2 800,189		2 784,796
	2 788,393		2 786,893		2 786,894		2 802,064	11:	2 792,898		2 789,651
	2 790,031		2 786,894		2 787,669		2 802,065		2 817,406		2 791,288
	2 790,852		2 787,669		2 788,395		2 802,066	12:	2 776,721		2 792,067
	2 791,635		2 788,395		2 791,639	159:	2 802,067		2 796,140		2 792,068
	2 791,636		2 792,454		2 792,455	170:	2 802,068	14.5:	2 808,119		2 794,512
	2 791,637		2 792,455		2 797,263		2 802,069	15:	2 809,704		2 795,227
	2 792,451		2 794,073		2 799,731	171:	2 802,070	19:	2 809,705		2 806,544
	2 792,452		2 800,532		2 801,291		2 802,071		2 812,824		2 806,545
	2 794,073		2 800,533		2 801,292		2 802,072	22:	2 777,529		2 808,894
	2 796,465		2 801,284		2 802,060		2 802,073		2 780,540		2 810,444
	2 800,532		2 802,058		2 802,061		2 802,074		2 791,286		2 812,032
	2 803,705		2 803,706		2 803,707		2 802,075		2 798,566		2 813,590
	2 804,503		2 804,504		2 804,505		2 802,076		2 809,706		2 813,591
	2 805,286		2 805,287		2 806,092		2 802,077		2 811,213		2 816,618
	2 806,087		2 806,088		2 807,674		2 802,078	25:	2 788,858	23:	2 804,932
	2 806,088		2 806,089		2 807,675		2 802,079	26:	2 779,425		2 792,902
	2 807,668		2 807,669		2 808,465		2 802,080	27:	2 785,762	24:	2 807,328
	2 807,669		2 808,466		2 808,467		2 802,081		2 818,127	25:	2 810,445
	2 807,670		2 811,588		2 811,589		2 802,082	31:	2 794,510		
			2 816,177		2 778,887		2 802,083				

181—	27:	2,783,851	183—	4.5:	2,801,706	183—	42:	2,803,310	183—	115:	2,781,863	187—	29:	2,776,732	188—	74:	2,812,041	
		2,783,852			2,801,707		43:	2,778,448			2,791,290			2,776,733		76:	2,783,858	
		2,790,504			2,818,133			2,784,800			2,794,515			2,779,438			2,787,340	
		2,805,728		4.7:	2,784,799			2,795,289			2,794,516			2,779,439		77:	2,780,320	
		2,810,446			2,815,089			2,799,357			2,796,951			2,780,314			2,782,875	
		2,816,619		4.8:	2,789,654			2,805,731			2,799,365			2,785,771			2,804,945	
	31:	2,776,020			2,796,143			2,810,453			2,800,979			2,785,772		78:	2,777,542	
		2,780,302		5:	2,802,543			2,815,825			2,800,979			2,788,089			2,781,867	
		2,787,332		6:	2,778,442		44:	2,780,308			2,804,940			2,792,080			2,781,868	
		2,792,069			2,803,309			2,783,855			2,805,733			2,795,295			2,791,296	
		2,797,765		7:	2,776,724			2,788,086			2,806,552			2,795,296			2,791,297	
		2,797,766			2,776,725			2,789,662			2,808,125			2,795,297			2,796,954	
		2,801,703			2,777,535			2,792,906			2,810,456			2,795,298			2,797,775	
		2,801,704			2,778,443			2,800,977			2,812,829			2,801,710			2,801,713	
		2,804,933			2,780,305			2,802,544			2,813,598			2,804,943		79:	2,788,091	
		2,804,934			2,782,867		45:	2,784,801			2,814,359			2,805,735			2,790,517	
		2,805,729			2,786,544			2,795,290			2,815,827			2,806,553		79.5:	2,788,866	
		2,806,546			2,787,334		46:	2,804,165			2,817,415			2,806,554			2,789,666	
		2,806,547			2,788,081		47:	2,796,950		119:	2,814,360			2,806,555			2,804,177	
		2,808,121			2,789,655		49:	2,789,663			2,817,416			2,808,901			2,783,859	
		2,808,895			2,789,656			2,804,166		120:	2,787,335		31:	2,816,625		82.4:	2,778,454	
		2,810,447			2,789,657			2,804,936			2,792,077		80:	2,788,864			2,795,299	
		2,810,448			2,789,658		51:	2,792,076			2,802,546		86:	2,804,175		85:	2,806,557	
		2,811,215			2,796,144			2,804,167			2,805,734		188—	1:	2,788,090		88:	2,815,098
		2,812,033			2,796,948			2,808,898			2,809,717			2,796,149			2,780,321	
		2,812,825			2,798,571		52:	2,776,023			2,812,037			2,796,953			2,781,869	
		2,814,353			2,798,572			2,806,549			2,812,830		2:	2,782,870			2,782,876	
		2,814,354			2,800,191			2,815,826			2,815,091		3:	2,810,458			2,782,877	
		2,815,086			2,800,192		53:	2,783,856		121:	2,781,864			2,785,773			2,783,859	
		2,815,087			2,800,193		58:	2,779,433			2,804,941			2,798,575			2,785,774	
		2,816,620			2,804,162			2,781,104		122:	2,812,038			2,800,980			2,788,092	
	32:	2,778,440			2,812,035			2,805,732		184—	1:	2,794,517		2,808,902			2,788,867	
		2,815,823			2,813,595		61:	2,776,024			3:	2,780,311		2,816,626			2,792,914	
		2,818,130			2,814,355			2,782,868			6:	2,776,728		2,818,138			2,800,981	
	33:	2,779,429			2,814,356			2,792,907				2,800,198		4:	2,780,315		90:	2,802,550
		2,791,289			2,815,824			2,795,291				2,776,728			2,789,665			2,803,312
		2,796,946			2,817,412			2,796,146				2,784,807			2,790,514			2,803,313
		2,808,122			2,817,413			2,804,168				2,788,861			2,797,773			2,811,226
	34:	2,812,826			2,818,134		62:	2,788,860				2,788,862			2,806,556			2,815,099
		2,804,161		8:	2,792,073			2,792,908				2,793,714			2,807,333			2,815,829
	35:	2,789,652			2,796,145			2,807,330				2,802,547			2,815,828			2,779,442
	36:	2,789,653		12:	2,795,288			2,812,036				2,802,548			2,818,139			2,780,322
		2,818,131			2,778,444		63:	2,792,909			7:	2,778,449		5:	2,796,150			2,786,552
		2,798,569			2,810,451			2,808,899				2,785,770			2,800,201			2,790,518
	42:	2,805,730			2,778,446		69:	2,800,194				2,792,911			2,808,128			2,790,519
		2,813,593		14:	2,780,306			2,813,596			11:	2,781,105		8:	2,812,039			2,807,335
	43:	2,810,449			2,788,082			2,809,715				2,797,771		18:	2,782,871			2,812,832
	47:	2,784,797		15:	Re.24,341		70:	2,785,768			16:	2,800,199		32:	2,797,774		92:	2,786,553
	50:	2,801,705			2,779,431			2,804,937				2,813,599			2,810,459			2,813,601
		2,808,896			2,781,861			2,804,938			26:	2,780,312			2,813,600		93:	2,777,543
	53:	2,806,548			2,810,452		71:	2,784,802			27:	2,784,808		33:	2,779,440			2,777,544
	54:	2,809,709		16:	2,797,768			2,800,195				2,787,336			2,782,872			2,790,520
	55:	2,807,329		22:	2,777,536		73:	2,783,857				2,789,664			2,796,151			2,797,776
	56:	2,815,088		24:	2,788,083		76:	2,779,434				2,809,717		38:	2,792,081			2,800,203
	57:	2,800,973			2,804,163			2,802,545			39:	2,797,772			2,796,152			2,811,227
	58:	2,788,078			2,816,621		77:	2,779,435				2,817,417			2,792,081			2,814,362
	64:	2,818,132		25:	2,788,084			2,780,309				2,797,772		41:	2,796,152		96:	2,808,904
182—	26:	2,786,542			2,808,897			2,793,712			50:	2,776,729		52:	2,815,092		97:	2,792,915
	31:	2,777,532			2,811,222			2,795,292			55:	Re.24,291		56:	2,809,719			2,807,336
		2,779,430			2,816,622		79:	2,786,546				2,776,025			2,815,093			2,809,722
		2,780,303		26:	2,790,506		80:	2,806,550				2,779,436		59:	2,815,094		98:	2,791,298
		2,792,071			2,792,905			2,806,551				2,779,437			2,815,094		100:	2,796,955
		2,792,903			2,793,709			2,809,716				2,807,332			2,780,316			2,808,131
		2,793,707			2,793,710			2,812,828				2,810,457			2,780,317			2,815,100
		2,798,570			2,804,935		81:	2,804,169				2,811,224			2,782,874			2,818,141
		2,800,974			2,818,135			2,813,597			102:	2,784,809			2,791,294			2,818,142
		2,809,710		32:	2,780,307			2,776,727			103:	2,792,912			2,792,082		101:	2,785,775
		2,810,450			2,790,507			2,786,547			105:	2,776,026			2,805,736		106:	2,778,455
		2,813,594			2,792,074		85:	2,784,803				2,788,088			2,807,334			2,781,106
		2,817,411			2,797,769			2,792,910				2,796,148			2,812,040			2,781,870
	2.5:	2,783,853			2,799,354			2,799,358			185—	9:	2,780,313		2,812,831			2,792,083
		2,785,765			2,801,708		87:	2,796,147				2,777,537			2,815,095			2,809,723
		2,792,072		34:	2,786,545		89:	2,788,087			37:	2,777,537			2,815,096			2,815,101
		2,792,904			2,789,659		92:	2,795,293				2,778,450		62:	2,779,441			2,817,420
		2,793,708			2,790,508			2,804,171			38:	2,804,942			2,801,711			2,817,420
		2,797,767			2,790,509			2,807,331			39:	2,794,520			2,815,097			2,817,420
		2,800,975			2,792,075			2,800,196				2,795,294		64:	2,786,551		110:	2,789,667
		2,809,711			2,793,711		95:	2,800,196			40:	2,804,173			2,792,082		112:	2,779,443
		2,809,712			2,796,949		111:	2,808,900			43:	2,786,548			2,805,736			2,786,554
		2,811,217			2,800,976		114:	2,781,862			1:	2,776,730		67:	2,804,944			2,790,521
		2,811,218			2,801,709			2,785,769				2,791,291			2,808,903			2,796,956
		2,811,219			2,801,709			2,798,573			187—	2:	2,798,574		2,809,720			2,800,204
	2.7:	2,777,533			2,808,124			2,804,172				6:	2,781,865		2,809,721			2,814,363
		2,780,304		35:	2,808,123		114.2:	2,780,310			8.41:	2,786,549		69:	2,814,361		119:	2,788,093</

188—	152: 2, 817, 421	189—	34: 2, 789, 670	189—	88: 2, 788, 100	192—	14: 2, 800, 209	192—	70: 2, 792, 919	194—	9: 2, 800, 212
164: 2, 777, 547			2, 792, 086		2, 791, 301		16: 2, 808, 915		2, 807, 344		2, 800, 988
166: 2, 784, 810			2, 793, 718		2, 793, 725		18: Re. 24, 371		71: 2, 813, 608		2, 810, 465
167: 2, 796, 155			2, 795, 305		2, 809, 729		2, 778, 465		76: 2, 782, 893	10: 2, 776, 035	
170: 2, 778, 456			2, 796, 157		2, 809, 730		2, 786, 560		84: 2, 788, 104	13: 2, 777, 555	
176: 2, 777, 546			2, 796, 158		92: 2, 784, 815		2, 796, 159		2, 796, 962	16: 2, 805, 746	
181: 2, 776, 027			2, 801, 717		5: 2, 814, 369		2, 800, 210		2, 798, 581	51: 2, 805, 747	
183: 2, 782, 878			2, 802, 551		16: 2, 816, 628		2, 803, 323		2, 808, 917	61: 2, 784, 827	
184: 2, 779, 444			2, 803, 317		28: 2, 782, 889		2, 811, 231		2, 809, 735	2, 804, 959	
2, 788, 868			2, 805, 739		41: 2, 785, 778		2, 802, 554		2, 788, 875	75: 2, 806, 573	
2, 793, 715			2, 806, 561		2, 786, 557		2, 787, 354		2, 791, 306	83: 2, 780, 337	
2, 806, 558			2, 806, 562		2, 796, 961		2, 792, 093		2, 794, 527	3: 2, 807, 570	
2, 808, 905			2, 808, 136		2, 797, 779		2, 804, 955		2, 795, 309	4: 2, 801, 954	
187: 2, 805, 738			2, 808, 913		2, 798, 579		2, 809, 732		2, 799, 375	6: 2, 791, 535	
189: 2, 795, 301			2, 809, 726		2, 806, 563		2, 809, 733		2, 804, 186	2, 805, 186	
2, 811, 228			2, 815, 832		45: 2, 803, 322		2, 813, 605		2, 805, 744	9: 2, 801, 955	
190: 2, 808, 906		36: 2, 776, 030	2, 776, 735		48: 2, 786, 558		2, 815, 106		2, 806, 567	15: 2, 802, 774	
195: 2, 807, 338			2, 781, 110		49: 2, 788, 871		2, 818, 148		2, 784, 822	31: 2, 776, 925	
196: 2, 780, 324			2, 782, 884		51: 2, 782, 890		2, 818, 148		2, 780, 334	32: 2, 784, 144	
2, 782, 879			2, 784, 812		2, 804, 183		2, 815, 107		2, 791, 771	2, 785, 107	
2, 788, 095			2, 788, 096		53: 2, 787, 350		2, 788, 101		2, 788, 876	2, 798, 025	
2, 792, 084			2, 792, 918		57: 2, 780, 330		2, 784, 816		2, 791, 307	36: 2, 789, 939	
2, 793, 716			2, 793, 719		2, 800, 984		2, 802, 552		2, 801, 723	38: 2, 793, 981	
2, 804, 179			2, 796, 959		58: 2, 784, 816		2, 806, 564		2, 815, 839	39: 2, 801, 206	
2, 814, 366			2, 797, 777		2, 802, 552		2, 784, 818		2, 784, 823	44: 2, 778, 775	
198: 2, 776, 028			2, 804, 180		60: 2, 781, 113		2, 784, 819		2, 806, 569	47: 2, 776, 926	
2, 777, 547			2, 804, 952		2, 813, 602		2, 797, 782		2, 816, 638	2, 798, 839	
2, 812, 042			2, 808, 137		191—	1: 2, 778, 890	2, 802, 556		2, 778, 469	48: 2, 786, 799	
200: 2, 782, 880			2, 814, 368		12. 4: 2, 801, 303	23: 2, 802, 910	2, 808, 916		2, 780, 335	51: 2, 776, 927	
202: 2, 781, 872			2, 817, 423		37: 2, 794, 867	37: 2, 794, 867	2, 809, 734		2, 789, 674	2, 778, 776	
2, 792, 085		36. 5: 2, 798, 577			45: 2, 809, 242	59. 1: 2, 794, 078	2, 787, 355		2, 799, 376	2, 781, 292	
204: 2, 790, 522		37: 2, 778, 459			2, 802, 072	. 02: 2, 779, 445	2, 795, 307		2, 801, 724	2, 789, 940	
205: 2, 815, 102		39: 2, 790, 524			2, 809, 242	. 03: 2, 778, 462	2, 801, 719		2, 788, 470	2, 793, 162	
207: 2, 786, 555		42: 2, 812, 834			2, 787, 355	. 05: 2, 788, 872	2, 816, 636		2, 784, 824	2, 793, 163	
2, 816, 629		45: 2, 792, 087			2, 795, 307	. 058: 2, 781, 114	2, 807, 342		2, 804, 957	2, 793, 164	
210: 2, 788, 869		46: 2, 776, 736			2, 802, 072	. 07: 2, 780, 331	2, 810, 462		2, 806, 570	2, 796, 382	
2, 795, 300		39: 2, 790, 524			2, 809, 242	. 073: 2, 785, 779	2, 810, 463		2, 812, 842	2, 797, 186	
216: 2, 782, 881		42: 2, 812, 834			2, 787, 355	. 084: 2, 812, 043	2, 810, 463		2, 810, 464	2, 802, 775	
2, 800, 205		45: 2, 792, 087			2, 787, 355	. 092: 2, 805, 742	2, 810, 463		2, 812, 046	2, 805, 978	
218: 2, 790, 523		46: 2, 776, 736			2, 787, 355	. 096: 2, 818, 147	2, 810, 463		2, 796, 967	2, 809, 919	
2, 800, 982		2, 781, 875			2, 787, 355	. 098: 2, 799, 371	2, 810, 463		2, 791, 308	2, 812, 285	
2, 806, 559		2, 783, 860			2, 787, 355	1: 2, 813, 603	2, 810, 463		2, 785, 783	2, 813, 060	
223. 1: 2, 778, 457		2, 787, 346			2, 787, 355	2: 2, 792, 091	2, 810, 463		2, 791, 309	54: 2, 776, 242	
2, 798, 576		2, 789, 671			2, 787, 355	2, 813, 604	2, 810, 463		2, 814, 374	63: 2, 806, 815	
225. 6: 2, 782, 882		2, 793, 721			2, 787, 355	2, 816, 633	2, 810, 463		2, 796, 965	66: 2, 784, 145	
2, 808, 133		2, 799, 370			2, 787, 355	3: 2, 778, 463	2, 810, 463		2, 798, 582	2, 801, 956	
229. 6: 2, 818, 144		2, 804, 953			2, 787, 355	2, 816, 633	2, 810, 463		2, 798, 583	2, 808, 362	
234: 2, 791, 299		2, 805, 740			2, 787, 355	2, 816, 633	2, 810, 463		2, 800, 987	2, 810, 677	
2, 791, 300		2, 815, 833			2, 787, 355	2, 816, 633	2, 810, 463		2, 804, 184	67: 2, 776, 923	
251: 2, 781, 107		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 804, 956	77: 2, 802, 776	
2, 804, 947		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 815, 838	80: 2, 776, 243	
264: 2, 781, 873		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 779, 447	2, 797, 187	
2, 781, 874		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 796, 161	2, 793, 165	
2, 785, 777		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 805, 745	2, 797, 187	
2, 788, 870		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 776, 032	2, 808, 363	
2, 795, 302		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 778, 472	2, 808, 364	
2, 803, 315		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 797, 786	2, 809, 151	
2, 808, 134		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 806, 571	2, 812, 287	
2, 808, 907		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 812, 047	81: 2, 803, 586	
2, 808, 908		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 809, 736	2, 809, 920	
2, 808, 909		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 779, 448	82: 2, 817, 624	
2, 808, 910		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 818, 150	96: 2, 785, 108	
2, 809, 318		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 781, 118	2, 789, 941	
2, 815, 103		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 781, 883	2, 798, 840	
2, 816, 630		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 812, 843	2, 813, 061	
2, 816, 631		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 785, 784	2, 816, 856	
265: 2, 803, 316		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 799, 377	100: 2, 784, 146	
2, 815, 104		2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 794, 525	2, 792, 331	
189—	1: 2, 801, 716	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 777, 552	101: 2, 798, 026	
	2, 815, 831	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 806, 572	103. 5: 2, 777, 799	
	2: 2, 789, 668	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 801, 721	2, 787, 581	
	3: 2, 786, 156	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 807, 343	114: 2, 796, 383	
	2, 796, 958	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 814, 373	116: 2, 813, 821	
	7: 2, 792, 917	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 788, 874	143: 2, 793, 166	
	11: 2, 787, 342	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 801, 721	1: 2, 790, 750	
	2, 787, 343	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 807, 343	7: 2, 801, 207	
	2, 804, 948	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 814, 373	8: 2, 780, 580	
	2, 804, 949	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 788, 874	2, 781, 293	
	2, 808, 911	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 801, 721	2, 782, 141	
	2, 806, 560	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 807, 343	11: 2, 805, 979	
	2, 808, 912	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 814, 373	14. 11: 2, 800, 427	
	14: 2, 795, 303	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 788, 874	14. 17: 2, 792, 332	
	2, 799, 368	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 801, 721	14. 19: 2, 779, 709	
	15: 2, 781, 108	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 807, 343	14. 42: 2, 780, 581	
	2, 787, 339	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 807, 343	14. 46: 2, 793, 167	
	2, 787, 344	2, 818, 146			2, 787, 355	2, 816, 633	2, 810, 463		2, 807, 343	2, 793, 168	
	2, 804, 950	2, 818, 146			2, 787, 355	2, 816, 633	2, 81				

196—	19: 2,798,027	196—	52: 2,790,754	197—	128: 2,788,109	198—	30: 2,813,617	198—	82: 2,798,587	198—	185: 2,814,378
	20: 2,798,028		2,791,544		2,805,748		2,815,112		2,805,758		188: 2,785,788
	21: 2,798,841		2,791,545		2,813,611		31: 2,776,739		2,808,922		189: 2,789,686
	23: 2,780,582		2,796,387		2,813,612		2,781,121		2,792,924		2,792,928
	2,782,143		2,798,029		2,779,450		2,783,866		2,799,385		2,808,146
	2,786,016		2,798,030		2,782,894		2,787,359		2,805,759		2,770,044
	2,790,751		2,799,625		2,787,357		2,787,360		2,778,477	192: 2,781,124	
24: 2,779,711			2,799,626		2,790,528		2,789,680		2,798,588		2,781,893
	2,791,540		2,800,432		2,807,346		2,795,312		2,776,040		2,798,591
	2,793,982		2,800,433		2,807,347		2,802,560		2,792,102		2,805,763
	2,794,766		2,808,367		2,808,919		2,806,579		2,796,969		195: 2,776,045
	2,800,428		2,817,625		2,790,529		2,808,921		2,799,386		2,778,479
25: 2,793,983		53: 2,786,801		134: 2,800,214		2,812,050		2,805,760		2,778,480	
28: 2,776,244		2,791,546		136: 2,779,451		2,815,844		2,804,192		198: 2,784,835	
	2,776,245	2,801,208		142: 2,802,558		2,816,646		2,789,681		2,809,743	
	2,781,295	2,817,626		143: 2,807,348		2,818,157		2,789,682		199: 2,809,742	
	2,792,333	2,792,338		151: 2,815,110		2,787,361	32: 2,787,361	2,805,761		2,809,743	
	2,793,170	2,776,249	54: 2,792,338		2,789,676		2,791,315	2,793,735		2,815,850	
	2,793,984	2,776,931	55: 2,776,249		2,803,331		2,797,792	2,808,923		202: 2,783,870	
	2,800,429	2,780,586			2,811,237		2,801,726	2,806,580	100: 2,788,114		2,783,871
	2,800,430	2,788,312		162: 2,800,990		2,777,561		2,788,475	102: 2,783,867		2,797,794
	2,805,187	2,791,547		170: 2,788,110		2,778,475	33: 2,777,561	2,785,787		203: 2,815,851	
29: 2,781,296		2,791,548		172: 2,788,111		2,779,453		2,796,970		2,782,902	
	2,790,752	2,791,549			2,789,677		2,780,339	2,796,971		2,784,836	
	2,792,334	2,793,987			2,818,155		2,780,340	2,795,314	104: 2,795,314		2,791,318
	2,793,171	2,808,368		175: 2,809,738		2,781,885		2,800,217		2,792,104	
	2,793,985	2,782,145	66: 2,782,145		177: 2,777,560		2,781,886	2,812,051	105: 2,812,051		2,796,167
	2,795,531	2,809,923	72: 2,809,923		178: 2,808,142		2,784,831	2,776,740	106: 2,776,740		2,796,975
	2,796,384	2,776,932	74: 2,776,932		179: 2,805,749		2,785,786	2,778,478	107: 2,778,478		2,797,795
	2,798,842	2,776,933			2,808,143		2,786,562	2,777,564	109: 2,777,564		2,798,592
	2,814,586	2,795,534	76: 2,795,534		181: 2,791,313		2,786,565	2,777,565		2,800,994	
30: 2,776,246		2,796,388			2,795,310		2,786,566	2,781,888		2,809,744	
32: 2,776,929		77: 2,805,981		183: 2,808,144		2,787,362		2,795,315		204: 2,790,539	
	2,779,712	78: 2,776,934		185: 2,800,215		2,787,363		2,798,589		2,801,730	
	2,783,184	2,799,627		186: 2,782,895		2,788,113		2,815,114		2,803,334	
	2,785,017	83: 2,799,628		187: 2,788,881		2,790,533		2,789,683	110: 2,789,683		2,804,193
	2,794,767	85: 2,798,031		189: 2,778,473		2,790,534		2,797,793		2,810,470	
	2,794,768	93: 2,796,389			2,804,960		2,790,535	2,781,889	118: 2,781,889		2,818,164
	2,794,769	94: 2,784,148			2,811,238		2,791,316	2,809,740		208: 2,776,046	
	2,796,385	95: 2,786,802		198—	2: 2,793,731		2,791,317	2,799,387	120.5: 2,799,387		2,785,789
	2,797,188	139: 2,809,924			5: 2,800,991		2,793,734	2,811,239		2,788,883	
	2,808,365	142: 2,786,803			7: 2,792,098		2,794,533	2,792,103	121: 2,792,103		2,794,538
35: 2,779,713		147: 2,776,250			9: 2,776,036		2,796,967	2,813,618		2,801,731	
	2,793,986	2,779,718			2,779,452		2,798,585	2,807,351	122: 2,807,351		2,808,924
36: 2,789,081		2,781,301			2,796,162		2,799,383	2,781,890	124: 2,781,890		2,800,995
	2,795,532	2,783,188			2,808,920		2,800,992	2,781,891	127: 2,781,891		2,796,976
39: 2,792,335		2,783,189			2,793,732		2,800,993	2,793,736	128: 2,793,736		2,777,567
40: 2,778,777		2,794,772			2,805,750		2,802,561	2,779,455		2,788,118	
	2,785,018	2,795,535			2,805,751		2,803,332	2,781,892		2,792,105	
	2,788,810	2,797,190			14: 2,780,338		2,804,963	2,787,365		2,782,903	
41: 2,778,778		148: 2,782,146			2,782,896		2,804,964	2,788,115		2,800,996	
	2,780,583	149: 2,778,780			2,794,531		2,805,753	2,812,052		2,812,054	
	2,794,770	2,785,111			2,805,752		2,806,581	2,807,352	131: 2,804,966		2,815,117
44: 2,781,297		2,810,678			2,813,613		2,807,350	2,812,846		2,815,852	
	2,809,921	2,788,878	1: 2,788,878		2,816,642		2,812,847	2,814,376	133: 2,810,468		2,818,165
49: 2,777,801		2,788,879			2,778,474	19: 2,778,474	2,812,847	2,814,376	137: 2,787,366		2,778,484
	2,777,802	2,791,310			2,789,678		2,815,113	2,814,376	139: 2,788,116		2,783,872
	2,787,582	2,811,235			2,789,679		2,815,845	2,808,145		2,792,929	
	2,789,082	2,799,379	2: 2,799,379		2,792,921		2,815,845	2,812,848		2,788,119	
	2,791,541	4: 2,777,556	4: 2,777,556		2,793,733		2,815,846	2,815,849		2,792,929	
	2,792,336	8: 2,784,828	8: 2,784,828		2,795,311		2,818,158	2,817,430	140: 2,817,430		2,788,884
	2,794,771	9: 2,776,738	9: 2,776,738		2,801,725		2,818,159	2,789,684	152: 2,789,684		2,776,741
	2,805,980	12: 2,817,428	12: 2,817,428		2,802,559		2,818,160	2,815,115	156: 2,815,115		2,794,539
50: 2,776,247		17: 2,796,966	17: 2,796,966		2,804,961		2,776,038	2,796,166	159: 2,796,166		2,795,318
	2,776,248	2,798,584			2,804,962		2,777,562	2,776,041	160: 2,776,041		2,797,796
	2,776,930	2,807,345			2,784,830	20: 2,784,830	2,777,563	2,812,053		2,801,732	
	2,777,803	2,810,466			2,796,163		2,781,122	2,784,832	165: 2,784,832		2,804,967
	2,777,804	2,812,048			2,799,381		2,781,123	2,805,762		2,806,583	
	2,777,805	2,818,151			2,806,577		2,787,364	2,806,582		2,812,849	
	2,778,779	2,818,152			2,806,578		2,794,534	2,792,925	167: 2,792,925		2,814,379
	2,779,714	2,797,787	19: 2,797,787		2,807,349		2,801,727	2,792,926		2,776,742	
	2,779,715	20: 2,815,843	20: 2,815,843		2,816,643		2,805,754	2,795,316		2,782,904	
	2,780,584	30: 2,816,640	30: 2,816,640		2,785,785	21: 2,785,785	2,805,755	2,795,317		2,788,885	
	2,781,298	60: 2,804,188	60: 2,804,188		2,788,112		2,815,847	2,780,342	170: 2,780,342		2,811,240
	2,783,185	63: 2,803,329	63: 2,803,329		2,790,530		2,816,647	2,780,343		2,785,790	
	2,784,147	64: 2,784,829	64: 2,784,829		2,794,532		2,778,476	2,793,737		2,785,791	
	2,784,826	2,818,153			2,799,382		2,781,887	2,782,899	171: 2,782,899		2,785,792
	2,786,019	2,797,788	66: 2,797,788		2,804,189		2,782,898	2,799,388		2,790,540	
	2,787,583	2,797,789			2,809,739		2,790,536	2,815,116	172: 2,815,116		2,812,055
	2,789,083	2,800,989			2,813,614		2,805,756	2,788,117	173: 2,788,117		2,791,319
	2,791,542	2,812,049			2,816,644		2,805,757	2,776,042	176: 2,776,042		2,800,219
	2,791,543	2,816,641			2,818,156		2,815,848	2,779,454		2,811,241	
	2,792,337	69: 2,789,675			2,782,897	22: 2,782,897	2,776,039	2,780,344		2,787,367	
	2,795,533	74: 2,797,790			2,786,564	24: 2,786,564	2,792,923	2,782,900		2,794,540	
	2,796,386	82: 2,781,884			2,796,164		2,796,968	2,796,972		2,801,733	
	2,797,189	84: 2,794,533									

199—	48: 2,807,353	200—	30: 2,801,304	200—51.03: 2,799,743	200—61.54: 2,813,942	200—81.9: 2,789,175	200—	87: 2,811,601
50: 2,806,585			2,805,292	51.08: 2,788,404	61.55: 2,786,108	2,790,042		2,813,165
2,806,586			2,808,478	51.09: 2,787,676	61.57: 2,793,262	2,790,868		2,814,690
2,806,587			2,810,796	2,798,125	2,796,484	2,791,657	88: 2,776,349	
59: 2,816,650			2,813,937	51.1: 2,795,664	61.58: 2,787,679	2,806,102		2,813,433
61: 2,793,739			2,814,682	2,803,717	2,790,041	2,809,248		2,794,090
2,801,734			2,816,968	51.11: 2,790,040	2,794,085	2,810,034		2,795,670
87: 2,804,195		31: 2,777,909		51.13: 2,783,318	2,800,543	2,782,272	82: 2,782,272	2,796,490
1: 2,781,424		2,778,892		51.14: 2,786,909	2,808,481	2,794,087		2,806,103
2,782,270		2,778,893		51.15: 2,785,243	2,810,028	2,799,745		2,810,803
2,800,535		2,797,269		52: 2,783,319	2,796,485	2,800,548		2,813,166
2,810,026		2,798,909		2,787,677	2,816,972	2,801,311		2,813,167
2,813,935		2,800,536		2,794,082	2,818,475	2,803,718		2,813,168
4: 2,779,827		2,805,293		2,794,874	2,793,263	2,777,028	83: 2,777,028	2,813,946
2,781,425		2,782,273		2,816,186	2,786,911	2,777,029		2,814,691
2,786,904		2,791,650		56: 2,780,686	2,787,680	2,779,838		89: 2,777,031
2,784,265		2,795,662		2,797,272	2,810,061	2,781,431		2,794,881
2,785,238		2,796,475		2,798,910	2,779,833	2,783,324		2,795,671
2,786,103		2,798,123		2,798,911	2,788,407	2,783,325		2,804,520
2,786,905		2,800,537		60: 2,779,832	2,801,309	2,784,271		2,810,038
2,789,165		2,801,305		2,806,100	2,788,408	2,784,272		2,810,804
2,790,858		2,802,913		2,812,394	2,800,544	2,786,109		2,813,947
2,790,859		2,810,797		61.01: 2,806,913	2,818,476	2,787,681		2,816,974
2,792,459		2,794,868		61.02: 2,791,652	2,800,545	2,789,176		90: 2,785,248
2,793,257		2,800,538		61.06: 2,780,687	2,780,689	2,790,043		2,789,177
2,794,079		2,804,513		2,795,665	62: 2,783,322	2,790,044		2,802,079
2,806,907		2,779,829		61.08: 2,783,320	63: 2,810,029	2,790,869		2,809,250
2,810,027		2,789,168		2,790,863	67: 2,776,347	2,790,870		2,814,692
2,811,592		2,801,306		2,802,073	2,777,027	2,791,658		91: 2,784,275
2,811,593		2,806,095		61.11: 2,804,514	2,777,910	2,794,088		2,793,266
2,813,936		2,806,909		61.14: 2,796,480	2,780,690	2,794,879		2,795,672
2,816,966		2,808,479		2,798,912	2,780,691	2,798,129		2,805,300
2,817,720		2,790,862		61.18: 2,777,026	2,782,277	2,798,130	92: 2,792,468	
6: 2,779,828		2,797,270		2,801,307	2,782,278	2,800,549		2,794,091
2,783,317		2,798,124		2,801,308	2,786,912	2,804,516		2,813,169
2,784,266		2,782,274		61.19: 2,802,074	2,788,409	2,807,686		2,816,975
2,785,239		2,786,907		61.23: 2,794,083	2,788,410	2,808,484		93: 2,809,251
2,788,399		2,803,715		61.25: 2,794,875	2,789,172	2,810,035		2,810,039
2,789,166		2,806,910		2,794,876	2,789,173	2,811,599		2,811,602
2,790,860		2,810,798		61.26: 2,797,273	2,790,865	2,813,944		2,816,190
2,790,861		2,813,161		61.27: 2,777,025	2,790,866	2,813,945		2,816,976
2,793,258		2,814,683		2,788,405	2,790,867	2,814,689		2,818,478
2,793,259		2,815,410		2,788,406	2,791,656	2,816,189		95: 2,814,693
2,794,080		2,815,411		61.31: 2,784,269	2,792,464	2,817,727		98: 2,780,694
2,795,658		2,816,184		61.34: 2,798,913	2,792,465	2,777,030	84: 2,777,030	2,782,281
2,795,659		2,816,969		2,800,540	2,792,466	2,777,914		2,794,092
2,803,714		2,817,724		2,800,541	2,794,086	2,780,692		2,798,917
2,808,476		2,818,473		2,800,542	2,795,667	2,781,432		2,800,552
2,810,794		2,777,023		2,802,075	2,796,486	2,783,326		2,804,521
2,813,158		2,799,741		2,812,395	2,796,487	2,784,273		2,813,948
2,814,678		2,813,938		2,815,412	2,797,275	2,786,110		103: 2,777,915
2,816,181		2,816,970		61.35: 2,812,396	2,798,127	2,786,914		104: 2,790,045
2,817,721		2,797,271		2,815,413	2,798,914	2,790,871		2,800,876
8: 2,795,660		2,806,911		2,817,728	2,800,546	2,792,467		2,791,659
9: 2,790,039		2,794,869		61.37: 2,781,428	2,801,310	2,794,880		2,792,469
11: 2,777,907		2,795,663		2,781,429	2,802,076	2,800,550		2,794,093
2,777,908		2,803,716		61.38: 2,790,864	2,802,077	2,804,517		2,794,882
2,778,891		2,813,939		61.39: 2,778,897	2,802,915	2,810,036		2,802,919
2,786,104		2,782,275		2,794,877	2,805,297	2,811,600		2,805,301
2,786,906		2,796,476		2,796,481	2,805,298	2,816,973		2,806,104
2,796,472		2,800,539		2,798,126	2,807,683	2,794,089	85: 2,794,089	2,810,040
2,798,906		2,806,096		2,816,187	2,807,684	2,805,299		2,817,729
2,802,911		2,784,267		61.4: 2,814,684	2,808,482	2,818,477		105: 2,814,276
2,804,512		2,788,402		61.41: 2,794,878	2,809,246	2,780,693	86: 2,780,693	2,796,491
2,805,291		2,806,912		2,795,666	2,809,247	2,783,327		2,813,949
2,814,679		2,817,725		2,802,914	2,810,030	2,790,872		106: 2,792,470
2,816,182		Re.24,266		61.43: 2,791,654	2,810,031	2,790,873		2,797,276
2,817,722		2,778,894		61.44: 2,786,106	2,812,400	2,790,874		2,804,522
14: 2,794,081		2,779,830		2,786,910	2,813,943	2,793,264		2,813,950
2,798,907		2,780,684		2,808,480	2,814,685	2,796,488		2,816,191
2,799,740		2,781,426		2,812,397	2,814,686	2,796,488		2,816,977
2,802,912		2,788,403		2,813,940	68: 2,779,834	2,813,163		107: 2,817,730
2,810,795		2,791,651		61.45: 2,783,321	2,782,279	2,813,164		108: 2,776,350
2,811,594		2,794,870		2,793,260	69: 2,798,915	86.5: 2,810,801		2,806,105
2,816,183		2,794,871		2,799,744	70: 2,783,323	2,812,402		2,809,252
2,817,723		2,796,477		2,805,295	2,807,685	2,777,922	87: 2,777,922	2,813,170
16: 2,785,240		2,806,097		2,806,914	76: 2,776,348	2,777,923		110: 2,800,553
2,785,241		2,807,681		2,806,915	2,779,835	2,779,839		111: 2,782,282
2,791,647		2,810,799		2,806,916	77: 2,777,911	2,782,280		2,784,277
2,796,473		2,816,971		2,812,398	2,798,128	2,784,274		2,812,403
2,807,680		2,817,726		2,816,188	2,800,547	2,786,111		112: 2,776,351
2,814,680		2,818,474		61.46: 2,791,655	78: 2,784,270	2,786,915		2,778,900
2,814,681		2,776,346		2,796,482	80: 2,777,912	2,786,916		2,785,249
17: 2,796,474		2,777,024		2,804,515	2,777,913	2,788,412		113: 2,777,032
2,811,595		2,778,895		2,811,597	2,778,899	2,788,413		2,782,283
2,813,159		2,779,831		61.47: 2,782,276	2,779,836	2,790,875		2,788,414
18: 2,785,242		2,780,685		2,805,296	2,779,837	2,793,265		2,789,178
2,788,400		2,781,427		2,807,682	2,781,430	2,795,669		2,806,918
2,789,167		2,786,908		2,812,399	2,785,244	2,796,489		2,809,253
2,791,648		2,789,169		61.5: 2,778,896	2,785,245	2,798,916		2,810,041
2,798,908		2,789,170		2,796,479	2,786,913	2,799,746		2,811,603
2,813,160		2,792,461		61.51: 2,791,653	2,802,916	2,800,551		2,813,171
19: 2,806,908		2,792,462		2,793,261	2,806,917	2,801,312		114: 2,783,328
2,811,596		2,794,872		61.52: 2,780,688	2,808,483	2,802,078		2,790,046
21: 2,808,477		2,794,873		2,794,084	2,810,032	2,802,917		2,809,254
24: 2,792,460		2,796,478		2,797,274	2,812,401	2,802,918		2,816,978
25: 2,809,243		2,806,098		2,809,245	81: 2,795,668	2,803,719		2,816,979
27: 2,782,271		2,806,099		2,813,941	2,810,800	2,803,720		2,816,980
2,786,105		2,809,244		61.53: 2,787,678	81.5: 2,785,246	2,804,518		2,816,981
2,815,409		2,813,162		61.54: 2,778,898	2,788,411	2,804,519		2,816,982
2,816,967		2,784,268		2,786,107	2,810,033	2,807,687		2,816,983
28: 2,795,661		2,789,171		2,792,463	2,814,687	2,807,688		2,816,984
29: 2,806,094		2,799,742		2,796,483	2,814,688	2,809,249		115.5: 2,777,916
30: 2,788,401		2,805,294		2,806,101	81.9: 2,785,247	2,810,037		2,777,917
2,791,649		2,816,185		2,811,598	2,789,174	2,810,802		2,783,329

200—115.5:	2,786,112 2,793,267 2,794,094 2,806,919 2,808,485 2,816,985 116: Re.24,388 2,779,840 2,782,284 2,783,330 2,784,278 2,786,113 2,786,917 2,787,682 2,787,683 2,789,179 2,789,180 2,797,277 2,797,278 2,798,918 2,798,919 2,798,920 2,802,080 2,803,721 2,806,920 2,807,689 2,808,486 2,809,255 2,811,604 2,811,605 2,811,606 2,811,607 2,811,608 2,813,951 2,816,192 2,816,986 2,816,987 117: 2,791,660 2,794,095 2,794,096 118: 2,777,918 2,788,422 2,792,471 2,799,747 119: 2,791,661 120: 2,777,033 2,794,097 2,800,554 2,808,487 121: 2,780,695 2,783,331 2,788,423 2,797,279 2,809,256 122: Re.24,268 2,776,352 2,782,285 2,783,332 2,788,415 2,793,268 2,798,131 2,798,132 2,800,555 2,801,313 2,804,523 2,805,302 2,806,921 2,813,172 2,813,173 2,817,731 123: 2,787,684 2,789,181 2,789,182 2,798,921 124: 2,803,722 127: 2,798,133 2,813,952 131: 2,781,434 2,782,286 2,794,098 2,794,883 2,800,556 2,806,922 2,810,042 2,816,988 132: 2,793,269 2,794,099 133: 2,792,472 2,800,557 2,802,920 2,811,609 2,813,174 2,816,193 2,816,194 135: 2,780,696 2,809,257 2,810,043 2,815,414 2,816,989 136: 2,776,353 2,777,034 2,794,100 137: 2,777,919 2,778,901 2,780,697	200— 137: 2,780,698 2,785,250 2,793,270 2,797,280 2,798,134 2,799,748 2,810,044 2,814,694 2,815,415 2,817,732 138: 2,778,902 2,779,841 2,785,251 2,785,252 2,785,253 2,786,114 2,786,115 2,789,183 2,790,047 2,792,473 2,792,474 2,793,271 2,794,884 2,795,673 2,797,281 2,797,282 2,801,314 2,801,315 2,802,921 2,803,723 2,804,524 2,806,106 2,806,107 2,806,108 2,806,923 2,809,258 2,810,045 2,811,610 2,811,611 2,813,175 2,814,695 2,815,416 2,815,417 2,816,195 139: 2,791,662 2,796,492 2,799,749 2,806,924 2,807,690 140: 2,783,333 2,783,334 2,783,335 2,786,116 2,788,416 2,789,184 2,792,475 2,795,674 2,799,750 2,799,751 2,804,525 2,805,303 2,808,488 2,812,404 2,813,176 141: 2,776,354 2,790,048 2,796,493 2,802,081 142: 2,779,842 2,786,918 2,787,685 2,788,417 2,790,049 2,790,877 2,791,663 2,796,494 2,805,304 2,816,196 2,817,733 2,817,734 144: 2,777,035 2,794,101 2,794,885 2,806,109 2,811,612 2,816,990 2,818,479 145: 2,806,110 2,809,259 2,810,805 2,816,991 146: 2,785,254 2,792,476 2,799,752 2,800,558 2,808,489 2,810,806 2,811,613 147: 2,777,036 2,783,336 2,790,878 2,795,675 2,813,953 2,815,418 2,816,992	200— 148: 2,783,337 2,783,338 2,786,117 2,786,118 2,786,119 2,787,686 2,788,418 2,790,050 2,794,886 2,798,922 2,803,724 2,805,305 2,810,046 2,815,419 2,816,993 149: 2,816,994 150: 2,780,699 2,781,435 2,789,185 2,789,186 2,792,477 2,798,923 2,806,111 2,811,614 2,813,177 2,816,197 152: 2,783,339 2,784,279 2,786,120 2,786,919 2,792,478 2,798,135 2,799,753 2,810,047 2,813,954 2,817,735 153: 2,782,287 2,784,280 2,785,255 2,785,256 2,785,257 2,792,479 2,792,480 2,793,272 2,804,526 2,804,527 2,806,112 2,808,490 2,809,260 2,811,615 2,814,696 2,816,198 2,818,480 155: 2,784,281 2,795,676 157: 2,785,258 2,786,920 2,790,051 2,790,879 2,791,664 2,810,807 2,812,405 158: 2,798,136 159: 2,777,037 2,802,082 2,814,697 2,814,698 160: 2,780,700 2,809,261 161: 2,786,921 2,803,725 2,810,808 2,803,727 163: 2,777,920 2,811,616 2,813,178 2,813,179 164: 2,802,922 166: 2,779,843 2,780,701 2,783,340 2,787,687 2,787,688 2,788,419 2,788,420 2,789,187 2,790,880 2,793,273 2,794,102 2,794,887 2,794,888 2,795,677 2,796,495 2,796,496 2,796,497 2,796,498 2,796,499 2,796,500 2,797,283 2,799,754 2,802,923 2,805,306 2,806,113	200— 166: 2,806,925 2,806,926 2,808,491 2,811,617 2,812,406 2,813,180 2,814,699 2,814,700 2,815,420 2,815,421 2,818,481 167: 2,778,903 2,787,689 2,798,924 2,816,995 168: 2,776,355 2,777,038 2,778,904 2,785,259 2,789,188 2,790,881 2,791,665 2,794,889 2,795,678 2,798,925 2,802,083 2,803,728 2,806,114 2,809,262 2,810,048 2,810,049 2,811,618 2,814,701 2,814,702 2,814,703 2,814,704 2,816,199 2,817,736 169: 2,787,690 2,810,050 2,810,051 170: 2,777,921 2,779,844 2,784,282 2,786,121 2,786,922 2,786,923 2,788,189 2,789,755 171: 2,806,927 172: 2,787,691 2,794,890 2,794,891 2,807,691 2,807,692 201— 48: 2,778,905 2,778,906 2,778,907 2,782,288 2,783,341 2,785,260 2,785,261 2,786,122 2,786,924 2,789,190 2,790,882 2,793,274 2,797,284 2,798,137 2,798,138 2,798,139 2,798,926 2,799,756 2,804,528 2,805,307 2,807,693 2,811,619 2,811,620 2,813,955 2,814,705 51: 2,795,679 2,797,285 2,807,694 2,813,181 53: 2,779,845 55: 2,776,356 2,777,924 2,781,436 2,784,283 2,788,424 2,789,191 2,791,666 2,794,103 2,794,892 2,796,501 2,810,809 2,812,407 56: 2,778,908 2,778,909 2,797,286 2,798,140 2,804,529 2,806,928 2,812,408 2,813,182	201— 56: 2,813,956 2,815,422 57: 2,806,115 2,814,706 60: 2,796,502 62: 2,777,925 2,777,926 2,780,702 2,785,262 2,790,052 2,799,757 2,807,695 2,813,183 63: 2,776,357 2,777,039 2,777,040 2,779,846 2,780,703 2,783,342 2,783,343 2,784,284 2,789,192 2,789,193 2,790,053 2,792,481 2,793,275 2,795,680 2,796,503 2,799,758 2,800,559 2,800,560 2,802,924 2,802,925 2,803,729 2,805,308 2,806,929 2,810,052 2,811,621 2,812,409 2,813,957 2,813,958 2,815,423 2,815,424 2,816,996 2,816,997 2,817,737 2,818,482 64: 2,786,925 2,796,504 2,817,738 66: 2,796,505 67: 2,777,927 2,780,704 2,795,681 2,807,696 2,808,492 2,816,200 69: 2,812,410 74: 2,806,930 202— 3: 2,813,062 2,814,587 6: 2,796,390 2,798,032 2,813,822 2,813,823 9: 2,805,188 2,809,154 12: 2,815,316 14: 2,776,935 2,788,313 2,788,314 2,789,085 2,793,172 2,793,173 2,796,391 2,805,189 2,807,571 16: 2,787,584 2,812,288 18: 2,780,587 22: 2,813,824 23: 2,778,781 25: 2,782,147 2,803,587 2,808,369 2,789,942 2,810,679 2,777,806 2,812,289 2,814,588 33: 2,787,585 2,808,370 37: 2,779,719 38: 2,789,086 39: 2,795,536 2,797,191 2,807,572 39.5: 2,776,936 2,777,807 2,779,720 2,782,148 2,783,190 2,788,315 2,791,550	202— 39.5: 2,798,033 2,799,629 2,801,209 2,801,210 2,801,211 2,801,957 2,806,816 2,807,673 2,816,063 40: 2,795,537 2,800,434 2,815,317 2,816,064 2,816,858 42: 2,776,937 2,779,721 2,782,149 2,785,112 2,785,113 2,786,804 2,787,586 2,789,087 2,794,773 2,802,777 2,805,982 2,805,983 2,809,925 46: 2,778,782 2,785,114 2,798,034 2,804,427 2,805,984 50: 2,786,805 51: 2,807,674 52: 2,780,888 2,791,551 2,795,538 2,803,588 53: 2,803,589 57: 2,784,149 2,786,120 2,798,035 2,805,190 2,808,371 2,809,155 2,809,926 2,810,680 2,810,681 2,812,291 2,818,372 59: 2,779,630 2,799,630 60: 2,801,212 67: 2,809,927 69: 2,790,755 72: 2,816,859 74: 2,793,631 83: 2,795,539 95: 2,785,115 101: 2,812,291 117: 2,794,774 131: 2,792,339 139: 2,777,808 141: 1,781,302 142: 2,799,632 151: 2,804,428 153: 2,780,589 169: 2,783,191 170: 2,779,723 2,801,958 2,816,065 2,776,938 2,784,150 185: 2,782,150 186: 2,793,174 187: 2,793,988 205: 2,818,373 215: 2,793,175 222: 2,786,806 228: 2,802,778 229: 2,791,552 232: 2,803,590 234: 2,788,316 2,803,591 2,813,063 236: 2,779,724 239: 2,778,783 248: 2,778,784 2,778,785 2,780,590 2,800,435 2,803,592 2,812,292 251: 2,793,176 268: 2,812,293 203— 1: 2,798,593 2,801,735 10: 2,800,997 25: 2,787,368 60: 2,791,321 65: 2,794,542 2,812,850 67: 2,783,346 75: 2,789,687 2,795,520
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203—	75: 2,799,389 110: 2,810,471 115: 2,788,887 127: 2,776,048 135: 2,788,119 150: 2,788,120 2,796,168 2,808,147 156: 2,786,569 159: 2,803,335 166: 2,790,541 200: 2,776,049 2,779,457 2,782,905 225: 2,792,930 230: 2,804,968 240: 2,792,931 270: 2,811,894 280: 2,795,321 2,802,564 290: 2,780,347 305: 2,797,798 310: 2,805,765 340: 2,782,906 355: 2,796,169 2,811,244 399: 2,793,740 204— 1: 2,782,151 2,786,021 2,805,191 2,809,928 1.5: 2,777,809 2,781,303 2,781,304 2,787,587 2,796,392 2,796,393 2,805,985 2,813,064 2: 2,776,251 2,776,252 2,786,807 3: 2,812,294 6: 2,793,177 9: 2,793,989 10: 2,783,192 2,786,808 2,810,682 11: 2,805,986 12: 2,792,340 14: 2,818,374 15: 2,783,193 2,793,178 2,818,375 18: 2,812,295 20: 2,776,253 2,776,254 23: 2,776,255 2,780,591 2,784,151 2,790,756 25: 2,776,256 28: 2,776,939 2,812,296 32: 2,798,036 2,798,843 2,801,213 33: 2,791,553 34: 2,812,297 35: 2,788,317 37: 2,778,786 2,785,116 2,794,775 2,800,436 2,800,437 2,805,192 2,814,589 2,816,066 39: 2,786,809 2,807,575 40: 2,812,298 41: 2,800,438 42: 2,798,037 43: 2,778,787 2,799,633 2,800,439 2,802,779 2,809,156 2,812,299 44: 2,793,990 2,802,780 2,817,627 45: 2,779,725 2,798,038 2,801,959 2,813,065 2,817,628 2,817,629 46: 2,777,810 2,783,194 2,801,960 2,807,576 47: 2,792,341 49: 2,781,305	204— 49: 2,781,306 2,782,152 2,782,153 2,782,154 2,782,155 2,784,152 2,795,540 2,800,440 2,800,441 2,800,442 2,818,376 50: 2,803,593 51: 2,784,153 2,787,588 2,787,589 2,800,443 2,801,214 52: 2,778,788 2,785,117 2,787,590 2,799,634 2,805,193 2,805,194 2,809,929 2,813,066 2,814,590 55: 2,791,554 2,799,635 2,811,484 56: 2,778,789 2,780,592 58: 2,778,790 59: 2,806,817 60: 2,810,683 64: 2,780,593 2,782,156 2,783,195 2,783,196 2,789,943 2,798,844 2,813,068 2,813,069 2,817,630 2,817,631 72: 2,782,157 79: 2,786,022 82: 2,795,541 2,813,825 92: 2,818,377 94: 2,798,039 95: 2,797,192 99: 2,815,318 101: 2,793,991 105: 2,793,179 2,803,594 2,805,195 2,810,684 2,810,685 2,814,591 108: 2,792,342 2,798,040 125: 2,787,591 130: 2,793,180 2,793,181 2,793,182 2,798,845 2,807,577 2,807,578 2,810,686 2,816,067 131: 2,808,372 134: 2,778,726 136: 2,809,930 140: 2,787,592 2,814,592 2,803,595 2,778,791 2,780,594 2,784,154 2,803,596 143: 2,783,197 2,784,155 2,793,992 2,797,193 2,798,846 2,799,636 2,799,637 2,805,197 144: 2,801,961 145: 2,801,215 146: 2,779,727 2,796,394 2,797,194 147: 2,784,156 151: 2,777,811 2,788,319 2,793,183 2,794,776 2,794,777 2,796,395 2,799,638 2,805,196 2,812,300 153: 2,812,301	204— 154: 2,778,792 2,787,593 2,796,396 2,798,847 2,800,444 154.2: 2,813,070 2,815,319 158: 2,783,198 2,785,118 2,788,320 2,790,757 2,790,758 2,799,639 2,803,597 2,803,598 2,803,599 2,807,579 2,810,687 2,811,485 2,813,071 2,813,072 2,818,378 2,818,379 2,818,380 162: 2,812,302 163: 2,797,195 2,803,600 2,810,688 2,811,486 2,817,632 2,817,633 165: 2,778,793 2,796,397 169: 2,785,119 171: 2,790,759 2,799,640 180: 2,799,641 2,800,445 2,801,962 2,806,818 2,815,320 181: 2,800,446 2,800,447 2,818,381 190: 2,785,120 193: 2,777,812 2,777,813 2,779,728 2,780,595 2,780,596 2,781,307 2,781,308 2,781,309 2,782,158 2,790,760 2,790,761 2,796,398 2,798,848 193.2: 2,799,642 2,803,601 2,806,819 2,806,820 2,807,580 2,807,581 2,809,157 2,809,931 2,810,689 2,811,487 2,812,303 2,812,304 2,813,073 2,815,321 2,816,068 2,816,860 195: 2,776,257 2,801,963 196: 2,776,940 2,776,941 2,803,602 2,808,373 2,816,069 197: 2,779,729 2,802,781 2,805,198 2,805,987 2,809,932 2,810,690 2,817,634 206: 2,793,993 212: 2,782,159 2,791,555 2,810,691 218: 2,778,794 2,783,199 219: 2,784,157 2,786,810 222: 2,782,160 224: 2,798,849 225: 2,786,023 2,816,861 243: 2,786,024 244: 2,804,429 246: 2,801,964 247: 2,785,121 248: 2,791,556	204— 248: 2,805,988 256: 2,786,811 270: 2,799,643 279: 2,816,070 286: 2,791,557 292: 2,802,782 294: 2,805,199 297: 2,793,994 2,801,965 300: 2,800,448 301: 2,777,814 2,784,158 2,799,644 2,816,862 313: 2,808,374 317: 2,778,795 318: 2,778,796 2,793,184 205— 3: 2,787,369 4: 2,797,799 22: 2,804,196 206— 4: 2,778,455 2,782,907 5: 2,801,736 7: 2,779,458 2,795,322 81: 2,777,568 82: 2,808,925 2,815,118 83: 2,777,575 2,804,197 1: 2,779,459 2,780,348 2,789,688 2,804,198 2,808,148 2,813,619 2,813,620 1.5: 2,800,220 3: 2,795,323 4: 2,783,874 2,814,380 5: 2,784,837 2,805,766 6: 2,793,741 7: 2,779,460 2,781,895 2,782,908 2,788,888 2,792,107 2,796,977 2,805,767 2,807,354 2,815,119 2,817,431 2,809,745 2,817,432 8: 2,794,543 9: 2,781,896 2,786,570 2,817,433 10: 2,793,742 2,801,737 12: 2,801,738 13: 2,792,932 15.1: 2,776,050 2,782,909 16: 2,776,743 2,776,744 2,778,486 2,781,897 2,783,875 2,788,889 2,792,108 2,792,933 2,798,594 2,800,221 2,804,969 2,804,970 2,810,472 2,817,434 17: 2,792,934 2,792,935 17.5: 2,810,473 19: 2,788,890 29: 2,784,838 2,785,794 2,798,595 2,808,149 2,811,245 33: 2,786,571 34: 2,787,370 36: 2,795,324 37: 2,779,461 38: 2,777,569 39: 2,812,056 41: 2,816,651 41.2: 2,812,057 2,812,851 41.4: 2,782,910 42: 2,777,570 2,777,571 2,780,349 2,788,891 2,808,180	206— 44: 2,804,199 2,810,474 2,812,852 2,815,854 45.11: 2,796,978 2,801,739 45.13: 2,783,876 45.14: 2,806,589 45.19: 2,778,487 2,781,898 2,813,621 2,813,622 45.2: 2,790,542 2,792,109 2,807,355 45.22: 2,804,200 45.27: 2,790,543 2,799,390 2,810,475 45.31: 2,787,371 2,789,689 2,796,979 45.33: 2,788,121 2,800,222 2,818,166 45.34: 2,802,565 2,814,381 46: 2,779,462 2,779,463 2,779,464 2,780,350 2,781,899 2,781,900 2,783,877 2,785,795 2,789,690 2,789,691 2,790,544 2,791,322 2,791,323 2,793,743 2,794,544 2,795,325 2,796,980 2,796,981 2,796,982 2,797,800 2,798,596 2,800,223 2,800,998 2,801,740 2,803,336 2,806,590 2,807,356 2,807,357 2,809,745 2,809,746 2,811,246 2,813,623 2,814,382 2,815,120 2,816,652 2,816,653 2,817,435 2,817,436 47: 2,778,488 2,779,465 2,782,911 2,782,912 2,782,913 2,791,324 2,794,545 2,796,983 2,799,391 2,803,337 2,804,201 48: 2,799,392 2,802,566 2,807,358 2,809,747 2,811,247 51: 2,792,110 2,804,971 2,811,248 52: 2,783,878 2,794,546 2,796,170 2,798,597 2,814,383 56: 2,776,051 2,777,572 2,780,351 2,785,796 2,789,692 2,793,744 2,793,745 2,794,547 2,797,801 2,797,802 2,797,803 2,798,598 2,798,599 2,800,999 2,801,000 2,804,972	206— 56: 2,808,926 2,809,748 2,812,853 2,814,384 2,815,121 2,815,122 2,815,123 2,816,654 2,818,167 2,818,168 57: 2,802,567 2,803,338 58: 2,776,052 2,780,352 2,790,545 2,799,393 2,803,339 2,806,591 2,777,573 2,782,914 2,788,892 2,797,804 2,812,854 2,815,124 2,815,125 2,816,655 2,818,169 2,818,170 60: 2,779,466 2,792,936 2,795,327 2,798,600 62: 2,776,745 2,777,574 2,785,797 2,804,202 2,806,592 2,807,359 2,807,360 2,811,249 2,812,855 63.2: 2,797,805 2,806,593 2,815,126 63.3: 2,788,893 2,796,984 2,798,601 2,798,602 2,801,741 2,804,203 2,808,927 2,817,437 64: 2,804,973 65: Re.24,353 2,778,489 2,778,490 2,778,491 2,780,353 2,780,354 2,781,901 2,781,902 2,782,915 2,782,916 2,783,879 2,784,839 2,786,572 2,787,372 2,788,122 2,788,894 2,790,546 2,791,325 2,792,111 2,792,112 2,794,548 2,798,603 2,800,224 2,801,001 2,801,743 2,802,568 2,804,204 2,806,594 2,810,476 2,811,250 2,812,058 2,812,856 2,812,857 2,814,385 2,815,855 2,815,856 2,815,857 2,816,656 2,818,171 66: 2,782,917 72: 2,784,840 2,790,547 2,811,251 73: 2,781,125 2,796,171 75: 2,788,123 2,797,806 2,807,361 78: 2,783,880 2,796,985 2,802,569
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206—	78: 2,807,362 2,813,624 2,813,625	209—	127: 2,805,771 134: 2,791,331 136: 2,777,576 138: 2,782,924 2,815,858	209—	480: 2,794,552 2,798,608 497: 2,797,810 500: 2,811,257 2,783,890	210—150.8:	2,776,755 151: 2,776,055 152: 2,786,576 153: 2,793,753 158: 2,804,209 160: 2,786,577 164: 2,784,843 166: 2,776,056 169: 2,785,804 2,785,805 170: 2,778,502 2,778,503 2,779,478 172: 2,788,125 2,806,602 176: 2,784,844 2,784,845 2,788,321 2,788,322 2,788,900 2,789,088 2,789,089 2,789,945 2,789,946 2,799,395 179: 2,791,333 2,812,063 182: 2,780,364 184: 2,784,846 2,785,806 190: 2,803,347 195: 2,788,126 2,788,127 196: 2,816,662 203: 2,783,894 207: 2,789,090 218: 2,792,117 221: 2,799,396 222: 2,798,611 223: 2,795,333 237: 2,800,230 238: 2,808,153 2,792,118 2,792,941 254: 2,806,217 257: 2,792,942 258: 2,805,775 261: 2,796,176 266: 2,808,154 275: 2,796,177 282: 2,788,128 2,796,989 289: 2,802,573 294: 2,790,554 296: 2,790,560 301: 2,809,753 304: 2,792,119 308: 2,792,120 312: 2,797,812 320: 2,801,007 323: 2,788,129 328: 2,793,754 2,811,259 330: 2,793,755 331: 2,797,813 2,799,397 334: 2,792,121 347: 2,816,663 357: 2,814,389 359: 2,813,631 360: 2,793,756 361: 2,808,935 365: 2,793,757 369: 2,802,574 370: 2,796,990 374: 2,808,936 380: 2,806,603 382: 2,789,698 383: 2,796,991 388: 2,799,398 390: 2,818,177 391: 2,812,064 393: 2,798,612 2,812,065 394: 2,804,210 395: 2,791,334 419: 2,795,334 434: 2,804,211 443: 2,809,754 444: 2,801,008 445: 2,808,937 2,818,178 446: 2,792,122 2,798,613 448: 2,789,699 2,792,943 457: 2,792,123 2,792,124 460: 2,810,482 2,816,664 463: 2,800,231 2,807,368 469: 2,808,938 471: 2,796,992 482: 2,794,553	210—	486: 2,788,901 2,813,632 487: 2,796,993 2,798,614 493: 2,801,009 2,804,978 494: 2,816,665 497: 2,795,335 2,800,232 498: 2,803,348 502: 2,798,850 512: 2,787,378 2,793,758 521: 2,793,186 533: 2,792,125 211—	1.5: 2,778,504 2,808,939 1.6: 2,806,604 2,808,940 2,792,126 2,807,369 11: 2,812,862 13: 2,808,941 2,809,755 2,815,861 2,816,666 22: 2,803,349 2,806,605 24: 2,815,128 27: 2,805,776 31: 2,798,615 32: 2,783,895 33: 2,803,350 34: 2,790,555 2,812,066 2,817,443 37: 2,815,862 38: 2,787,379 40: 2,804,212 41: 2,798,616 2,804,213 2,813,633 2,815,129 43: 2,806,606 44: 2,818,179 46: 2,812,067 49: 2,786,578 2,793,759 2,797,814 2,799,399 2,801,752 2,806,607 50: 2,790,556 2,810,483 2,818,180 51: 2,802,575 55: 2,784,847 2,793,760 50: 2,793,761 2,802,576 60: 2,805,777 2,815,863 64: 2,783,896 65: 2,788,130 71: 2,794,554 2,795,336 72: 2,797,815 73: 2,806,608 74: 2,776,756 76: 2,816,667 78: 2,807,370 80: 2,776,757 2,796,994 2,805,778 2,808,942 2,811,260 87: 2,780,365 88: 2,807,371 89: 2,786,579 2,790,557 90: 2,797,816 2,806,609 94: 2,813,634 2,788,132 96: 2,797,817 2,802,577 2,805,779 2,818,181 100: 2,812,068 104: 2,816,668 2,790,558 105.2: 2,790,558 106: 2,804,214 2,808,943 113: 2,791,335 2,793,762 119: 2,777,582 2,779,479 119.02: 2,815,864 123: 2,805,780 124: 2,793,763 126: 2,782,936 2,801,753 2,814,390 128: 2,781,918	211—	132: 2,802,578 133: 2,797,818 135: 2,777,583 2,787,380 2,794,555 2,797,819 2,799,400 2,801,754 136: 2,778,505 2,790,559 2,792,944 2,803,351 2,816,669 137: 2,777,584 2,789,700 2,798,617 139: 2,777,585 142: 2,789,701 143: 2,787,381 146: 2,813,635 147: 2,788,902 2,803,352 148: 2,787,382 2,789,702 2,799,401 2,808,944 2,815,130 149: 2,791,336 150: 2,781,444 162: 2,812,069 166: 2,782,937 171: 2,789,703 178: 2,784,848 2,793,764 2,794,556 2,795,337 2,798,618 2,802,579 2,804,215 2,814,391 212—	3: 2,782,938 4: 2,780,366 2,784,849 2,796,995 2,797,820 2,807,372 8: 2,782,939 2,786,580 2,786,581 21: 2,778,506 35: 2,786,582 2,787,383 2,792,127 2,796,996 38: 2,778,507 2,781,134 41: 2,796,178 42: 2,807,373 42.5: 2,812,070 53: 2,804,216 58: 2,784,850 2,805,781 2,807,374 2,811,261 59: 2,782,940 2,795,338 2,804,979 2,809,756 2,812,071 2,813,636 63: 2,794,557 65: 2,786,583 2,799,402 66: 2,796,998 71: 2,812,863 81: 2,776,758 2,792,128 83: 2,799,403 92: 2,790,561 126: 2,811,262 131: 2,806,610 135: 2,792,945 144: 2,786,584 145: 2,777,586 8: 2,803,353 12: 2,812,072 22: 2,806,611 2,808,945 23: 2,793,765 32: 2,817,445 33: 2,810,484 34: 2,776,759 2,811,263 40: 2,781,135 43: 2,786,670 45: 2,779,480 2,787,384 2,791,337 2,795,339 2,801,010 2,802,580 2,802,581 2,809,757
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213— 45: 2,811,263 2,812,074 46: 2,776,057 57: 2,781,919 61: 2,779,481 2,779,482 2,779,483 2,806,612 2,807,375 2,812,074 2,815,865 104: 2,792,946 112: 2,801,755 126: 2,812,075 154: 2,797,821 168: 2,803,354 211: 2,778,508 212: Re.24,354 221: 2,810,485	214— 16.1: 2,817,446 16.4: 2,803,356 2,804,218 16.6: 2,781,137 17: 2,778,509 2,779,485 2,780,368 2,781,923 2,783,898 2,788,133 2,790,563 2,794,560 2,794,561 2,799,407 2,807,377 2,808,156 2,813,640 2,814,399 2,815,134 18: 2,792,131 2,794,562 2,812,865 18.2: 2,792,132 23: 2,804,981 29: 2,812,866 2,818,183 38: 2,783,899 2,783,900 2,792,133 2,798,620 41: 2,796,999 42: 2,778,510 2,785,810 2,788,134 2,789,705 2,807,378 44: 2,805,783 2,812,867 2,815,874 46: 2,778,511 46.26: 2,786,587 46.3: 2,786,586 46.34: 2,789,706 2,793,767 2,801,757 47: 2,797,000 52: 2,788,904 55: 2,814,400 59: 2,796,181 60: 2,797,825 64.2: 2,818,184 75: Re.24,334 2,776,761 2,779,482 2,779,486 2,779,487 2,787,388 2,788,135 2,792,951 2,793,768 2,797,826 2,798,621 2,798,622 2,800,233 2,808,947 2,812,868 77: 2,776,762 2,779,488 2,781,924 2,789,707 2,792,134 2,792,135 2,808,948 78: 2,784,853 2,790,564 2,792,136 2,795,342 80: 2,804,219 82: 2,777,588 2,781,925 2,793,769 2,796,182 2,800,234 2,803,357 2,808,158 2,810,486 83: 2,791,339 83.1: 2,782,943 2,788,141 2,797,827 2,798,623 83.2: 2,783,901 2,790,565 2,818,185 83.22: 2,788,136 83.24: 2,788,137 2,792,137 2,797,828 83.26: 2,776,763 2,781,138 2,787,389 2,792,952 83.28: 2,780,369	214— 83.3: 2,785,811 2,795,343 2,798,624 2,813,641 2,816,671 83.32: 2,780,370 83.34: 2,808,159 83.36: 2,784,854 2,797,001 2,804,220 2,805,784 2,808,949 84: 2,789,708 2,798,625 2,799,408 2,799,409 2,802,583 2,812,080 2,813,642 2,815,875 85: 2,779,489 2,780,371 2,812,081 85.1: 2,797,829 2,814,401 86: 2,782,944 2,793,770 2,796,183 2,808,160 89: 2,776,764 2,780,372 2,782,945 2,789,710 2,793,771 2,813,643 91: 2,779,490 2,785,812 2,786,588 95: 2,776,765 2,780,373 2,781,926 2,788,905 2,790,566 2,790,567 2,815,136 2,817,447 130: 2,786,589 2,813,644 131: 2,778,513 2,779,491 2,815,876 132: 2,790,568 136: 2,776,060 137: 2,783,902 138: 2,776,766 2,781,927 2,784,855 2,788,906 2,792,138 2,801,012 2,801,013 2,802,584 2,812,869 2,813,645 2,815,137 140: 2,776,061 2,776,767 2,777,589 2,777,590 2,780,374 2,781,928 2,782,946 2,783,903 2,788,138 2,788,139 2,788,142 2,789,711 2,789,712 2,791,340 2,793,772 2,797,002 2,798,626 2,799,410 2,799,411 2,801,758 2,803,358 2,803,359 2,807,379 2,808,950 2,811,265 2,812,082 2,812,083 2,812,084 2,815,138 2,817,448 141: 2,785,813 2,788,139 2,791,341 145: 2,788,907 2,817,449 146.5: 2,792,953 2,794,563 147: 2,776,768 2,778,514	214— 147: 2,783,904 2,787,390 2,788,143 2,792,139 2,792,954 2,799,412 2,802,585 2,802,586 2,804,221 2,811,266 148: 2,792,140 151: 2,811,267 2,815,139 152: 2,803,360 302: 2,799,413 2,808,161 304: 2,795,344 2,815,140 305: 2,781,139 2,796,184 2,803,361 306: 2,804,982 308: 2,797,003 309: 2,799,414 310: 2,806,614 311: 2,812,085 314: 2,781,929 2,805,785 2,808,951 317: 2,788,144 2,797,830 2,797,831 2,816,673 330: 2,804,222 2,804,223 331: 2,797,004 2,818,186 332: 2,797,005 2,804,983 2,807,380 2,808,162 2,815,877 333: 2,806,615 2,812,086 334: 2,776,063 340: 2,781,930 2,797,006 2,812,870 350: 2,783,905 2,799,415 356: 2,792,955 2,810,487 2,812,871 373: 2,782,947 2,813,646 374: 2,778,515 375: 2,815,141 378: 2,794,564 383: 2,779,492 2,803,375 2,784,856 2,797,832 2,808,163 2,778,516 384: 2,814,402 2,816,674 390: 2,785,814 2,793,773 2,816,675 394: 2,794,565 396: 2,785,815 450: 2,778,517 2,785,816 2,808,952 2,812,087 451: 2,777,591 454: 2,806,616 503: 2,787,392 505: 2,776,769 2,788,145 2,788,908 2,789,713 2,793,774 2,797,008 2,805,786 2,808,953 2,812,088 2,818,187 506: 2,784,857 2,786,590 2,788,146 2,789,714 2,795,345 2,799,416 2,803,362 2,807,381 2,815,188 508: 2,784,858 2,801,759 510: 2,786,591 2,798,627 2,806,617 2,812,872 511: 2,813,647	214— 512: 2,797,833 2,811,268 513: 2,777,592 2,785,817 2,800,235 514: 2,785,818 2,787,393 2,799,417 2,800,236 2,818,189 515: 2,812,873 517: 2,789,715 2,808,164 2,811,269 518: 2,778,518 2,813,648 519: 2,776,770 2,777,593 2,780,376 2,783,906 2,784,859 2,796,185 2,798,628 520: 2,801,014 522: 2,779,493 2,783,907 2,793,775 2,800,237 2,800,238 620: 2,809,759 2,812,089 621: 2,788,147 2,792,141 2,796,186 2,803,363 622: 2,776,771 623: 2,797,834 630: 2,791,342 2,808,165 650: 2,779,494 2,784,860 652: 2,780,377 2,807,382 2,810,488 2,812,090 2,812,091 2,815,878 2,817,450 653: 2,776,064 2,784,861 2,788,148 2,795,346 654: 2,814,403 656: 2,808,166 657: 2,781,140 2,784,862 658: 2,789,716 2,801,760 2,803,364 672: 2,792,956 2,797,009 2,806,618 2,810,489 674: 2,804,984 700: 2,788,909 701: 2,795,347 2,816,676 707: 2,797,835 730: 2,799,418 2,806,619 731: 2,796,187 2,807,383 741: 2,790,569 2,807,384 1: 2,801,015 6: 2,781,141 2,793,776 7: 2,817,451 9: 2,793,777 2,810,490 2,816,677 11: 2,780,378 2,793,778 2,796,188 2,797,836 2,803,365 2,807,384 2,809,760 2,811,270 2,811,271 2,812,092 2,813,649 12: 2,803,366 13: 2,788,149 2,807,385 2,808,167 2,812,874 2,815,879 2,817,452 14: 2,800,239 31: 2,817,453 37: 2,783,908 2,804,224 38: 2,776,065 2,778,519	215— 38: 2,780,379 2,808,168 2,808,954 39: 2,786,593 2,792,957 2,807,386 40: 2,796,189 2,800,240 2,801,016 2,817,454 41: 2,789,717 2,813,650 2,814,404 2,814,405 43: 2,804,225 44: 2,776,066 46: 2,776,067 2,778,520 2,780,380 2,781,142 2,787,394 2,789,718 2,803,367 2,806,620 47: 2,813,651 55: 2,801,017 56: 2,789,719 2,790,570 73: 2,802,587 74: 2,778,521 2,783,909 2,797,837 2,808,169 79: 2,800,241 82: 2,791,343 91: 2,786,594 95: 2,781,931 96: 2,812,093 100: 2,787,395 2,792,958 2,811,272 100.5: 2,779,495 2,782,948 216— 1: 2,817,455 6: 2,794,566 9: 2,781,932 2,798,629 21: 2,776,068 25: 2,787,396 2,789,419 2,815,142 2,818,190 29: 2,812,094 33: 2,777,594 2,809,761 54: 2,806,621 55: 2,788,150 2,797,955 62: 2,782,949 2,783,910 2,797,010 217— 3: 2,801,018 8: 2,804,226 12: 2,801,761 2,815,143 15: 2,782,950 2,788,910 23: 2,782,951 26.5: 2,776,772 33: 2,778,522 36: 2,776,773 43: 2,778,523 48: 2,799,420 2,808,956 57: 2,808,170 60: 2,797,838 2,811,273 2,812,095 65: 2,812,096 69: 2,781,143 99: 2,790,571 2,790,572 122: 2,790,573 124: 2,797,011 2,808,171 125: 2,777,595 218— .5: 2,781,933 2,785,819 2,791,344 1: 2,781,144 38: 2,781,934 42: 2,794,567 219— 7.5: 2,784,285 2,811,622 2,794,893 2,800,561 2,803,730 9.5: 2,777,929 2,791,667 2,797,288 2,798,141 2,798,927
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219— 9.5:	2,801,316	219— 19:	2,808,494	219— 35:	2,790,886	219— 41:	2,801,324	219— 79:	2,798,935	219— 130:	2,778,910
	2,803,731		2,808,495		2,795,684		2,811,629		2,801,328		2,797,306
	2,807,697		2,809,265		2,798,930		2,816,207		2,809,271		2,802,093
10.41:	2,808,493		2,812,411		2,800,563	43:	2,778,920		2,809,272		2,803,739
	2,779,847		2,812,412		2,812,415		2,783,357		2,809,273		2,805,322
	2,785,263		2,813,187	37:	2,785,268		2,785,275	82:	2,800,567		2,805,323
	2,787,692		2,813,960		2,786,929		2,794,106		2,800,568		2,806,125
	2,811,623		2,813,961		2,786,930		2,794,107		2,810,816		2,808,498
	2,815,425		2,814,709		2,790,062		2,797,268		2,812,417		2,809,279
	2,818,483		2,815,427		2,790,887		2,780,931	83:	2,780,716		2,809,280
10.43:	2,789,194		2,816,201		2,792,436		2,801,325		2,796,510		2,810,063
10.49:	2,781,437		2,817,740		2,799,765		2,804,535	84:	2,803,736		2,813,192
10.51:	2,802,084		2,777,932		2,799,766		2,805,314	85:	2,785,281		2,813,193
	2,805,309	20:	2,778,913		2,801,319	44:	2,778,921		2,788,432		2,817,003
	2,810,053		2,778,914		2,802,927		2,778,922		2,792,489		2,817,749
	2,817,739		2,779,852		2,806,122		2,785,276		2,794,899		2,818,494
10.53:	2,788,425		2,780,709		2,808,497		2,785,277		2,795,687	131:	2,777,047
	2,799,759		2,780,710		2,810,056		2,785,278		2,794,899		2,788,937
	2,802,085		2,780,711		2,810,057		2,794,897		2,796,512		2,800,571
	2,806,116		2,782,290		2,810,058		2,798,143		2,800,569		2,806,126
	2,813,184		2,782,291		2,811,628		2,798,144		2,813,191		2,817,750
	2,814,707		2,784,288		2,813,188		2,798,932	86:	2,776,362	135:	2,808,499
	2,818,484		2,784,289		2,813,962		2,801,326		2,812,418	136:	2,788,435
10.55:	2,778,911		2,785,266		2,813,963		2,806,123		2,814,714		2,794,902
	2,783,344		2,786,123		2,816,205		2,817,743	87:	2,810,817	137:	2,784,301
	2,783,345		2,787,695		2,816,206		2,817,744	89:	2,784,298		2,787,699
	2,783,346		2,787,696	38:	2,777,045		2,818,487		2,785,282		2,788,436
	2,783,347		2,788,427		2,778,916	45:	2,778,923		2,810,062		2,792,490
	2,783,348		2,789,197		2,778,917		2,792,488		2,818,492		2,803,740
	2,783,349		2,790,056		2,778,918		2,807,703	91:	2,790,891		2,806,127
	2,790,054		2,790,057		2,780,714		2,807,704	95:	2,785,283		2,807,708
	2,811,624		2,792,484		2,783,352		2,815,433		2,797,302		2,808,500
	2,813,185		2,794,105		2,783,353	46:	2,783,358		2,807,707		2,810,064
	2,814,708		2,794,896		2,784,291		2,802,091		2,809,274		2,810,818
10.57:	2,789,195		2,797,291		2,785,269		2,809,268		2,814,715	138:	2,780,719
	2,794,894		2,798,142		2,785,270		2,815,434		2,816,209		2,799,771
	2,797,289		2,798,929		2,785,271		2,809,269	96:	2,798,936		2,818,495
	2,803,732		2,800,562		2,785,272	51:	2,786,127	97:	2,790,065	143:	2,797,307
	2,807,698		2,801,317		2,786,125	56:	2,809,270		2,790,892	144:	2,778,927
10.59:	2,810,054		2,801,318		2,786,126		2,814,713		2,794,111	145:	2,786,128
10.61:	2,813,186		2,802,087		2,786,931	59:	2,782,293	98:	Re.24,367	146:	2,783,362
10.65:	2,810,810		2,804,531		2,786,932		2,798,933		2,779,859		2,785,285
10.67:	2,780,705		2,804,532		2,793,278		2,816,208		2,788,433		2,806,128
	2,780,706		2,805,311		2,795,685		2,818,488		2,790,066		2,806,129
	2,809,263		2,805,312		2,797,295		2,818,489		2,796,513		2,817,751
10.69:	2,779,848		2,806,118		2,797,296				2,814,716		2,818,496
	2,783,350		2,806,119		2,799,767	60:	2,786,933		2,816,210	147:	2,778,928
	2,807,699		2,806,120		2,800,564	61:	2,783,359		2,817,001	149:	2,783,363
	2,813,959		2,808,496		2,800,565		2,796,508	99:	2,788,434	150:	2,781,442
10.71:	2,792,482		2,810,055		2,801,320		2,802,092		2,806,933	151:	2,790,067
10.75:	2,788,426		2,810,811		2,801,321		2,817,745		2,809,275		2,800,572
	2,799,760		2,811,626		2,804,534	62:	2,776,360	100:	2,780,717	152:	2,813,194
10.77:	2,785,264		2,811,627		2,805,313	63:	2,799,768		2,787,698	153:	2,779,860
	2,786,926		2,812,413		2,809,267	67:	2,794,108		2,801,329	154:	2,789,204
	2,792,483		2,812,414		2,810,059		2,805,315		2,805,318		2,791,674
10.79:	2,815,426		2,815,428		2,810,815	68:	2,807,705		2,805,319		2,808,501
	2,777,041		2,816,202		2,813,189	69:	2,778,924	102:	2,784,299	155:	2,806,130
	2,781,438		2,816,203		2,813,964		2,778,925		2,815,437	156:	2,779,861
	2,783,351		2,816,998		2,813,965		2,779,857	103:	2,806,934	158:	2,787,700
	2,785,265		2,816,999		2,817,742		2,785,279		2,817,746	161:	2,777,048
	2,790,055		2,817,741		2,818,485		2,785,280	104:	2,777,046	220— 1:	2,777,596
	2,790,883		2,777,934	39:	2,777,934		2,793,281	106:	2,816,211		2,786,595
	2,793,762		2,814,710		2,778,919		2,793,282		2,816,212		2,806,074
	2,805,310		2,779,855		2,779,855		2,794,109	107:	2,783,361		2,810,491
	2,806,117		2,779,856		2,779,856		2,794,110		2,803,737		2,814,406
19:	2,809,264	25:	2,783,354		2,783,354		2,796,509		2,809,276		2,818,191
	2,776,358		2,785,273		2,785,273		2,797,299		2,814,717	2:	2,814,407
	2,777,042		2,789,200		2,789,200		2,798,934		2,814,718	2.1:	2,785,820
	2,777,043		2,790,063		2,790,063		2,800,566		2,805,320	2.3:	2,799,421
	2,777,044		2,790,064		2,790,064		2,802,929	108:	2,785,284		2,782,952
	2,777,930	26:	2,786,124		2,790,888		2,807,706		2,804,536		2,782,953
	2,777,931		2,786,125		2,790,889		2,813,966	110:	2,811,630		2,785,821
	2,778,912		2,786,126		2,790,890		2,815,435		2,817,747		2,799,422
	2,779,849		2,786,127		2,791,670		2,818,490	117:	2,778,926		2,817,456
	2,779,850		2,786,128		2,791,671		2,818,491		2,784,300	3:	2,809,762
	2,779,851		2,786,129		2,792,437		2,793,280		2,797,303	3.2:	2,781,145
	2,780,707		2,786,130		2,792,438		2,797,297		2,811,625	3.4:	2,788,151
	2,780,708		2,786,131		2,792,439		2,800,567		2,797,304		2,791,345
	2,781,439		2,786,132		2,792,440		2,802,093		2,812,419		2,794,568
	2,782,289		2,786,133		2,792,441		2,803,738	119:	2,795,688		2,805,172
	2,784,286		2,786,134		2,792,442		2,805,316		2,813,967		2,815,144
	2,784,287	27:	2,779,853		2,802,088		2,807,707		2,780,718	120:	2,778,928
	2,786,927		2,780,712		2,802,089		2,788,429		2,794,900		2,796,630
	2,786,928		2,780,713		2,802,090		2,788,430		2,796,514		2,801,019
	2,787,693		2,780,714		2,802,091		2,791,673		2,797,305		2,800,242
	2,787,694		2,780,715		2,802,092		2,797,300	121:	2,803,738	3.9:	2,809,763
	2,789,196		2,780,716		2,802,093		2,805,317		2,806,124	3.92:	2,779,496
	2,790,884		2,780,717		2,802,094		2,815,436		2,817,002		2,782,954
	2,790,885	29:	2,780,718	40:	Re.24,283		2,783,360		2,809,277	3.94:	2,816,678
	2,791,668		2,780,719		2,776,359		2,784,294		2,809,278	4:	2,777,597
	2,793,277		2,780,720		2,777,935		2,794,898	124:	2,776,363		2,781,146
	2,794,104	30:	2,777,933		2,783,355	75:	2,783,360		2,798,146		2,785,822
	2,794,895		2,777,934		2,783,356		2,784,294		2,800,570		2,788,911
	2,796,506	32:	2,778,915		2,785,274		2,794,898		2,817,748		2,792,143
	2,797,287		2,784,290		2,788,425		2,797,301		2,818,493		2,797,012
	2,797,288		2,784,291		2,790,890		2,798,145		2,819,000		2,798,631
	2,797,289		2,784,292		2,791,672		2,799,769		2,820,511		2,801,020
	2,798,928		2,784,293		2,792,437		2,801,319	125:	2,777,937		2,802,588
	2,799,761		2,784,294		2,802,090	76:	2,813,190		2,794,112		2,803,368
	2,800,566		2,784,295		2,802,091	78:	2,779,858		2,795,689		2,804,227
	2,802,086		2,784,296		2,802,092		2,784,296		2,818,493		2,805,323
	2,802,087		2,784,297		2,802,093		2,785,277		2,819,001		2,806,128
	2,803,733		2,784,298		2,802,094		2,786,127		2,820,512		2,807,387
	2,803,734		2,784,299	41:	2,780,715		2,787,698		2,821,013		2,

220—	4: 2,818,192	220—	34: 2,791,348	220—	63: 2,801,024	221—	82: 2,792,147	222—	76: 2,787,402	222—	175: 2,808,965
5: 2,781,935	35: 2,800,244		35: 2,800,244		2,818,196		84: 2,777,603		2,804,993		176: 2,813,663
2,787,397	36: 2,812,100		2,815,881		2,797,023		88: 2,803,376		2,812,111		177: 2,779,507
2,793,779	38: 2,780,384		2,804,230		2,806,623		89: 2,815,147		2,788,918		2,783,918
2,806,622	39: 2,801,022		2,804,986		2,808,637		113: 2,777,604		2,798,642		2,784,880
2,811,274	2,801,023		2,807,388		2,800,249		114: 2,781,945		2,777,608		2,797,847
2,776,775	2,812,101		2,812,101		2,814,414		116: 2,785,828		2,786,604		2,801,030
2,780,381	2,816,681		2,816,681		2,805,789		124: 2,789,727		2,790,198		2,801,772
2,780,382	2,781,143		2,781,143		2,818,197		133: 2,777,605		2,781,152		2,804,998
2,781,936	2,784,864		2,784,864		2,808,637		144: 2,779,501		2,796,199		2,817,460
2,782,955	2,785,829		2,785,829		2,800,249		145: 2,791,351		2,805,793		2,779,508
2,785,823	2,797,016		2,797,016		2,818,197		151: 2,799,430		2,811,281		2,787,403
2,792,144	2,797,841		2,797,841		2,805,789		152: 2,783,917		2,776,782		178: 2,779,508
2,793,780	2,802,592		2,802,592		2,818,197		158: 2,781,946		2,781,950		181: Re.24,312
2,806,623	2,812,876		2,812,876		2,808,637		159: 2,776,073		2,792,969		2,798,643
2,806,624	2,818,193		2,818,193		2,800,249		162: 2,803,377		2,815,885		182: 2,796,201
2,780,383	2,818,685		2,818,685		2,808,637		173: 2,776,781		2,776,076		183: 2,813,153
2,783,911	2,818,685		2,818,685		2,808,637				2,779,504		2,812,116
2,799,423	2,818,685		2,818,685		2,808,637				2,788,917		2,816,691
2,811,275	2,818,685		2,818,685		2,808,637				2,812,112		184: 2,778,536
2,799,424	2,818,685		2,818,685		2,808,637				2,777,609		2,805,795
2,812,875	2,818,685		2,818,685		2,808,637				2,806,635		185: 2,780,392
2,776,069	2,818,685		2,818,685		2,808,637				2,807,392		2,780,393
2,776,776	2,818,685		2,818,685		2,808,637				2,778,532		2,789,733
2,789,720	2,818,685		2,818,685		2,808,637				2,784,877		2,793,791
2,793,781	2,818,685		2,818,685		2,808,637				2,804,994		2,794,576
2,809,764	2,818,685		2,818,685		2,808,637				2,814,418		2,802,603
2,782,956	2,818,685		2,818,685		2,808,637				2,773,533		2,811,285
2,811,276	2,818,685		2,818,685		2,808,637				2,794,574		189: 2,777,611
2,810,492	2,818,685		2,818,685		2,808,637				2,816,690		2,779,500
2,776,777	2,818,685		2,818,685		2,808,637				2,815,886		2,812,117
2,799,425	2,818,685		2,818,685		2,808,637				2,812,880		2,815,889
2,777,598	2,818,685		2,818,685		2,808,637				2,784,878		2,818,199
2,792,959	2,818,685		2,818,685		2,808,637				2,786,605		190: 2,797,026
2,800,243	2,818,685		2,818,685		2,808,637				2,795,356		191: 2,785,837
2,805,787	2,818,685		2,818,685		2,808,637				2,804,995		2,783,782
2,814,410	2,818,685		2,818,685		2,808,637				2,809,770		192: 2,804,990
2,781,937	2,818,685		2,818,685		2,808,637				2,779,505		193: 2,779,510
2,797,839	2,818,685		2,818,685		2,808,637				2,785,832		2,781,154
2,781,938	2,818,685		2,818,685		2,808,637				2,802,600		2,792,151
2,791,346	2,818,685		2,818,685		2,808,637				2,808,963		2,792,971
2,792,960	2,818,685		2,818,685		2,808,637				2,801,028		2,812,883
2,793,782	2,818,685		2,818,685		2,808,637				2,801,027		194: 2,807,383
2,798,632	2,818,685		2,818,685		2,808,637				2,780,390		2,818,200
2,808,173	2,818,685		2,818,685		2,808,637				2,781,951		197: 2,792,152
2,812,097	2,818,685		2,818,685		2,808,637				2,788,158		2,806,636
2,797,013	2,818,685		2,818,685		2,808,637				2,790,579		199: 2,776,783
2,799,426	2,818,685		2,818,685		2,808,637				2,801,770		2,801,773
2,802,589	2,818,685		2,818,685		2,808,637				2,815,887		202: 2,784,881
2,803,369	2,818,685		2,818,685		2,808,637				2,789,728		2,776,784
2,811,277	2,818,685		2,818,685		2,808,637				2,789,729		2,778,537
2,812,098	2,818,685		2,818,685		2,808,637				2,792,144		2,791,353
2,792,961	2,818,685		2,818,685		2,808,637				2,809,771		2,805,000
2,794,569	2,818,685		2,818,685		2,808,637				2,779,506		2,789,734
2,797,014	2,818,685		2,818,685		2,808,637				2,785,833		2,802,604
2,799,427	2,818,685		2,818,685		2,808,637				2,789,730		2,804,240
2,816,679	2,818,685		2,818,685		2,808,637				2,792,150		2,808,966
2,778,524	2,818,685		2,818,685		2,808,637				2,799,431		2,814,419
2,781,147	2,818,685		2,818,685		2,808,637				2,801,771		2,815,890
2,792,962	2,818,685		2,818,685		2,808,637				2,804,996		2,817,461
2,804,985	2,818,685		2,818,685		2,808,637				2,811,282		209: 2,779,511
2,788,912	2,818,685		2,818,685		2,808,637				2,780,391		2,800,253
2,802,590	2,818,685		2,818,685		2,808,637				2,793,790		211: 2,783,919
2,779,497	2,818,685		2,818,685		2,808,637				2,811,283		2,799,434
2,782,957	2,818,685		2,818,685		2,808,637				2,808,964		2,805,001
2,812,099	2,818,685		2,818,685		2,808,637				2,812,113		2,815,150
2,776,778	2,818,685		2,818,685		2,808,637				2,788,919		212: 2,786,608
2,781,939	2,818,685		2,818,685		2,808,637				2,789,731		2,788,921
2,789,721	2,818,685		2,818,685		2,808,637				2,778,534		2,811,286
2,803,370	2,818,685		2,818,685		2,808,637				2,790,580		2,817,462
2,808,957	2,818,685		2,818,685		2,808,637				2,796,200		2,784,882
2,787,398	2,818,685		2,818,685		2,808,637				2,777,610		2,798,644
2,782,958	2,818,685		2,818,685		2,808,637				2,812,881		2,802,605
2,793,783	2,818,685		2,818,685		2,808,637				2,802,601		2,806,637
2,801,021	2,818,685		2,818,685		2,808,637				2,817,458		2,808,967
2,781,940	2,818,685		2,818,685		2,808,637				2,817,459		2,814,420
2,792,963	2,818,685		2,818,685		2,808,637				2,803,381		216: 2,779,511
2,793,784	2,818,685		2,818,685		2,808,637				2,785,834		2,784,883
2,808,174	2,818,685		2,818,685		2,808,637				2,778,535		223: 2,792,153
2,784,863	2,818,685		2,818,685		2,808,637				2,799,432		2,788,922
2,788,913	2,818,685		2,818,685		2,808,637				2,812,882		2,801,774
2,789,722	2,818,685		2,818,685		2,808,637				2,812,114		2,816,692
2,790,574	2,818,685		2,818,685		2,808,637				2,788,920		227: 2,782,962
2,790,575	2,818,685		2,818,685		2,808,637				2,812,115		2,782,963
2,798,633	2,818,685		2,818,685		2,808,637				2,799,433		2,786,609
2,801,763	2,818,685		2,818,685		2,808,637				2,789,732		2,794,577
2,802,591	2,818,685		2,818,685		2,808,637				2,804,997		2,795,358
2,803,371	2,818,685		2,818,685		2,808,637				2,813,662		2,797,027
2,804,228	2,818,685		2,818,685		2,808,637				2,784,879		230: 2,786,610
2,806,625	2,818,685		2,818,685		2,808,637				2,785,836		231: 2,811,287
2,808,958	2,818,685		2,818,685		2,808,637				2,808,180		233: 2,796,202
2,795,348	2,818,685		2,818,685		2,808,637				2,809,772		238: 2,812,118
2,788,914	2,818,685		2,818,685		2,808,637				2,801,029		240: 2,794,578
2,816,680	2,818,685		2,818,685		2,808,637				2,805,794		242: 2,789,736
2,797,015	2,818,685		2,818,685		2,808,637				2,802,602		243: 2,778,538
2,793,785	2,818,685		2,818,685		2,808,637				2,786,606		244: 2,807,394
2,814,411	2,818,685		2,818,685		2,808,637				2,789,724		248: 2,805,796
2,788,915	2,818,685		2,818,685		2,808,637				2,809,773		249: 2,797,848
2,795,349	2,818,685		2,818,685		2,808,637				2,792,970		248: 2,795,359
2,796,190	2,818,685		2,818,685		2,808,637				2,794,575		250: 2,778,539
2,797,840	2,818,685		2,818,685		2,808,637				2,815,888		2,783,920
2,804,229	2,818,685		2,818,685		2,808,637				2,781,952		2,798,646
2,806,626	2,818,685		2,818,685		2,808,637				2,803,382		252: 2,783,921
2,793,786	2,818,685		2,818,685								

222—	254: 2, 810, 496	222—	455: 2, 801, 034	223—	34: 2, 777, 617	224—	6: 2, 804, 249	229—	2. 5: 2, 780, 401	229—	34: 2, 788, 168
	256: 2, 792, 972		2, 801, 777		2, 786, 616		7: 2, 788, 164		2, 804, 251		2, 788, 932
	259: 2, 792, 154		456: 2, 778, 544		2, 805, 007		2, 788, 165		2, 808, 976		2, 809, 775
	260: 2, 797, 029		2, 791, 356		36: 2, 792, 977		2, 794, 582		2, 814, 427		2, 809, 776
	2, 800, 254		2, 794, 580		39: 2, 776, 788		2, 796, 209		2, 815, 162		2, 811, 298
	261: 2, 795, 360		2, 803, 385		43: 2, 818, 205		2, 797, 850		2, 782, 976		2, 816, 698
	263: 2, 809, 774		459: 2, 808, 970		57: 2, 778, 550		2, 800, 263	3. 5: 2, 782, 976		35: 2, 784, 900	
	266: 2, 792, 155		464: 2, 796, 205		2, 788, 162		2, 801, 038		2, 796, 211		2, 791, 366
	268: 2, 777, 613		465: 2, 817, 464		2, 800, 260		2, 804, 247		2, 815, 896		2, 804, 255
	270: 2, 788, 922		470: 2, 815, 892		2, 807, 396		2, 812, 125	5. 6: 2, 789, 745		36: 2, 777, 629	
	271: 2, 808, 968		472: 2, 792, 159		61: 2, 793, 797		8: 2, 792, 980		2, 794, 584		2, 785, 845
	272: 2, 814, 421		2, 810, 498		2, 801, 778		15: 2, 779, 522		2, 798, 654		2, 789, 750
	273: 2, 780, 394		478: 2, 798, 648		63: 2, 805, 008		17: 2, 813, 669	5. 7: 2, 798, 654		2, 793, 802	
	274: 2, 778, 540		2, 804, 242		66: 2, 815, 157		26: 2, 783, 926		2, 810, 505		2, 805, 811
	284: 2, 781, 155		2, 815, 155		67: 2, 805, 009		2, 797, 034	6: 2, 787, 407		37: 2, 783, 933	
	307: 2, 779, 512		479: 2, 785, 839		68: 2, 778, 551		28: 2, 779, 523		2, 804, 252		2, 787, 409
	309: 2, 792, 156		2, 808, 182		2, 779, 520		29: 2, 781, 959		2, 807, 401		2, 792, 166
	2, 792, 157		480: 2, 777, 615		2, 791, 360		2, 782, 971	7: 2, 784, 892		2, 795, 364	
	2, 798, 647		2, 791, 359		2, 796, 206		2, 784, 887		2, 784, 893		2, 797, 040
	2, 805, 002		2, 805, 005		2, 805, 803		2, 810, 501		2, 784, 894		2, 799, 442
	2, 805, 798		2, 815, 893		2, 814, 424		32: 2, 783, 927		2, 799, 439		2, 800, 266
310: 2, 811, 288			481: 2, 799, 437		2, 817, 469		39: 2, 776, 790		2, 800, 265		2, 810, 507
311: 2, 796, 203			2, 800, 258		2, 777, 618		41: 2, 805, 806		2, 801, 040		2, 810, 508
318: 2, 776, 785			2, 816, 695		2, 803, 386		2, 813, 670	42. 08: 2, 779, 524		39: 2, 779, 521	
323: 2, 803, 383			481. 5: 2, 790, 582		2, 805, 010		2, 802, 612		2, 802, 613		2, 797, 041
324: 2, 796, 204			2, 812, 120		2, 811, 291		2, 800, 264	9: 2, 776, 081		2, 803, 393	
	2, 802, 606		482: 2, 778, 545		2, 813, 665		2, 802, 612	11: 2, 790, 587		2, 808, 193	
326: 2, 788, 159			2, 810, 499		2, 805, 804		2, 782, 972	14: 2, 780, 402		2, 815, 897	
	2, 789, 737		2, 814, 423		77: 2, 783, 925		2, 782, 977		2, 782, 978		2, 778, 559
	2, 801, 775		484: 2, 779, 517		2, 786, 617		2, 782, 973		2, 783, 929		2, 790, 590
327: 2, 778, 541			485: 2, 782, 967		82: 2, 784, 886		2, 784, 888		2, 783, 930		2, 792, 167
	2, 815, 151		486: 2, 776, 786		2, 814, 425		2, 788, 928		2, 784, 895		2, 795, 365
330: 2, 800, 255			490: 2, 802, 607		2, 797, 030		2, 788, 929		2, 790, 588		2, 798, 655
333: 2, 779, 513			2, 802, 608		2, 797, 031		2, 789, 743		2, 801, 041		2, 817, 473
	2, 792, 158		491: 2, 781, 956		2, 805, 011		2, 804, 248		2, 801, 041	41: 2, 776, 083	
	2, 792, 973		492: 2, 788, 160		2, 812, 888		2, 805, 014		2, 801, 782		2, 778, 560
	2, 800, 256		498: 2, 792, 975		2, 812, 889		2, 805, 015		2, 805, 810		2, 781, 160
	2, 803, 384		2, 808, 183		2, 813, 666		2, 807, 398		2, 807, 402		2, 791, 367
	2, 807, 395		501: 2, 779, 518		89: 2, 808, 187		2, 808, 189		2, 808, 189		2, 798, 656
335: 2, 793, 793			2, 792, 160		2, 810, 500		2, 808, 977		2, 808, 977		2, 807, 405
	2, 804, 241		502: 2, 798, 649		2, 817, 470		2, 801, 780		2, 811, 295	42: 2, 792, 982	
	2, 814, 422		503: 2, 785, 840		2, 804, 245		2, 805, 807		2, 815, 163		2, 796, 213
336: 2, 784, 884			504: 2, 801, 035		2, 817, 471		2, 804, 245	42. 24: 2, 797, 036		2, 797, 855	
	2, 788, 923		507: 2, 779, 519		2, 802, 610		2, 817, 471	42. 31: 2, 790, 584		43: 2, 784, 901	
340: 2, 797, 849			2, 806, 640		2, 805, 012		2, 777, 620	42. 42: 2, 778, 553		2, 787, 410	
342: 2, 816, 693			516: 2, 780, 395		2, 805, 800		2, 802, 610	42. 43: 2, 777, 625		2, 805, 812	
346: 2, 816, 694			519: 2, 805, 800		2, 815, 156		2, 805, 012		2, 778, 557	44: 2, 803, 394	
361: 2, 801, 031			520: 2, 815, 156		2, 794, 581		2, 811, 292		2, 781, 159	45: 2, 777, 630	
	2, 808, 969		521: 2, 794, 581		2, 792, 161		2, 811, 292		2, 787, 408		2, 794, 588
362: 2, 778, 542			522: 2, 792, 161		2, 791, 357		2, 787, 968	42. 45: 2, 784, 889		2, 788, 931	
	2, 805, 799		525: 2, 791, 357		2, 808, 184		2, 787, 406		2, 797, 851		2, 809, 777
363: 2, 815, 891			2, 808, 184		2, 804, 243		2, 801, 036		2, 789, 746	46: 2, 783, 934	
368: 2, 783, 922			527: 2, 804, 243		2, 813, 667		2, 813, 667	42. 46: 2, 778, 554		47: 2, 807, 406	
	2, 808, 181		528: 2, 812, 121		2, 795, 362		2, 777, 621		2, 792, 981		2, 778, 562
	2, 810, 497		529: 2, 795, 362		2, 778, 546		2, 781, 157		2, 796, 212		2, 782, 980
376: 2, 792, 974			531: 2, 778, 546		2, 781, 156		2, 782, 969	45: 2, 776, 792		2, 811, 296	
380: 2, 801, 776			2, 786, 612		2, 800, 261		2, 791, 361		2, 778, 555		2, 789, 752
382: 2, 818, 201			534: 2, 800, 259		2, 814, 426		2, 800, 261		2, 812, 891		2, 795, 366
386. 5: 2, 815, 152			536: 2, 793, 795		2, 793, 798		2, 814, 426		2, 815, 164	17: 2, 785, 843	
388: 2, 781, 953			539: 2, 780, 396		2, 793, 799		2, 789, 744		2, 790, 585		2, 789, 747
389: 2, 791, 354			2, 780, 397		2, 799, 438		2, 790, 585		2, 796, 210		2, 791, 364
394: 2, 778, 543			542: 2, 818, 203		2, 812, 890		2, 807, 399		2, 803, 390		2, 799, 440
	2, 779, 514		544: 2, 776, 787		2, 776, 789		2, 810, 502		2, 811, 297		2, 803, 390
	2, 779, 515		545: 2, 780, 398		2, 792, 979		2, 810, 503		2, 812, 126	52: 2, 812, 126	
	2, 779, 516		2, 785, 841		2, 804, 246		2, 792, 979		2, 812, 127		2, 816, 699
	2, 781, 954		2, 786, 613		2, 805, 013		2, 804, 246		2, 812, 127		2, 812, 127
	2, 785, 838		2, 805, 801		2, 806, 641		2, 805, 013		2, 798, 650		2, 818, 207
	2, 788, 924		548: 2, 808, 971		2, 815, 158		2, 806, 641		2, 798, 651		2, 796, 212
	2, 788, 925		551: 2, 818, 204		2, 786, 618		2, 813, 668		2, 801, 783		2, 808, 190
	2, 788, 926		553: 2, 778, 547		2, 777, 622		2, 777, 623		2, 811, 296		2, 808, 190
	2, 793, 794		2, 791, 358		2, 777, 622		2, 800, 262		2, 812, 891		2, 795, 366
	2, 799, 435		554: 2, 790, 583		2, 777, 623		2, 807, 397		2, 812, 891		2, 800, 267
	2, 805, 003		555: 2, 777, 616		2, 800, 262		2, 781, 957		2, 815, 164		2, 803, 395
	2, 806, 638		556: 2, 778, 548		2, 789, 739		2, 808, 185		2, 816, 698		2, 804, 256
	2, 811, 289		2, 789, 739		2, 808, 185		2, 812, 122		2, 817, 473		2, 805, 018
	2, 812, 119		558: 2, 812, 122		2, 808, 186		2, 818, 202		2, 799, 441		2, 814, 428
	2, 812, 884		561: 2, 808, 186		2, 805, 802		2, 794, 579		2, 807, 403		2, 816, 699
	2, 812, 885		564: 2, 805, 802		2, 805, 006		2, 791, 355		2, 784, 896		2, 812, 126
	2, 818, 202		566: 2, 805, 006		2, 808, 972		2, 776, 078		2, 789, 748		2, 812, 127
399: 2, 794, 579			2, 813, 664		2, 815, 894		2, 789, 738		2, 791, 365		2, 795, 367
411: 2, 791, 355			2, 815, 894		2, 815, 895		2, 788, 927		2, 797, 039		2, 795, 369
413: 2, 776, 078			568: 2, 815, 895		Re. 24, 338		420: 2, 783, 923		2, 801, 784		2, 797, 856
	2, 789, 738		569: 2, 783, 924		2, 792, 976		421: 2, 786, 611		2, 804, 253		2, 800, 268
415: 2, 788, 927			2, 812, 886		2, 786, 614		422: 2, 782, 964		2, 808, 190		2, 801, 786
420: 2, 783, 923			2, 812, 886		2, 802, 609		423: 2, 787, 404		2, 812, 892		2, 802, 615
421: 2, 786, 611			2, 812, 886		2, 817, 465		429: 2, 790, 436		2, 812, 892		2, 802, 616
422: 2, 782, 964			570: 2, 786, 614		2, 788, 161		436: 2, 781, 955		2, 812, 892		2, 805, 019
423: 2, 787, 404			571: 2, 788, 161		2, 789, 740		439: 2, 784, 885		2, 812, 892		2, 805, 813
429: 2, 790, 436			574: 2, 778, 549		2, 793, 796		440: 2, 795, 361		2, 812, 892		2, 806, 643
436: 2, 781, 955			1: 2, 793, 796		2, 804, 244		441: 2, 815, 153		2, 812, 892		2, 807, 407
439: 2, 784, 885			2: 2, 804, 244		2, 817, 466		442: 2, 777, 614		2, 812, 892		2, 790,

229—	65: 2,792,168 68: 2,781,162 2,794,589 69: 2,776,085 2,783,935 2,790,593 71: 2,794,590 73: 2,777,631 77: 2,810,511 80: 2,797,042 85: 2,789,753 86: 2,816,701 87: 2,780,403 2,790,594 2,804,258 2,808,194 87.5: 2,801,787 90: 2,791,369 92.1: 2,805,815 92.7: 2,809,778 92.8: 2,805,816 230— 1: 2,789,754 3: 2,783,936 5: 2,789,755 6: 2,793,803 20: 2,780,404 21: 2,779,528 2,779,529 23: 2,788,170 27: 2,787,411 31: 2,792,169 45: 2,776,086 2,797,043 46: 2,812,893 47: 2,788,936 2,808,979 52: 2,781,163 53: 2,791,370 55: 2,799,444 56: 2,814,429 2,800,270 2,800,271 2,807,408 2,812,894 58: 2,797,857 2,804,259 2,805,817 2,812,895 69: 2,779,530 2,780,405 2,791,371 2,808,980 85: 2,818,208 92: 2,795,370 95: 2,808,195 101: 2,801,788 2,806,644 2,818,209 103: 2,790,595 114: 2,778,563 2,778,564 2,785,848 2,792,983 2,793,804 2,797,044 2,797,858 2,798,657 2,798,658 2,801,042 2,803,396 2,805,818 2,810,512 2,812,896 2,813,672 2,814,430 2,814,431 2,815,900 2,817,475 115: 2,781,164 116: 2,776,087 2,777,632 2,778,565 2,779,531 2,795,371 2,795,372 2,801,043 2,801,789 2,805,819 2,811,302 2,812,897 2,812,898 117: 2,776,088 2,781,165 2,782,982 2,786,624 2,790,596 2,798,659 2,798,660 2,800,272 2,808,196 2,814,432 119: 2,788,171 120: 2,788,172 2,797,859 2,806,645	230—	120: 2,808,197 2,814,433 122: 2,785,849 2,796,214 2,798,661 2,806,646 127: 2,814,434 128: 2,787,412 132: 2,795,373 2,800,273 2,801,044 2,801,790 2,802,618 2,812,899 133: 2,808,981 2,814,435 134: 2,781,962 2,781,963 2,785,850 2,786,625 2,796,215 2,799,445 2,802,619 2,802,620 2,803,397 2,803,398 2,810,513 2,811,303 138: 2,792,984 2,812,128 139: 2,804,260 140: 2,809,779 141: 2,779,532 144: 2,796,216 147: 2,800,274 152: 2,801,791 2,816,702 153: 2,785,851 158: 2,780,406 160: 2,785,852 162: 2,798,662 165: 2,816,703 168: 2,784,902 172: 2,790,597 174: 2,812,129 175: 2,781,166 184: 2,815,901 185: 2,791,372 186: 2,798,663 190: 2,792,170 192: 2,779,533 205: 2,804,261 206: 2,818,210 209: 2,786,626 210: 2,801,792 235: 2,789,756 2,801,045 2,810,514 236: 2,795,374 237: 2,794,591 250: 2,786,627 2,811,304 2,813,673 259: 2,776,089 2,801,793 2,803,527 2,805,820 2,808,198 2,811,305 270: 2,781,167 273: 2,799,446 274: 2,792,985 275: 2,791,373 2,812,900 232—	43.3: 2,792,171 43.4: 2,781,965 44: 2,776,090 45: 2,804,263 57.5: 2,782,984 233— 2: 2,792,172 11: 2,778,566 2,783,938 13: 2,779,536 14: 2,808,200 15: 2,779,537 21: 2,788,937 2,790,598 24: 2,799,448 26: 2,789,757 2,800,275 27: 2,816,704 28: 2,808,201 41: 2,787,413 1: 2,812,901 2: 2,805,821 6: 2,798,665 27: 2,809,781 30: 2,815,911 50: 2,787,414 58: 2,783,939 2,804,265 60: 2,781,966 2,792,986 2,794,592 2,812,902 60.25: 2,795,375 60.27: 2,811,307 60.31: 2,801,047 2,815,912 60.4: 2,789,758 60.42: 2,809,782 60.46: 2,780,407 60.48: 2,805,822 2,807,412 60.51: 2,801,048 2,812,131 61: 2,776,091 2,776,794 2,777,634 2,777,635 2,778,567 2,779,538 2,779,539 2,780,408 2,780,409 2,780,410 2,781,168 2,781,169 2,781,170 2,781,967 2,781,968 2,781,969 2,781,970 2,782,985 2,782,986 2,782,987 2,783,940 2,783,941 2,783,942 2,784,905 2,784,906 2,784,907 2,784,908 2,784,909 2,785,853 2,785,854 2,785,855 2,785,856 2,786,628 2,786,629 2,787,415 2,787,416 2,787,417 2,787,418 2,788,938 2,789,759 2,789,760 2,789,761 2,790,599 2,790,600 2,791,375 2,792,173 2,792,174 2,792,987 2,792,988 2,792,989 2,792,990 2,792,991 2,793,805 2,793,806 2,793,807 2,794,593 2,794,594 2,795,376 2,795,377 2,795,378 2,796,218 2,796,219	235—	61: 2,797,861 2,797,862 2,797,863 2,797,864 2,797,865 2,797,866 2,798,666 2,798,667 2,799,449 2,799,450 2,799,451 2,800,276 2,800,277 2,800,278 2,800,279 2,801,049 2,801,050 2,801,051 2,801,794 2,801,795 2,802,624 2,802,625 2,803,399 2,803,400 2,803,401 2,804,264 2,805,020 2,805,021 2,805,823 2,806,647 2,806,648 2,808,202 2,808,203 2,808,204 2,808,205 2,808,983 2,808,984 2,808,985 2,808,986 2,808,987 2,808,988 2,808,989 2,808,990 2,809,783 2,809,784 2,810,516 2,810,517 2,810,518 2,810,519 2,812,132 2,812,133 2,813,134 2,812,135 2,812,903 2,812,904 2,813,675 2,814,437 2,815,168 2,815,169 2,815,913 2,816,705 2,817,477 2,817,478 2,817,479 2,818,211 61.1: 2,799,452 2,803,402 2,816,706 61.11: 2,781,972 2,781,973 2,782,989 2,783,944 2,791,376 2,792,175 2,798,668 2,801,796 2,803,404 2,807,414 2,807,415 2,809,785 2,814,440 2,818,212 61.12: 2,779,540 2,798,669 2,782,988 2,785,857 2,795,379 2,805,022 2,815,170 61.6: 2,786,630 2,789,762 2,790,601 2,797,867 2,807,413 2,811,308 2,814,438 2,814,439 61.7: 2,781,971 2,797,868 2,800,280 2,803,403 2,805,824 2,817,480 61.9: 2,783,943 2,811,309	235—	62: 2,792,176 63: 2,780,411 2,794,595 2,797,869 2,801,052 2,809,786 64.7: 2,787,419 2,815,171 67: 2,788,173 70: 2,793,808 2,799,453 2,812,905 2,815,172 71: 2,781,974 2,797,046 2,797,870 73: 2,776,795 2,794,596 74: 2,797,047 78: 2,779,541 79: 2,812,906 79.5: 2,788,174 2,792,992 2,806,649 84: 2,809,787 2,816,707 87: 2,777,636 2,808,991 88: 2,792,177 2,792,993 2,793,809 2,806,650 2,808,206 89: 2,789,763 2,794,597 2,801,797 2,812,907 91: 2,788,939 2,789,764 2,797,048 2,805,023 92: 2,781,171 2,781,975 2,784,910 2,788,940 2,789,765 2,789,766 2,790,602 2,797,049 2,798,670 2,798,671 2,802,626 2,803,405 2,803,406 2,804,266 2,805,825 2,806,651 2,807,416 2,810,520 2,810,521 2,811,310 2,812,136 2,813,676 2,813,677 2,813,678 2,814,441 2,814,442 2,814,443 2,816,708 2,816,709 2,817,481 2,818,213 94: 2,814,444 95: 2,807,417 98: 2,785,858 2,812,137 2,815,914 99: 2,782,990 2,784,911 2,801,053 2,807,418 100: 2,791,378 103: 2,777,637 2,800,281 110: 2,801,054 112: 2,793,810 113: 2,797,871 2,812,908 117: 2,810,522 2,813,679 2,818,214 122: 2,787,420 2,805,024 132: 2,781,172 2,781,976 2,802,627 2,803,407 2,807,419 2,816,710 133: 2,785,859 2,786,631 2,798,672 2,808,207	235—	136: 2,778,568 2,783,945 138: 2,779,542 144: 2,778,569 2,808,208 145: 2,809,788 2,812,138 236— 1: 2,776,796 2,778,570 2,788,941 2,799,454 2,805,025 2,808,209 9: 2,786,632 2,788,942 2,789,767 2,800,282 2,801,055 2,805,026 2,807,420 10: 2,782,991 2,793,811 11: 2,776,797 12: Re.24,398 2,808,412 2,791,379 2,792,178 2,801,798 2,803,408 2,803,409 2,807,421 2,808,210 2,808,211 2,810,523 2,812,139 2,814,445 2,818,215 13: 2,780,413 2,793,812 2,794,598 2,814,446 2,815,915 14: 2,784,912 2,804,267 15: 2,780,414 2,785,860 2,788,175 2,793,813 2,804,268 2,812,140 18: 2,776,092 20: 2,811,311 21: 2,731,977 2,791,380 2,806,652 25: 2,795,380 26: 2,794,599 32: 2,789,768 34: 2,777,638 2,786,633 2,792,179 2,810,524 2,811,312 2,811,313 2,815,173 2,815,174 2,815,916 2,816,711 34.5: 2,788,176 35.2: 2,805,027 37: 2,813,680 2,816,712 38: 2,781,978 44: 2,782,992 2,812,141 45: 2,801,056 2,806,653 2,808,992 2,818,216 46: 2,778,571 2,778,572 2,801,799 2,810,525 48: 2,777,639 2,781,979 2,783,946 2,794,600 2,797,872 2,807,422 2,814,447 51: 2,782,993 2,797,050 56: 2,778,573 2,813,681 59: 2,781,173 2,793,814 69: 2,793,815 2,810,526 73: 2,802,628 78: 2,777,640 2,782,994 2,782,995 80: 2,810,527 2,812,909
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236—	80: 2,815,175 87: 2,811,314 91: 2,778,575 2,782,996 2,804,269 2,812,142 92: 2,784,913 2,785,861 2,776,798 2,792,180 2,795,381 2,797,873 94: 2,800,283 2,800,284 96: 2,790,603 2,797,874 99: 2,778,576 2,801,800 2,806,654 2,807,423 2,813,682 101: 2,799,455 102: 2,806,655 237—	240—	4: 2,777,941 2,792,491 2,795,691 2,805,324 4.1: 2,784,302 2,791,675 4.2: 2,789,207 6.4: 2,791,676 2,797,308 2,798,148 2,801,330 2,804,538 2,810,821 6.42: 2,777,051 2,790,069 2,806,133 6.46: 2,783,364 2,811,631 2,811,632 2,813,968 7.1: 2,779,862 2,779,863 2,779,864 2,783,365 2,784,303 2,785,287 2,791,677 2,796,515 2,804,539 2,809,283 2,813,969 7.35: 2,782,295 7.5: 2,800,575 7.55: 2,793,284 2,811,633 7.7: 2,810,065 8.1: 2,786,935 2,791,678 8.16: 2,784,304 2,804,540 2,814,305 2,812,423 8.2: 2,781,443 2,808,502 8.22: 2,806,937 8.3: 2,786,129 9: 2,794,903 2,803,741 2,807,709 2,817,752 2,818,497 10: 2,782,296 2,784,306 2,802,095 2,815,439 10.1: 2,783,366 2,798,939 2,806,938 2,812,424 2,816,215 10.6: 2,817,753 2,785,288 2,790,893 2,794,904 10.63: 2,794,905 10.65: 2,780,721 2,789,209 2,805,325 10.66: 2,780,722 2,798,940 2,804,541 2,810,822 2,817,754 2,818,498 10.67: 2,779,865 2,796,516 2,785,289 2,797,309 2,818,499 11: 2,785,290 11.2: 2,777,942 2,786,936 2,797,310 2,798,941 2,813,972 11.3: 2,794,114 11.4: 2,791,679 2,794,906 2,797,311 2,798,149 2,807,710 2,778,929 25: 2,786,130 2,793,285 2,800,576 26: 2,779,866 36: 2,781,444 41: 2,786,937 41.1: 2,787,701 41.3: 2,782,297 41.35: 2,806,939 41.4: 2,813,971 41.55: 2,797,312 2,814,720 46.17: 2,798,942	240—46.57: 2,785,291 46.59: 2,791,680 2,807,711 47: 2,798,943 2,799,773 50: 2,794,907 51.11: 2,791,681 2,795,692 2,810,823 51.12: 2,814,721 2,817,004 52: 2,777,943 2,778,930 2,786,131 2,793,286 52.1: 2,783,367 2,806,940 52.5: 2,778,931 52.6: 2,777,052 54: 2,788,438 2,789,208 2,792,492 57: 2,785,292 57.1: 2,813,196 59: 2,788,439 2,794,908 2,805,326 61.6: 2,817,005 73: 2,777,944 2,790,894 2,800,577 2,802,932 2,806,941 78: 2,777,053 2,787,702 2,801,331 2,802,096 2,802,933 2,804,542 2,805,327 2,816,216 81: 2,794,115 88: 2,803,742 90: 2,782,298 2,800,578 2,806,942 2,814,722 93: Re.24,372 98: 2,817,006 103: 2,806,134 2,806,135 2,817,007 106: 2,802,097 2,814,723 2,818,500 108: 2,785,293 2,794,116 2,796,517 2,799,774 2,817,008 123: 2,810,066 128: 2,783,368 2,805,328 2,810,824 2,802,098 2,805,329 2,805,330 2,808,503 241—	241—	128: 2,783,949 152: 2,780,417 153: 2,818,220 154: 2,807,424 159: 2,805,028 168: 2,782,998 2,795,382 171: 2,805,827 175: 2,798,675 176: 2,797,051 183: 2,801,804 2,809,789 186: 2,785,865 2,808,214 189: 2,792,995 190: 2,797,052 2,803,410 194: 2,810,529 2,813,684 199: 2,795,383 200: 2,815,177 202: 2,814,450 211: 2,799,456 216: 2,787,424 222: 2,792,183 226: 2,808,215 231: 2,794,603 239: 2,781,980 268: 2,784,916 271: 2,806,657 290: 2,787,425 2,791,383 293: 2,787,426 2,781,984 294: 2,781,176 2,798,676 2,803,411 296: 2,776,800 299: 2,813,685 300: 2,816,717 242—	242—	55.5: 2,776,095 2,788,181 2,788,944 2,790,609 2,792,184 2,818,221 55.53: 2,805,029 56: 2,783,000 2,784,918 2,787,427 56.1: 2,797,879 58: 2,776,802 2,779,546 58.5: 2,812,145 63: 2,805,828 65: 2,777,644 66: 2,795,384 2,801,810 2,812,910 67.1: 2,815,179 67.3: 2,801,057 68: 2,798,678 68.3: 2,803,413 68.4: 2,800,288 70: 2,778,581 72: 2,805,829 74: 2,779,547 2,792,185 74.1: 2,801,811 75: 2,779,548 2,781,178 2,781,984 2,796,222 75.3: 2,796,223 2,804,275 75.47: 2,811,320 76: 2,779,549 78: 2,789,777 2,792,996 79: 2,801,812 80: 2,779,550 2,786,638 81: 2,781,179 83: 2,801,813 84: 2,779,551 2,786,639 84.1: 2,776,096 2,784,919 2,785,868 2,797,055 84.2: 2,796,224 84.21: 2,798,679 2,799,457 84.4: 2,776,803 2,777,645 2,783,952 84.5: 2,783,953 84.6: 2,783,001 84.9: 2,792,186 85: 2,816,718 86: 2,777,646 2,795,385 86.1: 2,815,180 86.5: 2,793,820 86.52: 2,811,321 90: 2,780,419 2,789,778 96: 2,778,582 2,785,869 2,815,181 100.1: 2,807,426 105: 2,777,647 106: 2,792,187 107.13: 2,798,680 107.2: 2,817,482 107.3: 2,794,607 2,800,289 107.4: 2,801,814 110: 2,797,880 113: 2,814,988 114: 2,778,583 115: 2,789,779 117: 2,811,322 118: 2,781,985 118.11: 2,818,222 118.32: 2,793,822 118.7: 2,810,531 118.8: 2,793,821 2,799,458 119: 2,777,648 123: 2,780,420 2,781,986 124: 2,784,920 125: 2,776,097 2,783,954 125.3: 2,806,659 2,806,660 2,806,661 128: 2,784,921 2,808,998 2,809,791 130: 2,776,098 2,790,610 137.1: 2,798,681	242—	145: 2,776,804 146: 2,781,180 147: 2,793,823 2,796,225 150: 2,781,181 2,799,459 151: 2,813,688 153: 2,779,552 2,797,056 154: 2,776,805 2,790,611 2,813,687 155: 2,810,532 157: 2,781,987 2,792,188 158: 2,780,421 161: 2,800,290 2,797,057 2,815,182 2,815,183 34: 2,792,997 38: 2,784,922 2,816,719 243—	244—	2: 2,780,422 2,797,881 2,811,323 3: 2,779,553 2,809,792 7: 2,780,423 2,792,189 2,803,414 2,807,427 2,814,451 12: 2,780,424 2,801,058 14: 2,792,190 2,801,815 2,810,533 2,816,720 17.19: 2,806,662 2,818,223 2,818,224 17.21: 2,811,324 22: 2,783,955 23: 2,777,649 2,807,428 30: 2,778,585 31: 2,779,554 2,783,002 32: 2,793,824 35: 2,805,830 2,805,831 41: 2,800,291 42: 2,779,555 2,780,425 2,791,385 2,793,825 2,805,031 43: 2,793,826 46: 2,794,608 48: 2,783,956 2,788,182 2,792,191 49: 2,812,911 50: 2,779,556 2,814,452 53: 2,776,806 2,788,183 2,788,184 54: 2,783,003 2,815,184 2,818,225 58: 2,810,534 63: Re.24,306 2,777,650 2,779,557 2,783,004 2,783,005 2,814,453 74: 2,812,912 2,816,721 75: 2,805,032 76: 2,790,612 2,797,882 77: Re.24,273 2,776,099 2,776,807 2,780,426 2,784,924 2,787,428 2,798,682 2,799,460 2,799,461 2,800,292 2,801,059 2,801,816 2,808,999 2,809,000 2,811,325 2,816,722 2,816,723 2,816,724
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244—	80: 2,809,794 81: 2,786,640 82: 2,787,429 2,813,689 2,817,483 83: 2,780,427 2,781,182 2,783,006 2,788,185 2,801,060 91: 2,802,630 102: 2,801,817 2,811,326 2,814,454 103: 2,777,651 104: 2,777,652 2,810,535 108: 2,793,827 110: 2,777,653 2,783,957 2,789,780 2,802,631 111: 2,777,654 2,788,186 2,792,998 2,794,609 2,799,462 114: 2,784,925 2,807,429 117: 2,806,663 119: 2,779,558 2,817,484 120: 2,778,586 2,818,226 122: 2,797,883 2,806,664 2,808,217 2,812,146 2,813,690 123: 2,791,386 124: 2,776,100 129: 2,783,007 2,784,926 2,797,884 130: 2,783,008 135: 2,777,655 2,777,656 2,792,192 2,793,828 2,801,061 2,806,665 2,813,691 2,816,725 136: 2,812,913 137: 2,791,387 138: 2,776,808 139: 2,812,147 140: 2,781,183 2,806,666 141: 2,806,667 145: 2,797,885 147: 2,801,062 149: 2,780,428 2,798,683 150: 2,778,587 2,812,148 152: 2,784,927 153: 2,783,958 2,785,870 2,788,945 2,793,829 2,804,276 2,811,327 154: 2,781,989 2,801,063 2,812,914 155: 2,785,871 2,800,293 2,800,579 3: 2,786,938 2,816,217 5: 2,794,117 2,816,218 22: 2,785,294 2,785,295 30: 2,783,369 34: 2,783,370 2,790,070 2,802,934 2,811,634 2,816,219 37: 2,806,943 41: 2,812,425 2,817,009 2,817,010 2,817,011 114: 2,804,543 121: 2,813,197 124: 2,790,071 2,817,012 130: 2,790,895 134: 2,793,287 161: 2,817,013 167: 2,802,935 169: 2,785,296	246—	182: 2,791,682 2,803,743 219: 2,809,284 240: 2,812,426 242: 2,811,635 253: 2,786,939 419: 2,815,185 428: 2,784,928 448: 2,790,613 452: 2,806,668 453: 2,785,835 479: 2,810,067 488: 2,780,723 248—	4: 2,808,218 9: 2,781,990 10: 2,794,610 13: 2,787,430 16: 2,788,946 19: 2,802,632 2,810,536 22: 2,781,991 2,783,959 24: 2,776,101 2,779,559 26: 2,803,416 27: 2,788,187 2,809,795 2,811,328 2,812,149 2,812,915 29: 2,809,001 31: 2,791,388 34: 2,806,669 35: 2,784,929 41: 2,777,657 42: 2,787,431 2,804,277 44: 2,783,009 2,812,916 46: 2,786,641 2,795,386 2,795,387 47: 2,798,684 48: 2,815,908 55: 2,791,389 56: 2,813,692 57: 2,788,188 2,816,726 58: 2,801,064 59: 2,780,429 63: 2,810,537 2,810,538 70: 2,816,727 74: 2,790,614 90: 2,780,430 94: 2,783,010 97: 2,788,947 99: 2,815,186 100: 2,789,781 102: 2,815,909 103: 2,803,417 106: 2,807,430 110: 2,787,432 111: 2,779,560 112: 2,778,588 113: 2,797,886 2,807,431 117. 2: 2,791,390 2,814,455 117. 3: 2,778,589 120: 2,778,590 2,778,591 2,781,184 2,783,011 2,783,960 2,794,611 2,798,685 2,801,065 2,809,796 2,817,485 122: 2,795,388 125: 2,801,818 126: 2,808,219 129: 2,808,220 141: 2,813,693 147: 2,811,329 150: 2,791,391 152: 2,788,189 153: 2,803,418 158: 2,777,658 2,778,592 161: 2,794,612 164: 2,803,419 166: 2,790,615 2,817,486 167: 2,797,887 2,806,670 168: 2,799,463 170: 2,778,593 174: 2,805,033 178: 2,776,102 179: 2,802,633 183: 2,796,226 188: 2,784,930	248—	194: 2,780,431 2,805,034 196: 2,783,013 197: 2,808,221 201: 2,797,058 2,809,007 204: 2,787,433 205: 2,778,594 2,804,278 2,809,002 206: 2,803,420 210: 2,809,797 216: 2,789,782 217: 2,790,616 220: 2,789,783 222: 2,815,910 223: 2,792,193 2,810,539 2,812,150 224: 2,809,003 226: 2,777,659 2,781,992 2,788,950 2,803,421 2,805,832 234: 2,788,948 238: 2,778,595 2,779,561 242: 2,788,949 243: 2,783,961 248: 2,805,833 262: 2,808,222 263: 2,783,014 2,809,798 2,810,540 264: 2,792,999 2,796,227 273: 2,799,464 2,814,456 276: 2,812,917 278: 2,785,872 2,790,617 279: 2,776,810 2,783,015 280: 2,787,434 290: 2,797,059 293: 2,778,596 2,791,392 300: 2,789,042 2,802,634 2,809,004 307: 2,787,435 309: 2,817,487 311: 2,801,066 313: 2,784,931 316: 2,812,918 318: 2,783,962 328: 2,814,457 343: 2,815,918 346: 2,778,597 349: 2,808,223 354: 2,776,811 2,777,660 2,816,728 358: 2,798,686 2,809,005 361: 2,783,963 2,790,618 2,805,035 2,809,006 2,811,330 362: 2,809,008 363: 2,783,016 2,815,919 249—	1: 2,779,562 2: 2,776,103 2,803,422 3: 2,777,661 2,784,932 2,812,919 4: 2,800,294 14: 2,793,000 2,801,874 17: 2,783,017 18: 2,781,993 2,787,436 2,815,920 26: 2,805,036 27: 2,805,417 37: 2,812,151 42: 2,805,834 46: 2,781,994 2,801,819 56: 2,794,613 58: 2,790,619 2,798,687 59: 2,781,995 60: 2,795,389 62: 2,799,465 2,809,009 63: 2,797,060 2,817,488 250—	2: 2,776,365 2,786,132 6: 2,776,366	250—	6: 2,788,440 2,798,944 2,803,744 2,812,427 2,812,428 7: 2,776,367 2,807,712 2,797,313 8: 2,802,936 2,802,937 2,812,429 13: 2,782,299 2,789,210 2,790,072 2,790,073 2,806,136 2,806,944 2,807,713 2,807,714 2,808,504 2,809,285 2,813,198 2,814,724 2,818,501 14: 2,810,068 2,810,069 15: 2,777,054 2,782,300 2,783,371 2,789,211 2,791,683 2,818,502 16: 2,776,368 2,779,867 2,782,301 17: 2,779,868 2,791,684 2,792,493 2,798,150 2,806,137 2,809,286 2,810,070 20: 2,776,369 2,777,055 2,777,056 2,777,057 2,778,932 2,778,933 2,789,934 2,779,869 2,783,372 2,783,373 2,784,307 2,784,308 2,785,297 2,785,298 2,785,299 2,785,300 2,785,301 2,785,302 2,785,303 2,786,133 2,786,134 2,786,135 2,786,940 2,787,703 2,787,704 2,787,705 2,787,706 2,789,212 2,789,213 2,789,214 2,789,215 2,790,074 2,790,896 2,790,897 2,790,898 2,790,899 2,791,685 2,791,686 2,792,494 2,794,118 2,794,119 2,794,120 2,794,909 2,794,910 2,794,911 2,795,693 2,795,694 2,796,518 2,796,519 2,797,314 2,797,315 2,798,151 2,798,152 2,798,945 2,798,946 2,798,947 2,798,948 2,799,775 2,799,776 2,800,580 2,800,582 2,800,583 2,801,332	250—	20: 2,802,099 2,802,100 2,802,938 2,802,939 2,803,745 2,803,746 2,804,544 2,804,545 2,805,331 2,805,332 2,805,333 2,806,138 2,806,945 2,808,505 2,808,506 2,808,507 2,808,508 2,809,287 2,809,288 2,809,289 2,810,071 2,810,825 2,810,826 2,810,827 2,811,636 2,811,637 2,811,638 2,812,430 2,812,431 2,812,432 2,812,433 2,812,434 2,813,972 2,813,973 2,813,974 2,815,440 2,815,441 2,815,442 2,815,443 2,815,444 2,816,220 2,816,221 2,816,222 2,817,755 25: 2,794,912 27: 2,776,370 2,776,371 2,777,058 2,777,059 2,777,060 2,777,945 2,777,946 2,777,947 2,777,948 2,778,935 2,778,936 2,778,937 2,779,870 2,779,871 2,779,872 2,780,724 2,781,445 2,781,446 2,781,447 2,781,448 2,782,302 2,782,303 2,782,304 2,782,305 2,782,306 2,782,307 2,783,374 2,783,375 2,783,376 2,783,377 2,784,309 2,784,310 2,784,311 2,784,312 2,785,304 2,785,305 2,785,306 2,786,136 2,786,137 2,787,707 2,787,708 2,788,441 2,788,442 2,788,443 2,788,444 2,789,216 2,789,217 2,789,218 2,789,219 2,789,220 2,789,221 2,789,222 2,790,075 2,790,076 2,790,077 2,790,900 2,790,901 2,790,902 2,790,903	250—	27: 2,791,687 2,791,688 2,791,689 2,791,690 2,792,495 2,792,496 2,792,497 2,793,288 2,793,289 2,793,290 2,794,121 2,794,122 2,794,123 2,794,913 2,794,914 2,794,915 2,794,916 2,795,695 2,795,696 2,795,697 2,796,520 2,796,521 2,797,316 2,797,317 2,797,318 2,797,319 2,797,320 2,797,321 2,797,322 2,797,323 2,798,153 2,798,154 2,798,155 2,798,156 2,798,949 2,798,950 2,799,777 2,800,584 2,800,585 2,801,333 2,801,334 2,801,335 2,802,101 2,802,102 2,802,103 2,802,104 2,802,105 2,802,106 2,802,940 2,802,941 2,802,942 2,803,747 2,803,748 2,804,546 2,805,334 2,806,139 2,806,140 2,806,141 2,806,142 2,806,946 2,806,947 2,806,948 2,806,949 2,806,950 2,807,715 2,807,716 2,807,717 2,809,290 2,809,291 2,809,292 2,810,072 2,810,828 2,812,435 2,813,199 2,814,725 2,815,445 2,815,446 2,815,447 2,815,448 2,816,223 2,816,224 2,816,225 2,816,226 2,817,014 2,817,015 2,817,016 2,817,756 2,817,757 2,817,758 2,817,759 2,818,503 2,818,504 2,818,505 31: 2,777,949 2,780,725 2,783,378 2,791,691 2,807,718 2,810,829 36: Re.24,379 2,776,372 2,776,373 2,776,374 2,776,375 2,777,022
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250— 36:	2, 777, 061	250— 36:	2, 801, 340	250— 41.9:	2, 793, 295	250— 71:	2, 787, 714	250— 214:	2, 782, 320	251— 144:	2, 786, 643
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	2, 777, 063		2, 802, 107		2, 794, 126		2, 802, 951		2, 784, 321		2, 799, 469
	2, 777, 064		2, 802, 943		2, 794, 923		2, 805, 344		2, 785, 316		2, 803, 424
	2, 777, 065		2, 802, 944		2, 795, 701		2, 806, 959		2, 791, 696	147:	2, 793, 830
	2, 777, 066		2, 802, 945		2, 797, 330		2, 809, 295		2, 793, 299	148:	2, 797, 663
	2, 777, 067		2, 803, 749		2, 798, 162		2, 817, 767		2, 796, 533		2, 809, 800
	2, 777, 950		2, 803, 750		2, 798, 956	71.5:	2, 795, 703		2, 798, 964	150:	2, 807, 432
	2, 777, 951		2, 804, 547		2, 802, 108		2, 799, 780		2, 798, 965	159:	2, 813, 695
	2, 777, 952		2, 805, 335		2, 806, 143	73:	2, 812, 442		2, 799, 781	162:	2, 791, 395
	2, 777, 953		2, 805, 336		2, 806, 955	79:	2, 778, 948		2, 801, 342		2, 805, 833
	2, 777, 954		2, 805, 337		2, 806, 956	83:	2, 782, 319		2, 803, 754	168:	2, 797, 062
	2, 777, 955		2, 806, 951		2, 808, 516		2, 789, 232		2, 809, 297	172:	2, 792, 196
	2, 777, 956		2, 806, 952		2, 810, 075		2, 800, 589		2, 809, 298		2, 796, 230
	2, 778, 938		2, 806, 953		2, 813, 978		2, 814, 730		2, 812, 447		2, 799, 470
	2, 778, 939		2, 806, 954		2, 813, 979	83.1:	2, 795, 704		2, 815, 454		2, 810, 542
	2, 778, 940		2, 807, 719		2, 817, 763		2, 811, 649		2, 778, 952		2, 810, 543
	2, 778, 941		2, 807, 720		2, 818, 507		2, 814, 731		2, 790, 089	174:	2, 777, 664
	2, 778, 942		2, 807, 721		2, 816, 231		2, 778, 949		2, 791, 697		2, 789, 785
	2, 779, 873		2, 807, 722	43:	2, 784, 319	83.3:	2, 779, 875		2, 804, 550	175:	2, 791, 396
	2, 779, 874		2, 807, 723	43.5:	2, 786, 144		2, 779, 876		2, 783, 390	177:	2, 805, 836
	2, 780, 726		2, 808, 509		2, 789, 230		2, 783, 387		2, 806, 148	184:	2, 785, 874
	2, 781, 449		2, 808, 510		2, 790, 081		2, 786, 145		2, 777, 069	187:	2, 786, 644
	2, 781, 450		2, 808, 511		2, 791, 698		2, 788, 452		2, 792, 504	192:	2, 776, 104
	2, 782, 308		2, 808, 512		2, 792, 501		2, 793, 297		2, 795, 705	196:	2, 778, 600
	2, 782, 309		2, 808, 513		2, 794, 924		2, 793, 298		2, 796, 534	197:	2, 776, 813
	2, 782, 310		2, 809, 293		2, 802, 109		2, 794, 926		2, 798, 966		2, 793, 831
	2, 782, 311		2, 810, 073		2, 805, 339		2, 798, 961		2, 807, 728	199:	2, 776, 105
	2, 782, 312		2, 810, 074		2, 806, 144		2, 798, 962		2, 797, 334	204:	2, 793, 002
	2, 782, 313		2, 810, 830		2, 806, 957		2, 802, 112		2, 813, 203	208:	2, 817, 489
	2, 782, 314		2, 810, 831		2, 810, 076		2, 805, 345		2, 813, 982	214:	Re. 24, 401
	2, 783, 379		2, 810, 832		2, 810, 835		2, 806, 145		2, 813, 983		2, 805, 040
	2, 783, 380		2, 811, 639		2, 813, 980		2, 806, 960		2, 817, 769	222:	2, 780, 434
	2, 783, 381		2, 811, 640		2, 817, 764		2, 811, 650		2, 797, 335	225:	2, 784, 933
	2, 783, 382		2, 811, 641	44:	2, 785, 312		2, 815, 452		2, 803, 755	233:	2, 809, 011
	2, 783, 383		2, 811, 642	49.5:	2, 777, 957		2, 816, 232		2, 777, 070	234:	2, 779, 663
	2, 783, 384		2, 811, 643		2, 777, 958		2, 816, 233		2, 790, 913	251:	2, 812, 154
	2, 784, 313		2, 811, 644		2, 778, 946		2, 816, 234		2, 800, 592	252:	2, 797, 888
	2, 784, 314		2, 811, 645		2, 785, 313		2, 818, 508		2, 808, 518	257:	2, 779, 564
	2, 784, 315		2, 811, 646		2, 790, 082	83.6:	2, 776, 378		2, 798, 967		2, 803, 425
	2, 785, 307		2, 811, 647		2, 791, 695		2, 778, 950		2, 801, 343	265:	2, 784, 934
	2, 785, 308		2, 812, 436		2, 797, 331		2, 778, 951		2, 793, 300	266:	Re. 24, 350
	2, 785, 309		2, 812, 437		2, 799, 779		2, 781, 453		2, 797, 336	275:	2, 776, 106
	2, 785, 310		2, 812, 438		2, 802, 110		2, 783, 388		2, 803, 756	290:	2, 800, 295
	2, 786, 138		2, 813, 200		2, 802, 111		2, 785, 315		2, 813, 204	292:	2, 805, 837
	2, 786, 139		2, 813, 975		2, 804, 548		2, 789, 233		2, 817, 021	301:	2, 803, 426
	2, 786, 140		2, 813, 976		2, 814, 727		2, 790, 086		2, 787, 437	305:	2, 815, 924
	2, 786, 941		2, 813, 977		2, 814, 728		2, 797, 332		2, 795, 390	326:	2, 787, 438
	2, 786, 942		2, 814, 726		2, 814, 729		2, 800, 590		2, 796, 228		2, 803, 427
	2, 786, 943		2, 816, 227		2, 815, 449		2, 800, 591		2, 777, 662	327:	2, 797, 063
	2, 786, 944		2, 816, 228		2, 780, 730		2, 802, 113		2, 788, 190	328:	2, 815, 187
	2, 787, 709		2, 816, 229	50:	2, 790, 083		2, 805, 346		2, 816, 730		2, 816, 730
	2, 787, 710		2, 816, 230	51:	2, 794, 127		2, 812, 443		2, 803, 423	329:	2, 787, 439
	2, 787, 711		2, 817, 017		2, 802, 947		2, 813, 981		2, 812, 152	333:	2, 786, 645
	2, 787, 712		2, 817, 018	52:	2, 792, 502		2, 816, 235		2, 783, 018		2, 814, 458
	2, 788, 445		2, 817, 019		2, 810, 836		2, 817, 768		2, 805, 037	342:	2, 799, 471
	2, 788, 446		2, 817, 760	53:	2, 783, 385		2, 818, 509		2, 805, 038	347:	2, 815, 925
	2, 788, 447		2, 817, 761		2, 798, 163	84:	2, 797, 333		2, 783, 019	351:	2, 804, 279
	2, 788, 448		2, 817, 762		2, 798, 957	87:	2, 786, 948		2, 786, 642		2, 777, 817
	2, 788, 449		2, 797, 329		2, 805, 340	90:	2, 808, 517		2, 798, 688	252— 1:	2, 801, 217
	2, 788, 450	37:	2, 776, 376		2, 805, 341	91:	2, 781, 454		2, 799, 466		2, 816, 863
	2, 789, 223	40:	2, 778, 943		2, 805, 342		2, 818, 510		2, 781, 996	7:	2, 776, 942
	2, 789, 224		2, 780, 727		2, 805, 343	93:	2, 790, 911		2, 788, 191		2, 816, 864
	2, 789, 225		2, 781, 451		2, 813, 201		2, 798, 963		2, 795, 391	8:	2, 785, 124
	2, 789, 226		2, 782, 315		2, 790, 907		2, 810, 077		2, 805, 039		2, 818, 382
	2, 790, 078		2, 784, 316	57:	2, 790, 084	95:	2, 788, 453		2, 815, 921	8.1:	2, 784, 159
	2, 790, 079		2, 786, 141	59:	2, 800, 588		2, 796, 527		2, 776, 812	8.5:	2, 776, 259
	2, 790, 904		2, 786, 142		2, 794, 925		2, 796, 528		2, 801, 067		2, 781, 313
	2, 790, 905		2, 786, 945		2, 789, 231	61.5:	2, 809, 296		2, 781, 997		2, 782, 163
	2, 790, 906		2, 787, 713		2, 793, 296		2, 810, 078		2, 808, 224		2, 783, 201
	2, 791, 692		2, 789, 227		2, 798, 958		2, 790, 912		2, 794, 614	52:	2, 785, 125
	2, 791, 693		2, 793, 294	63:	2, 806, 958		2, 786, 949		2, 809, 799		2, 786, 027
	2, 791, 694		2, 794, 922	64:	2, 777, 068		2, 792, 503		2, 780, 432	59:	2, 788, 323
	2, 792, 498		2, 795, 699	65:	2, 790, 085		2, 810, 838		2, 794, 615	61:	2, 789, 947
	2, 792, 499		2, 795, 700		2, 790, 908		2, 784, 320		2, 796, 229		2, 789, 948
	2, 793, 291		2, 796, 525		2, 796, 525		2, 790, 087		2, 783, 020	62:	2, 789, 949
	2, 793, 292		2, 798, 161		2, 798, 959		2, 806, 146		2, 788, 192		2, 790, 763
	2, 793, 293		2, 798, 954		2, 798, 960		2, 806, 147		2, 778, 598	63:	2, 793, 187
	2, 794, 124		2, 798, 955		2, 802, 948		2, 806, 961		2, 792, 194	65:	2, 793, 188
	2, 794, 917		2, 800, 587		2, 802, 949		2, 786, 146		2, 778, 599	66:	2, 793, 189
	2, 794, 918		2, 802, 946		2, 807, 725		2, 798, 164		2, 791, 393	68:	2, 793, 995
	2, 794, 919		2, 805, 338		2, 809, 294		2, 810, 839		2, 812, 920		2, 793, 996
	2, 794, 920		2, 807, 724		2, 812, 440		2, 781, 455		2, 780, 433	70:	2, 797, 196
	2, 794, 921		2, 808, 514		2, 815, 450		2, 794, 128		2, 806, 671	72:	2, 798, 043
	2, 795, 698		2, 808, 515		2, 817, 765		2, 796, 529		2, 798, 689	75:	2, 798, 851
	2, 796, 522		2, 810, 833	66:	2, 795, 702		2, 807, 727		2, 816, 729		2, 799, 646
	2, 796, 523		2, 810, 834		2, 807, 726		2, 813, 202		2, 815, 922	76:	2, 799, 647
	2, 797, 324		2, 812, 439		2, 811, 648		2, 796, 530		2, 792, 195	77:	2, 800, 449
	2, 797, 325		2, 815, 451		2, 817, 766	205:	2, 796, 531		2, 812, 153	84:	2, 801, 967
	2, 797, 326	41.9:	2, 778, 944		2, 790, 909	207:	2, 798, 165		2, 809, 010	86:	2, 802, 783
	2, 797, 327		2, 778, 945		2, 796, 526		2, 812, 444		2, 801, 820	88:	2, 805, 990
	2, 797, 328		2, 780, 729		2, 802, 950		2, 815, 453		2, 813, 694	89:	2, 805, 991
	2, 798, 157		2, 781, 452		2, 810, 837		2, 780, 433		2, 795, 392	97:	2, 811, 488
	2, 798, 158		2, 782, 316		2, 812, 441		2, 803, 752		2, 798, 690	111:	2, 813, 826
	2, 798, 159										

352— 8.55:	2,785,126 2,785,127 2,793,997 2,793,998 2,794,779 2,799,648 2,799,649 2,801,218 2,802,784 2,802,785 2,805,200 2,806,201 2,805,202 2,813,075 2,814,593 2,817,635 2,818,383 8.7: 2,787,594 2,790,764 2,798,044 8.8: 2,805,992 2,805,993 2,809,159 2,810,694 12.2: 2,788,324 18: 2,780,597 2,781,314 2,807,583 23: 2,818,384 28: 2,790,776 2,795,545 2,801,219 2,805,994 2,818,385 32: 2,810,695 32.5: 2,777,819 2,786,028 2,789,950 2,790,765 2,790,766 2,790,767 2,801,968 2,815,324 32.7: 2,785,128 2,786,029 2,786,812 2,789,951 2,789,952 2,790,768 2,794,780 2,798,045 2,799,650 2,799,651 2,799,652 2,799,653 2,799,654 2,799,655 2,800,450 2,809,934 2,813,076 33: 2,781,315 2,781,316 2,781,317 2,791,558 33.2: 2,780,598 2,790,769 2,814,594 33.3: 2,797,197 2,802,786 2,813,828 2,818,386 33.4: 2,785,129 2,796,400 2,808,376 2,809,160 2,809,161 2,809,162 2,810,696 2,813,077 2,816,867 33.6: 2,776,260 2,786,813 2,786,814 2,790,770 2,794,781 2,799,656 2,801,969 2,804,430 2,805,995 2,805,996 2,812,306 34: 2,805,203 34.7: 2,790,771 2,811,489 35: 2,779,736 36: 2,801,220 37.2: 2,785,130 37.5: 2,791,559 37.7: 2,780,599 39: 2,779,737 40: 2,813,829 40.5: 2,801,970 40.7: 2,816,074 41: 2,782,165 2,801,971	252— 41: 2,801,972 2,801,973 2,801,974 2,801,975 42: 2,782,166 2,789,091 2,796,401 2,801,976 2,801,977 42.1: 2,791,560 2,795,546 2,815,325 42.7: 2,785,131 2,786,030 2,788,325 2,789,092 2,798,852 2,800,451 2,805,997 2,808,377 2,810,697 2,816,868 45: 2,790,772 2,790,774 2,790,775 2,799,657 2,815,326 2,816,075 46.6: 2,783,202 2,783,203 2,783,204 2,798,853 2,804,431 46.7: 2,783,205 2,792,346 2,809,163 2,809,935 47: 2,781,318 47.5: 2,781,319 2,793,999 2,796,402 2,796,403 2,796,404 2,815,327 48.2: 2,816,076 48.4: 2,812,307 48.6: 2,790,773 2,796,405 48.8: 2,786,031 49.6: 2,779,738 2,795,547 2,795,548 2,796,406 2,813,830 49.7: 2,795,549 2,795,550 2,795,551 2,795,552 2,795,553 49.8: 2,779,739 51.5: 2,779,740 2,783,206 2,794,000 2,794,782 2,796,407 2,800,452 2,800,453 2,805,998 2,809,164 52: 2,782,167 2,789,093 54: 2,814,595 55: 2,814,596 56: 2,788,326 2,802,787 57: 2,809,936 2,816,869 58: 2,784,160 59: 2,777,820 2,786,032 61: 2,816,870 62.2: 2,801,221 62.3: 2,778,802 2,809,165 62.5: 2,778,803 2,783,207 2,783,208 2,791,561 2,818,387 63.7: 2,788,327 70: 2,785,132 2,800,454 2,800,455 2,800,456 74: 2,786,033 75: 2,803,603 2,803,604 2,815,328 2,817,636 2,818,388 78: 2,777,821 2,818,389 79: 2,803,605 88: 2,786,815 2,789,953	252— 88: 2,805,204 91: 2,807,584 99: Re.24,412 100: 2,793,190 105: 2,802,788 106: 2,809,937 107: 2,795,554 2,795,555 2,798,046 2,814,597 2,818,390 108: 2,792,347 109: 2,776,943 117: 2,805,999 121: 2,781,320 132: 2,792,348 134: 2,792,349 135: 2,788,328 136: 2,806,000 137: 2,801,978 2,813,831 138: 2,787,595 2,791,562 2,802,789 147: 2,793,191 148: 2,801,979 2,807,585 152: 2,785,133 2,798,047 2,805,205 153: 2,787,596 154: 2,802,790 155: 2,816,077 156: 2,794,001 2,804,432 161: 2,781,321 2,785,134 2,785,135 2,796,408 2,806,001 2,809,166 2,813,078 2,813,832 179: 2,785,136 2,815,329 182: 2,776,944 2,798,048 183: 2,792,350 2,802,791 186: 2,789,954 187: 2,795,556 301.2: 2,791,563 2,791,564 2,793,192 301.3: 2,783,209 301.4: 2,782,168 2,785,137 2,786,034 2,791,565 2,809,167 301.5: 2,807,586 301.6: 2,776,261 2,780,600 2,798,854 2,802,792 2,806,002 2,807,587 2,818,391 309: 2,816,078 311.5: 2,782,169 2,794,783 2,795,557 2,798,049 2,799,658 316: 2,794,003 2,800,457 2,800,458 317: 2,807,588 2,813,079 2,816,079 321: 2,800,459 2,808,378 2,809,168 2,813,833 326: 2,784,161 329: 2,793,193 331: 2,792,351 2,792,352 2,792,353 2,792,354 2,792,355 2,792,356 2,792,357 340: 2,790,777 341: 2,792,358 2,792,359 344: 2,792,360 2,792,361 2,792,362 2,792,363 2,792,364 2,792,365 2,792,366 2,792,367 2,792,368	252— 344: 2,792,369 2,792,370 2,792,371 2,792,372 2,792,373 353: 2,794,004 2,807,589 2,807,590 354: 2,788,329 357: 2,779,741 358: 2,792,374 2,797,198 359: 2,815,330 363.5: 2,807,591 367: 2,802,793 373: 2,815,331 374: 2,795,558 2,795,559 376: 2,789,094 2,806,003 386: 2,776,262 387: 2,795,560 390: 2,776,263 391: 2,797,199 392: 2,790,778 2,790,779 2,790,780 2,799,659 2,816,080 401: 2,783,210 403: 2,813,080 406: 2,813,834 408: 2,780,601 2,787,597 2,798,855 2,798,856 2,799,660 2,800,460 2,807,592 411: 2,786,816 2,787,598 2,813,835 412: 2,814,598 415: 2,785,138 2,785,139 417: 2,781,322 2,800,461 421: 2,790,781 2,790,782 422: 2,809,938 429: 2,786,035 430: 2,815,332 431: 2,786,036 432: 2,780,602 435: 2,778,804 2,818,392 437: 2,816,081 438: 2,812,308 440: 2,786,817 441: 2,794,002 442: 2,781,323 2,817,637 448: 2,786,037 2,786,818 2,787,599 2,796,409 2,805,206 2,809,169 2,813,836 453: 2,777,822 2,798,857 2,804,433 455: 2,779,742 2,783,211 2,785,140 2,787,600 456: 2,809,939 457: 2,793,194 459: 2,777,823 463: 2,810,698 2,810,699 464: 2,785,141 2,791,566 465: 2,794,005 2,796,410 2,799,661 2,807,593 2,809,170 2,813,081 2,813,837 466: 2,776,264 2,780,603 2,781,324 2,784,162 2,798,050 2,798,051 2,802,794 2,806,004 2,814,599 2,818,393 2,818,394 470: 2,812,309 2,812,310 472: 2,781,325	252— 474: 2,778,805 2,797,200 476: 2,794,784 2,805,207 477: 2,809,940 2,811,490 478: 2,796,411 516: 2,806,005 518: 2,785,142 519: 2,786,819 253— 3: 2,808,225 10: 2,783,022 24: 2,801,068 26: 2,803,428 2,818,227 32: 2,800,296 2,801,069 37: 2,812,155 38: 2,789,786 39: 2,777,665 2,781,998 2,781,999 2,795,393 2,796,231 2,799,472 2,801,070 2,801,071 2,803,429 2,811,331 2,818,228 39.1: 2,787,440 2,793,832 2,801,821 2,807,433 2,812,156 39.15: 2,778,601 2,779,665 2,780,435 2,782,000 2,783,964 2,783,965 2,786,646 2,787,441 2,788,951 2,801,072 2,804,280 2,807,434 2,810,544 2,812,157 2,815,926 2,817,490 40: 2,810,545 51: 2,786,647 2,800,297 55: 2,792,197 2,803,430 59: 2,782,001 2,784,935 2,811,332 2,815,188 2,816,731 77: 2,783,023 2,783,966 2,783,967 2,786,648 2,790,620 2,795,394 2,800,298 2,801,073 2,801,074 2,805,338 2,807,435 2,807,436 2,807,437 2,808,228 2,809,801 2,809,802 78: 2,777,666 2,780,436 2,782,002 2,789,787 2,794,616 2,799,473 2,800,299 2,801,075 2,801,076 2,801,822 2,808,226 2,809,803 2,812,158 2,812,159 101: 2,808,227 117: 2,784,936 148: 2,776,107 2,813,696 254— 1: 2,786,649 2,802,635 2,811,333 2,789,788 2,777,667 2,788,193 14: 2,798,691 15: 2,780,437 17: 2,817,491 18: 2,797,889	254— 20: 2,796,232 24: 2,817,492 27: 2,776,108 28: 2,776,109 29: 2,776,110 2,783,024 43: 2,797,064 50.3: 2,784,937 2,797,890 67: 2,784,938 2,818,229 72: 2,777,668 74: 2,797,891 78: 2,816,732 79: 2,779,566 86: 2,817,493 93: Re.24,307 2,805,839 2,807,438 99: 2,784,939 2,790,621 100: 2,814,459 120: 2,784,940 128: 2,803,431 131: 2,779,567 134: 2,786,650 134.3: 2,788,952 139.1: 2,812,921 139.5: 2,790,622 2,796,233 144: 2,817,494 145: 2,784,941 146: 2,779,568 148: 2,779,569 150: 2,776,814 2,802,636 152: 2,802,637 2,811,334 159: 2,791,397 161: 2,815,189 162: 2,782,003 167: 2,789,791 2,816,733 168: 2,776,815 2,809,804 2,815,927 173: 2,783,968 184: 2,802,638 190: 2,783,025 2,814,460 2,816,734 192: 2,778,602 194: 2,800,300 2,802,639 255— 1: 2,776,111 2,797,892 2,803,432 2,810,546 2,810,547 2,791,398 2,795,395 2,799,474 2,805,041 2,807,439 2,809,805 2,809,806 2,809,807 2,810,548 2,812,160 1.6: 2,778,603 2,779,570 2,796,234 2,797,893 2,797,894 2,805,840 2,807,440 1.8: 2,776,112 2,776,816 2,778,604 2,782,004 2,783,026 2,783,969 2,785,875 2,793,833 2,796,235 2,799,475 2,801,077 2,803,433 2,812,161 2,815,190 2,815,931 2,816,735 2,818,230 2,818,231 2.5: 2,777,669 2,783,027 2,783,970 2,808,229 2,808,230 3: 2,780,438 4: 2,783,971 2,800,301 4.4: 2,806,672 2,810,549
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255— 4. 4: 2,815,928 4. 8: 2,776,113 5: 2,802,640 13: 2,815,929 15: 2,795,396 19: 2,784,942 2,792,198 2,799,476 2,803,434 2,805,042 2,812,162 20: 2,797,065 2,798,692 22: 2,776,114 2,807,441 2,810,550 23: 2,777,670 2,797,895 2,809,012 2,810,551 2,810,552 2,814,461 24: 2,783,972 2,786,651 2,786,652 2,794,617 2,805,043 2,809,013 27: 2,790,623 2,801,078 2,802,703 2,815,930 2,818,232 28: 2,776,817 2,783,028 2,794,618 2,795,397 2,795,398 2,803,435 2,804,281 2,805,044 2,808,231 2,813,697 2,814,462 2,816,736 34: 2,794,619 35: 2,797,066 2,809,014 36: 2,794,620 41: 2,794,621 2,815,932 42: 2,812,922 43: 2,778,605 49: 2,812,163 50: 2,792,199 61: 2,777,671 2,781,185 2,788,194 2,789,789 2,791,399 2,802,641 2,806,673 2,808,232 2,811,335 2,815,191 2,817,495 61: 2,776,818 2,779,571 2,783,973 2,794,622 2,800,302 2,801,079 2,807,442 2,815,933 2,817,496 63: 2,776,819 64: 2,777,672 2,784,943 2,790,624 2,800,303 2,802,642 2,807,443 67: 2,784,944 69: 2,780,439 2,794,623 2,810,553 2,815,192 2,816,737 2,817,497 72: 2,789,790 2,809,808 2,815,934 2,818,233 74: 2,783,974 2,815,935 75: 2,809,015 76: 2,790,625 2,799,477 2,799,478 2,799,479 2,809,016 2,814,463 303: 2,814,464 313: 2,776,115	255— 313: 2,803,436 2,807,444 2,815,936 314: 2,805,045 330: 2,802,643 340: 2,782,005 341: 2,814,465 343: 2,797,067 345: 2,804,282 256— 2,801,080 2,801,081 10: 2,801,823 12. 5: 2,795,399 2,803,437 13. 1: 2,776,116 14: 2,800,304 17: 2,790,626 19: 2,783,029 2,785,876 2,799,480 2,802,644 21: 2,780,440 2,809,809 22: 2,808,233 23: 2,815,937 24: 2,789,792 25: 2,797,896 2,805,046 2,810,554 32: 2,814,466 33: 2,777,673 34: 2,785,877 2,802,645 59: 2,796,236 64: 2,793,003 65: 2,800,305 73: 2,809,017 257— 1: 2,785,878 2,795,400 2,796,237 2,801,824 2,809,018 2,812,923 2,814,467 2: 2,778,606 2,783,975 2,791,400 2,793,004 2,795,401 2,808,234 2,809,810 2,813,698 3: 2,776,117 2,776,118 2,780,441 2,780,442 2,783,976 2,784,945 2,793,834 2,797,068 2,800,306 2,801,825 2,801,826 2,806,674 2,809,811 4: 2,787,443 2,793,005 2,808,235 6: 2,789,793 2,797,897 2,802,646 2,803,438 2,803,439 2,808,236 7: 2,789,794 2,801,827 2,809,812 8: 2,794,624 2,806,675 9: 2,779,572 2,783,030 2,791,401 2,814,468 2,818,234 16: 2,801,828 2,809,813 18: 2,787,444 2,815,938 23: 2,789,795 2,812,924 24: 2,778,607 32: 2,797,898 2,812,164 36: 2,816,738 43: 2,804,283 55: 2,813,699 71: 2,805,047 73: 2,800,307 92: 2,798,693 95: 2,780,443 2,783,977 2,793,006 2,797,899 120: 2,805,841 121: 2,791,347	257— 124: 2,782,006 2,799,481 2,800,308 2,801,829 2,805,842 2,809,814 2,818,235 128: 2,793,835 132: 2,783,978 133: 2,782,007 2,793,007 137: 2,780,445 2,783,979 2,786,653 2,798,694 2,808,237 2,812,925 138: 2,812,926 158: 2,787,445 163: 2,796,238 191: 2,794,625 198: 2,778,608 2,782,008 220: 2,818,236 222: 2,801,830 224: 2,817,498 229: 2,805,048 2,817,499 234: 2,811,336 235: 2,797,900 236: 2,783,980 2,805,049 2,807,445 2,811,337 2,816,739 241: 2,778,609 2,779,573 2,784,946 2,789,796 2,793,836 2,804,284 2,809,019 2,813,700 244: 2,799,482 245: 2,777,674 2,780,446 2,782,009 2,782,010 2,784,947 2,787,446 2,789,797 2,790,627 2,791,402 2,792,200 2,796,239 2,804,285 2,806,676 2,812,165 2,813,701 2,814,469 2,816,740 246: 2,801,831 2,806,677 247: 2,807,446 248: 2,797,069 255: 2,792,201 256: 2,795,402 262. 13: 2,788,195 262. 14: 2,803,440 2,814,470 262. 15: 2,793,008 262. 16: 2,804,286 262. 19: 2,778,610 262. 2: 2,790,628 262. 22: 2,804,287 263: 2,798,695 258— 2,818,237 1. 2: 2,778,611 259— 1: 2,778,612 2,791,403 2,793,009 2,797,901 2,798,696 2,800,309 2,803,441 2,808,238 2,815,939 3: 2,797,070 2,815,940 4: 2,776,119 2,784,948 2,788,953 2,795,403 2,813,702 2,814,471 2,817,500 6: 2,782,011 2,788,196 2,796,240 2,813,703 8: 2,777,675 2,787,447 2,798,697 2,801,083	259— 8: 2,802,647 2,815,941 2,816,741 9: 2,791,404 2,798,698 2,801,084 2,813,704 10: 2,799,483 2,806,678 14: 2,795,404 18: 2,802,648 21: 2,793,837 23: 2,793,838 2,801,832 24: 2,782,012 30: 2,786,654 41: 2,786,655 43: 2,799,484 44: 2,810,555 46: 2,788,197 50: 2,817,501 51: 2,793,839 54: 2,791,405 67: 2,802,649 71: 2,806,679 72: 2,776,120 2,784,949 2,793,010 2,797,902 2,798,699 2,809,020 2,815,193 85: 2,798,700 2,811,338 88: 2,812,927 89: 2,816,742 95: 2,790,629 2,812,928 97: 2,791,406 101: 2,797,071 102: 2,808,239 104: 2,793,011 2,794,626 2,804,288 2,814,472 105: 2,784,950 2,784,951 2,807,447 107: 2,797,903 2,798,701 2,809,021 108: Re. 24,323 2,782,013 2,789,798 2,791,407 2,793,840 2,793,841 2,794,627 2,800,310 2,804,289 2,810,556 2,814,473 2,817,502 109: 2,809,815 2,810,557 113: 2,780,444 122: 2,778,613 2,793,012 2,795,405 2,816,743 130: 2,815,194 131: 2,782,014 2,817,503 132: 2,778,614 133: 2,794,628 134: 2,778,615 2,779,574 2,787,448 2,789,799 2,799,485 2,808,240 2,811,339 2,816,744 135: 2,787,449 2,789,800 2,800,311 2,804,290 2,805,050 2,805,843 2,812,166 136: 2,802,650 144: 2,777,676 2,793,842 2,798,702 151: 2,786,656 2,795,406 152: 2,779,575 154: 2,800,312 2,805,051 159: 2,805,052 160: 2,815,195 161: 2,806,680 164: 2,787,450 168: 2,793,013 169: 2,805,053	259— 171: 2,801,085 175: 2,784,952 2,810,558 2,814,474 176: 2,813,705 177: 2,781,186 2,801,833 2,808,241 178: 2,809,816 180: 2,808,242 2: 2,792,375 2,795,561 2,798,052 2,804,434 2,809,171 2,809,941 2,809,942 2,811,491 2,812,311 2,817,638 2. 1: 2,780,604 2,788,330 2,788,331 2,794,785 2,801,222 2,801,223 2,801,224 2,807,594 2,809,943 2,811,492 2,812,312 2,813,838 2. 2: 2,783,212 2,794,786 2,798,053 2,818,395 2. 3: 2,783,213 2,794,006 2,800,462 2,806,821 2,809,944 2. 5: 2,776,265 2,777,824 2,780,605 2,780,606 2,784,163 2,786,038 2,787,601 2,788,332 2,788,333 2,788,334 2,788,335 2,789,095 2,797,201 2,798,054 2,798,055 2,802,795 2,802,796 2,803,606 2,804,435 2,805,208 2,806,006 2,806,822 2,806,823 2,807,595 2,808,379 2,809,172 2,809,173 2,809,174 2,811,493 2,813,839 2,814,600 2,816,827 3: 2,776,266 3. 3: 2,798,056 4: 2,789,096 2,801,980 2,801,981 2,806,824 2,785,143 5: 2,791,567 2,809,175 2,809,372 2,816,286 7: 2,813,082 2,817,639 8: 2,782,171 2,788,336 2,794,787 2,803,607 2,811,494 2,813,083 9: 2,780,607 2,789,097 2,795,562 2,806,825 2,818,396 14: 2,781,326 15: 2,784,164 17: 2,777,825 2,787,602 2,794,788 2,809,945 17. 2: 2,781,327	260— 17. 2: 2,781,328 2,786,820 2,803,608 2,805,209 2,806,007 2,806,826 2,813,840 17. 3: 2,789,098 2,809,176 2,810,700 2,818,397 17. 4: 2,794,789 2,804,436 2,806,008 2,808,380 2,808,381 2,816,873 17. 5: 2,794,790 18: 2,794,007 2,803,609 2,809,177 2,811,495 19: 2,778,806 2,798,057 2,804,437 2,809,178 21: 2,776,267 2,791,568 2,794,008 2,816,865 2,816,874 22: 2,782,172 2,789,955 2,795,563 2,804,438 2,809,946 2,813,841 23: 2,776,268 2,777,826 2,779,743 2,786,039 2,794,791 23. 7: 2,796,269 2,780,609 24: 2,803,610 25: 2,802,797 2,806,009 27: 2,814,165 2,803,611 2,804,439 28: 2,783,214 2,804,440 2,806,827 28. 5: 2,779,744 2,779,745 2,791,569 2,791,570 2,802,798 2,803,612 2,807,596 2,808,382 2,809,948 2,817,640 29. 1: 2,800,463 2,801,982 2,814,601 29. 2: 2,784,166 2,789,956 2,798,858 2,803,613 2,813,085 29. 3: 2,785,144 2,787,603 29. 4: 2,785,145 2,803,614 2,804,441 2,808,383 2,810,701 29. 6: 2,780,608 2,782,173 2,782,174 2,786,040 2,786,821 2,787,604 2,789,099 2,793,195 2,795,564 2,803,615 2,806,010 2,808,384 2,809,949 2,809,950 2,810,702 2,816,082 29. 7: 2,776,295 2,791,571 2,799,062 2,802,799 2,805,210 2,807,597 30. 2: 2,811,496 30. 4: 2,782,175 2,787,605 2,802,800
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260— 30.4:	2,802,801 2,806,828 2,816,875	260— 43:	2,809,181 2,809,953 2,813,843 2,818,398	260— 45.9:	2,810,709 2,816,088 2,787,607 2,789,108 2,807,604 2,807,605 2,818,401 2,801,227 2,785,147 2,789,109 2,811,506 2,816,089 2,784,173 2,789,964 2,789,965 2,789,966 2,789,967 2,792,381 2,799,665 2,799,666 2,801,228 2,801,229 2,801,989 2,806,016 2,809,184 2,811,507 2,817,644 2,818,402 2,811,508 2,814,607 2,816,090 2,776,948 2,781,331 2,783,216 2,811,509 2,816,091 2,810,713 2,777,832 2,794,016 2,798,063 2,800,466 2,798,864 2,803,622 2,804,451 2,809,961 2,813,851 2,814,611 2,814,612 2,797,211 2,817,652 2,776,275 2,794,017 2,807,607 2,791,577 2,778,814 2,776,276 2,776,955 2,783,220 2,791,578 2,777,837 2,814,613 2,781,336 2,783,221 2,785,152 2,786,048 2,786,049 2,788,341 2,790,790 2,793,203 2,793,204 2,794,796 2,797,212 2,801,235 2,801,236 2,805,216 2,785,153 2,785,154 2,816,099 2,808,398 2,807,608 2,785,155 2,783,222 2,789,974 2,801,994 2,802,815 2,813,090 2,816,100 2,806,845 2,806,846 2,812,319 2,787,611 2,787,612 2,801,995 2,786,829 2,787,613 2,800,467 2,802,816 2,805,217 2,806,021 2,806,022 2,809,188 2,812,320 2,817,653 2,781,337 2,781,338	260— 78.3:	2,817,646 2,796,413 2,801,232 2,810,712 2,811,512 2,781,333 2,782,182 2,780,046 2,798,062 2,808,393 2,816,093 2,806,843 2,787,608 2,778,812 2,778,813 2,779,749 2,794,014 2,794,015 2,796,414 2,801,991 2,804,446 2,808,394 2,808,395 2,808,396 2,809,959 2,809,960 2,811,513 2,813,087 2,814,609 2,804,447 2,816,881 2,816,094 2,776,952 2,812,314 2,818,406 2,802,814 2,811,514 2,816,883 2,785,151 2,800,466 2,801,993 2,804,451 2,809,961 2,813,851 2,814,611 2,814,612 2,781,334 2,806,019 2,779,750 2,798,865 2,798,866 2,798,867 2,817,647 2,783,217 2,816,096 2,787,609 2,797,207 2,776,953 2,776,954 2,812,316 2,797,208 2,803,623 2,817,648 2,816,097 2,804,448 2,815,334 2,816,098 2,780,616 2,790,789 2,793,199 2,798,868 2,813,088 2,817,649 2,817,650 2,781,335 2,788,339 2,795,573 2,806,020 2,816,882 2,817,651 2,810,715 2,801,233 2,813,848 2,776,273 2,777,833 2,777,834 2,793,200 2,780,617 2,799,668 2,800,465 2,806,844 2,809,187 2,810,716 2,815,335 2,782,183 2,787,610 2,812,317 2,813,849 2,779,751 2,791,574 2,782,184 2,808,397 2,784,175 2,799,669	260— 91.3:	2,779,752 2,783,218 2,777,835 2,783,219 2,784,176 2,786,827 2,793,201 2,804,449 2,804,450 2,815,336 2,777,836 2,784,177 2,812,318 2,813,850 2,802,813 2,797,209 2,801,992 2,802,812 2,813,089 2,818,407 2,786,047 2,792,382 2,797,210 2,801,234 2,779,753 2,786,828 2,776,274 2,779,754 2,788,340 2,791,575 2,791,576 2,795,574 2,802,814 2,811,514 2,777,832 2,794,016 2,798,063 2,800,466 2,801,993 2,804,451 2,809,961 2,813,851 2,814,611 2,814,612 2,797,211 2,817,652 2,776,275 2,794,017 2,807,607 2,791,577 2,778,814 2,776,276 2,776,955 2,783,220 2,791,578 2,777,837 2,814,613 2,781,336 2,783,221 2,785,152 2,786,048 2,786,049 2,788,341 2,790,790 2,793,203 2,793,204 2,794,796 2,797,212 2,801,235 2,801,236 2,805,216 2,785,153 2,785,154 2,816,099 2,808,398 2,807,608 2,785,155 2,783,222 2,789,974 2,801,994 2,802,815 2,813,090 2,816,100 2,806,845 2,806,846 2,812,319 2,787,611 2,787,612 2,801,995 2,786,829 2,787,613 2,800,467 2,802,816 2,805,217 2,806,021 2,806,022 2,809,188 2,812,320 2,817,653 2,781,337 2,781,338	260— 141:	2,778,815 2,797,213 2,809,189 2,812,321 2,816,884 2,804,452 2,804,453 2,812,322 2,813,852 2,776,956 2,779,755 2,783,223 2,788,342 2,803,624 2,804,454 2,813,853 2,814,614 2,776,957 2,776,958 2,795,575 2,801,996 2,801,997 2,804,455 2,779,756 2,780,618 2,784,178 2,788,343 2,789,975 2,809,962 2,814,615 2,816,101 2,817,654 2,817,655 2,803,625 2,813,854 2,815,337 2,816,102 2,817,656 2,778,816 2,779,757 2,788,344 2,792,383 2,802,817 2,816,885 2,817,657 2,802,818 2,805,218 2,815,338 2,780,619 2,795,576 2,795,577 2,797,214 2,800,468 2,794,797 2,809,963 2,783,224 2,785,156 2,788,345 2,792,384 2,799,671 2,817,658 2,817,659 2,785,157 2,790,791 2,791,579 2,794,798 2,816,886 2,776,959 2,799,672 2,816,103 2,799,673 2,786,830 2,813,855 2,777,838 2,777,839 2,778,817 2,813,856 2,777,840 2,783,225 2,798,064 2,807,609 2,787,614 2,817,660 2,791,580 2,793,205 2,782,185 2,779,758 2,778,819 2,808,399 2,814,616 2,776,960 2,776,961 2,782,186 2,796,415 2,776,962 2,785,158 2,806,023 2,808,400 2,792,385 2,793,206 2,811,515 2,782,187 2,809,964
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260—207. 1:	2,782,188	260—236. 5:	2,794,800	260—243:	2,809,194	260—256. 4:	2,804,459	260—290:	2,818,411	260—297:	2,806,852
207. 5:	2,782,189		2,806,027		2,809,968		2,807,616	292:	2,781,346	297. 5:	2,788,348
209:	2,784,180	236. 6:	2,776,278		2,813,862		2,811,524		2,782,199	298:	2,805,225
	2,798,065	239:	2,782,191		2,814,622	256. 5:	2,782,397		2,782,200	299:	2,789,115
	2,807,610		2,784,182	244:	2,815,343		2,799,676		2,783,235		2,811,528
	2,809,965		2,786,834		2,776,281		2,811,525		2,783,236	302:	2,776,976
	2,811,516		2,790,797		2,778,825	256. 6:	2,801,245		2,798,874	304:	2,780,628
209. 6:	2,811,517		2,800,470		2,797,217		2,809,970		2,800,476		2,799,682
210:	2,782,190		2,802,001		2,806,031	257:	2,776,289		2,800,477	305:	2,790,172
	2,779,759		2,802,822		2,807,613		2,786,057		2,800,478	306:	2,776,977
	2,779,760		2,802,823		2,811,523		2,786,841		2,800,479		2,777,852
	2,784,181		2,802,824		2,817,663		2,802,827		2,800,480		2,777,853
	2,786,831		2,811,520	247:	2,776,972		2,808,408		2,800,481		2,809,973
	2,786,832		2,813,857		2,777,846	260:	2,802,005		2,800,482	306. 6:	2,776,297
	2,790,792	239. 1:	2,776,279		2,778,826	261:	2,778,831		2,800,483		2,782,202
	2,792,386		2,801,243		2,787,618	263:	2,796,418		2,804,460		2,786,061
	2,792,387		2,812,325		2,807,614	267:	2,813,868		2,814,623		2,807,620
	2,796,416		2,812,326	247. 1:	2,779,761	268:	2,776,974	293:	2,783,237		2,807,621
	2,800,469		2,814,621		2,792,394		2,777,849		2,803,631		2,809,202
	2,802,819	239. 3:	2,777,841		2,807,615		2,780,625		2,806,851	306. 7:	2,784,196
	2,803,650		2,785,159		2,815,344		2,792,398		2,814,624	306. 8:	2,776,978
	2,804,456		2,786,052	247. 2:	2,776,282		2,794,804		2,817,664		2,780,629
210. 5:	2,806,024		2,797,216		2,783,230		2,800,474	293. 2:	2,776,293		2,780,630
	2,776,963		2,806,028		2,789,979		2,807,617		2,790,804		2,780,631
	2,780,620		2,806,029		2,795,581		2,808,409		2,794,806		2,783,238
	2,790,793		2,806,847		2,799,675		2,809,195		2,802,007		2,783,239
	2,791,581		2,806,848		2,803,627		2,809,196		2,813,100		2,783,240
211:	2,786,050		2,813,858		2,810,718	270:	2,776,290	293. 4:	2,777,850		2,783,241
	2,789,976		2,817,661		2,810,719		2,813,869		2,794,021		2,783,242
	2,792,388	239. 5:	2,776,967	247. 5:	2,776,283		2,794,019		2,812,330		2,797,225
	2,792,389		2,781,342		2,794,803		2,798,069		2,813,873		2,799,683
	2,792,390		2,781,343		2,795,582		2,801,246	294:	2,778,835	307:	2,777,854
	2,795,579		2,782,192		2,798,869		2,809,197		2,792,399		2,780,632
	2,802,820		2,786,835		2,802,003		2,809,971		2,793,211		2,780,633
	2,802,821		2,793,207		2,802,004		2,809,972		2,793,212		2,782,203
	2,805,219		2,813,094		2,806,032		2,813,870		2,798,072		2,789,983
	2,808,401		2,813,859	247. 7:	2,779,762		2,818,409		2,799,679		2,794,022
	2,808,402	239. 55:	2,776,968		2,810,720	272:	2,791,587		2,801,247		2,806,853
	2,808,403		2,776,969		2,810,721		2,815,347		2,809,200		2,808,412
	2,809,190		2,777,842		2,812,327	274:	2,805,224		2,812,331		2,811,529
	2,812,323		2,777,843	248:	2,777,847	276:	2,803,630		2,816,894		2,814,626
	2,813,091		2,780,621		2,790,801	281:	2,794,805	294. 3:	2,785,168	307. 5:	2,807,622
	2,813,092		2,782,193		2,798,870	284:	2,798,873		2,798,073	308:	2,777,855
	2,815,339		2,783,226		2,801,244	285:	2,778,832		2,813,874		2,784,197
211. 3:	2,797,215		2,786,053		2,805,222		2,797,221		2,816,895		2,800,486
	2,807,611		2,786,837	248. 5:	2,798,871		2,797,222	294. 7:	2,784,191		2,806,035
	2,815,341		2,790,799	249:	2,813,863		2,797,223		2,784,192		2,817,665
211. 5:	2,781,339		2,791,585	249. 5:	2,780,622		2,802,828		2,784,193	309:	2,807,623
	2,781,340		2,793,208	249. 6:	2,778,827		2,806,033		2,789,110	309. 2:	2,782,204
	2,786,051		2,794,801		2,783,231		2,813,096		2,799,680		2,796,422
	2,788,346		2,802,825		2,784,187		2,813,097		2,800,484	309. 5:	2,777,856
	2,795,580		2,805,221		2,804,458		2,813,098		2,809,201		2,779,764
	2,808,404		2,806,030	249. 7:	2,776,284	285. 5:	2,796,419	294. 8:	2,811,526		2,786,848
	2,815,342		2,806,849		2,776,285		2,810,723		2,784,194		2,786,849
212:	2,811,518		2,808,406		2,776,286	286:	Re.24,265		2,786,847		2,786,850
216:	2,801,998		2,809,967		2,778,828		2,778,833		2,789,114		2,798,875
218:	2,787,615		2,811,521		2,779,763		2,788,347		2,798,074	309. 6:	2,778,836
220:	2,776,964		2,811,522		2,816,891		2,789,111		2,810,724		2,781,349
	2,776,965		2,813,095	249. 8:	2,780,623		2,789,112		2,811,527		2,781,350
	2,776,966		2,813,860	249. 9:	2,777,848		2,789,113	294. 9:	2,812,332		2,781,351
225:	2,794,799	239. 65:	2,776,970		2,792,395		2,791,582		2,789,980		2,781,352
227:	2,790,794	239. 7:	2,790,798		2,803,628		2,791,588		2,790,805		2,781,353
	2,801,237	239. 75:	2,778,821	250:	2,778,829		2,796,420		2,790,806		2,781,354
	2,801,999		2,792,391		2,780,624		2,800,475	295:	2,776,294		2,781,355
	2,804,457		2,809,966		2,782,195		2,802,006		2,781,347		2,781,356
	2,807,612	239. 9:	2,777,844		2,783,232		2,806,034		2,792,400		2,781,357
	2,814,617	239. 95:	2,777,845		2,785,161		2,806,550		2,792,401		2,781,358
	2,816,104	240:	2,784,183		2,786,839		2,808,410		2,798,213		2,782,205
	2,816,105		2,784,184		2,786,840		2,809,198		2,798,075		2,783,243
229:	2,778,820		2,794,802		2,792,396		2,809,199		2,798,076		2,785,174
	2,790,795		2,798,067		2,797,218		2,813,871		2,802,008		2,792,404
	2,801,238		2,798,068		2,797,219		2,813,872		2,808,411		2,794,808
230:	2,790,796		2,802,002		2,805,223		2,816,893		2,810,725		2,806,854
	2,801,239		2,808,407		2,813,866		2,778,834		2,813,101		2,808,413
	2,801,240	240. 1:	Re.24,292		2,813,867	287:	2,784,189	295. 5:	2,789,981		2,813,102
	2,809,191	240. 4:	2,778,822		2,816,892		2,785,164		2,816,112		2,815,349
	2,809,192	240. 6:	2,776,280	251:	2,782,196		2,786,843	296:	2,781,348	309. 7:	2,776,979
	2,809,193		2,778,823		2,782,197		2,786,844		2,784,195		2,777,857
	2,810,717		2,786,054		2,782,198	288:	2,781,345		2,785,170		2,785,175
	2,816,106	240. 7:	2,798,066		2,786,055		2,785,165		2,785,171		2,785,176
	2,816,107	241:	2,817,662		2,812,328		2,785,166		2,785,172		2,787,619
	2,816,888	242:	2,782,194	251. 5:	2,786,056		2,785,167		2,785,173		2,802,011
231:	2,806,025		2,790,800		2,790,802		2,786,845		2,786,059		2,806,036
	2,811,519		2,792,392		2,791,586		2,793,210		2,786,060		2,812,333
	2,816,889		2,792,393		2,816,109		2,794,020		2,792,402		2,790,807
232:	2,781,341		2,799,674		2,816,110		2,818,410		2,792,403		2,790,808
	2,791,584		2,800,471	252:	2,800,473	289:	2,783,234		2,797,224		2,802,012
	2,814,618		2,803,626	253:	2,776,973		2,798,071		2,798,077		2,817,666
	2,814,619		2,813,861		2,798,872	290:	2,776,291		2,801,248		2,802,013
	2,814,620		2,813,865	254:	2,797,220		2,776,292		2,807,619	312:	2,802,829
233. 3:	2,801,241	243:	2,776,971		2,815,346		2,776,975		2,810,726		2,817,667
	2,802,000		2,778,824	256:	2,776,287		2,780,626		2,814,625	313:	2,777,858
	2,805,220		2,783,227		2,776,288		2,780,627		2,816,113		2,779,765
	2,806,026		2,783,228	256. 4:	2,778,830		2,786,058	297:	2,776,296		2,779,766
	2,806,857		2,783,229		2,781,344		2,786,846		2,777,851		2,782,206
	2,813,093		2,784,185		2,784,188		2,790,803		2,782,201	314. 5:	2,786,062
233. 5:	2,786,833		2,784,186		2,785,162		2,796,421		2,789,982		2,791,589
	2,801,242		2,785,160		2,785,163		2,799,677		2,794,807		2,793,214
234:	2,808,405		2,786,838		2,794,018		2,799,678		2,799,681		2,795,583
	2,812,324		2,787,617		2,796,417		2,807,618		2,800,485		2,795,584
236:	2,787,616		2,789,978		2,802,826		2,812,329		2,802,009		2,795,585
	2,789,977		2,800,472		2,803,629		2,813,099				

260—314. 5:	2,795,587	260—343. 2:	2,801,251	260— 377:	2,776,983	260—397. 45:	2,816,121	260— 413:	2,789,993	260— 449:	2,787,628
	2,795,588		2,804,465		2,794,031		2,816,902		2,793,221		2,791,583
	2,816,114		2,806,038		2,794,032		2,818,414		2,802,845	449. 6:	2,815,357
315:	2,816,115		2,806,858	380:	2,777,863	397. 47:	2,786,856		2,802,846		2,778,844
316:	2,794,023		2,810,730		2,798,081		2,786,857		2,803,635		2,778,845
	2,773,837		2,811,534	391:	2,816,900		2,789,989		2,806,869		2,779,777
	2,784,198		2,816,899	396:	2,781,363		2,791,593		2,812,343		2,786,070
	2,790,809	343. 3:	2,778,835		2,782,210		2,799,691	414:	2,802,847		2,786,863
	2,804,461		2,785,184		2,783,251	397. 5:	2,779,773	415:	2,776,305		2,794,039
	2,813,875		2,802,830		2,785,188		2,806,042		2,801,257		2,805,239
318:	2,783,244		2,802,831	397. 1:	2,776,302		2,812,336	418:	2,802,848		2,810,739
319:	2,778,819		2,802,832		2,781,364		2,813,881	419:	2,811,596		2,818,418
	2,782,207		2,802,833		2,790,814	397. 6:	2,784,204		2,800,493	450:	2,779,778
	2,784,199		2,802,834		2,799,688	398. 5:	2,783,256		2,810,735		2,795,596
	2,785,178		2,802,835		2,800,489		2,797,231	423:	2,783,259		2,798,085
	2,789,984		2,802,836	397. 2:	2,776,303		2,800,491		2,795,595		2,810,740
	2,792,405		2,802,837		2,776,304		2,801,254	424:	2,782,216		2,816,905
	2,797,226		2,810,731		2,778,840		2,808,417		2,783,260		2,816,906
	2,799,684		2,811,535		2,794,033		2,808,417		2,787,625	451:	2,776,308
	2,800,487		2,811,536		2,798,082		2,813,112		2,792,411		2,776,309
	2,804,462		2,814,627		2,807,632	399:	2,788,355	425:	2,803,636		2,808,422
	2,807,624		2,817,668		2,813,879		2,789,990	426:	2,786,858		2,808,423
	2,810,727	343. 5:	2,791,590		2,816,119		2,809,978		2,789,120		2,809,981
	2,811,530		2,817,669		2,817,670	400:	2,789,991	428. 5:	2,786,859		2,813,114
	2,813,876	343. 6:	2,783,247	397. 25:	2,794,035		2,804,466		2,802,849		2,813,888
326:	2,781,359		2,786,852	397. 3:	2,782,211		2,806,044	429:	2,784,206		2,813,889
	2,781,360		2,789,987		2,791,591	401:	2,781,370		2,792,412		2,818,419
	2,783,245		2,802,013		2,794,814		2,781,371		2,796,424	452:	2,779,779
	2,794,809		2,809,203		2,794,815		2,781,372		2,805,233		2,789,123
	2,795,589	345. 2:	2,792,407		2,799,689		2,781,373		2,806,870		2,791,598
	2,801,249		2,806,039		2,806,041		2,781,374		2,818,416		2,794,040
	2,801,250		2,816,118		2,814,629		2,781,375		2,818,417		2,801,259
	2,813,877	345. 7:	2,798,079		2,817,671		2,781,376	429. 1:	2,778,843		2,801,260
326. 3:	2,816,897		2,798,080	397. 4:	2,781,365		2,781,377		2,798,084		2,803,639
	2,785,179	345. 8:	2,776,300		2,783,252		2,781,378		2,816,122	453:	2,815,358
	2,785,180		2,786,853		2,783,253		2,781,379	429. 7:	2,789,994		2,786,864
	2,785,181		2,787,620		2,785,189		2,781,380		2,801,258		2,786,865
	2,785,182	345. 9:	2,800,488		2,786,855		2,781,381		2,805,234		2,786,866
	2,785,183	346. 1:	2,776,981		2,787,623		2,781,382	429. 9:	2,786,069		2,799,694
	2,788,349		2,790,813		2,788,352		2,781,383		2,788,356	454:	2,785,190
	2,794,024		2,795,591		2,791,592	403:	2,781,384		2,809,979		2,786,867
	2,794,025		2,795,591		2,793,216		2,791,594	431:	2,790,816		2,790,425
	2,794,810	346. 2:	2,783,248		2,794,034		2,801,255		2,790,817		2,801,261
	2,797,227		2,795,592		2,798,879	404:	2,799,692	433:	2,794,038	455:	2,785,191
	2,797,228	346. 3:	2,782,208		2,799,690		2,812,337	437:	2,777,866		2,786,866
	2,804,463		2,794,811		2,802,839		2,812,338		2,777,867		2,792,413
	2,805,227	346. 4:	2,783,249		2,805,230		2,816,903		2,816,123		2,792,414
	2,806,855		2,815,352		2,805,231		2,817,672	438:	2,783,261		2,813,890
	2,807,625	346. 6:	2,779,769		2,806,862		2,818,415		2,794,817	456:	2,782,217
	2,807,626		2,809,975		2,812,335	404. 5:	2,781,385		2,794,818		2,799,695
	2,809,974		2,818,412		2,813,105		2,791,595		2,798,880		2,815,359
326. 5:	2,812,334	346. 7:	2,789,988		2,813,880		2,812,339		2,809,980		2,816,125
	2,813,103		2,809,204	397. 45:	2,777,864	404. 8:	2,802,016	439:	2,791,597	458:	2,781,388
	2,784,200	346. 8:	2,777,860		2,778,841		2,808,418		2,804,468		2,781,389
	2,793,215		2,806,860		2,778,842		2,815,354		2,810,736	459:	2,781,390
	2,798,876		2,806,861		2,779,774	405:	2,812,340		2,810,737		2,781,391
	2,806,037	347. 2:	2,787,621		2,779,775	405. 6:	2,804,467		2,812,344		2,781,392
	2,806,856		2,788,351		2,781,366		2,808,419		2,816,904		2,816,126
327:	2,776,298	347. 3:	2,803,633		2,781,367	406:	2,806,045		2,817,674	461:	2,787,675
	2,790,810		2,808,414		2,781,368		2,809,205	448:	2,786,860		2,784,207
	2,790,811	347. 4:	2,792,408		2,781,369		2,811,538		2,787,626		2,784,208
	2,792,406		2,802,838		2,781,369		2,813,113		2,794,819		2,784,209
	2,794,026		2,806,040		2,782,212		2,813,885	448. 2:	2,776,306		2,787,629
	2,798,877		2,809,976		2,782,213		2,815,355		2,777,868		2,788,358
	2,799,685	347. 8:	2,801,252		2,783,254	407:	2,792,410		2,777,869		2,788,359
	2,805,228	347. 9:	2,779,770		2,783,255		2,793,219		2,779,776		2,789,124
	2,807,627		2,784,203		2,787,624		2,802,842		2,783,262		2,791,599
	2,811,531		2,818,413		2,788,353		2,790,815		2,783,263		2,793,224
	2,815,350	348:	2,779,771		2,788,354		2,806,861		2,786,861		2,793,225
	2,816,116		2,783,250		2,789,117		2,806,866		2,787,627		2,794,041
328:	2,776,299		2,786,066		2,789,118		2,806,867		2,788,357		2,794,821
329. 3:	2,789,116		2,786,067		2,793,217		2,808,420		2,789,121		2,795,598
	2,795,590		2,786,068		2,793,218		2,812,341		2,789,122		2,798,086
330. 5:	2,786,851		2,794,028		2,794,036	409:	2,812,342		2,793,222		2,799,696
331:	2,804,464		2,794,029		2,794,816		2,814,633		2,793,223		2,802,854
332. 1:	2,810,728		2,794,030		2,795,594		2,817,673		2,800,494		2,802,855
332. 2:	2,801,908		2,794,812		2,797,229	410. 5:	2,794,037		2,800,495		2,802,856
332. 3:	2,799,686		2,798,878		2,797,230	410. 6:	2,798,083		2,802,843		2,805,240
332. 5:	2,776,980		2,776,301		2,800,490		2,802,843		2,802,850		2,805,241
333:	2,794,027	348. 5:	2,777,862		2,802,014		2,806,046		2,802,851		2,806,049
	2,807,628		2,780,634		2,802,015		2,789,119		2,802,852		2,806,050
335:	2,783,246		2,780,635		2,802,840	410. 7:	2,808,421		2,802,853		2,807,636
338:	2,788,350		2,784,202		2,802,841	410. 8:	2,781,386		2,803,637		2,807,637
340:	2,779,767		2,785,185		2,805,232	410. 9:	2,781,387		2,803,638		2,809,982
340. 2:	2,784,201		2,785,186		2,806,043		2,783,257		2,805,235		2,810,741
	2,807,629		2,786,854		2,806,863		2,789,992		2,805,236		2,811,543
	2,811,532		2,786,854		2,806,864		2,796,423		2,805,237		2,814,636
	2,811,533		2,799,687		2,808,415		2,801,256		2,805,238		2,815,360
	2,813,104		2,801,253		2,809,977		2,806,047		2,807,635		2,815,361
	2,816,287		2,805,229		2,810,734		2,807,633		2,809,207		2,816,128
340. 3:	2,789,985		2,810,732		2,811,537		2,809,206		2,811,540		2,818,420
340. 5:	2,786,063	348. 6:	2,776,982		2,813,106	412:	2,803,634		2,811,541	462:	2,785,192
340. 6:	2,790,812	351:	2,782,209		2,813,107	412. 2:	2,800,492		2,813,886		2,802,018
340. 7:	2,798,078	355:	2,781,362		2,813,108	412. 3:	2,784,205		2,813,887		2,808,424
	2,816,898		2,785,187		2,813,109	412. 4:	2,811,539		2,816,124		2,813,115
340. 9:	2,786,064		2,787,622		2,813,882	412. 5:	2,802,844	448. 8:	2,776,307		2,778,846
	2,803,632		2,788,339		2,813,883		2,806,868		2,777,870	463:	2,787,630
	2,810,729		2,789,989		2,813,884		2,807,634		2,810,738		2,787,631
	2,815,351	360:	2,787,622		2,814,630		2,815,356		2,811,542		2,791,601
	2,816,117	368:	2,778,839		2,814,631	412. 6:	2,777,865		2,814,634		2,791,602
343. 2:	2,777,859	369:	2,779,772		2,814,632		2,782,215		2,814,635		2,791,603
	2,779,76										

260—	464:	2,781,393	260—	468:	2,803,644	260—	487:	2,776,988	260—	514:	2,786,074	260—	534:	2,810,753	260—	564:	2,783,276
		2,781,394			2,805,245			2,776,989			2,789,134			2,810,754			2,815,377
		2,784,210			2,807,638			2,802,023			2,789,999			2,811,548		566:	2,791,611
		2,784,211			2,812,346			2,802,862			2,796,431			2,811,550			2,800,508
		2,790,818			2,812,347			2,813,893			2,802,867			2,814,643			2,805,253
		2,802,019			2,816,132			2,817,678			2,802,868			2,816,920			2,813,903
		2,804,469		468. 5:	2,788,363		488:	2,787,636			2,806,057			2,817,682			2,816,142
		2,805,242			2,803,645			2,789,998			2,806,058			2,817,683			2,818,432
		2,808,425		469:	2,788,364			2,790,824			2,808,431		535:	2,802,871		567:	2,777,878
		2,815,362			2,788,365			2,797,234			2,810,748			2,808,436			2,784,227
		2,816,907			2,792,416			2,797,235			2,810,749			2,813,901		567. 5:	2,806,063
465:		2,776,310			2,794,825			2,797,236			2,815,872			2,816,921		567. 6:	2,785,201
		2,779,780		471:	2,789,128			2,797,237			2,818,430		537:	2,776,990			2,813,904
		2,780,637			2,789,129			2,799,699		514. 5:	2,795,604			2,784,224		569:	2,794,046
		2,783,264			2,791,604			2,802,024			2,803,653			2,789,136			2,794,047
		2,783,265			2,797,232			2,805,248			2,794,830		515:	2,790,002		570:	2,782,234
		2,783,266			2,798,087			2,806,874			2,802,869			2,790,827			2,785,202
		2,784,212			2,802,022			2,808,429			2,808,432			2,791,607			2,812,351
		2,784,213			2,806,051			2,813,894			2,809,210			2,795,607		570. 5:	2,818,433
		2,788,360			2,808,427			2,814,639			2,813,899			2,798,093			2,781,398
		2,788,361		472:	2,780,641			2,816,912			2,814,642			2,800,507			2,786,871
		2,789,125			2,800,498		489:	2,794,826			2,816,913			2,804,475			2,816,929
		2,789,995		473:	2,780,642			2,796,428			2,816,914			2,809,991		570. 6:	2,776,312
		2,793,226			2,796,427			2,803,647			2,817,680			2,810,755			2,784,228
		2,790,819			2,797,233		490:	2,806,054		516:	2,816,915			2,811,551			2,784,229
		2,794,042			2,800,499			2,812,349		517:	2,806,059			2,813,122		570. 7:	2,796,435
		2,794,822			2,816,133		491:	2,789,131		518:	2,782,231			2,815,375		570. 8:	2,797,242
		2,795,599			2,817,676			2,798,088			2,802,870			2,816,922			2,797,243
		2,798,581			2,818,424			2,802,863			2,805,250			2,816,923			2,798,888
		2,800,496			2,818,425			2,802,863			2,808,433		539:	2,773,851		570. 9:	2,783,277
		2,803,640		473. 6:	2,787,635		495:	2,818,428			2,816,137			2,790,828			2,784,230
		2,809,983		475:	2,776,984		498:	2,794,827			2,784,222			2,795,608			2,784,231
		2,809,984			2,776,985		500:	2,783,272		519:	2,790,825			2,802,028			2,789,138
		2,809,985			2,778,849			2,785,195			2,795,605			2,809,214			2,790,830
		2,811,544			2,779,782			2,785,196			2,803,654			2,809,992			2,794,048
		2,812,345			2,780,643			2,785,197		520:	2,779,785			2,809,993			2,795,613
		2,813,116			2,781,396			2,789,132			2,792,418		541:	2,801,265			2,798,094
		2,815,363			2,782,221			2,791,605			2,807,643			2,811,552		571:	2,777,879
		2,816,908			2,782,222			2,797,238			2,808,434			2,814,644		574:	2,776,313
		2,818,422			2,782,223			2,799,700		521:	2,782,232			2,779,787			2,809,984
465. 1:		2,785,193			2,782,224			2,799,701			2,790,826			2,783,275		576:	2,776,994
		2,786,867			2,782,225			2,800,501			2,793,230			2,794,833			2,782,235
		2,795,600			2,792,417			2,803,648			2,796,432			2,795,609			2,783,278
		2,805,243			2,802,858			2,803,649			2,805,251			2,814,645			2,813,124
465. 2:		2,788,362			2,802,859			2,804,472			2,811,547		544:	2,778,852		577:	2,779,789
		2,794,043			2,802,860			2,816,136			2,787,681			2,787,641			2,814,646
		2,799,697			2,802,861		501:	2,818,429			2,786,076			2,791,608			2,790,831
		2,802,857			2,805,246			2,805,246			2,788,366			2,805,252		578:	2,791,612
		2,808,426			2,806,052			2,794,045			2,792,419			2,806,061			2,791,613
		2,809,986			2,808,428			2,795,603			2,806,877			2,816,140		580:	2,791,613
465. 3:		2,778,847			2,809,208			2,796,429			2,810,750			2,816,141			2,795,614
		2,780,638			2,813,891			2,800,502		524:	2,788,367			2,782,233			2,797,244
		2,780,639			2,815,364			2,802,864			2,809,211		545:	2,810,756			2,811,555
		2,780,640			2,816,134			2,802,865			2,813,119			2,810,757		583:	2,776,314
		2,784,214		476:	2,817,677			2,803,651			2,815,373			2,789,137			2,776,315
		2,789,126		478:	2,816,909			2,812,350			2,785,198		551:	2,776,311			2,781,399
		2,796,426		479:	2,776,986			2,813,118		525:	2,785,199			2,786,075			2,782,236
		2,798,882			2,799,698			2,813,895			2,792,420			2,797,240			2,784,232
		2,798,883			2,801,262			2,814,640			2,794,831			2,806,879			2,786,078
		2,798,884			2,807,639		502:	2,802,025			2,794,832			2,806,880			2,788,371
		2,802,020			2,815,365			2,804,473			2,811,548		552:	2,795,610			2,795,615
		2,803,641			2,815,366			2,813,896			2,813,120			2,803,655			2,799,705
		2,803,642			2,815,367			2,814,641			2,799,703			2,806,062			2,800,509
		2,805,244		481:	2,776,987			2,777,874		526:	2,806,878			2,817,684			2,802,030
		2,809,987			2,818,426		504:	2,783,273			2,788,368		554:	2,798,886			2,802,031
465. 4:		2,784,215		482:	2,777,872			2,786,868		527:	2,789,135		555:	2,777,877			2,808,438
		2,790,820			2,777,873			2,794,828			2,796,433			2,811,553			2,808,439
		2,804,470			2,790,823			2,800,503			2,796,434			2,815,376			2,809,995
		2,804,471			2,798,885			2,802,026			2,799,704		556:	2,779,788			2,811,556
		2,806,872			2,806,053			2,807,640			2,801,264			2,794,834		584:	2,784,233
		2,810,742			2,810,743			2,808,430			2,809,212			2,803,656			2,790,003
465. 5:		2,783,267			2,812,348			2,809,209			2,815,374			2,813,902			2,811,557
		2,787,633			2,814,637			2,810,745			2,809,989		558:	2,785,200			2,818,434
		2,794,044			2,816,910			2,813,897		528:	2,813,121		559:	2,776,991		585:	2,782,237
		2,802,021			2,816,911			2,815,370			2,813,900			2,784,225			2,805,254
		2,816,129		483:	2,789,130			2,817,679			2,788,369			2,786,077		585. 5:	2,802,872
		2,818,423		484:	2,782,226		505:	2,779,784		529:	2,810,751			2,791,609			2,806,064
465. 6:		2,789,996			2,786,073			2,782,230			2,777,876			2,802,029			2,816,143
		2,809,988			2,793,228			2,787,637		531:	2,791,606			2,803,657		586:	2,779,790
		2,816,130			2,803,646			2,794,829			2,800,504		560:	2,804,476			2,779,791
465. 7:		2,782,218			2,813,892			2,798,089		533:	2,800,505		561:	2,798,887			2,780,648
		2,800,497			2,815,368			2,802,027			2,800,506			2,806,881			2,781,401
		2,816,131		485:	Re.24,287			2,802,866			2,816,916			2,807,644			2,784,234
465. 8:		2,779,781			2,778,850			2,805,249			2,816,917			2,808,437			2,785,203
		2,782,219			2,779,783			2,806,055			2,816,918			2,807,645			2,790,004
		2,783,268			2,780,644			2,806,875		509:	2,779,786			2,813,123			2,789,139
		2,786,072			2,782,227			2,807,641			2,780,645		562:	2,776,992			2,790,005
		2,790,821			2,782,228			2,807,642			2,						

260— 587: 2, 803, 659 2, 815, 378 2, 815, 379 2, 815, 380 2, 818, 435	260— 609: 2, 781, 403 2, 786, 079 2, 786, 872 2, 792, 422 2, 796, 438 2, 797, 246 2, 802, 877 2, 805, 257 2, 806, 884 2, 807, 649 2, 808, 441 2, 810, 765 2, 813, 126 2, 816, 145 2, 816, 146 2, 817, 685 2, 776, 319 2, 776, 320 2, 776, 999 2, 797, 245 2, 802, 033 2, 816, 930	260— 618: 2, 794, 055 2, 796, 443 2, 798, 098 2, 798, 099 2, 798, 100 2, 804, 479 2, 809, 998 2, 812, 362 2, 812, 363 2, 779, 800 2, 782, 241 2, 783, 279 2, 790, 009 2, 791, 616 2, 792, 428 2, 792, 429 2, 796, 444 2, 796, 445 2, 797, 248 2, 802, 881 2, 804, 480 2, 804, 481 2, 806, 068 2, 807, 653 2, 811, 564 2, 812, 364 2, 812, 365 2, 813, 909 2, 809, 999 2, 776, 322 2, 777, 881 2, 782, 242 2, 784, 238 2, 785, 205 2, 786, 873 2, 789, 142 2, 792, 430 2, 797, 249 2, 802, 882 2, 803, 669 2, 796, 446 2, 802, 883 2, 810, 767 2, 811, 565 2, 777, 002 2, 778, 857 2, 784, 239 2, 799, 713 2, 799, 714 2, 803, 670 2, 805, 263 2, 811, 566 2, 812, 366 2, 812, 367 2, 789, 143 2, 800, 514 2, 800, 515 2, 802, 884 2, 790, 010 2, 785, 206 2, 786, 082 2, 789, 144 2, 789, 145 2, 789, 146 2, 790, 834 2, 814, 648 2, 814, 649 2, 781, 406 2, 795, 623 2, 797, 250 2, 802, 885 2, 802, 886 2, 803, 676 2, 798, 101 2, 792, 431 2, 803, 671 2, 806, 887 2, 818, 441 2, 806, 888 2, 783, 280 2, 783, 281 2, 783, 282 2, 776, 323 2, 778, 858 2, 785, 207 2, 780, 654 2, 783, 283 2, 786, 083 2, 790, 836 2, 790, 837 2, 796, 447 2, 800, 516 2, 810, 768 2, 813, 130 2, 813, 910 2, 818, 442 2, 818, 443 2, 780, 655 2, 782, 918 2, 788, 373 2, 789, 147 2, 790, 011 2, 793, 235 2, 803, 672 2, 806, 069 2, 806, 889	260— 637: 2, 806, 890 2, 806, 891 2, 806, 892 2, 778, 859 2, 779, 801 2, 779, 802 2, 782, 243 2, 793, 236 2, 804, 482 2, 808, 443 2, 809, 220 2, 811, 567 2, 813, 911 2, 813, 912 2, 815, 390 2, 816, 933 2, 776, 324 2, 779, 803 2, 792, 432 2, 792, 433 2, 818, 444 2, 807, 655 2, 815, 391 2, 813, 913 2, 780, 656 2, 780, 657 2, 791, 617 2, 795, 620 2, 795, 621 2, 810, 000 Re.24,397 2, 776, 325 2, 784, 240 2, 787, 645 2, 790, 012 2, 795, 622 2, 801, 269 2, 803, 673 2, 812, 368 2, 812, 369 2, 813, 914 2, 813, 915 2, 818, 445 2, 783, 284 2, 786, 084 2, 788, 374 2, 793, 237 2, 812, 370 2, 777, 003 2, 777, 882 2, 778, 860 2, 792, 434 2, 802, 037 2, 805, 264 2, 806, 070 2, 816, 934 2, 778, 861 2, 790, 786 2, 803, 674 2, 803, 675 2, 804, 483 2, 805, 265 2, 813, 131 2, 813, 132 2, 813, 133 2, 814, 648 2, 814, 649 2, 781, 406 2, 795, 623 2, 797, 250 2, 802, 885 2, 802, 886 2, 803, 676 2, 798, 101 2, 777, 004 2, 786, 874 2, 787, 646 2, 788, 375 2, 802, 887 2, 804, 484 2, 777, 883 2, 780, 658 2, 783, 285 2, 785, 207 2, 788, 376 2, 799, 716 2, 808, 444 2, 809, 221 2, 779, 804 2, 803, 677 2, 803, 678 2, 803, 679 2, 803, 680 2, 816, 148 2, 783, 286 2, 792, 435 2, 807, 656 2, 779, 805 2, 786, 875 2, 790, 013 2, 818, 447 2, 818, 448 2, 777, 884 2, 777, 885 2, 777, 886	260— 665: 2, 777, 887 2, 788, 377 2, 795, 624 2, 795, 625 2, 795, 626 2, 795, 627 2, 795, 628 2, 816, 935 2, 816, 936 2, 816, 937 2, 785, 208 2, 787, 647 2, 793, 238 2, 794, 839 2, 794, 840 2, 801, 270 2, 804, 485 2, 805, 266 2, 806, 893 2, 809, 222 2, 810, 001 2, 812, 371 2, 813, 134 2, 813, 135 2, 813, 136 2, 813, 916 2, 816, 938 2, 818, 449 2, 818, 450 2, 790, 014 2, 777, 005 2, 780, 659 2, 781, 407 2, 784, 241 2, 784, 242 2, 785, 209 2, 790, 015 2, 794, 841 2, 795, 629 2, 795, 630 2, 802, 038 2, 803, 681 2, 814, 650 2, 814, 651 2, 816, 939 2, 817, 687 2, 818, 451 2, 791, 618 2, 795, 631 2, 806, 894 2, 813, 137 2, 777, 007 2, 778, 862 2, 780, 660 2, 787, 648 2, 793, 239 2, 795, 632 2, 803, 682 2, 803, 683 2, 810, 769 2, 810, 770 2, 813, 917 2, 814, 652 2, 817, 688 2, 818, 452 2, 776, 326 2, 780, 661 2, 786, 876 2, 795, 633 2, 805, 267 2, 779, 806 2, 781, 408 2, 798, 889 2, 798, 890 2, 803, 684 2, 813, 138 2, 785, 210 2, 776, 327 2, 776, 328 2, 777, 888 2, 777, 889 2, 778, 863 2, 778, 864 2, 779, 807 2, 780, 662 2, 780, 663 2, 785, 211 2, 786, 085 2, 790, 016 2, 790, 017 2, 790, 018 2, 793, 240 2, 795, 634 2, 795, 635 2, 798, 102 2, 798, 103 2, 798, 104 2, 798, 891 2, 801, 271 2, 801, 272 2, 802, 888 2, 803, 685 2, 803, 686 2, 803, 687 2, 804, 486	260— 674: 2, 806, 071 2, 810, 002 2, 810, 003 2, 810, 771 2, 810, 772 2, 810, 773 2, 812, 372 2, 813, 918 2, 815, 392 2, 816, 940 2, 818, 453 2, 783, 287 2, 792, 436 2, 799, 717 2, 779, 808 2, 818, 454 2, 818, 455 2, 776, 329 2, 802, 889 2, 813, 139 2, 814, 653 2, 817, 689 2, 796, 448 2, 785, 149 Re.24,326 2, 785, 212 2, 785, 213 2, 789, 148 2, 789, 149 2, 790, 838 2, 792, 437 2, 805, 268 2, 812, 374 2, 813, 919 2, 816, 941 2, 816, 942 2, 817, 690 2, 777, 890 2, 804, 487 2, 816, 943 2, 800, 517 2, 818, 456 2, 788, 378 2, 793, 241 2, 786, 877 2, 804, 488 2, 813, 140 2, 813, 920 2, 780, 664 2, 780, 665 2, 781, 410 2, 786, 878 2, 794, 842 2, 801, 273 2, 802, 890 2, 806, 072 2, 810, 774 2, 814, 655 2, 816, 944 2, 818, 460 2, 804, 489 2, 800, 518 2, 813, 141 2, 817, 691 2, 781, 409 2, 799, 718 2, 804, 490 2, 804, 491 2, 814, 654 2, 815, 393 2, 816, 150 2, 817, 692 2, 818, 458 2, 818, 459 2, 782, 244 2, 786, 086 2, 798, 105 2, 805, 269 2, 817, 693 2, 810, 004 2, 794, 057 2, 776, 330 2, 796, 449 2, 801, 274 2, 780, 688 2, 806, 073 2, 814, 656 2, 777, 008 2, 786, 879 2, 790, 839 2, 802, 891 2, 798, 106 2, 808, 445 2, 817, 694 2, 779, 809 2, 812, 373 2, 816, 945 2, 802, 892 2, 802, 893 2, 802, 039 2, 802, 040 2, 787, 451 2, 805, 844 2, 788, 954
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261—	8: 2,785,879	261—	111: 2,780,447	262—	26: 2,796,247	263—	47: 2,803,447	266—	15: 2,781,189	267—	37: 2,796,254
10: 2,777,677		112: 2,793,017			2,796,248		2,807,454		2,814,477	45: 2,791,419	
14: Re.24,274		113: 2,779,577			2,800,316		2,815,197		18: 2,782,023	46: 2,815,945	
2,778,616		114: 2,776,822			2,801,094		2,779,581		19: 2,797,081	47: 2,814,481	
17: 2,812,929		2,778,621			2,801,838		2,793,021		21: 2,789,809	49: 2,801,100	
18: 2,793,014		2,784,953			2,810,566		2,801,839		2,800,319	56: 2,785,888	
2,800,313		2,785,882			2,788,203	28: 2,788,203	2,784,957		23: 2,777,685	57: 2,786,670	
19: 2,778,617		2,787,453			2,795,408		2,791,418		2,778,625	2,789,812	
2,778,618		2,789,803			2,811,342		2,798,716		2,782,024	2,794,632	
21: 2,776,820		2,797,907			2,777,102	29: 2,776,824	2,787,458		2,801,098	2,801,842	
2,792,202		2,804,292			2,798,711		2,793,022		2,805,057	2,811,347	
22: 2,783,031		2,807,451			2,798,712		2,797,910		2,808,255	58: 2,782,027	
23: 2,782,015		2,809,821			2,798,713		2,813,708		2,809,824	63: 2,800,321	
2,783,032		2,810,562			2,798,714		2,815,198		2,812,174	2,812,175	
2,783,981		2,810,563			2,801,095		2,776,827		2,813,710	2,813,712	
2,790,630		2,787,454			2,806,683		2,776,132		2,815,199	2,817,510	
2,790,631		2,808,246			2,807,452		2,776,829		2,784,960	64: 2,793,031	
2,793,843		2,815,943			2,818,243		2,778,623		2,788,964	2,802,664	
2,797,904		2,778,622	262—	1: 2,780,448	33: 2,785,883		2,778,624		2,792,213	2,805,853	
2,798,703		2,780,448			2,786,663		2,780,455		2,802,661	2,805,854	
2,801,834		2,789,804			2,786,664		2,788,962		2,811,345	2,814,482	
2,807,448		2,798,706			2,789,806		2,797,911		2,814,478	65: 2,809,825	
2,810,559		2,801,089			2,791,413		2,797,912		2,814,479	69: 2,805,058	
2,810,560		2,803,444			2,791,414		2,801,097		2,817,508	70: 2,801,843	
2,816,745		2,791,410			2,798,715		2,805,849		32: 2,799,493	73: 2,797,082	
24: 2,776,121		2,777,679			2,810,567		2,811,344		2,805,851	3: 2,787,461	
2,783,982		2,780,449			2,810,568		2,816,748		2,793,852	10: 2,815,203	
2,791,408		2,780,450			2,811,343		2,818,244		2,807,456	20: 2,782,028	
2,796,241		2,783,986			34: 2,817,505		2,782,020		2,811,346	21: 2,814,483	
2,797,072		2,784,954			1: 2,802,656	263—	2,786,667		2,818,247	22: 2,806,689	
2,808,243		2,786,660			2: 2,783,987		2,793,023		2,809,823	23: 2,778,630	
2,809,817		2,786,661			2,800,317		2,809,823		2,818,247	2,800,322	
2,809,818		2,787,455			2,805,054		2,816,749		2,806,687	2,809,826	
29: 2,788,198		2,788,956			2,812,933		2,797,913		2,809,028	30: 2,794,633	
2,793,015		2,789,805			2,792,206		2,779,582		2,788,207	34: 2,801,571	
2,812,930		2,801,090			2,797,074		2,788,206		2,801,099	48: 2,797,083	
30: 2,788,955		2,804,293			2,803,446		2,797,079		2,805,852	51: 2,804,296	
2,812,167		2,808,247			2,813,706		2,797,080		2,817,509	59: 2,778,631	
2,785,880		2,808,248			5: 2,779,578		2,807,455		2,818,248	2,790,635	
2,796,242		2,817,504			6: 2,776,128		2,807,455		2,818,248	2,794,634	
36: 2,783,033		2,818,240			2,780,453		2,792,208		2,801,099	2,801,844	
39: 2,786,657		2,776,123			2,788,957		2,793,048		2,805,852	2,803,454	
2,797,073		2,776,124			7: 2,793,018		2,806,685		2,817,509	62: 2,789,813	
2,798,704		2,776,125			8: 2,776,129		2,812,170		2,818,248	64: 2,808,256	
2,803,442		2,780,451			2,779,579		2,776,133		2,778,626	66: 2,778,632	
2,808,244		2,783,036			2,780,454		2,779,583		2,778,627	2,789,814	
2,809,022		2,783,037			2,785,884		2,791,417		2,778,628	2,800,323	
2,818,238		2,783,038			2,788,958		2,793,024		2,778,629	72: 2,779,588	
2,818,239		2,793,848			2,792,207		2,802,658		2,779,585	73: 2,816,754	
41: 2,777,678		2,796,244			2,797,075		2,812,935		2,779,586	74: 2,805,059	
2,786,658		2,796,245			2,817,506		2,818,245		2,780,457	2,807,460	
2,786,659		2,798,707			9: 2,800,318		2,812,171		2,782,025	2,808,257	
2,796,243		2,798,708			11: 2,789,807		2,793,025		2,783,039	2,811,348	
2,797,905		2,798,709			2,813,707		2,780,456		2,783,992	2,815,204	
2,799,486		2,798,710			15: 2,776,130		2,798,717		2,784,962	2,818,250	
2,803,443		2,801,836			2,791,415		2,803,448		2,785,887	75: 2,779,589	
2,807,449		2,802,653			2,791,416		2,796,250		2,787,460	2,800,324	
44: 2,798,705		2,802,654			2,794,629		2,792,209		2,793,023	2,807,461	
46: 2,789,801		2,808,249			2,795,409		2,792,210		2,796,253	104: 2,811,349	
50: 2,783,034		2,808,250			2,776,825		2,806,686		2,798,718	105: 2,795,413	
2,802,651		2,808,251			2,779,658		2,796,251		2,799,494	2,797,917	
51: 2,783,983		2,811,341			2,783,988		2,813,709		2,803,451	2,801,845	
2,801,835		2,812,169			2,793,019		2,795,410		2,806,688	109: 2,777,687	
2,808,245		2,815,196			2,806,684		2,798,718		2,807,457	117: 2,795,414	
52: 2,815,942		2,818,241			2,808,254		2,796,252		2,807,458	2,799,495	
59: 2,790,632		2,818,242			2,782,018		2,812,172		2,809,029	119: 2,795,415	
62: 2,776,821		2,786,662			2,782,019		2,805,850		2,812,936	121: 2,809,030	
2,801,087		2,788,199			2,788,959		2,801,840		2,815,200	122: 2,788,966	
63: 2,778,619		2,791,411			2,797,908		2,812,173		2,816,752	123: 2,783,040	
64: 2,779,576		2,795,407			2,807,453		2,782,021		2,802,662	124: 2,777,688	
2,783,984		2,801,837			2,809,023		2,783,989		2,784,963	2,781,191	
2,802,652		2,802,655			2,788,960		2,784,958		2,789,810	2,784,965	
2,812,931		2,806,682			2,776,127		2,802,659		2,789,811	2,791,420	
2,816,746		2,808,252			2,805,848		2,816,750		2,793,029	2,798,719	
65: 2,793,844		2,810,564			2,784,956		2,788,963		2,793,030	2,806,690	
2,793,845		2,810,565			2,785,885		2,786,669		2,793,030	2,817,512	
2,793,846		2,776,126			2,788,961		2,793,026		2,793,853	2,804,297	
2,800,314		2,776,127			2,785,886		2,777,682		2,797,914	125: 2,818,251	
2,801,088		2,776,809			2,786,666		2,793,851		2,797,915	126: 2,780,458	
2,810,561		2,776,823			2,793,020		2,802,660		2,803,452	2,785,889	
2,812,932		2,777,680			2,796,249		2,805,055		2,813,711	2,807,462	
69: 2,789,802		2,777,681			2,797,076		2,781,188		2,815,201	2,809,827	
2,792,203		2,780,452			2,797,077		2,818,246		2,779,587	1: 2,776,831	
70: 2,782,016		2,781,187			2,799,489		2,779,584		2,784,964	2,783,993	
71: 2,783,035		2,784,955			2,809,024		2,794,630		2,790,634	2,788,208	
2,785,881		2,788,200			2,812,934		2,810,569		2,792,215	5: 2,813,713	
2,791,409		2,788,201			2,776,826		2,776,134		2,792,216	20: 2,807,463	
2,812,168		2,792,204			2,788,204		2,777,683		2,815,202	31: 2,795,416	
72: 2,790,633		2,796,246			2,797,900		2,777,684		2,776,830	39: 2,790,636	
76: 2,775,620		2,799,488			2,801,096		2,792,211		2,787,459	43: 2,797,084	
2,787,452		2,801,091			2,809,025		2,792,212		2,814,480	2,814,484	
2,783,016		2,801,092			2,802,657		2,805,056		2,777,686	45: 2,789,815	
2,797,906		2,801,093			2,817,507		2,816,751		2,788,965	52: 2,800,325	
2,799,487		2,808,253			2,789,808		2,784,959		2,795,412	54: 2,791,421	
2,811,340		2,816,747			2,799,490		2,793,027		2,815,944	2,817,513	
78: 2,809,819		2,814,475			2,809,026		2,795,411		2,816,753	56: 2,801,846	
79: 2,776,122		2,803,445			2,779,580		2,799,491		2,797,916	57: 2,796,255	
2,807,450		2,805,847			2,787,457		2,803,449		2,800,320	58: 2,790,637	
87: 2,800,315		2,792,205			2,809,822		2,804,295		2,802,663	2,793,032	
89: 2,793,847		2,782,017			2,809,027		2,810,570		2,776,135	2,799,496	
92: 2,806,681		2,791,412			2,788,205		2,782,022		2,801,841	2,809,031	
99: 2,804,291		2,804,294			2,814,476		2,794,632		2,807,459	2,816,755	
106: 2,809,820		2,787,456			2,776,131		2,799,492		2,818,249	2,816,756	

270—	61: 2,778,633 2,788,967 65: 2,797,085 68: 2,786,671 2,801,101 2,811,350 2,813,714 2,815,946 69: 2,793,854 70: 2,794,635 79: 2,787,462 2,815,205 80: 2,783,994 81: 2,777,689 2,804,298	271—	2. 6: 2,799,498 2,801,102 2,802,666 2,806,694 2,807,465 2,812,938 2,814,487 2,817,940 3: 2,782,031 2,813,715 4: 2,779,592 2,787,467 5: 2,792,218 2,811,352 8: 2,792,219 2,794,636 10: 2,789,819 2,803,458 2,815,947 11: 2,796,256 2,805,060 2,806,695 14: 2,815,948 18: 2,790,639 2,796,257 19: 2,795,419 20: 2,816,760 23: 2,817,517 2,817,518 26: 2,799,499 2,813,716 2,814,488 27: 2,810,575 28: 2,791,424 29: 2,796,258 2,797,092 2,812,178 2,815,207 2,817,519 32: 2,792,220 2,806,696 2,817,520 36: 2,791,425 2,808,290 37: 2,813,717 39: 2,779,593 2,812,179 41: 2,784,966 2,804,301 42: 2,783,042 44: 2,797,093 2,812,939 45: 2,804,302 2,809,033 2,815,208 46: 2,803,459 48: 2,792,221 2,809,831 49: 2,798,720 50: 2,784,967 2,812,940 51: 2,776,136 2,794,637 2,801,103 2,805,856 2,805,857 2,813,718 54: 2,808,261 55: 2,792,222 2,797,094 56: 2,812,942 2,793,035 2,809,832 2,811,353 2,818,252 58: 2,803,460 59: 2,801,849 2,807,466 2,814,489 60: 2,811,354 2,811,355 61: 2,785,893 2,792,223 2,808,262 62: 2,804,303 2,809,034 2,815,209 2,817,521 63: 2,783,043 2,797,095 64: 2,804,304 2,815,949 68: 2,779,594 2,785,894 2,786,676 69: 2,788,210 74: 2,805,858 76: 2,797,096 82: 2,797,097 83: 2,816,761 86: 2,796,259 2,816,762 87: 2,778,638 2,787,468	271—	87: 2,797,098 2,797,920 2,815,210 2,815,950 88: 2,788,131 2,793,857 2,795,420 2,796,260 272—	1: 2,795,421 2,801,850 2,809,035 7: 2,805,061 8: 2,807,467 2,809,833 2,811,356 17: 2,815,951 25: 2,810,576 27: 2,809,834 30: 2,781,193 2,809,036 2,810,577 31: 2,779,595 33: 2,777,691 2,785,896 2,789,820 2,797,099 35: 2,806,697 36: 2,780,460 38: 2,800,328 2,816,763 52: 2,806,698 2,814,490 53. 1: 2,782,032 2,801,104 53. 2: 2,812,943 54: 2,784,968 56. 5: 2,779,596 57: 2,793,036 2,803,461 58: 2,795,422 2,817,522 59: 2,777,692 2,805,062 60: 2,795,423 62: 2,812,944 2,817,523 63: 2,788,971 66: 2,805,859 2,807,468 2,812,180 67: 2,782,033 68: 2,814,491 2,818,253 70. 2: 2,801,851 73: 2,788,211 2,805,860 75: 2,795,424 78: 2,815,952 79: 2,783,044 2,817,524 81: 2,783,045 82: 2,797,921 83: 2,806,699 2,792,224 2,797,922 2,799,500 2,800,329 2,808,263 2,809,835 1. 5: 2,782,034 2,786,677 2,786,678 2,805,861 2,808,264 2,818,254 23: 2,817,525 25: 2,785,897 26: 2,818,255 29: 2,812,945 30: 2,781,194 2,817,526 33: 2,790,640 2,801,852 2,815,953 37: 2,818,256 41: 2,776,137 42: 2,788,212 2,798,721 2,803,462 2,817,527 2,817,528 43: 2,781,195 2,785,898 2,786,679 2,791,426 2,817,529 47: 2,788,972 49: 2,776,138 2,796,261 2,803,463 2,809,037 2,817,530	273—	51: 2,788,973 53: 2,815,954 54: 2,793,858 2,794,638 58: 2,783,046 2,795,425 2,815,211 60: 2,776,139 63: 2,777,693 65: 2,789,821 69: 2,815,212 72: 2,793,859 73: 2,795,426 2,801,105 74: 2,818,257 77: 2,784,969 79: 2,777,694 81: 2,782,035 2,781,196 2,801,106 82: 2,797,923 2,809,038 85: 2,779,597 2,799,501 86: 2,776,835 2,786,680 2,808,265 2,814,492 87. 2: 2,785,899 2,793,037 88: 2,811,357 2,812,946 89: 2,802,667 93: 2,788,213 2,812,181 94: 2,780,461 2,784,970 2,801,853 95: 2,791,427 2,793,860 2,805,063 2,806,700 2,806,701 97: 2,792,225 98: 2,784,971 100: 2,776,140 2,793,861 101. 2: 2,805,064 102: 2,777,695 2,811,358 2,818,258 2,818,259 102. 1: 2,809,039 2,809,836 2,817,531 102. 2: 2,783,047 2,789,822 102. 4: 2,812,947 2,815,955 105: 2,799,502 2,808,266 105. 2: 2,793,038 105. 3: 2,777,696 2,805,065 2,813,719 105. 6: 2,805,066 106: 2,797,924 2,798,722 2,804,305 2,809,837 2,815,956 2,816,764 106. 5: 2,782,036 2,796,262 2,805,067 2,807,469 2,816,765 2,816,766 110: 2,791,428 115: 2,788,974 118: 2,815,213 119: 2,780,462 122: 2,782,037 123: 2,792,228 2,794,639 2,809,040 126: 2,789,823 2,791,429 127: 2,794,640 2,798,723 2,801,854 2,818,260 129: 2,797,100 2,805,068 130: 2,778,639 2,782,033 2,796,263 2,791,430 2,794,641 2,802,668 2,806,702 2,807,470 2,811,359 2,811,360 131: 2,798,724	273—	131: 2,799,503 2,799,504 2,801,107 132: 2,779,598 2,788,975 133: 2,778,640 2,778,641 134: 2,780,463 2,787,469 2,791,431 2,792,227 2,794,642 2,800,330 2,806,703 2,810,578 2,811,361 135: Re. 24,409 2,778,642 2,801,855 2,805,069 136: 2,786,681 2,799,505 2,801,856 137: 2,782,039 138: 2,794,643 2,813,720 139: 2,801,108 141: 2,788,976 2,800,331 142: 2,803,464 2,809,041 2,811,362 143: 2,779,599 2,786,682 2,812,182 144: 2,785,900 2,799,506 145: 2,791,432 2,802,669 147: 2,794,644 148: 2,784,973 2,792,228 2,810,579 2,814,493 149: 2,778,643 2,788,644 2,782,040 2,790,641 2,793,863 2,815,214 150: 2,785,901 2,811,363 2,818,261 2,818,262 152. 7: 2,783,998 153: 2,776,141 2,795,427 2,815,215 155: 2,807,471 2,812,183 156: 2,794,645 158: 2,779,600 162: 2,793,862 164: 2,781,197 165: 2,780,464 174: 2,809,838 176: 2,794,646 177: 2,788,977 180: 2,810,580 181: 2,783,999 2,784,000 2,805,070 183: 2,786,683 2,809,042 185: 2,778,645 2,784,001 186: 2,787,470 2,801,857 2,804,306 187: 2,777,697 2,790,642 189: 2,808,267 2,809,043 191: 2,788,214 2,807,472 2,813,721 192: 2,776,836 199: 2,812,184 2,789,824 201: 2,789,824 202: 2,805,071 210: 2,809,839 227: 2,786,684 235: 2,805,072 2,815,957 274—	1: 2,795,428 2,796,263 2,815,216 4: 2,777,698 2,782,041 2,783,048 2,790,643 2,793,039 2,805,862 2,810,581	274—	4: 2,812,948 9: 2,814,494 10: 2,777,699 2,780,465 2,781,198 2,783,049 2,790,644 2,794,647 2,795,429 2,799,507 2,799,508 2,801,109 2,803,465 2,804,307 2,809,840 2,810,582 2,818,263 13: 2,776,143 2,793,864 2,798,725 2,803,466 2,808,268 2,811,364 14: 2,780,466 15: 2,786,685 20: 2,790,645 23: 2,776,144 2,782,042 2,788,215 2,809,841 36: 2,809,842 38: 2,814,495 39: 2,776,145 2,799,509 40: 2,800,332 41. 4: 2,782,043 42: 2,776,837 2,776,838 2,802,670 2,806,704 46: 2,797,101 2: 2,777,700 2,784,974 3: 2,792,229 2,810,583 5: 2,798,726 2,804,308 8: 2,799,510 2,804,309 2,813,722 276—	1: 2,800,333 44: 2,795,430 2,797,925 279—	1: 2,783,050 2,788,978 2,790,646 2,805,864 2,812,185 2,815,958 2,816,767 2,776,839 2,777,701 2,789,825 2,793,865 2,801,858 2,806,705 2,809,044 2,812,186 2,817,532 2,818,264 4: 2,779,601 2,782,044 2,784,002 2,788,979 2,793,040 2,814,496 5: 2,793,866 6: 2,780,467 2,785,902 2,793,041 2,810,584 7: 2,788,980 2,792,230 9: 2,805,073 16: 2,778,647 2,780,468 2,793,867 18: 2,778,648 2,813,723 10. 3: 2,776,840 19. 4: 2,776,841 20: 2,777,702 23: 2,786,686 2,786,687 33: 2,776,842 2,817,533 37: 2,784,975 41: 2,813,724 42: 2,809,844 43: 2,801,110 2,810,585
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279—	44: Re. 24,348	280—33. 99:	2, 818, 267	280—	103:	2, 816, 773	280—	152:	2, 812, 955	280—	489:	2, 800, 341	285—	86:	2, 797, 110
46:	2, 778, 649	34:	2, 780, 473			2, 816, 774		153:	2, 811, 373		491:	2, 816, 778		89:	2, 818, 279
	2, 778, 650		2, 809, 046		104:	2, 777, 709		154. 5:	2, 777, 710			2, 804, 316		95:	2, 813, 729
47:	2, 805, 074	35:	2, 782, 046			2, 788, 982			2, 782, 053			2, 812, 956		96:	2, 814, 508
48:	2, 778, 651		2, 789, 828		104. 5:	Re. 24,374			2, 801, 867		495:	2, 818, 277		97:	2, 810, 592
	2, 780, 469		2, 798, 729			2, 784, 980			2, 809, 848			2, 815, 964			2, 816, 780
	2, 784, 976	36:	2, 777, 707			2, 784, 981		158:	2, 799, 515			2, 780, 480		98:	2, 777, 714
50:	2, 783, 051		2, 782, 047			2, 784, 982		166:	2, 797, 104		499:	2, 797, 107		104:	2, 808, 275
	2, 816, 768		2, 786, 692			2, 788, 222			2, 807, 476		501:	2, 782, 055		105:	2, 797, 937
	2, 817, 534		2, 789, 829			2, 793, 873		179:	2, 787, 476		502:	2, 791, 445		106:	2, 781, 205
51:	2, 785, 903		2, 798, 730			2, 795, 434		203:	2, 793, 051			2, 814, 506		107:	2, 788, 231
	2, 800, 334		2, 806, 708			2, 798, 735			2, 797, 933		504:	2, 798, 741		109:	2, 804, 318
	2, 805, 865		2, 809, 047			2, 800, 338			2, 809, 052			2, 809, 055		110:	2, 778, 661
	2, 815, 217	37:	2, 777, 708			2, 807, 474		216:	2, 793, 876		509:	2, 783, 059			2, 786, 697
55:	2, 817, 535		2, 778, 653		106:	2, 810, 587		250:	2, 814, 505		510:	2, 779, 607			2, 795, 439
56:	2, 777, 703		2, 798, 731			2, 814, 501		257:	2, 789, 831			2, 812, 195			2, 809, 853
57:	2, 814, 497		2, 788, 218			2, 784, 983		261:	2, 815, 222			2, 815, 965		112:	2, 777, 715
66:	2, 780, 470		2, 803, 469			2, 785, 908		263:	2, 812, 194		512:	Re. 24,362		114:	2, 807, 480
77:	2, 781, 199		2, 806, 709			2, 788, 223		276:	2, 792, 236		515:	2, 783, 881		119:	2, 799, 518
	2, 805, 866	38. 8:	2, 791, 436			2, 788, 986		281:	2, 809, 053			2, 787, 478		128:	2, 814, 509
79:	2, 791, 433	40:	2, 797, 927			2, 791, 439		282:	2, 797, 105		281—	1:	2, 776, 848	129:	2, 783, 065
	2, 801, 111		2, 802, 672			2, 794, 650			2, 817, 539			2, 788, 229			2, 814, 510
	2, 806, 706	41:	2, 810, 586			2, 797, 105		287:	2, 777, 711			2, 818, 278		134:	2, 791, 449
82:	2, 807, 473		2, 780, 474			2, 801, 863			2, 798, 739		8:	2, 803, 472			2, 794, 659
	2, 909, 845		2, 783, 053			2, 801, 864		289:	2, 816, 775		15:	2, 776, 149			2, 805, 086
83:	2, 786, 769		2, 784, 005			2, 809, 050		291:	2, 809, 850			2, 791, 446			2, 805, 087
87:	2, 789, 826		2, 798, 732			2, 812, 192		292:	2, 789, 832			2, 793, 054		140:	2, 784, 988
97:	2, 790, 647		2, 798, 733			2, 818, 272		293:	2, 793, 877			2, 805, 870		149:	2, 797, 111
	2, 796, 264		2, 803, 470		111:	2, 805, 079			2, 817, 540			2, 806, 715			2, 798, 744
	2, 801, 859		2, 805, 076		112:	2, 787, 473		302:	2, 791, 441		16:	2, 802, 677			2, 809, 056
	2, 801, 860		2, 811, 367			2, 787, 474		304:	2, 776, 845		17:	2, 781, 204			2, 816, 781
102:	2, 809, 846		2, 812, 188			2, 788, 984			2, 784, 008		18:	2, 813, 728		155:	2, 798, 745
103:	2, 786, 688		2, 812, 949			2, 788, 985		400:	2, 789, 833		20:	2, 808, 274		156:	2, 790, 653
106:	2, 784, 977	42:	2, 781, 202			2, 788, 986		406:	2, 815, 963		21:	2, 782, 056			2, 791, 450
	2, 785, 904		2, 782, 048			2, 791, 440			2, 789, 834		29:	2, 809, 852			2, 799, 519
	2, 793, 042		2, 783, 054			2, 792, 234			2, 793, 878		31:	2, 776, 150		158:	2, 788, 992
110:	2, 811, 365		2, 793, 871			2, 794, 651			2, 793, 879		33:	2, 801, 115			2, 789, 840
114:	2, 793, 043		2, 800, 335			2, 796, 267			2, 808, 272		35:	2, 783, 061		159:	2, 812, 959
116:	2, 786, 689		2, 812, 950			2, 802, 674			2, 815, 223		42:	2, 780, 481		161:	2, 784, 010
	2, 799, 511	43:	2, 779, 602			2, 804, 311			2, 817, 541		43:	2, 778, 658		173:	2, 800, 344
118:	2, 809, 045		2, 811, 368			2, 805, 080		407:	2, 817, 542			2, 805, 084		174:	2, 776, 151
119:	2, 794, 648		2, 814, 498			2, 807, 475			2, 776, 846		44:	2, 783, 062			2, 788, 993
123:	2, 777, 704	44:	2, 776, 146			2, 811, 370			2, 799, 516			2, 789, 836		177:	2, 789, 841
	2, 778, 652		2, 776, 844		124:	2, 815, 960		408:	2, 813, 727		282—	5:	2, 791, 447	181:	2, 791, 451
	2, 787, 471		2, 780, 475			2, 776, 147		410:	2, 791, 442		11. 5:	2, 805, 085		187:	2, 809, 057
	2, 788, 216		2, 783, 055			2, 778, 656		411:	2, 780, 478			2, 805, 086		188:	2, 789, 842
	2, 799, 512		2, 788, 219			2, 782, 049		412:	2, 808, 273		12:	2, 789, 837		192:	2, 788, 994
	2, 811, 366		2, 795, 432			2, 782, 051		414:	2, 777, 712		16:	2, 795, 436		201:	2, 788, 232
280—	1. 13:		2, 793, 044			2, 787, 475			2, 789, 835		19:	2, 778, 659		206:	2, 782, 057
1. 165:	2, 794, 649		2, 801, 861			2, 788, 224		415:	2, 792, 237		22:	2, 802, 678		212:	2, 782, 058
1. 182:	2, 802, 671		2, 805, 867			2, 788, 987			2, 810, 589		25:	2, 788, 230		220:	2, 793, 059
	2, 815, 218		2, 806, 710			2, 789, 830		420:	2, 800, 339		28:	2, 792, 239		226:	2, 797, 112
1. 192:	2, 785, 905		2, 809, 048			2, 790, 650		423:	2, 816, 776		29:	2, 793, 882		229:	2, 793, 883
1. 195:	2, 796, 265		2, 812, 189			2, 792, 235		425:	2, 777, 713		29:	2, 812, 957		230:	2, 792, 240
1. 202:	2, 788, 217		2, 817, 537			2, 793, 874		426:	2, 785, 909		283—	6:	2, 797, 936	231:	2, 793, 884
	2, 815, 219		2, 818, 260			2, 798, 736			2, 793, 052		284—	12:	2, 776, 849	232:	2, 787, 479
1. 21:	2, 793, 045		2, 801, 865			2, 801, 865			2, 794, 655			2, 810, 591	233:	2, 781, 207	
1. 22:	2, 791, 434	46:	2, 812, 951			2, 802, 675		429:	2, 797, 106			2, 776, 850	236:	2, 784, 989	
3:	2, 786, 690	47. 11:	2, 800, 336			2, 805, 868			2, 810, 590			2, 783, 063			2, 810, 593
5:	2, 792, 231	47. 13:	2, 790, 649			2, 806, 713		432:	2, 784, 986		18:	2, 799, 617	238:	2, 787, 480	
5. 22:	2, 793, 868		2, 792, 232			2, 806, 714			2, 802, 676			2, 800, 343	239:	2, 805, 088	
5. 28:	2, 787, 472		2, 805, 077			2, 808, 270		434:	2, 815, 224		19:	2, 789, 838	242:	2, 813, 730	
6:	2, 784, 978	47. 16:	2, 788, 220			2, 809, 051			2, 817, 541			2, 804, 317	247:	2, 782, 059	
	2, 790, 648	47. 18:	2, 812, 190			2, 811, 371		438:	2, 794, 656			2, 815, 226	248:	2, 782, 060	
	2, 809, 847	47. 19:	2, 806, 711			2, 811, 372			2, 809, 851			2, 806, 716	251:	2, 790, 654	
7. 11:	2, 804, 310	47. 23:	2, 812, 952			2, 812, 953		440:	2, 778, 657			2, 807, 478	276:	2, 786, 698	
7. 17:	2, 798, 727	47. 24:	2, 778, 654			2, 812, 954			2, 779, 605		5:	2, 806, 717			2, 789, 843
11:	2, 817, 536		2, 780, 476			2, 814, 502		443:	2, 784, 984		6:	2, 773, 660			2, 812, 960
11. 13:	2, 791, 435		2, 784, 979			2, 814, 503		446:	2, 818, 275		7:	2, 789, 839	281:	2, 799, 521	
	2, 795, 431		2, 802, 673			2, 815, 221			2, 795, 435			2, 793, 055			2, 817, 543
11. 28:	2, 797, 926	47. 26:	2, 786, 693			2, 815, 961		447:	2, 800, 340		8:	2, 793, 056	284:	2, 795, 440	
11. 35:	2, 777, 705		2, 818, 273			2, 818, 273		452:	2, 805, 869		9:	2, 793, 057	286:	2, 792, 241	
	2, 788, 981	47. 28:	2, 792, 233			2, 818, 275		456:	2, 816, 777		13:	2, 786, 696	308:	2, 784, 011	
	2, 789, 827		2, 795, 433			2, 819, 654			2, 793, 050		14:	2, 797, 108	316:	2, 804, 319	
	2, 793, 046	47. 3:	2, 815, 220			2, 794, 654		457:	2, 788, 990		15:	2, 793, 058	317:	2, 805, 089	
	2, 793, 869	47. 33:	2, 800, 337			2, 797, 931		458:	2, 815, 225		18:	2, 788, 991			2, 805, 873
	2, 798, 728	47. 36:	2, 791, 437			2, 797, 932		460:	2, 793, 053			2, 805, 871	323:	2, 779, 610	
	2, 803, 467	47. 37:	2, 786, 694			2, 798, 737		474:	2, 783, 058		22:	2, 812, 958	329:	2, 787, 481	
11. 37:	2, 793, 870		2, 812, 191			2, 798, 738		475:	2, 788, 227		23:	2, 795, 437	332:	2, 780, 483	
11. 39:	2, 781, 200	93:	2, 778, 655			2, 801, 866		476:	2, 787, 477			2, 814, 507	336:	2, 789, 844	

286—	1: 2,799,522 2,814,511 5: 2,797,938 6: 2,781,200 2,789,845 2,793,885 2,797,113 2,798,746 2,808,272 7: Re.24,332 2,783,066 2,798,747 2,809,854 2,812,196 2,817,544 8: 2,801,117 2,818,283 9: 2,779,611 2,781,209 2,814,512 10: 2,781,210 2,805,090 11: 2,776,851 2,783,067 2,797,939 2,806,720 2,814,513 2,815,967 11.11: 2,786,699 2,815,968 11.12: 2,817,545 11.13: 2,795,441 2,802,679 2,805,874 11.14: 2,785,913 2,807,482 11.15: 2,797,940 2,818,284 2,818,285 2,818,286 11.16: 2,807,483 16: 2,815,969 16.2: 2,812,197 16.5: 2,814,514 17: 2,789,846 26: 2,783,068 2,784,013 2,799,523 2,808,277 2,815,970 2,818,287 27: 2,806,721 30: 2,807,484 33: 2,809,058 2,809,059 2,812,198 12: 2,776,152 14: 2,796,268 2,800,345 2,812,961 20: 2,776,852 2,781,211 2,808,278 20.1: 2,781,212 20.2: 2,779,612 2,784,014 2,788,233 2,790,656 20.3: 2,795,442 20.5: 2,793,886 2,793,887 2,804,321 2,805,875 52: 2,777,717 2,783,069 2,798,748 2,804,322 52.03: 2,778,663 52.05: 2,787,482 2,807,485 2,815,229 52.06: 2,787,483 2,814,515 52.09: 2,796,269 2,811,376 2,812,199 2,812,200 53: 2,795,443 2,796,270 2,797,941 2,801,118 2,801,119 2,802,680 2,804,323 2,805,876 2,812,962 2,813,732 2,815,230 2,815,231 2,815,971 2,818,288 54: 2,780,484 2,794,660 2,805,877 2,815,972	287—	54: 2,817,546 2,817,547 2,818,289 58: 2,787,484 2,787,485 2,790,657 2,791,453 2,797,942 2,802,681 2,806,722 2,806,723 2,817,548 2,818,290 60: 2,790,658 2,797,943 2,810,595 2,812,201 2,813,733 2,816,783 75: 2,779,613 2,813,734 78: 2,792,243 83: 2,817,549 85: 2,778,664 2,787,486 2,790,659 2,791,454 2,794,661 86: 2,817,550 89: 2,815,232 90: 2,807,486 2,809,855 2,811,377 2,813,735 2,817,551 91: 2,801,120 2,811,378 93: 2,805,878 2,810,596 99: 2,818,291 100: 2,809,856 2,809,857 103: 2,788,234 2,810,597 105: 2,793,060 108: 2,798,749 2,809,858 111: 2,812,962 113: 2,814,516 118: 2,806,724 119: 2,777,718 2,784,015 2,810,598 125: 2,793,888 2,818,292 2,818,293 127: 2,805,879 129: 2,803,474 288—	289—	1: 2,789,847 2,809,060 2,776,153 2,784,016 2,793,889 2,797,944 2,797,945 2,798,750 2,816,784 3: 2,784,017 2,804,326 2,804,324 2,804,325 2,806,725 4: 2,811,379 2,815,973 2,776,154 20: 2,790,660 2,814,517 23: 2,790,661 2,795,444 27: 2,799,524 289—	290—	38: 2,791,699 2,807,729 2,813,206 40: 2,777,071 2,777,072 2,790,092 2,799,783 2,803,757 2,804,552 2,804,553 2,809,299 2,809,300 2,810,840 2,815,974 50: 2,809,301 52: 2,783,392 2,787,715 2,792,505 2,794,129 291—	292—	11: 2,783,070 32: 2,803,475 41: 2,797,946 44: 2,784,018 1: 2,776,155 2,778,665 2,796,271 2,797,114 2: 2,807,488 3: 2,789,848 4: 2,787,487 6: 2,793,061 7: 2,785,914 11: 2,781,214 2,797,115 2,797,947 17: 2,806,726 2,807,489 18: 2,793,891 21: 2,805,091 29: 2,797,116 36: 2,779,614 57: 2,793,892 2,789,849 67: 2,794,663 2,796,272 68: 2,790,662 70: 2,776,156 74: 2,813,737 75: 2,785,915 2,792,244 2,796,273 2,809,061 76: 2,789,850 2,792,245 2,793,893 77: 2,797,117 79: 2,786,700 80: 2,803,476 83: 2,804,326 87: 2,797,118 2,803,477 96: 2,803,478 98: 2,789,851 101: 2,792,246 2,811,380 109: 2,783,071 110: 2,789,852 111: 2,784,019 113: 2,800,346 126: 2,776,157 2,816,787 127: 2,799,525 128: 2,793,894 2,802,682 129: 2,794,664 2,812,202 140: 2,795,445 141: 2,792,247 143: 2,815,975 2,816,785 144: 2,785,916 2,786,701 2,797,948 2,798,751 2,809,062 148: 2,781,215 150: 2,793,895 162: 2,784,992 163: 2,776,158 2,813,738 165: 2,787,488 2,793,896 169: 2,780,485 2,782,061 2,795,446 2,795,447 2,797,949 2,800,347 2,803,479 2,804,327 2,804,328 2,808,279 2,813,739 2,813,740	293—	169: 2,814,518 170: 2,804,329 182: 2,816,786 186: 2,804,330 192: 2,801,121 194: 2,794,665 201: 2,800,348 202: 2,801,868 210: 2,785,917 2,793,897 216: 2,782,062 2,795,448 2,803,480 2,806,727 2,808,280 218: 2,809,063 221: 2,779,615 2,804,331 223: 2,784,993 2,796,274 226: 2,801,869 2,809,064 228: 2,810,599 241: 2,779,616 245: 2,803,481 247: 2,784,994 2,791,455 248: 2,792,248 251: Re.24,375 251.5: 2,781,216 2,786,702 2,786,703 2,792,249 2,801,870 2,808,281 2,812,203 2,812,964 2,812,965 2,813,741 2,815,235 2,815,236 256: 2,776,853 2,776,854 2,783,072 2,786,704 256.6: 2,776,159 256.63: 2,805,092 256.65: 2,795,449 256.71: 2,815,237 256.75: 2,812,966 258: 2,815,238 259: 2,793,063 2,817,552 260: 2,798,752 263: 2,791,456 2,797,119 264: 2,790,663 2,798,753 2,805,093 265: 2,785,918 267: 2,801,871 271: 2,806,728 279: 2,791,457 280: 2,777,719 2,777,720 2,791,458 2,791,459 2,793,898 2,796,275 2,796,276 2,797,120 2,802,683 2,811,381 2,814,519 2,815,239 283: 2,788,995 284: 2,776,855 285: 2,790,664 288: 2,779,617 2,783,073 2,793,064 2,807,490 292: 2,804,332 297: 2,786,705 304: 2,776,160 2,795,450 2,807,491 306: 2,795,451 307: 2,796,277 2,809,065 308: 2,809,859 317: 2,804,333 322: 2,781,217 325: 2,778,666 2,796,278 2,800,349 327: 2,784,020 332: 2,777,721 2,777,722 2,779,618 2,802,684 334: 2,812,204 335: 2,811,382 336: 2,781,218	294—	336: 2,790,665 336.3: 2,783,074 2,784,021 2,784,022 2,786,706 2,787,489 2,788,996 2,789,853 2,800,350 2,805,094 2,806,729 2,807,492 2,812,205 2,817,553 337: 2,800,351 2,802,685 2,804,334 340: 2,795,452 2,817,554 341.12: 2,811,383 341.15: 2,784,023 2,790,668 341.16: 2,799,526 341.17: 2,788,997 2,790,666 2,801,872 2,818,294 341.18: 2,781,219 2,787,490 2,790,667 2,798,754 342: 2,798,755 343: 2,796,280 346: 2,796,281 2,816,788 347: 2,779,619 2,781,220 2,788,235 2,788,236 2,793,899 2,797,950 2,801,122 2,803,482 2,808,282 2,812,967 348: 2,784,995 352: 2,778,667 2,800,352 2,801,123 353: 2,776,161 2,783,075 357: 2,805,880 2,810,600 2,811,384 2,788,998 62: 2,806,730 64: 2,779,620 67: 2,798,756 69: 2,789,854 71: 2,793,900 73: 2,789,855 85: 2,792,250 86: 2,805,881 2,811,385 88: 2,788,999 99: 2,797,121 1: 2,802,686 2,804,335 5.5: 2,785,919 2,808,283 2,809,068 7: 2,801,873 2,803,483 15: 2,782,063 2,789,000 2,795,453 2,801,124 2,805,882 16: 2,776,856 2,778,668 2,789,001 2,793,065 2,794,666 2,800,353 17: 2,788,237 19: 2,783,076 2,784,024 2,791,460 2,792,251 2,796,282 2,801,875 2,802,687 2,814,520 23: 2,776,162 25: 2,777,723 2,777,724 26: 2,785,920 2,799,527 2,805,883 26.5: 2,818,295 27: 2,784,996 2,793,901 2,806,731	28: 2,808,284 29: 2,808,285 31.2: 2,781,221 2,782,064 2,790,669 2,795,454 2,809,066 32: 2,813,742 33: 2,783,077 2,789,002 2,803,484 2,806,732 2,810,601 2,812,968 2,777,725 34: 2,780,486 2,786,707 2,786,708 2,802,688 50.7: 2,794,667 2,802,689 2,809,067 2,812,969 50.9: 2,790,670 2,806,733 51: 2,787,491 57: 2,793,902 2,816,789 61: 2,789,856 2,794,668 2,800,354 2,804,336 62: 2,789,857 2,808,286 2,776,163 64: 2,776,857 2,798,757 2,815,240 65: 2,783,078 2,803,485 2,778,669 65.5: 2,816,790 67: 2,780,487 2,784,923 2,818,296 69: 2,784,025 2,801,125 71: 2,801,126 2,812,970 73: 2,796,283 2,798,758 74: 2,789,003 2,792,252 2,793,066 2,793,903 2,793,904 2,793,905 2,813,743 2,814,521 75: 2,813,744 76: 2,790,671 77: 2,809,860 2,813,745 78: 2,803,486 2,812,971 79: 2,809,069 2,812,206 82: 2,801,127 2,801,128 2,814,522 2,815,976 83: 2,796,284 2,802,690 84: 2,818,297 85: 2,791,461 86: 2,789,004 2,796,285 2,817,555 87: 2,782,065 87.2: 2,801,129 2,809,861 87.26: 2,776,858 2,778,670 2,813,746 87.28: 2,803,487 88: 2,784,997 2,800,355 90: 2,789,859 2,807,493 92: 2,777,726 2,807,494 2,816,791 93: 2,789,005 95: 2,778,671 96: 2,787,492 2,815,241 97: 2,794,669 2,809,070 99: 2,782,066 2,802,691 2,805,095 100: 2,792,253 102: 2,781,222
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294—	102:	2,794,670	296—	44:	2,797,128	299—	16:	2,783,083	299—	69:	2,778,681	299—	112:	2,792,260	301—	105:	2,798,771
		2,803,488			2,797,129		17:	2,797,962			2,782,071		114:	2,791,468			2,812,216
		2,814,523			2,797,130			2,815,981			2,784,034			2,801,134		108:	2,800,368
103:		2,784,026			2,797,958		18:	2,778,677			2,787,498			2,804,341			2,818,304
		2,801,876			2,799,529			2,780,488			2,787,499			2,812,212		111:	2,809,870
		2,803,489			2,803,492			2,785,005			2,793,911			2,815,248		131:	2,816,802
		2,816,792			2,807,498			2,805,098			2,805,889		116:	2,783,082	302—	2:	2,778,691
104:		2,789,860			2,809,862		20:	2,814,526		71:	2,792,256		117:	2,778,684			2,781,232
		2,791,462			2,810,603			2,776,166			2,816,798		118:	2,801,881			2,801,884
		2,807,495			2,811,387		24:	2,778,678		72:	2,794,680			2,806,740		3:	2,795,463
		2,812,972			2,812,207			2,779,624		73:	2,776,168			2,815,985			2,810,609
106:		2,781,223			2,813,748			2,780,489			2,792,257		120:	2,783,093		14:	2,777,736
		2,790,672			2,815,977			2,783,084			2,793,912			2,786,719			2,778,692
		2,800,356			2,817,558			2,783,085			2,799,533		121:	Re.24,353			2,793,082
		2,801,877		44: 5:	2,791,465			2,787,496			2,816,799			2,778,685			2,794,685
		2,816,793			2,795,456			2,787,496		75:	2,785,010			2,780,495			2,798,772
108:		2,806,734			2,798,761			2,794,676			2,791,462			2,785,925			2,799,540
109:		2,805,096			2,805,097			2,796,290		76:	2,807,502			2,804,342			2,811,393
110:		2,776,164		47:	2,805,886			2,801,131		78:	2,783,089		122:	2,812,980			2,818,305
		2,815,242		48:	2,805,886			2,801,879			2,787,500		126:	2,785,013		17:	2,785,928
113:		2,782,067		49: 2:	2,777,729			2,802,695			2,805,100		131:	2,806,741			2,803,601
116:		2,817,556			2,777,730			2,806,738		79:	2,788,243		134:	2,793,080			2,806,743
118:		2,781,224			2,787,494			2,809,863		82: 5:	2,817,560		136:	2,783,094			2,811,394
		2,786,709			2,789,862		25:	2,776,860		83:	2,785,011			2,795,462		19:	2,786,720
		2,789,006			2,803,493			2,781,223			2,799,534			2,797,134		22:	2,814,531
295—	11:	2,800,357		50:	2,783,080			2,785,006		84:	2,780,493			2,801,882		23:	2,785,929
	16:	2,809,071			2,797,959			2,785,007			2,781,230			2,816,800			2,800,369
296—	43:	2,784,998		51:	2,806,735			2,788,240			2,785,012		140:	2,782,074		24:	2,794,686
	1:	2,778,672			2,806,736			2,796,291			2,788,244			2,785,014		27:	2,776,171
		2,797,122		57:	2,796,287			2,798,765			2,788,245			2,789,867			2,805,895
		2,797,951		61:	2,797,960		27:	2,793,908			2,789,010			2,793,081		28:	2,780,498
		2,798,759			2,808,291			2,812,976			2,790,678			2,802,697		29:	2,785,018
		2,807,496		63:	2,798,762		28:	2,815,982			2,792,258			2,804,343			2,802,698
	3:	2,809,072		66:	2,777,731		28: 5:	2,797,963			2,795,460			2,812,213			2,804,349
	5:	2,797,123		76:	2,793,070			2,812,211			2,797,132			2,813,754			2,805,896
	12:	2,801,130			2,796,288			2,815,983			2,797,133		140: 1:	2,780,496			2,805,897
	13:	2,807,497			2,800,361		28: 6:	2,783,086			2,798,767			2,814,530			2,805,898
	14:	2,800,358			2,789,863			2,787,497			2,811,389		141:	2,785,015		35:	2,793,083
	16:	2,803,490		84:	2,783,081		28: 7:	2,804,337		86:	2,779,626			2,785,926		36:	2,784,037
	21:	2,777,727			2,793,071			2,813,750			2,779,627			2,796,297		37:	2,785,930
	22:	2,784,999			2,806,737		28: 8:	2,784,029			2,782,072			2,807,506		49:	2,779,634
	23:	2,779,621			2,816,795			2,794,677			2,783,090		144:	2,789,013			2,795,464
		2,782,068		91:	2,778,675		29:	2,776,167			2,786,716		149:	2,785,016			2,794,683
		2,783,079			2,781,227			2,780,490			2,790,679			2,794,683		50:	2,785,019
		2,784,027			2,790,676		30:	2,794,678			2,795,461			2,804,344			2,804,350
		2,786,710			2,792,254		34:	2,781,229			2,800,367		150:	2,778,686		51:	2,789,868
		2,788,238			2,816,796		39:	2,793,909			2,801,880		153:	2,778,687		52:	2,786,721
		2,790,673		93:	2,814,525			2,803,497			2,813,751		154:	2,778,688			2,789,015
		2,793,067		95:	2,777,732		43:	2,793,074			2,805,890			2,810,608			2,815,987
		2,798,760			2,778,676		46:	2,818,299		87:	2,807,503	300—	2:	2,791,469		53:	2,783,096
		2,801,878			2,783,082		47:	2,810,606		88:	2,779,628			2,797,966			2,813,755
		2,805,884			2,785,001			2,784,030			2,786,717		13:	2,804,345			2,815,987
		2,808,287			2,796,289			2,789,009			2,796,294		14:	2,818,300			2,783,097
		2,813,747			2,797,961			2,796,292			2,815,984		16:	2,784,035			2,792,262
	25:	2,810,602			2,812,208			2,800,364		88: 5:	2,782,073			2,801,135			2,793,015
	26:	2,781,225			2,815,244			2,801,132			2,785,923		21:	2,778,689			2,801,136
		2,797,124		97:	2,776,859			2,803,498			2,796,295			2,783,095			2,804,351
	28:	2,777,728			2,784,028		50:	2,788,241			2,807,504			2,812,214			2,805,102
		2,778,673			2,793,072			2,788,242			2,799,535	301—	1:	2,789,014			2,805,899
		2,778,674			2,795,457		52:	2,807,500		90:	2,783,091		5:	2,785,017			2,806,744
		2,781,226			2,802,693		55:	2,786,715		95:	2,777,735			2,801,883			2,813,756
		2,785,921			2,810,604			2,812,209			2,789,011			2,806,742			2,813,757
		2,787,493			2,812,209			2,789,865			2,797,965		6:	2,779,629			2,813,758
		2,789,007			2,813,749			2,776,861			2,802,696		9:	2,779,630			2,816,803
		2,790,674			2,815,978			2,780,491			2,806,739			2,793,913		55:	2,793,084
		2,791,463			2,818,298			2,783,087			2,811,390			2,796,298			2,793,085
		2,793,068		100:	2,807,499			2,784,031		97:	2,786,718			2,798,770			2,788,247
		2,796,286		102:	2,785,002			2,793,075			2,787,501		13:	2,779,631			2,801,137
		2,797,952			2,795,458			2,795,459			2,791,467		31:	2,805,892			2,801,885
		2,797,953			2,805,887			2,797,131			2,811,391		36:	2,807,507			2,816,804
		2,797,954		106:	2,786,712			2,800,365			2,813,752		37:	Re.24,335			2,817,561
		2,797,955			2,793,907		59:	2,776,862		102:	2,778,682			2,776,170			2,807,508
		2,799,528			2,799,530			2,779,625		104:	2,776,169			2,779,632			2,818,306
		2,800,359		107:	2,782,070			2,780,492			2,798,768			2,779,633			2,783,098
		2,802,692			2,785,003			2,784,032			2,807,505			2,790,681			2,793,086
		2,811,386			2,785,922			2,790,677			2,809,867			2,790,682			2,794,686
		2,812,973			2,794,672			2,803,499			2,814,529			2,792,261			2,801,886
		2,815,243			2,798,763			2,804,338		105:	2,790,680			2,794,684			2,812,217
		2,816,794		110:	2,776,165			2,809,073		106:	2,783,083			2,799,536			2,818,307
		2,817,557		117:	2,802,694			2,793,910			2,780,494			2,799,537			2,808,295
31:		2,814,524			2,812,975			2,805,099			2,809,074			2,799,538			2,786,722
36:		2,797,125		137:	2,815,979			2,809,864			2,811,392			2,799,539			2,784,038
		2,808,288		145:	2,785,004			2,810,607			2,794,681			2,804,346			2,805,900
		2,808,289		6:	2,803,494		61:	2,796,293			2,801,133			2,804,347			2,781,234
		2,812,974		8:	2,798,764			2,812,977			2,804,339			2,80			

303— 35: 2,796,300 2,812,984 2,812,985 38: 2,802,700 39: 2,802,701 45: 2,812,986 54: 2,812,218 60: 2,785,932 2,785,933 2,789,018 2,789,019 2,804,354 68: 2,779,635 70: 2,789,020 84: 2,814,532 304— 2: 2,778,693 2,782,075 2,794,687 2,805,901 2,818,308 5: 2,793,916 2,794,688 2,803,502 2,812,219 2,816,805 2,818,309 10: 2,800,371 11: 2,812,220 14: 2,805,902 17: 2,787,716 21: 2,814,533 24: 2,805,103 2,806,746 2,814,534 29: 2,777,737 2,778,694 2,781,236 2,786,723 2,789,869 2,790,683 2,796,299 2,806,747 2,815,250 2,815,251 30: 2,790,684 2,803,503 31.5: 2,801,886 2,802,702 2,804,355 2,805,104 2,818,310 38: 2,808,296 40: 2,808,297 2,808,298 2,810,612 2,811,395 2,813,759 2,814,535 305— 1: 2,796,301 3: 2,782,076 9: 2,779,636 2,780,500 2,786,724 2,788,248 10: Re.24,331 2,786,725 2,796,302 2,796,303 2,797,967 2,803,504 2,813,760 2,815,988 2,818,311 306— 6: 2,805,105 11: 2,800,372 12: 2,818,312 19: 2,797,968 24: 2,794,689 30: 2,815,989 2,815,990 33: 2,808,299 44: 2,792,263 307— 9: Re.24,376 2,781,456 10: 2,778,953 2,779,878 2,790,914 2,793,301 2,797,337 2,802,115 2,806,150 14: 2,808,519 17: 2,777,073 18: 2,798,166 25: 2,796,535 31: 2,802,116 34: 2,780,734 35: 2,798,968 39: 2,784,322 51: 2,817,770 52: 2,806,953 57: 2,782,322 2,782,323 2,784,323 2,791,700	307— 57: 2,791,701 2,793,302 2,800,593 2,800,594 2,800,595 2,802,952 64: 2,813,985 2,777,074 2,778,954 2,783,393 2,783,394 2,785,317 2,791,702 2,796,536 2,798,969 2,804,554 72: 2,776,379 2,784,324 81: 2,798,167 83: 2,780,735 84: 2,797,338 87: 2,777,075 2,781,457 2,785,318 2,805,348 2,817,023 2,817,024 88: Re.24,358 Re.24,387 2,776,380 2,777,076 2,777,959 2,778,955 2,782,324 2,782,325 2,786,147 2,790,915 2,792,506 2,792,507 2,794,130 2,795,706 2,796,537 2,797,339 2,798,168 2,798,169 2,800,596 2,801,344 2,801,345 2,802,953 2,806,151 2,806,152 2,808,520 2,809,302 2,809,303 2,811,652 2,812,448 2,812,449 2,812,450 2,813,207 2,814,733 2,814,734 88.5: Re.24,303 2,776,381 2,778,956 2,787,717 2,791,703 2,793,303 2,799,784 2,801,346 2,801,347 2,801,348 2,802,117 2,802,118 2,802,954 2,803,758 2,806,153 2,806,154 2,806,964 2,809,304 2,810,080 2,810,081 2,811,653 2,812,451 2,814,735 2,814,736 2,816,237 2,816,238 2,817,771 2,817,772 94: 2,779,879 95: 2,786,148 97: 2,776,382 106: 2,781,458 2,782,326 2,783,395 2,786,149 2,786,150 2,792,508 2,793,304 2,794,927 2,795,707 2,797,340 2,798,970 2,802,119 2,803,759	307— 106: 2,807,730 2,814,737 2,814,738 2,815,455 2,817,773 2,817,775 107: 2,815,456 108: 2,811,654 112: 2,776,383 2,778,957 2,789,235 2,790,093 2,797,341 2,798,170 2,799,785 2,801,349 115: 2,777,960 2,813,986 120: 2,794,131 132: 2,776,384 2,781,459 2,789,236 2,796,538 2,797,342 2,797,343 2,798,171 2,799,786 2,801,350 2,806,965 2,810,841 2,814,739 2,814,740 137: 2,817,774 140: 2,817,025 147: 2,785,319 2,786,151 2,786,152 2,797,344 2,798,172 149: 2,794,928 2,796,539 2,801,351 150: 2,780,736 2,783,396 2,808,521 154: 2,809,305 155: 2,813,987 156: 2,783,397 2,805,349 157: 2,790,094 2,812,221 3: 2,798,773 3.5: 2,776,172 2,778,695 3.6: 2,815,252 3.8: 2,794,690 2,799,541 2,801,887 2,805,106 4: 2,789,870 2,793,917 5: 2,776,173 6: 2,780,501 2,785,934 8.2: 2,787,502 9: 2,813,761 15: 2,783,100 2,803,505 2,809,077 18: 2,781,237 19: 2,815,991 23: 2,780,502 26: 2,793,087 28: 2,776,174 36: 2,805,903 36.1: 2,788,249 2,806,748 40: 2,793,918 41: 2,785,020 2,793,088 2,814,537 58: 2,785,021 59: 2,780,503 2,791,474 72: 2,781,238 2,794,691 2,795,465 2,796,304 2,797,969 2,813,762 2,814,538 76: 2,809,078 77: 2,813,763 83: 2,803,506 84: 2,797,970 2,798,774 85: 2,777,738 86: 2,776,863 2,810,613 88: 2,781,239 89: 2,812,223 90: 2,795,466	308— 91: 2,782,077 106: 2,786,726 121: 2,800,373 132: Re.24,301 2,800,374 2,802,704 134.1: 2,810,614 138: 2,788,250 2,804,356 149: 2,777,739 160: 2,778,696 2,779,637 2,783,101 2,785,022 2,788,251 2,800,375 163: 2,796,305 168: 2,804,357 172: 2,809,872 178: 2,782,078 2,812,987 2,814,539 180: 2,782,079 2,783,102 2,802,705 2,811,396 2,813,764 181: 2,783,103 183: 2,789,021 184: 2,803,507 2,804,358 187: 2,779,638 2,785,023 2,810,615 187.1: 2,779,639 2,785,024 2,807,509 2,812,224 187.2: 2,779,640 189: 2,789,871 190: 2,805,107 196: 2,779,641 201: 2,783,104 203: 2,794,692 204: 2,793,920 212: 2,794,693 2,818,313 217: 2,782,080 2,805,108 219: 2,803,508 227: 2,779,642 228: 2,798,775 236: 2,779,643 2,792,264 2,804,359 238: 2,776,175 2,806,749 2,807,510 2,815,253 240: 2,793,919 241: 2,787,503 243: 2,798,776 2,801,138 2,807,803 309— 1: 2,791,475 2,811,397 2: 2,796,306 2,798,777 2,798,778 2,804,360 2,809,873 3: 2,782,081 2,784,040 2,813,765 4: 2,776,864 2,779,644 2,780,504 2,785,025 2,793,089 2,793,921 2,802,706 2,815,992 2,817,562 6: 2,815,254 7: 2,806,750 9: 2,801,139 2,801,889 10: 2,792,265 2,795,467 11: 2,787,504 2,801,890 12: 2,790,685 2,802,707 2,802,708 13: 2,780,505 2,795,468 14: 2,776,176 2,782,082 2,782,083 2,785,935 2,787,505 2,793,922 2,793,923 2,809,079 2,815,255	309— 15: 2,783,105 2,806,751 19: 2,797,135 2,806,752 2,815,993 20: 2,818,314 22: 2,808,300 23: 2,779,645 2,781,240 2,797,971 2,801,140 2,806,753 2,807,511 2,808,301 2,808,302 2,809,080 2,815,994 24: 2,776,865 2,777,740 25: 2,817,563 29: 2,795,469 2,801,891 2,811,398 2,817,564 31: 2,797,972 32: 2,779,646 33: 2,777,741 2,783,106 2,785,026 2,815,995 34: 2,800,376 2,814,540 43: 2,778,697 2,782,084 2,785,027 44: 2,779,647 2,785,028 2,789,022 2,790,686 2,798,779 2,800,377 2,802,709 2,803,509 2,811,399 2,817,565 45: 2,785,029 2,785,030 2,789,872 2,800,378 2,804,361 2,809,081 2,815,996 310— 1: 2,791,704 3: 2,809,306 2,817,776 4: 2,777,077 5: 2,791,705 6: 2,777,078 2,781,460 2,785,320 2,797,345 2,817,777 2,818,513 7: 2,798,971 8.1: 2,784,325 2,799,787 2,806,155 2,816,239 8.2: 2,808,522 2,808,523 2,810,082 2,812,452 8.3: 2,779,880 2,799,788 8.4: 2,803,760 2,808,524 8.7: 2,788,454 8.9: 2,791,706 2,794,132 2,811,655 9: 2,799,789 9.1: 2,785,321 2,806,966 2,814,741 9.2: 2,807,731 9.4: 2,784,326 2,802,955 2,817,778 9.5: 2,795,708 9.6: 2,795,709 9.7: 2,785,322 10: 2,813,988 12: 2,794,929 14: 2,803,761 15: 2,794,133 17: 2,786,950 20: 2,790,096 22: 2,785,323 23: 2,779,881 2,786,153 2,812,453 25: 2,817,779 26: 2,814,742 2,818,514	310— 27: 2,781,461 2,789,237 2,798,972 2,810,842 29: 2,790,097 2,803,762 30: 2,787,718 32: 2,781,462 2,815,457 36: 2,784,327 39: 2,794,134 2,802,956 2,810,083 40: 2,779,882 2,815,458 41: 2,788,455 43: 2,814,744 45: 2,802,120 46: 2,792,509 2,797,346 2,812,454 49: 2,787,719 2,795,710 2,801,352 2,804,555 50: 2,779,883 2,793,305 2,807,732 54: 2,780,737 2,780,738 2,794,930 2,803,763 55: 2,780,739 57: 2,783,958 2,783,959 2,787,720 2,794,135 2,807,733 2,818,515 58: 2,787,079 59: 2,782,327 2,817,780 60: 2,798,973 2,798,974 2,801,353 2,809,307 2,810,084 2,811,656 61: 2,786,951 2,787,721 2,791,707 2,796,540 64: 2,778,959 2,779,884 2,783,399 2,788,456 2,798,975 67: 2,780,740 2,802,957 68: 2,785,324 2,794,136 2,810,843 69: 2,784,328 70: 2,806,156 71: 2,776,385 2,781,463 2,801,354 2,802,958 72: 2,811,657 76: 2,809,308 77: 2,793,306 2,802,121 2,809,309 78: 2,785,325 2,795,711 83: 2,810,844 2,812,455 86: 2,777,961 2,777,962 2,777,963 2,798,173 2,800,597 2,804,556 2,809,310 87: 2,783,400 2,786,952 2,790,916 88: 2,789,238 2,812,456 2,817,026 90: 2,781,464 2,809,311 2,817,027 91: 2,808,525 2,812,457 93: 2,776,386 2,784,329 2,785,326 2,788,457 2,796,541 2,802,122 2,803,764 2,818,516
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310— 94: 2,806,157 2,809,312 95: 2,777,964 2,811,028 96: 2,806,967 2,817,029 97: 2,798,174 102: 2,790,917 103: 2,790,095 2,806,158 2,807,734 104: 2,783,401 105: 2,777,965 112: 2,782,328 2,783,402 113: 2,778,960 2,806,159 119: 2,784,330 138: 2,782,329 152: 2,779,885 153: 2,778,961 2,786,154 2,812,458 154: 2,811,658 155: 2,798,976 2,814,745 2,816,240 156: 2,802,959 2,803,765 2,806,160 2,818,517 162: 2,784,331 2,796,542 2,810,085 163: 2,792,510 164: 2,793,307 2,804,137 2,804,537 2,814,746 166: 2,786,953 2,797,347 172: 2,807,735 2,810,745 2,810,848 2,815,459 2,815,460 177: 2,780,741 2,818,518 178: 2,786,155 179: 2,780,742 183: 2,789,239 2,815,461 184: 2,807,736 185: 2,777,080 191: 2,784,332 198: 2,795,712 2,802,123 2,812,459 202: 2,778,962 2,778,963 2,783,403 2,790,098 2,790,099 2,796,543 211: 2,781,465 2,781,466 2,784,333 2,794,138 2,802,124 212: 2,788,458 214: 2,778,964 216: 2,792,511 217: 2,783,404 2,790,918 218: 2,812,460 220: 2,800,598 224: 2,798,175 227: 2,790,100 228: 2,777,081 2,780,743 2,783,405 2,805,350 232: 2,798,977 234: 2,782,330 2,790,101 239: 2,780,744 2,794,139 246: 2,796,544 2,802,960 2,804,558 247: 2,798,176 2,813,208 254: 2,778,965 2,781,467 2,795,713 2,804,559 2,810,847 256: 2,795,714 258: 2,780,745 2,782,331 2,792,512 2,798,979 2,811,659 2,814,747 260: 2,810,848	310— 261: 2,795,715 2,810,086 265: 2,779,886 270: 2,792,513 273: 2,812,461 278: 2,812,988 311— 4: 2,783,107 2,801,141 2,815,997 5: Re.24,377 2,818,315 6: 2,790,687 2,799,542 2,816,806 7: 2,794,694 10: 2,787,506 2,801,142 11: 2,792,266 2,804,362 2,804,363 12: 2,785,031 2,809,874 16.5: 2,778,698 2,807,512 17: 2,776,177 2,783,108 2,787,507 2,797,973 2,799,543 18: 2,805,109 2,815,256 21: 2,778,699 2,787,508 2,791,476 2,792,267 2,805,904 2,818,316 2,818,317 22: 2,784,041 2,798,780 2,807,513 2,817,566 25: 2,783,109 32: 2,782,085 35: 2,779,648 2,815,998 38: 2,787,509 2,797,974 39: 2,792,268 2,799,544 2,799,545 2,805,110 2,805,905 2,809,875 2,811,401 2,812,989 2,814,541 40: 2,794,695 2,808,303 52: 2,799,546 63: 2,799,547 64: 2,782,086 71: 2,815,257 77: 2,778,700 79: 2,783,110 2,789,873 2,793,924 80: 2,791,477 82: 2,792,269 84: 2,785,936 2,808,304 85: 2,785,032 87: 2,784,042 2,817,567 89: 2,780,506 2,785,033 92: 2,777,742 2,792,270 95: 2,788,252 2,805,906 98: 2,801,143 99: 2,782,087 2,799,548 2,800,379 103: 2,785,937 2,818,318 104: 2,790,688 105: 2,799,549 106: 2,789,874 2,793,090 2,813,766 107: 2,783,111 2,786,727 2,805,907 109: 2,778,701 2,780,507 2,796,307 110: 2,783,112 2,801,144 111: 2,811,402 114: 2,809,876 312— 7: 2,783,113 2,783,114 2,793,091	312— 7: 2,798,781 2,806,754 21: 2,776,178 2,790,689 26: 2,798,782 30: 2,789,875 2,790,690 2,802,710 2,815,907 31: 2,795,470 2,801,892 2,807,514 38: 2,785,034 2,817,568 39: 2,809,082 42: 2,805,111 49: 2,818,319 71: 2,812,990 97: 2,809,083 97.1: 2,811,403 111: 2,790,691 117: 2,776,179 122: 2,811,404 129: 2,783,725 138: 2,793,925 140.2: 2,808,305 140.3: 2,784,043 2,785,938 2,797,975 2,801,893 2,812,225 184: 2,798,783 186: 2,796,308 194: 2,793,926 2,795,471 199: 2,798,784 201: 2,780,509 2,814,542 206: 2,794,696 207: 2,808,306 211: 2,796,309 214: 2,784,044 2,785,472 2,808,307 217: 2,804,364 218: 2,789,876 2,810,616 2,814,543 219: 2,793,927 223: 2,784,045 227: 2,807,515 228: 2,790,692 231: 2,808,308 233: 2,794,697 235: 2,801,894 236: 2,813,768 241: 2,810,617 2,815,999 242: 2,778,702 2,794,698 2,805,112 245: 2,779,649 2,800,380 2,805,908 246: 2,779,650 2,793,092 2,796,310 2,797,136 2,807,516 2,809,877 253: 2,803,510 255: 2,776,180 257: 2,785,035 2,798,785 2,801,895 2,806,755 2,808,309 2,809,084 2,812,991 2,813,769 259: 2,801,145 2,805,909 263: 2,803,511 265: 2,778,703 267: 2,796,311 268: 2,813,770 2,816,000 270: 2,786,729 2,813,771 2,816,809 271: 2,814,544 2,814,545 272.5: 2,812,226 273: 2,805,910 274: 2,800,381 283: 2,797,137 287: 2,811,405 289: 2,779,651 290: 2,812,227 291: 2,789,023 292: 2,793,093 293: 2,817,569	312— 295: 2,790,693 2,795,473 296: 2,811,406 2,796,308 298: 2,791,478 2,803,512 301: 2,801,146 305: 2,785,474 2,800,382 2,803,513 306: 2,790,694 307: 2,817,570 309: 2,778,704 311: 2,776,866 2,803,514 2,812,992 312: 2,789,877 2,810,618 313: 2,778,705 2,817,571 315: 2,786,730 316: 2,778,706 317: 2,790,695 319: 2,779,652 2,784,046 2,796,312 2,799,550 320: 2,805,911 323: 2,788,253 2,809,085 2,809,086 325: 2,783,115 2,808,310 326: 2,779,653 327: 2,785,036 328: 2,784,047 333: 2,789,024 336: 2,780,510 342: 2,789,025 347: 2,785,939 348: 2,785,940 351: 2,790,696 2,791,479 2,811,407 313— 7: 2,795,716 2,817,030 11.5: 2,793,308 2,785,327 25: 2,802,961 2,806,968 30: 2,813,209 32: 2,790,102 2,802,125 2,816,241 2,817,031 36: 2,788,459 43: 2,777,082 45: 2,810,849 50: 2,802,126 54: 2,789,240 2,790,919 2,804,573 2,810,850 2,811,660 55: 2,791,708 2,798,177 60: 2,813,210 61: 2,789,241 2,793,309 2,809,313 2,816,242 62: 2,798,178 2,803,766 2,812,463 63: 2,786,156 2,806,161 2,809,314 2,816,243 2,817,032 64: 2,806,162 65: 2,776,387 2,792,514 2,798,179 2,802,962 2,802,963 2,804,560 2,804,561 2,809,315 2,810,087 2,817,781 66: 2,779,887 67: 2,782,332 2,813,989 68: 2,785,328 69: 2,781,468 2,784,334 2,785,329 2,790,103 70: 2,782,333 2,793,310 2,783,406 2,803,768 2,806,163	313— 70: 2,807,737 71: 2,808,526 72: 2,776,388 2,807,738 73: 2,813,211 74: 2,796,545 75: 2,806,164 76: 2,793,311 2,795,717 2,805,351 2,813,212 2,817,782 77: 2,791,709 2,803,769 2,816,244 78: 2,777,083 2,791,710 2,796,546 2,801,355 2,811,661 2,813,213 2,813,214 80: 2,776,389 2,777,084 82: 2,778,966 2,782,334 2,792,515 2,793,312 2,798,180 2,806,165 2,807,739 2,808,527 2,810,851 2,813,215 2,817,033 2,818,519 84: 2,782,335 2,785,330 2,790,920 2,791,711 2,801,356 2,803,770 2,807,740 2,817,034 85: 2,794,931 2,795,718 2,795,719 2,795,720 2,813,990 2,817,035 89: 2,815,462 92: 2,781,469 2,785,331 2,790,921 2,802,964 2,806,969 93: 2,777,390 2,789,242 2,812,464 94: 2,796,547 2,813,991 95: 2,791,712 2,818,520 96: 2,792,516 102: 2,779,888 2,794,140 103: 2,802,127 105: 2,790,922 2,800,599 2,807,741 106: 2,777,085 107: 2,788,460 107.5: 2,799,790 2,802,128 2,805,352 108: 2,809,316 2,817,783 109: 2,780,746 2,783,407 2,802,129 2,806,970 2,814,748 109.5: 2,779,889 2,783,408 110: 2,802,130 112: 2,781,470 2,784,335 2,795,721 113: 2,818,521 114: 2,799,791 115: 2,791,713 2,791,714 2,814,749 117: 2,795,722 130: 2,803,771 2,815,463 131: 2,790,104 136: 2,798,980 2,806,971 141: 2,783,409 2,795,723 146: 2,817,036 147: 2,804,562 148: 2,778,967	313— 148: 2,786,955 149: 2,779,890 2,799,792 157: 2,803,772 2,803,773 161: 2,776,391 2,798,181 2,803,774 2,813,992 171: 2,776,392 174: 2,781,471 2,792,517 2,806,166 2,813,216 178: 2,788,461 2,794,932 180: 2,791,715 2,804,564 184: 2,803,775 185: 2,804,565 188: 2,780,747 189: 2,793,313 191: 2,777,966 193: 2,777,086 2,800,600 2,792,131 2,793,312 2,805,353 2,805,354 2,813,217 194: 2,797,348 196: 2,782,336 197: 2,791,716 198: 2,790,923 2,795,724 199: 2,787,722 201: 2,780,748 2,794,141 2,800,601 204: 2,786,956 205: 2,788,462 207: 2,812,465 218: 2,793,314 219: 2,803,776 226: 2,809,317 243: 2,784,336 245: 2,794,933 246: 2,783,410 247: 2,814,750 2,814,751 248: 2,804,566 249: 2,813,218 250: 2,782,337 252: 2,813,219 257: 2,808,528 261: 2,778,968 2,777,723 2,802,132 2,811,662 263: 2,797,349 266: 2,784,337 268: 2,818,522 270: 2,814,752 273: 2,784,338 2,790,924 276: 2,804,567 278: 2,814,753 279: 2,813,993 285: 2,796,548 289: 2,808,529 292: 2,778,969 299: 2,782,338 300: 2,796,549 301: 2,815,464 303: 2,789,243 308: 2,805,355 312: 2,799,793 2,804,568 313: 2,801,357 315: 2,805,356 317: 2,812,466 318: 2,799,794 2,799,795 2,802,133 325: 2,795,725 326: 2,802,134 328: 2,785,332 330: 2,797,350 332: 2,810,852 337: 2,778,970 2,815,465 339: 2,810,088 2,810,089 2,810,090 340: 2,798,182 2,813,994 2,817,784 346: 2,786,957 2,808,530 2,808,531 2,813,220 2,813,995 2,814,754 350: 2,794,934
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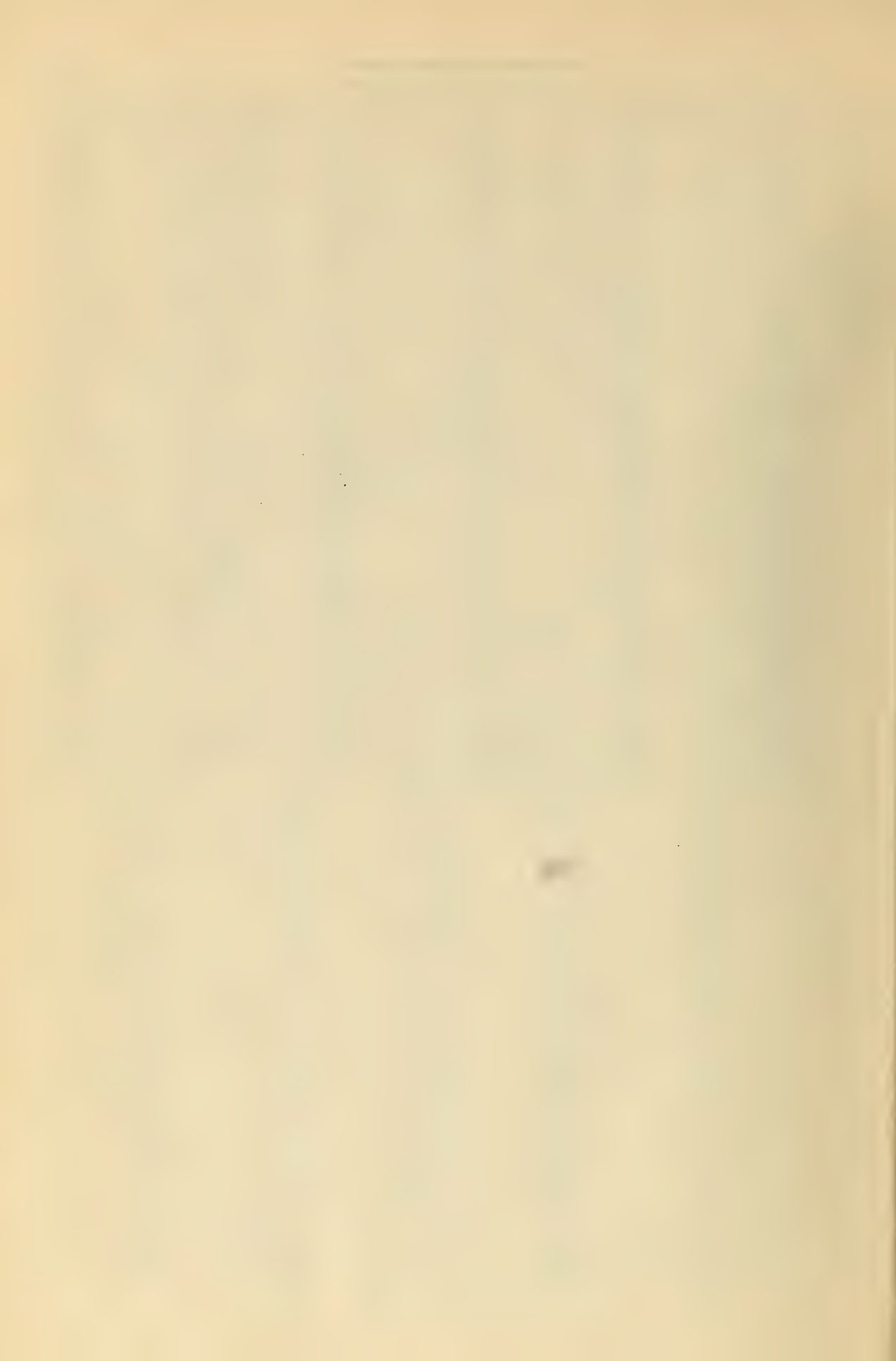
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	356: 2,795,726		5.18: 2,785,334		2,787,727	39.71:	2,787,728		2,796,556		16: 2,802,150
	2,799,796		2,789,249		2,788,468		2,818,528		2,798,187		2,812,476
314—	20: 2,786,958		2,790,106		2,790,931	39.73:	2,785,341		2,799,806		17: 2,791,728
	2,785,357		5.19: 2,798,184		2,801,363		2,799,803		2,802,146		18: 2,789,255
	26: 2,785,353		5.21: 2,789,250		2,801,364		2,810,095		2,803,784		19: 2,803,785
	39: 2,797,352		2,790,928		2,802,967		2,810,096		2,806,181		20: 2,802,151
	69: 2,783,411		2,806,977		2,804,571	39.77:	2,815,469		2,818,531		22: 2,785,345
	2,790,925		2,815,467		2,808,537	40:	2,792,524		2,785,342		2,792,529
	2,806,167		2,816,245		2,812,472		2,794,151	168:	2,792,527		2,792,530
	71: 2,794,142		5.22: 2,807,745		2,813,225		2,803,782		2,793,323		2,802,152
	72: 2,789,244		5.23: 2,798,982		2,818,526	41:	2,783,414		2,793,324		2,806,182
	73: 2,789,245		5.37: 2,792,520		2,817,043		2,799,804		2,796,557		25: 2,776,393
	2,805,358		5.38: 2,809,322		2,817,044		2,803,783		2,797,368		27: 2,806,183
	2,806,168		5.39: 2,779,892		2,778,972	43:	2,779,895		2,812,474		28: 2,777,093
	2,809,319		2,785,335		2,779,894	44:	2,795,735	169:	2,780,751		2,804,577
	78: 2,788,463		5.42: 2,813,996		2,786,961	46:	2,786,158		2,782,343		2,806,184
315—	3.5: 2,779,891		5.44: 2,793,316		2,793,320	47:	2,784,347		2,796,558		31: 2,811,675
	2,781,472		5.46: 2,813,997		2,793,321	48:	2,777,091	171:	2,777,973		36: 2,797,369
	2,784,339		5.51: 2,807,746		2,800,607	49:	2,797,363		2,794,152		2,803,786
	2,784,340		8: 2,810,091		2,807,750		2,811,671		2,784,349		2,804,578
	2,786,959		8.5: 2,796,551		2,817,787	58:	2,813,226	176:	2,787,732		2,809,330
	2,788,464		2,802,138		2,803,781	60:	2,786,954		2,798,984	46:	2,804,579
	2,788,465		2,807,747		2,784,343	72:	2,790,933	180:	2,790,935	54:	2,803,787
	2,789,246		2,807,748		2,790,932	77:	2,790,934	182:	2,785,337	58:	2,792,531
	2,790,105		2,808,325		2,809,325	80:	2,784,348	188:	2,795,738	59:	2,812,477
	2,790,926		2,811,665		2,777,089		2,802,142	189:	2,787,733	61:	2,777,094
	2,791,717		2,812,471		2,778,973	82:	2,791,721	201:	2,782,344		2,789,254
	2,791,718		9: 2,798,978		2,780,749	83:	2,779,896	204:	2,800,611	66:	2,777,095
	2,792,518		10: 2,786,960		2,781,475		2,786,962	209:	2,802,147	69:	2,777,096
	2,792,519		2,790,107		2,784,344		2,786,963	212:	2,779,898		2,799,808
	2,794,143		2,792,521		2,790,108		2,786,964	219:	Re.24,342	83:	2,799,809
	2,794,144		2,803,779		2,791,719		2,795,736	226:	2,814,763		2,810,866
	2,794,145		2,806,978		2,792,523		2,796,553	230:	2,794,939		2,811,676
	2,794,935		2,809,323		2,793,322		2,797,364	231:	2,816,251	89:	2,799,810
	2,796,550		2,816,246		2,794,148		2,806,180	234:	2,818,532	96:	2,776,394
	2,797,353		2,817,041		2,794,149		2,806,980	235:	2,802,968	99:	2,790,111
	2,798,183		2,817,785		2,795,733		2,807,752	239:	2,791,726		2,795,739
	2,798,981		11: 2,777,970		2,795,734		2,808,539	240:	2,780,752		2,802,970
	2,799,797		2,786,157		2,796,552		2,810,097		2,805,366		2,811,677
	2,800,602		2,805,359		2,797,358		2,814,000	246:	2,790,936	100:	2,796,559
	2,800,603		2,805,360		2,797,359		2,818,529		2,793,325	101:	2,778,977
	2,800,604		12: 2,777,087		2,799,798	84.5:	2,790,109	248:	2,794,153		2,783,416
	2,800,605		2,777,971		2,799,799		2,792,525	251:	2,785,343		2,786,969
	2,801,358		2,778,971		2,799,800		2,798,983	252:	2,777,092		2,787,735
	2,801,359		2,779,893		2,800,608		2,801,369		2,780,753		2,788,470
	2,801,360		2,787,724		2,801,365		2,801,370		2,792,528		2,788,471
	2,802,135		2,788,466		2,801,366		2,805,363	257:	2,793,326		2,794,940
	2,803,777		2,788,467		2,802,140		2,810,098	259:	2,807,753		2,803,788
	2,804,569		2,790,929		2,804,572		2,814,762		2,807,754		2,816,252
	2,806,169		2,792,522		2,806,176		2,816,249	260:	2,818,533		2,816,253
	2,806,170		2,794,937		2,809,326	84.6:	2,783,415	273:	2,798,985	103:	2,790,112
	2,806,171		2,795,727		2,809,327		2,785,355	284:	2,786,968		2,791,729
	2,806,972		2,802,966		2,810,093		2,787,729	347:	2,791,727		2,814,002
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	2,807,742		2,804,570		2,814,758		2,792,526		2: 2,783,116	112:	2,802,971
	2,807,743		2,806,173		2,814,759		2,810,099		6: 2,817,572	113:	2,784,354
	2,808,532		2,806,174		2,814,760		2,810,861		8: 2,783,117		2,802,972
	2,808,533		2,806,175		2,816,247		2,814,001		9: 2,809,087	119:	2,786,162
	2,808,534		2,810,092		2,817,788		2,815,470		11: 2,777,743		2,790,113
	2,809,320		2,810,857		2,786,592		2,816,250		19: 2,787,510	120:	2,794,155
	2,810,853		2,811,666		30: 2,782,340		2,809,329		2,791,480		2,800,613
	2,811,663		2,813,223		32: 2,799,801		2,805,364		2,792,271	123:	2,786,970
	2,812,467		2,813,998		36: 2,778,974		2,810,862		2,792,272		2,787,736
	2,812,468		2,817,042		2,807,751		2,778,976		2,794,699		2,787,737
	2,812,469		2,818,523		2,818,527		2,786,159		2,796,313		2,792,532
	2,812,470		2,818,524		39: 2,777,972		2,806,981		2,813,772		2,794,941
	2,813,221		13: 2,781,473		2,782,341		2,796,554		20: 2,792,273		2,798,987
	2,813,222		2,795,728		2,785,338		2,810,100		22: 2,798,786		2,801,371
	2,814,755		2,795,729		2,785,339		2,797,365		2,800,383		2,801,372
	2,817,037		2,798,185		2,791,720		2,802,143		2,812,228		2,802,153
	2,817,038		2,802,139		2,798,186		2,808,540		25: 2,807,517		2,802,154
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	2,817,040		15: 2,783,412		2,817,045		2,800,610		30: 2,812,993	127:	2,781,477
	3.6: 2,789,247		2,785,336		39.3: 2,787,734		2,799,805		2,818,320	130:	2,777,097
	2,790,927		2,811,667		2,797,360		2,813,227		32: 2,812,994		2,787,738
	2,793,315		16: 2,783,413		2,802,141		2,796,555	317—	2: 2,785,344		2,813,230
	2,794,936		17: 2,811,668		2,806,177		2,786,161		2,786,161		2,792,533
	2,800,606		20: 2,787,725		2,808,538		2,787,730		2,802,148		2,811,678
	2,801,361		2,789,251		2,809,328		2,791,722		2,811,674		2,784,355
	2,802,136		2,807,749		2,811,673		2,791,723		2,817,792		2,787,739
	2,806,974		2,808,536		2,812,473		2,805,365		2,818,534	133.5:	2,784,356
	2,806,975		2,810,858		39.51: 2,805,361		2,818,530		3: 2,784,350	136:	2,780,754
	2,807,744		21: 2,777,088		2,810,094		2,787,731		2,784,351		2,787,740
	2,809,321		2,781,474		39.53: 2,817,789		2,788,469		5: 2,793,327		2,792,534
	2,810,854		2,784,341		2,817,790		2,789,252		6: 2,798,986	137:	2,778,978
	2,810,855		2,784,342		39.55: 2,816,248		2,794,938		9: 2,793,328		2,790,114
	2,811,664		2,790,930		2,781,476		2,797,366		2,804,576	139:	2,787,741
	2,814,756		2,793,317		39.57: 2,782,342		2,813,228		2,807,755		2,789,256
	2,815,466		2,793,318		39.59: 2,814,761		2,786,160		11: 2,782,345		2,813,231
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	4: 2,782,339		2,794,147		2,799,802		2,817,791		2,789,253	141:	2,779,899
	2,797,354		2,795,730		2,800,609		151: 2,779,897		2,802,149		2,799,811
	2,797,355		2,795,731		2,801,367		153: 2,791,724		2,810,864		2,801,373
	5: 2,777,967		2,795,732		2,801,368		156: 2,795,737		2,812,475	142:	2,776,395
	2,777,968		2,797,356		2,805,362		157: 2,804,574		2,792,142		2,781,478
	2,777,969		2,797,357		2,806,178		159: 2,802,144		2,794,154		2,785,346
	2,789,248		2,806,979		2,811,670		2,810,863		2,799,807		2,790,115
	2,802,137		2,809,324		39.63: 2,784,345		162: 2,797,367		2,810,865		2,791,730
5.12: 2,803,778			2,810,859		2,784,346		163: 2,786,966		13: 2,784,353		2,792,535
5.13: 2,810,856			2,811,669		39.65: 2,797,361		2,786,967		2,802,969		

317— 148: 2,777,098	317— 235: 2,779,901	318— 28: 2,788,476	318— 149: 2,779,905	318— 331: 2,778,983	321— 18: 2,817,804
148.5: 2,807,758	2,779,902	2,788,477	2,786,974	2,782,356	19: 2,790,127
149: 2,781,479	2,779,903	2,790,943	2,809,336	2,785,368	2,802,166
2,784,156	2,787,744	2,790,944	2,777,978	2,807,768	2,809,341
2,799,812	2,789,257	2,790,945	154: 2,788,450	2,814,012	2,810,876
2,806,185	2,790,118	2,792,541	158: 2,788,450	332: 2,804,584	2,810,877
2,794,157	2,792,538	2,792,542	162: 2,806,986	2,804,584	2,816,261
151: 2,788,473	2,792,539	2,795,749	170: 2,802,161	338: 2,783,427	2,817,055
152: 2,787,742	2,792,540	2,796,566	171: 2,783,426	2,802,977	2,790,128
155.5: 2,801,374	2,793,331	2,805,373	2,791,734	341: 2,815,477	2,776,398
2,805,368	2,793,332	2,807,763	2,796,571	343: 2,796,373	38: 2,800,622
157: 2,806,186	2,793,333	2,808,548	173: 2,782,352	345: 2,780,763	40: 2,799,000
157.5: 2,810,867	2,793,334	2,808,549	175: 2,803,792	346: Re.24,308	45: 2,805,380
157.6: 2,793,330	2,793,335	2,810,874	2,809,337	348: 2,786,173	48: 2,777,108
2,796,560	2,793,336	2,812,482	2,785,364	349: 2,793,195	2,777,982
2,812,478	2,793,337	2,812,483	2,795,750	355: 2,811,685	2,782,359
158: 2,777,099	2,793,338	2,813,236	2,777,105	358: 2,802,162	2,797,380
2,790,937	2,793,339	2,814,005	2,780,762	369: 2,810,875	2,797,381
2,797,370	2,793,340	2,814,006	2,789,263	371: 2,804,585	2,799,001
2,810,868	2,793,341	2,815,476	2,804,582	372: 2,804,586	2,800,623
2,810,869	2,793,342	2,816,256	2,813,238	377: 2,815,542	2,806,196
2,816,254	2,793,343	2,817,801	2,779,906	379: 2,784,366	2,811,687
159: 2,784,357	2,793,344	2,780,760	2,816,258	397: 2,787,750	2,817,805
2,790,116	2,793,345	2,781,482	2,791,735	414: 2,805,378	49: 2,785,372
2,795,740	2,793,346	2,782,347	2,808,552	443: 2,783,428	2,790,129
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162: 2,807,759	2,793,348	2,786,170	2,784,364	445: 2,804,587	2,811,688
163: 2,790,938	2,793,349	2,786,171	2,805,376	448: 2,786,174	2,796,579
164: 2,813,232	2,793,350	2,786,172	2,793,338	449: 2,812,485	2,787,754
165: 2,802,156	2,793,351	2,786,173	2,779,907	460: 2,802,163	2,790,130
2,814,764	2,793,352	2,786,174	2,792,544	466: 2,786,175	2,790,131
166: 2,816,255	2,793,353	2,806,188	2,810,104	2,783,428	58: 2,777,983
167: 2,811,680	2,793,354	2,815,474	2,818,540	2,805,379	68: 2,787,755
2,815,471	2,793,355	2,818,536	2,781,484	467: 2,783,429	744,164
172: 2,817,796	2,793,356	2,818,537	2,781,485	2,792,545	322— 2: 2,792,546
176: 2,786,163	2,793,357	2,786,175	2,786,172	2,796,574	2,799,002
2,797,371	2,793,358	2,791,736	2,791,736	2,802,978	16: 2,797,382
177: 2,779,900	2,793,359	2,794,161	2,798,192	2,808,557	17: 2,805,381
178: 2,785,347	2,793,360	2,807,765	2,808,553	2,812,486	19: 2,804,589
182: 2,797,372	2,793,361	2,808,555	2,808,555	2,814,013	24: 2,791,740
185: 2,798,188	2,793,362	2,808,556	2,813,239	2,815,478	2,793,342
188: 2,796,561	2,793,363	2,808,557	2,813,240	2,816,259	25: 2,777,984
189: 2,794,158	2,793,364	2,808,558	2,813,241	2,817,797	2,783,432
191: 2,780,755	2,793,365	2,808,559	2,813,242	2,794,944	2,794,947
2,803,789	2,793,366	2,808,560	2,813,243	2,796,575	2,806,990
2,803,790	2,793,367	2,808,561	2,813,244	2,807,769	2,801,380
2,812,479	2,793,368	2,808,562	2,813,245	2,785,369	2,808,558
197: 2,790,939	2,793,369	2,808,563	2,813,246	2,798,999	2,781,486
2,800,614	2,793,370	2,808,564	2,813,247	489: 2,778,984	2,803,795
198: 2,780,756	2,793,371	2,808,565	2,813,248	2,796,176	32: 2,801,381
2,786,164	2,793,372	2,808,566	2,813,249	2,791,738	36: 2,781,487
2,792,536	2,793,373	2,808,567	2,813,250	2,793,341	39: 2,777,985
2,807,760	2,793,374	2,808,568	2,813,251	2,796,576	42: Re.24,309
2,811,681	2,793,375	2,808,569	2,813,252	2,797,379	47: 2,805,382
2,814,765	2,793,376	2,808,570	2,813,253	2,803,794	49: 2,796,580
200: 2,785,348	2,793,377	2,808,571	2,813,254	2,809,340	50: 2,807,772
2,787,743	2,793,378	2,808,572	2,813,255	2,812,487	66: 2,785,373
2,790,117	2,793,379	2,808,573	2,813,256	2,817,053	323— 2: 2,817,806
2,799,813	2,793,380	2,808,574	2,813,257	490: 2,817,053	4: 2,790,132
2,800,615	2,793,381	2,808,575	2,813,258	491: 2,780,764	2,807,773
201: 2,786,971	2,793,382	2,808,576	2,813,259	547: 2,807,770	2,807,776
230: 2,778,979	2,793,383	2,808,577	2,813,260	1: 2,813,241	9: 2,802,167
2,786,165	2,793,384	2,808,578	2,813,261	2: 2,780,765	15: 2,816,262
2,798,988	2,793,385	2,808,579	2,813,262	3: 2,818,543	18: 2,776,399
2,800,616	2,793,386	2,808,580	2,813,263	4: 2,780,766	2,800,624
2,806,982	2,793,387	2,808,581	2,813,264	5: 2,787,752	2,802,168
2,808,542	2,793,388	2,808,582	2,813,265	12: 2,802,164	21: 2,808,559
2,809,331	2,793,389	2,808,583	2,813,266	14: 2,782,357	22: 2,776,400
232: 2,802,157	2,793,390	2,808,584	2,813,267	28: 2,777,980	2,782,361
234: 2,777,100	2,793,391	2,808,585	2,813,268	31: 2,783,430	2,783,433
2,777,974	2,793,392	2,808,586	2,813,269	36: 2,802,980	2,790,133
2,777,975	2,793,393	2,808,587	2,813,270	40: 2,796,577	2,797,383
2,780,757	2,793,394	2,808,588	2,813,271	2,802,165	2,806,197
2,780,758	2,793,395	2,808,589	2,813,272	321— 1.5: 2,794,946	2,807,774
2,780,759	2,793,396	2,808,590	2,813,273	2: 2,780,767	2,808,560
2,781,480	2,793,397	2,808,591	2,813,274	2,783,431	2,810,105
2,783,417	2,793,398	2,808,592	2,813,275	2,784,367	2,813,244
2,783,418	2,793,399	2,808,593	2,813,276	2,785,370	2,814,772
2,785,349	2,793,400	2,808,594	2,813,277	2,787,753	23: 2,806,198
2,786,166	2,793,401	2,808,595	2,813,278	2,790,947	30: 2,791,741
2,786,167	2,793,402	2,808,596	2,813,279	2,791,739	42: 2,790,134
2,788,474	2,793,403	2,808,597	2,813,280	2,795,752	43.5: 2,780,768
2,790,940	2,793,404	2,808,598	2,813,281	2,806,988	2,784,368
2,791,731	2,793,405	2,808,599	2,813,282	2,806,989	44: 2,805,383
2,792,537	2,793,406	2,808,600	2,813,283	2,811,686	45: 2,782,362
2,796,562	2,793,407	2,808,601	2,813,284	2,813,242	2,818,544
2,799,814	2,793,408	2,808,602	2,813,285	2,815,479	47: 2,778,986
2,799,815	2,793,409	2,808,603	2,813,286	2,817,054	2,812,488
2,801,375	2,793,410	2,808,604	2,813,287	2,817,803	48: 2,811,689
2,802,158	2,793,411	2,808,605	2,813,288	8: 2,777,107	50: 2,779,908
2,803,791	2,793,412	2,808,606	2,813,289	2,777,981	2,782,363
2,804,580	2,793,413	2,808,607	2,813,290	2,800,620	2,796,581
2,806,187	2,793,414	2,808,608	2,813,291	11: 2,785,371	52: 2,801,382
2,807,761	2,793,415	2,808,609	2,813,292	12: 2,813,243	56: 2,777,986
2,810,870	2,793,416	2,808,610	2,813,293	14: 2,807,771	2,790,948
2,810,871	2,793,417	2,808,611	2,813,294	16: 2,782,358	2,791,742
2,810,872	2,793,418	2,808,612	2,813,295	2,789,266	2,800,625
2,815,472	2,793,419	2,808,613	2,813,296	2,804,588	2,802,981
2,815,473	2,793,420	2,808,614	2,813,297	18: 2,801,379	58: 2,776,401
2,817,046	2,793,421	2,808,615	2,813,298	2,814,014	2,813,245
2,817,047	2,793,422	2,808,616	2,813,299	2,816,260	60: 2,806,199
2,817,048	2,793,423	2,808,617	2,813,300		
2,817,049	2,793,424	2,808,618	2,813,301		
2,817,797	2,793,425	2,808,619	2,813,302		
235: 2,777,101	2,793,426	2,808,620	2,813,303		
2,778,980	2,793,427	2,808,621	2,813,304		
	2,793,428	2,808,622	2,813,305		
	2,793,429	2,808,623	2,813,306		
	2,793,430	2,808,624	2,813,307		
	2,793,431	2,808,625	2,813,308		
	2,793,432	2,808,626	2,813,309		
	2,793,433	2,808,627	2,813,310		
	2,793,434	2,808,628	2,813,311		
	2,793,435	2,808,629	2,813,312		
	2,793,436	2,808,630	2,813,313		
	2,793,437	2,808,631	2,813,314		
	2,793,438	2,808,632	2,813,315		
	2,793,439	2,808,633	2,813,316		
	2,793,440	2,808,634	2,813,317		
	2,793,441	2,808,635	2,813,318		
	2,793,442	2,808,636	2,813,319		
	2,793,443	2,808,637	2,813,320		
	2,793,444	2,808,638	2,813,321		
	2,793,445	2,808,639	2,813,322		
	2,793,446	2,808,640	2,813,323		
	2,793,447	2,808,641	2,813,324		
	2,793,448	2,808,642	2,813,325		
	2,793,449	2,808,643	2,813,326		
	2,793,450	2,808,644	2,813,327		
	2,793,451	2,808,645	2,813,328		
	2,793,452	2,808,646	2,813,329		
	2,793,453	2,808,647	2,813,330		
	2,793,454	2,808,648	2,813,331		
	2,793,455	2,808,649	2,813,332		
	2,793,456	2,808,650	2,813,333		
	2,793,457	2,808,651	2,813,334		
	2,793,458	2,808,652	2,813,335		
	2,793,459	2,808,653	2,813,336		
	2,793,460	2,808,654	2,813,337		
	2,793,461	2,808,655	2,813,338		
	2,793,462	2,808,656	2,813,339		
	2,793,463	2,808,657	2,813,340		
	2,793,464	2,808,			

323—	60: 2,817,057 61: 2,805,384 63: 2,814,015 66: 2,777,109 2,780,769 2,786,177 2,791,743 2,798,196 2,801,383 2,805,385 2,810,106 2,810,107 2,814,773 2,816,263 68: 2,806,200 71: 2,779,909 74: 2,777,110 2,786,976 75: 2,812,489 2,814,016 2,815,480 79: 2,784,369 2,799,821 80: 2,787,756 89: 2,778,987 2,779,910 2,779,911 2,780,770 2,780,771 2,780,772 2,780,135 2,790,136 2,792,547 2,794,165 2,795,753 2,795,754 2,799,822 2,800,626 2,802,169 2,802,982 2,807,775 2,807,776 2,809,342 2,809,343 2,813,246 2,817,807 2,818,545 92: 2,802,170 109: 2,791,744 122: 2,794,948 123: 2,778,988 124: 2,805,386 126: 2,813,247 127: 2,802,171 128: 2,799,823 2,810,108 1: Re. 24,280 2,776,402 2,777,111 2,779,912 2,779,913 2,782,364 2,785,374 2,786,178 2,787,757 2,787,758 2,787,759 2,790,137 2,790,003 2,790,004 2,803,795 2,805,201 2,812,490 2,813,248 2,813,249 2,814,017 3: 2,807,777 4: 2,779,914 2,784,370 6: 2,785,483 2,790,138 2,794,949 8: 2,777,112 10: 2,779,915 13: 2,781,488 2,802,172 2,802,173 15: 2,801,384 16: 2,787,760 2,791,745 2,817,058 19: 2,809,344 20: 2,777,113 2,793,343 2,794,950 2,799,824 2,799,825 2,801,385 2,805,387 22: 2,784,371 2,795,755 2,796,582 2,801,386 23: 2,784,372	324—	23: 2,787,761 26: 2,804,590 27: 2,790,139 28: 2,785,375 2,805,388 2,805,389 2,807,778 2,817,059 29: 2,803,797 29.5: 2,791,749 30: 2,778,989 2,778,990 2,780,773 2,786,977 2,795,756 2,796,583 2,802,174 2,810,879 33: 2,784,373 2,790,949 2,797,385 2,801,387 2,806,991 2,814,018 34: Re. 24,359 2,778,991 2,779,916 2,780,774 2,782,365 2,790,950 2,793,344 2,794,951 2,795,757 2,797,386 2,806,992 2,810,880 2,811,690 2,814,019 2,817,808 2,817,809 37: 2,790,140 2,817,060 40: 2,779,917 2,805,390 2,809,346 41: 2,788,484 2,794,166 43: 2,776,403 2,786,179 2,788,485 2,802,983 2,803,798 2,806,202 2,809,345 47: 2,776,404 51: 2,777,988 2,778,992 2,788,486 2,804,591 2,806,203 2,806,993 2,809,347 2,810,109 2,810,881 2,814,774 52: 2,783,434 2,800,627 2,807,779 2,794,167 53: 2,794,168 54: 2,794,169 2,794,170 2,802,175 2,802,176 2,805,391 2,809,348 2,809,349 2,812,491 2,815,481 55: 2,808,561 56: 2,802,984 57: 2,777,114 2,780,775 2,782,366 2,783,435 2,784,374 2,784,375 2,789,267 2,790,141 2,790,142 2,794,952 2,802,177 2,808,562 2,812,492 2,817,810 2,817,811 58: 2,778,993 2,786,180 2,790,143 2,797,387 2,806,994 2,813,250 2,817,812 2,818,546 2,818,547	324— 58.5: 2,792,548 2,797,388 2,798,197 2,810,882 2,817,813 60: 2,777,989 2,791,750 61: 2,782,367 2,786,181 2,788,487 2,800,628 2,802,178 2,804,592 2,806,204 62: 2,782,368 2,784,376 2,798,198 2,798,199 2,800,629 2,801,388 2,805,392 2,815,482 2,816,264 63: 2,778,994 2,779,918 2,780,776 2,803,799 64: 2,778,995 65: 2,782,369 2,804,593 2,805,563 2,811,691 66: 2,789,268 2,806,995 2,807,780 67: 2,802,179 68: 2,805,393 2,806,205 2,812,493 70: 2,785,376 2,786,978 71: 2,793,345 2,794,171 2,794,953 72: 2,782,370 2,802,180 2,815,483 72.5: 2,779,919 2,790,144 2,806,206 2,817,814 73: 2,776,405 2,780,777 2,815,484 74: 2,788,488 77: 2,785,377 2,796,584 2,803,800 2,803,801 2,817,815 78: 2,790,145 2,807,783 2,810,883 79: Re. 24,407 2,777,990 2,793,346 2,794,954 2,802,985 2,814,775 80: 2,779,920 81: 2,813,251 82: 2,808,564 85: 2,787,762 86: 2,816,265 87: 2,780,778 2,781,489 88: 2,815,485 2,816,266 89: 2,793,347 95: 2,799,826 2,802,986 2,810,884 2,814,776 98: 2,802,181 99: 2,780,779 2,806,207 101: 2,785,378 102: 2,778,996 2,779,921 103: 2,776,406 106: 2,805,394 107: 2,778,997 109: 2,780,780 2,794,955 111: 2,781,490 2,791,746 117: 2,780,781 2,795,759 2,802,182 121: 2,812,494 122: 2,788,490 2,808,565	324— 123: 2,789,269 2,791,747 2,799,005 2,806,208 127: 2,800,630 2,808,566 129: 2,783,437 131: 2,788,491 2,817,816 137: 2,785,379 2,807,782 2,813,252 138: 2,813,253 140: 2,790,146 2,798,200 142: 2,817,817 143: 2,778,998 144: 2,802,987 149: 2,791,748 150: 2,802,988 151: 2,808,567 155: 2,777,991 2,782,371 2,790,951 2,792,549 158: 2,776,407 2,779,922 2,787,763 2,790,952 2,799,827 2,802,989 2,804,594 2,809,350 2,811,692 332— 1: 2,789,270 2,798,201 2,814,777 2,814,778 2,815,486 2: 2,809,318 2,815,487 2,817,819 2,818,548 4: 2,810,885 5: 2,785,380 2,795,780 2,799,828 2,808,568 2,817,820 2,817,821 7: 2,795,762 2,809,352 2,814,779 9: 2,782,372 2,797,389 2,804,595 2,806,209 2,806,996 2,811,693 2,812,495 11: 2,782,373 2,787,764 2,790,953 2,806,997 2,807,783 2,816,267 2,817,061 12: 2,780,782 14: 2,812,496 19: 2,778,999 2,781,491 2,782,374 2,794,956 20: 2,803,802 23: 2,784,377 24: 2,777,992 2,781,492 2,805,395 27: 2,814,020 28: 2,782,375 2,790,147 2,794,957 37: 2,808,569 38: 2,788,492 2,811,694 39: 2,816,268 40: 2,786,182 2,793,348 41: 2,793,349 43: 2,788,493 2,798,202 2,804,596 2,814,780 44: 2,802,183 45: 2,796,585 47: 2,799,829 2,805,396 51: 2,782,376 2,784,378 2,795,753 52: 2,780,783 2,795,762	332—	52: 2,805,397 2,810,110 2,815,488 2,817,062 68: 2,801,389 2: 2,805,398 6: 2,779,000 2,791,751 2,798,204 2,805,399 2,814,781 7: 2,784,379 2,786,979 2,788,494 2,798,205 2,802,990 2,809,354 2,810,886 2,813,254 2,814,783 2,816,269 8: 2,776,408 2,777,115 9: 2,784,380 2,786,980 2,797,390 2,801,390 2,816,270 10: 2,779,001 2,792,550 2,794,958 2,794,959 2,804,597 2,812,497 2,814,784 11: 2,817,063 2,784,381 2,789,271 2,790,148 2,792,551 2,794,172 2,801,391 2,806,210 2,818,549 13: 2,776,409 2,777,993 2,781,493 2,789,272 2,801,392 2,816,272 16: 2,777,994 17: 2,786,183 2,811,695 19: 2,794,173 20: 2,783,438 2,790,954 21: 2,779,923 2,787,765 2,797,391 2,800,632 2,802,991 2,815,489 22: 2,777,995 2,779,002 2,804,598 2,809,355 23: 2,816,273 24: 2,780,784 2,790,955 2,794,960 2,799,006 2,799,830 2,802,184 2,817,064 2,818,550 25: 2,788,495 26: 2,777,996 2,782,377 2,809,356 28: 2,776,410 2,782,378 2,790,956 2,791,752 2,792,552 2,812,498 29: 2,776,411 30: 2,777,997 2,781,494 2,811,696 2,815,490 31: 2,779,003 2,781,495 2,783,439 2,786,184 2,790,149 2,790,957 2,799,007 2,807,784 2,810,887 2,812,499 2,813,255 32: 2,811,697	333—	33: 2,786,981 2,790,958 2,794,174 2,796,586 2,796,587 2,808,570 2,808,571 34: 2,799,831 35: 2,782,379 70: 2,777,998 2,799,008 2,799,999 71: 2,779,832 2,799,832 2,800,633 2,802,992 2,805,572 2,808,588 2,810,889 72: 2,803,803 2,805,400 2,814,021 2,814,785 73: 2,785,381 2,787,766 2,790,959 2,795,763 2,798,206 2,803,804 2,804,590 2,808,573 2,810,890 76: 2,779,924 2,782,380 2,782,381 79: 2,782,381 2,785,496 80: 2,792,553 2,817,822 2,782,382 81: 2,782,382 2,796,588 2,798,207 2,803,805 2,807,785 2,810,891 2,810,500 82: 2,779,004 2,779,925 2,786,982 2,790,150 2,796,584 2,799,833 2,806,211 2,811,698 83: 2,782,383 2,788,497 2,790,151 2,794,175 84: 2,797,392 2,800,634 2,810,892 2,813,240 2,785,382 2,797,393 2,812,501 96: 2,796,589 2,797,394 2,812,502 97: 2,779,005 2,802,993 2,807,786 2,814,022 2,776,412 2,779,006 2,782,384 2,784,383 2,786,185 2,788,498 2,789,273 2,798,206 2,802,994 2,805,401 2,810,111 2,812,503 2,812,504 2,817,823 336— 5: 2,779,926 2,792,554 2,812,505 41: 2,807,787 57: 2,787,768 58: 2,809,357 2,817,065 61: 2,803,806 69: 2,807,788 2,811,699 83: 2,786,983 2,791,753 2,813,256 2,786,984 2,788,499 2,817,066 90: 2,799,834 2,806,998
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336—	92: 2,810,112	339—	100: 2,809,359	339—	270: 2,779,930	340—	50: 2,790,154	340—	174: 2,802,201	340—	234: 2,803,813
96:	2,785,333	103:	2,800,636		272: 2,777,119	52:	2,779,013		2,802,202		2,803,814
98:	2,801,393		2,810,116		2,780,793		2,780,797		2,802,203		2,778,007
	2,792,555	105:	2,788,502		2,782,393		2,786,194		2,803,812	236:	2,801,408
	2,815,491	107:	2,812,507		2,785,507		2,788,514		2,804,605	237:	2,781,506
100:	2,784,384	109:	2,796,592		2,789,276		2,799,843		2,805,407		2,787,732
110:	2,781,496	111:	2,802,998		2,809,363		2,800,640		2,805,408		2,799,851
	2,814,786		2,806,213		2,810,896		2,818,553		2,805,409	239:	2,794,132
117:	2,798,209		2,809,360		2,811,704		2,795,771		2,807,003		2,798,215
119:	2,786,186	112:	2,799,010		2,816,275	57:	2,790,155		2,807,004		2,807,012
123:	2,799,835		2,807,789		2,794,176	61:	2,783,450		2,807,005		2,808,580
136:	2,782,385		2,808,576		2,799,840	62:	2,802,197		2,807,797		2,812,511
155:	2,788,500		2,789,274		2,800,637	63:	2,782,396		2,808,578	241:	2,812,512
	2,792,556		2,818,552		2,801,402		2,803,810		2,809,367	242:	2,801,409
	2,802,185	125:	2,805,405		2,780,794	74:	2,802,198		2,810,901		2,815,502
165:	2,790,960	126:	2,783,443		2,783,446	67:	2,800,641		2,811,709	243:	2,807,013
	2,797,395		2,793,351		2,783,447	68:	2,783,451		2,811,710	244:	2,787,733
	2,810,113		2,801,397		2,786,191		2,814,028		2,812,510		2,792,566
	2,815,492		2,817,826		2,786,192	72:	2,810,899		2,813,259		2,794,973
171:	2,802,186	128:	2,784,386		2,788,508	73:	2,783,452		2,813,260		2,800,648
174:	2,809,358		2,790,961		2,789,277	75:	2,787,778		2,813,261		2,808,581
	2,815,493		2,794,962		2,789,278		2,809,366		2,814,030	248:	2,783,457
175:	2,779,927	129:	2,806,999		2,789,279	80:	2,803,811		2,814,031		2,795,779
180:	2,783,441	143:	2,779,009		2,790,963	81:	2,787,779		2,814,792		2,817,076
	2,786,187		2,804,601		2,794,964		2,790,156		2,814,793	249:	2,779,015
192:	2,776,413	145:	2,788,503		2,795,769		2,816,277		2,814,794		2,792,567
	2,779,928		2,802,190		2,799,841	82:	2,777,120		2,815,498		2,817,830
	2,787,769		2,802,191		2,800,638	83:	2,803,002		2,816,278	251:	2,783,458
	2,795,765		2,805,406		2,802,194	87:	2,795,772		2,817,072		2,786,991
198:	2,776,414	147:	2,778,001		2,802,195		2,814,029		2,817,073	252:	2,776,420
200:	2,802,187	151:	2,812,508		2,804,602	100:	2,794,968		2,817,829		2,782,403
208:	2,777,116	154:	2,781,499		2,806,214	107:	2,807,795		2,818,554		2,799,852
210:	2,780,785	157:	2,792,561		2,806,215	134:	2,790,157		2,818,555	253:	2,781,507
	2,796,590	159:	2,783,444		2,807,792	142:	2,810,121		2,818,556		2,782,404
	2,804,600	163:	2,810,895		2,809,364	147:	2,779,014		2,818,557		2,799,014
	2,806,212	164:	2,780,790		2,809,365		2,779,933	176:	2,813,262		2,811,712
212:	2,780,786		2,799,839		2,810,897		2,794,178	177:	2,816,279		2,816,281
	2,818,551	166:	2,802,192		2,811,705		2,795,773	180:	2,780,799		2,792,568
217:	2,797,396	174:	2,815,495		2,811,706		2,812,509		2,783,451	255:	2,792,569
220:	2,782,386	176:	2,809,361		2,812,508	149:	2,776,418	184:	Re.24,270	258:	2,779,935
	2,799,836	177:	2,781,500		2,814,026		2,783,453	185:	2,784,393		2,779,936
234:	2,780,787		2,793,352		2,815,497		2,783,454	187:	Re.24,267		2,782,401
4:	2,778,000	180:	2,788,504		2,816,276		2,785,388		2,780,800		2,782,406
5:	2,786,985	184:	2,790,153		2,795,770		2,801,405		2,792,565		2,783,459
8:	2,798,210	188:	2,802,999		2,801,403		2,811,707		2,794,971		2,787,784
9:	2,790,152	191:	2,801,398	340—	2,778,002		2,817,071	197:	2,794,181		2,789,282
	2,808,574		2,814,789	1:	2,779,931		2,795,774		2,815,499		2,791,762
8:	2,810,893	192:	2,782,388	3:	2,787,776	162:	2,790,158	201:	2,788,516		2,793,358
	2,814,023		2,782,389		2,788,509	163:	2,790,159	202:	2,790,161		2,794,974
12:	2,788,501		2,817,067		2,791,756		2,790,159	203:	2,797,403		2,796,590
14:	2,792,557	193:	2,776,415		2,806,216		2,793,357	204:	2,782,400		2,814,032
	2,797,397		2,793,353		2,806,216		2,794,179	205:	2,790,598	261:	2,790,968
	2,805,402		2,814,024		2,786,193	6:	2,802,199	206:	Re.24,271		2,796,600
15:	2,786,188		2,814,790		2,786,986		2,802,199		2,785,391		2,798,015
17:	2,799,837		2,814,791		2,789,957	7:	2,791,757	208:	2,790,967	262:	2,802,204
	2,802,188	198:	2,779,010		2,789,280	8:	2,789,399	213:	2,782,401	263:	2,814,796
	2,802,995		2,780,791		2,797,399		2,807,796		2,782,402	264:	2,797,404
	2,811,700		2,781,501		2,803,807		2,807,796		2,784,394		2,813,264
18:	2,779,007		2,782,390		2,787,777		2,804,604		2,785,392	265:	2,779,937
	2,802,189		2,786,190		2,802,196	10:	2,795,775		2,786,988		2,792,569
	2,817,824		2,787,773		2,776,416	11:	2,802,200		2,786,989		2,782,407
19:	2,782,387		2,793,354		2,776,417		2,782,397	172:	2,791,473	266:	2,783,461
21:	2,781,497	200:	2,793,355		2,803,808		2,783,455	173:	2,794,972	267:	2,794,183
22:	2,780,788	202:	2,790,962		2,804,603		2,784,389		2,798,213		2,788,511
26:	2,792,558	211:	2,782,391		2,782,394		2,787,780		2,799,013	268:	2,785,008
31:	2,792,559	217:	2,779,929	13:	2,783,448		2,787,781		2,799,846		2,790,162
	2,796,591	219:	2,802,193	15:	2,794,177		2,791,758		2,800,644		2,794,975
	2,805,403	220:	2,782,392		2,794,965		2,791,759		2,800,645		2,815,503
45:	2,817,825		2,796,593		2,794,966		2,791,760		2,800,646		2,790,163
52:	2,814,787		2,807,790		2,800,639		2,791,761		2,804,606	270:	2,788,519
	2,814,788		2,811,701		2,803,001		2,799,844		2,807,006	271:	2,807,014
59:	2,779,008		2,811,702		2,803,809		2,801,406		2,807,007		2,812,513
60:	2,780,789	221:	2,777,118		2,808,577		2,810,900		2,807,008	274:	2,793,359
61:	2,815,494		2,807,791		2,810,118		2,807,796		2,807,009		2,782,402
63:	2,787,770		2,817,068		2,810,898		2,776,419		2,807,010	276:	2,783,462
64:	2,795,766	224:	2,801,399	17:	2,781,502		2,778,005		2,807,011	277:	2,784,393
	2,810,114	236:	2,807,000		2,783,449		2,778,006		2,813,263		2,785,009
66:	2,805,404	237:	2,815,496		2,786,987		2,779,934		2,814,795	280:	2,797,405
67:	2,792,560	244:	2,816,274		2,788,510		2,781,503		2,815,500	282:	2,782,407
75:	2,786,189	247:	2,801,400		2,788,511		2,782,398	214:	2,817,074		2,783,463
	2,794,961	252:	2,817,827		2,788,512		2,783,459		2,800,647		2,784,395
	2,799,009	255:	2,788,505		2,788,513		2,784,390		2,817,075		2,797,406
	2,801,394		2,807,001		2,790,964		2,784,391	220:	2,786,195		2,800,649
76:	2,795,767		2,809,362		2,792,562		2,784,392	222:	2,786,990		2,801,410
89:	2,784,385	256:	2,780,792		2,798,211		2,784,393		2,799,847		2,805,410
90:	2,802,996		2,787,774		2,807,793		2,785,389		2,799,848		2,808,582
91:	2,781,498		2,788,506		2,814,027	19:	2,786,986		2,799,849		2,816,283
	2,787,771		2,799,011		2,784,388	22:	2,787,775	225:	2,804,607		2,817,077
92:	2,802,997		2,814,025		2,788,509	25:	2,789,934		2,808,579		2,799,853
	2,808,575	258:	2,779,011		2,789,935	26:	2,790,157	226:	2,788,517	310:	2,781,508
94:	2,785,384		2,785,387		2,794,967	27:	2,791,761		2,815,501	311:	2,777,121
	2,785,385		2,789,275		2,778,004		2,782,399	227:	2,799,850		2,780,802
	2,801,395		2,791,755		2,782,395		2,784,390		2,804,608		2,799,854
95:	2,793,350		2,794,963		2,790,964		2,784,391		2,804,609		2,816,284
96:	2,783,442		2,797,398		2,792,562		2,785,389		2,804,610	328:	2,786,992
97:	2,785,386		2,803,000		2,798,211		2,786,987		2,809,368	332:	2,785,394
	2,801,396		2,813,257		2,807,794		2,787,776		2,796,597		2,814,797
	2,810,115	262:	2,783,445		2,810,119		2,788,512		2,797,402	345:	2,810,122
99:	2,787,772	263:	2,784,387		2,810,120		2,789,935		2,797,403	347:	2,782,408
	2,795,768	264:	2,811,703		2,790,595		2,787,777		2,798,215		2,783,464
	2,799,838	265:	2,787,775		2,791,756		2,788,513				

340— 347: 2,803,003	343— 6.5: 2,800,651	343— 17.1: 2,781,510	343— 742: 2,818,562	343— 818: 2,803,011	346— 74: 2,778,708
2,803,815	6.8: 2,786,994	2,783,466	753: 2,785,397	823: 2,778,017	2,785,038
2,809,369	7: 2,790,969	2,786,997	2,801,412	836: 2,776,430	2,785,039
2,811,713	2,791,766	2,805,412	754: 2,795,783	838: 2,808,586	2,785,942
2,817,078	2,802,206	17.7: 2,781,511	2,814,037	841: 2,795,784	2,787,514
2,818,557	2,817,831	2,788,520	756: 2,790,169	844: 2,814,039	2,789,026
348: 2,778,009	7.3: 2,776,422	2,790,168	2,800,657	846: 2,800,658	2,789,027
2,810,903	2,776,423	2,802,207	2,818,563	848: 2,805,416	2,796,316
359: 2,794,976	2,776,424	18: 2,778,010	2,818,564	851: Re.24,340	2,800,384
2,802,205	2,782,411	2,779,019	757: 2,814,038	853: 2,786,999	2,801,148
2,814,798	2,786,197	2,780,806	761: 2,805,414	857: 2,786,199	2,803,515
2,818,558	2,786,995	2,786,198	2,811,719	866: 2,817,838	2,805,114
366: 2,797,407	2,789,284	2,791,767	762: 2,803,007	867: 2,787,788	2,806,756
2,804,611	2,790,166	2,793,362	2,809,370	886: 2,790,171	2,806,757
2,811,714	2,790,167	2,801,411	767: 2,794,184	895: 2,781,514	2,814,547
2,813,265	2,794,978	100: 2,777,122	2,799,017	2,817,086	75: 2,776,182
367: 2,780,803	2,795,781	2,791,768	2,810,907	901: 2,797,413	77: 2,788,255
2,796,601	2,803,818	2,810,905	2,812,514	905: 2,818,566	78: 2,789,028
2,797,408	2,804,612	2,810,906	2,818,565	908: 2,786,200	79: 2,810,621
2,805,411	2,807,015	101: 2,817,836	768: 2,808,584	909: 2,814,040	83: 2,816,810
2,817,079	2,815,504	103: 2,778,011	770: 2,778,014	915: 2,813,268	95: 2,815,258
2,818,559	7.4: 2,784,400	2,778,012	2,778,015	346— 8: 2,785,941	98: 2,790,697
368: 2,780,804	7.7: 2,776,425	2,780,807	2,791,769	2,792,274	101: 2,776,183
369: 2,779,938	2,779,017	2,782,413	2,798,217	2,795,475	2,785,943
2,782,409	2,783,465	2,794,979	2,803,008	2,814,546	2,785,944
2,793,361	2,795,782	2,800,652	2,807,018	10: 2,792,275	107: 2,782,088
372: 2,818,560	2,797,410	2,800,653	2,816,285	17: 2,785,037	2,785,945
373: 2,800,650	2,805,413	2,811,716	2,817,084	2,817,573	2,785,946
378: 2,779,016	2,811,715	2,811,717	771: 2,778,016	18: 2,778,707	2,797,976
2,784,397	2,814,035	2,811,718	2,807,019	20: 2,801,896	2,816,002
2,787,785	2,818,561	105: 2,778,013	2,807,800	23: 2,799,551	108: 2,812,995
2,794,977	8: 2,785,395	2,814,799	775: 2,786,998	24: 2,816,001	109: 2,783,118
2,813,266	2,786,996	106: 2,787,787	2,817,837	25: 2,776,867	111: 2,777,746
381: 2,784,398	9: 2,776,426	2,792,570	777: 2,805,415	29: 2,787,511	112: 2,799,552
2,786,196	2,799,855	2,800,654	779: 2,784,403	32: 2,784,048	2,806,758
2,803,816	2,817,081	2,803,821	781: 2,785,398	2,787,512	2,812,996
384: 2,797,409	11: 2,779,939	2,804,615	782: 2,803,009	2,805,912	116: 2,812,997
388: 2,787,786	2,796,603	2,815,506	783: 2,783,467	2,812,229	118: 2,783,119
2,790,164	2,797,411	2,817,082	785: 2,801,413	33: 2,779,654	121: 2,778,709
2,791,765	2,797,412	107: 2,776,428	786: 2,791,770	2,788,254	2,804,366
2,803,004	2,803,819	2,784,401	2,794,185	2,796,314	136: 2,777,747
392: 2,799,016	2,804,613	2,789,285	2,809,371	34: 2,818,321	2,793,928
2,810,123	2,807,016	2,793,363	2,810,908	37: Re.24,320	2,796,317
2,817,080	2,810,126	108: 2,796,604	2,804,617	40: 2,810,619	2,805,115
394: 2,784,399	2,815,505	2,817,083	2,807,801	2,810,620	138: 2,810,622
397: 2,782,410	12: 2,779,018	112: 2,804,616	2,807,802	44: 2,779,655	139: 2,778,710
398: 2,810,124	2,807,799	113: 2,808,583	791: 2,802,209	2,784,049	2,778,711
343— 5: 2,776,421	13: 2,776,427	115: 2,799,856	792: 2,802,210	2,818,322	2,783,120
2,786,993	2,780,805	117: 2,784,402	796: 2,785,399	45: 2,791,481	2,798,767
2,803,005	2,782,412	118: 2,800,655	797: 2,810,127	49: 2,784,050	2,801,149
2,803,817	2,790,170	124: 2,815,507	799: 2,808,585	2,787,513	2,814,548
2,807,798	2,803,820	176: 2,776,429	804: 2,777,123	2,805,113	2,814,549
2,810,125	2,807,017	2,802,208	805: 2,810,909	59: 2,796,315	140: 2,800,385
2,810,904	2,814,036	200: 2,779,020	806: 2,780,808	62: 2,791,482	141: 2,784,051
2,814,034	2,817,832	225: 2,788,521	814: 2,799,018	2,793,094	2,800,386
6: 2,795,780	2,817,833	2,813,267	2,804,618	73: 2,793,095	142: 2,810,623
2,803,006	2,817,834	708: 2,781,512	2,817,085	74: 2,776,181	145: 2,789,029
6.5: 2,781,509	16: 2,779,940	2,814,800	815: 2,789,286	2,777,744	2,791,483
2,790,165	2,804,614	725: 2,800,656	816: 2,781,513	2,777,745	2,795,476
2,796,602	2,817,835	741: 2,785,396	818: 2,803,010		



1957

CLASSIFICATION OF DESIGNS

NOTE.—First number=class, second number=subclass, third number=patent number

D 1— 2: Des. 181,790 3: Des. 181,006 7: Des. 181,527 12: Des. 179,895 Des. 180,756 Des. 181,146 Des. 181,153 Des. 181,209 Des. 181,697	D 3—17: Des. 180,561 Des. 180,562 Des. 180,608 Des. 180,609 Des. 180,948 Des. 181,134 Des. 181,419 Des. 181,802 19: Des. 179,530 25: Des. 179,681 Des. 179,802 Des. 181,331 26: Des. 179,624 Des. 179,753 Des. 179,893 Des. 180,067 Des. 180,068 Des. 180,545 Des. 180,861 Des. 181,251 Des. 181,626 Des. 181,824	D 8— 1: Des. 179,580 Des. 180,900 D 9— 2: Des. 179,482 Des. 179,628 Des. 179,664 Des. 179,671 Des. 179,867 Des. 179,879 Des. 179,976 Des. 179,985 Des. 179,989 Des. 179,991 Des. 180,034 Des. 180,064 Des. 180,091 Des. 180,204 Des. 180,228 Des. 180,229 Des. 180,345 Des. 180,355 Des. 180,394 Des. 180,430 Des. 180,603 Des. 180,674 Des. 180,696 Des. 180,848 Des. 181,010 Des. 181,055 Des. 181,104 Des. 181,117 Des. 181,169 Des. 181,172 Des. 181,211 Des. 181,225 Des. 181,248 Des. 181,249 Des. 181,367 Des. 181,529 Des. 181,537 Des. 181,591 Des. 181,611 Des. 181,696 Des. 181,793 6: Des. 179,487 Des. 179,717 Des. 179,858 Des. 180,405 Des. 180,449 Des. 181,103 Des. 181,495 D10— 5: Des. 180,520 Des. 180,145 6: Des. 181,397 Des. 181,512 Des. 181,634 Des. 181,696 Des. 180,194 Des. 180,387 Des. 180,634 Des. 180,891 Des. 180,983 D 5— 2: Des. 180,063 4: Des. 180,162 Des. 180,426 Des. 180,925 Des. 181,173 Des. 181,771 Des. 180,442 Des. 180,469 D 6— 2: Des. 180,570 D 7— 4: Des. 181,761 5: Des. 180,116 7: Des. 179,486 Des. 179,536 Des. 180,191 Des. 180,205 Des. 180,258 Des. 180,259 Des. 180,334 Des. 180,335 Des. 180,385 Des. 180,434 Des. 180,629 Des. 181,279 Des. 181,396 Des. 181,542 Des. 181,680	D 8— 1: Des. 179,580 Des. 180,900 D 9— 2: Des. 179,482 Des. 179,628 Des. 179,664 Des. 179,671 Des. 179,867 Des. 179,879 Des. 179,976 Des. 179,985 Des. 179,989 Des. 179,991 Des. 180,034 Des. 180,064 Des. 180,091 Des. 180,204 Des. 180,228 Des. 180,229 Des. 180,345 Des. 180,355 Des. 180,394 Des. 180,430 Des. 180,603 Des. 180,674 Des. 180,696 Des. 180,848 Des. 181,010 Des. 181,055 Des. 181,104 Des. 181,117 Des. 181,169 Des. 181,172 Des. 181,211 Des. 181,225 Des. 181,248 Des. 181,249 Des. 181,367 Des. 181,529 Des. 181,537 Des. 181,591 Des. 181,611 Des. 181,696 Des. 181,793 6: Des. 179,487 Des. 179,717 Des. 179,858 Des. 180,405 Des. 180,449 Des. 181,103 Des. 181,495 D10— 5: Des. 180,520 Des. 180,145 6: Des. 181,397 Des. 181,512 Des. 181,634 Des. 181,696 Des. 180,194 Des. 180,387 Des. 180,634 Des. 180,891 Des. 180,983 D 5— 2: Des. 180,063 4: Des. 180,162 Des. 180,426 Des. 180,925 Des. 181,173 Des. 181,771 Des. 180,442 Des. 180,469 D 6— 2: Des. 180,570 D 7— 4: Des. 181,761 5: Des. 180,116 7: Des. 179,486 Des. 179,536 Des. 180,191 Des. 180,205 Des. 180,258 Des. 180,259 Des. 180,334 Des. 180,335 Des. 180,385 Des. 180,434 Des. 180,629 Des. 181,279 Des. 181,396 Des. 181,542 Des. 181,680	D12— 2: Des. 180,346 Des. 180,544 D13— 1: Des. 179,524 Des. 179,709 Des. 179,733 Des. 179,963 Des. 180,147 Des. 180,215 Des. 180,221 Des. 180,243 Des. 180,292 Des. 180,299 Des. 180,581 Des. 180,686 Des. 181,046 Des. 181,070 Des. 181,072 Des. 181,124 Des. 181,342 Des. 181,350 Des. 181,455 Des. 181,457 Des. 181,519 Des. 181,544 Des. 181,555 Des. 181,556 Des. 181,568 Des. 181,578 Des. 181,582 7: Des. 180,683 Des. 181,560 D14— 3: Des. 179,549 Des. 179,559 Des. 179,687 Des. 179,840 Des. 179,968 Des. 180,016 Des. 180,128 Des. 180,182 Des. 180,222 Des. 180,245 Des. 180,312 Des. 180,330 Des. 180,362 Des. 180,494 Des. 180,509 Des. 180,526 Des. 180,543 Des. 180,594 Des. 180,642 Des. 180,829 Des. 180,868 Des. 180,871 Des. 180,872 Des. 180,873 Des. 180,874 Des. 180,893 Des. 180,932 Des. 180,936 Des. 181,033 Des. 181,045 Des. 181,064 Des. 181,109 Des. 181,187 Des. 181,221 Des. 181,224 Des. 181,254 Des. 181,272 Des. 181,281 Des. 181,282 Des. 181,283 Des. 181,294 Des. 181,299 Des. 181,352 Des. 181,438 Des. 181,440 Des. 181,488 Des. 181,491 Des. 181,711 Des. 181,736 Des. 181,808 6: Des. 179,522 Des. 179,523 Des. 179,611 Des. 179,667 Des. 179,672 Des. 179,782 Des. 179,789	D14— 6: Des. 179,808 Des. 179,809 Des. 179,810 Des. 179,885 Des. 179,986 Des. 179,987 Des. 179,990 Des. 180,070 Des. 180,074 Des. 180,090 Des. 180,103 Des. 180,127 Des. 180,227 Des. 180,447 Des. 180,605 Des. 180,606 Des. 180,885 Des. 180,886 Des. 180,896 Des. 180,950 Des. 181,017 Des. 181,197 Des. 181,222 Des. 181,237 Des. 181,378 Des. 181,476 Des. 181,494 Des. 181,530 Des. 181,536 Des. 181,593 Des. 181,666 Des. 181,757 Des. 181,819 18: Des. 179,654 Des. 179,827 Des. 180,126 Des. 180,435 Des. 180,681 Des. 180,755 Des. 181,310 Des. 181,741 24: Des. 181,313 Des. 181,513 27: Des. 181,747 Des. 181,748 30: Des. 179,737 Des. 179,769 Des. 179,903 Des. 180,256 Des. 180,522 Des. 180,757 Des. 181,113 Des. 181,165 Des. 181,233 Des. 181,291 Des. 181,309 Des. 181,615 D15— 1: Des. 179,505 Des. 179,603 Des. 179,613 Des. 179,646 Des. 179,767 Des. 179,770 Des. 179,771 Des. 179,851 Des. 179,926 Des. 179,981 Des. 180,032 Des. 180,122 Des. 180,134 Des. 180,137 Des. 180,203 Des. 180,210 Des. 180,220 Des. 180,226 Des. 180,240 Des. 180,264 Des. 180,358 Des. 180,392 Des. 180,478 Des. 180,492 Des. 180,523 Des. 180,542 Des. 180,593 Des. 180,600 Des. 180,601 Des. 180,612	D15— 1: Des. 180,550 Des. 180,660 Des. 180,688 Des. 180,707 Des. 180,722 Des. 180,743 Des. 180,782 Des. 180,911 Des. 180,934 Des. 180,935 Des. 180,936 Des. 180,792 Des. 180,973 Des. 180,974 Des. 180,975 Des. 180,996 Des. 181,001 Des. 181,011 Des. 181,024 Des. 181,032 Des. 181,099 Des. 181,106 Des. 181,212 Des. 181,213 Des. 181,214 Des. 181,215 Des. 181,241 Des. 181,259 Des. 181,260 Des. 181,261 Des. 181,339 Des. 181,372 Des. 181,533 Des. 181,540 Des. 181,559 Des. 181,647 Des. 181,669 Des. 181,670 Des. 181,676 Des. 181,702 Des. 181,729 Des. 181,731 2: Des. 180,138 3: Des. 179,969 Des. 180,350 Des. 180,393 Des. 180,404 Des. 180,864 Des. 181,048 Des. 181,098 6: Des. 179,878 Des. 180,031 8: Des. 179,592 Des. 179,593 Des. 179,748 Des. 179,806 Des. 179,892 Des. 180,133 Des. 180,188 Des. 180,510 Des. 180,710 Des. 180,761 Des. 180,865 Des. 180,959 Des. 181,270 Des. 181,275 Des. 181,508 Des. 181,601 Des. 181,617 Des. 181,730 Des. 181,827 11: Des. 179,682 Des. 179,695 Des. 179,742 Des. 179,749 Des. 179,766 Des. 179,829 Des. 180,139 Des. 180,140 Des. 180,141 Des. 180,142 Des. 180,183 Des. 180,364 Des. 180,458 Des. 180,491 Des. 180,550
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D15—11: Des. 180,558 Des. 180,689 Des. 180,697 Des. 180,781 Des. 180,982 Des. 181,152 Des. 181,640 Des. 181,727 Des. 181,732 Des. 181,738	D16—2: Des. 179,972 Des. 180,154 Des. 181,307 Des. 181,320 Des. 181,535 Des. 181,564	D17—1: Des. 181,436 2: Des. 179,614 3: Des. 180,172 Des. 180,460 Des. 180,462 Des. 180,466 Des. 181,550 10: Des. 179,740 12: Des. 181,255 14: Des. 179,732 Des. 179,757 2: Des. 180,223 2: Des. 180,678 Des. 181,424 Des. 181,425 Des. 181,426 Des. 181,427 Des. 181,428 Des. 181,429 Des. 181,430 Des. 181,431 Des. 181,432 Des. 181,433 Des. 181,434 Des. 181,435 Des. 181,485 Des. 181,486 Des. 181,487	D18—2: Des. 179,743 Des. 179,815 Des. 180,682 Des. 180,730 Des. 180,834 4: Des. 179,608 Des. 180,764 Des. 181,081 Des. 181,141 Des. 181,479	D20—2: Des. 179,743 Des. 179,815 Des. 180,682 Des. 180,730 Des. 180,834 4: Des. 179,608 Des. 180,764 Des. 181,081 Des. 181,141 Des. 181,479	D21—1: Des. 180,646 Des. 180,680 6: Des. 181,161 Des. 181,441 Des. 181,510 Des. 181,623	D22—2: Des. 180,241 Des. 180,908 Des. 181,012 Des. 181,192 Des. 181,242 Des. 181,243 3: Des. 179,531 Des. 179,563 Des. 179,584 Des. 179,734 Des. 180,413 Des. 180,571 Des. 180,760 Des. 181,041 Des. 181,105 Des. 181,373 Des. 181,484 5: Des. 180,004 Des. 180,315 Des. 180,424 Des. 180,578	D25—1: Des. 180,429 Des. 181,754	D26—1: Des. 179,474 Des. 179,914 Des. 180,294 Des. 180,301 Des. 180,302 Des. 180,400 Des. 181,015 Des. 181,061 Des. 181,302 Des. 181,356 Des. 181,361 Des. 181,362 Des. 181,375 Des. 181,402 Des. 181,572 Des. 181,706 Des. 181,751 5: Des. 179,637 Des. 179,638 Des. 179,939 Des. 179,994 Des. 179,995	D26—5: Des. 179,996 Des. 179,997 Des. 179,998 Des. 180,117 Des. 180,196 Des. 180,280 Des. 180,307 Des. 180,379 Des. 180,421 Des. 180,444 Des. 180,479 Des. 180,719 Des. 180,856 Des. 181,023 Des. 181,079 Des. 181,142 Des. 181,417 Des. 181,442 Des. 181,459 Des. 181,733 6: Des. 180,211 7: Des. 180,025 Des. 180,157 Des. 180,777 Des. 180,783 Des. 180,784 Des. 181,083 Des. 181,416 9: Des. 180,065 Des. 180,393 10: Des. 180,353 Des. 180,354 Des. 180,817 Des. 181,624 13: Des. 179,886 Des. 180,124 Des. 180,452 Des. 180,453 Des. 180,505 Des. 180,547 Des. 180,569 Des. 180,772 Des. 180,830 Des. 181,047 Des. 181,065 Des. 181,315 Des. 181,746 14: Des. 179,540 Des. 179,569 Des. 179,570 Des. 179,674 Des. 179,715 Des. 179,778 Des. 179,812 Des. 179,874 Des. 179,875 Des. 179,876 Des. 179,951 Des. 179,993 Des. 180,057 Des. 180,061 Des. 180,076 Des. 180,081 Des. 180,155 Des. 180,158 Des. 180,192 Des. 180,213 Des. 180,216 Des. 180,237 Des. 180,347 Des. 180,368 Des. 180,551 Des. 180,625 Des. 180,637 Des. 180,746 Des. 180,774 Des. 180,844 Des. 180,881 Des. 180,882 Des. 180,912 Des. 180,970 Des. 181,018 Des. 181,027 Des. 181,171 Des. 181,234 Des. 181,336 Des. 181,363 Des. 181,377 Des. 181,420 Des. 181,492 Des. 181,504 Des. 181,667 Des. 181,673 Des. 181,674 Des. 181,801 Des. 181,816 Des. 181,821 15: Des. 179,946 Des. 180,448	D28—2: Des. 179,636 4: Des. 179,832 D29—1: Des. 179,510 Des. 180,053 Des. 180,438	D29—1: Des. 180,969 Des. 180,980 Des. 180,994 Des. 181,034 Des. 181,198 Des. 181,256 Des. 181,358 Des. 181,404 Des. 181,496 Des. 181,497 Des. 181,584 Des. 181,644 Des. 181,818 2: Des. 181,663 19: Des. 179,944 Des. 181,803 20: Des. 180,123 Des. 180,371 Des. 181,126 Des. 181,474 Des. 181,502 Des. 181,755 Des. 181,756 23: Des. 179,473 Des. 179,490 Des. 179,521 Des. 179,567 Des. 179,598 Des. 179,609 Des. 180,009 Des. 180,375 Des. 180,380 Des. 180,381 Des. 180,843 Des. 181,029 Des. 181,159 Des. 181,262 Des. 181,263 Des. 181,264 Des. 181,300 Des. 181,523 Des. 181,681 D30—1: Des. 179,499 Des. 179,657 Des. 179,974 Des. 180,389 D31—2: Des. 179,842 Des. 179,849 Des. 179,850 Des. 179,905 Des. 180,914 Des. 181,625 3: Des. 181,095 Des. 181,509 4: Des. 179,525 Des. 179,586 Des. 179,862 Des. 180,484 Des. 180,529 Des. 180,758 Des. 181,170 Des. 181,552 Des. 181,566 D33—1: Des. 179,938 2: Des. 179,576 Des. 179,616 Des. 179,673 Des. 181,050 Des. 181,412 3: Des. 179,606 Des. 179,645 Des. 179,744 Des. 180,955 Des. 181,235 Des. 181,253 Des. 181,602 Des. 181,726 3.1: Des. 180,583 6: Des. 181,539 7: Des. 179,915 Des. 180,094 Des. 180,224 Des. 180,288 Des. 180,289 Des. 180,714 Des. 180,995 Des. 181,090 Des. 181,286 8: Des. 179,677 Des. 179,792 Des. 179,820 Des. 179,907 Des. 180,148 9: Des. 179,660 Des. 180,800 Des. 181,150 10: Des. 179,863 Des. 180,641 11: Des. 179,685 Des. 181,703 12: Des. 180,599 Des. 180,744 Des. 181,129 13: Des. 180,151 Des. 180,796	D33—14: Des. 179,527 Des. 179,635 Des. 179,649 Des. 179,738 Des. 179,830 Des. 179,868 Des. 179,897 Des. 179,900 Des. 179,936 Des. 179,999 Des. 180,000 Des. 180,001 Des. 180,002 Des. 180,003 Des. 180,202 Des. 180,218 Des. 180,283 Des. 180,331 Des. 180,407 Des. 180,432 Des. 180,506 Des. 180,720 Des. 181,139 Des. 181,164 Des. 181,538 Des. 181,805 17: Des. 181,357 19: Des. 179,484 Des. 179,871 Des. 179,872 Des. 180,150 Des. 180,152 Des. 180,153 Des. 180,171 Des. 180,589 Des. 181,284 Des. 181,285 Des. 181,661 D34—2: Des. 179,978 Des. 180,636 Des. 181,140 Des. 181,265 Des. 181,511 Des. 181,569 Des. 181,570 Des. 181,744 3: Des. 181,739 4: Des. 179,514 Des. 179,515 Des. 180,319 Des. 180,597 5: Des. 179,513 Des. 179,575 Des. 179,582 Des. 179,590 Des. 179,591 Des. 179,633 Des. 179,689 Des. 179,816 Des. 179,817 Des. 179,818 Des. 179,819 Des. 179,929 Des. 179,930 Des. 179,931 Des. 179,935 Des. 179,964 Des. 179,971 Des. 180,007 Des. 180,156 Des. 180,186 Des. 180,244 Des. 180,257 Des. 180,270 Des. 180,402 Des. 180,473 Des. 180,487 Des. 180,502 Des. 180,525 Des. 180,528 Des. 180,585 Des. 180,602 Des. 180,677 Des. 180,703 Des. 180,798 Des. 180,801 Des. 180,902 Des. 181,028 Des. 181,044 Des. 181,051 Des. 181,057 Des. 181,093 Des. 181,338 Des. 181,451 Des. 181,630 Des. 181,633 Des. 181,649 Des. 181,694 Des. 181,770 Des. 181,772 Des. 181,813 11: Des. 179,765 Des. 180,340 Des. 180,538 13: Des. 179,485	D34—13: Des. 179,865 Des. 180,242 Des. 181,063 Des. 181,658 Des. 181,760 14: Des. 180,333 Des. 180,632 Des. 180,913 15: Des. 179,469 Des. 179,595 Des. 179,621 Des. 179,622 Des. 179,625 Des. 179,653 Des. 179,688 Des. 179,751 Des. 179,775 Des. 179,811 Des. 179,896 Des. 179,949 Des. 180,005 Des. 180,058 Des. 180,077 Des. 180,255 Des. 180,372 Des. 180,441 Des. 180,512 Des. 180,513 Des. 180,559 Des. 180,592 Des. 180,613 Des. 180,620 Des. 180,672 Des. 180,717 Des. 180,741 Des. 180,750 Des. 180,849 Des. 180,993 Des. 181,009 Des. 181,069 Des. 181,116 Des. 181,190 Des. 181,330 Des. 181,353 Des. 181,468 Des. 181,469 Des. 181,565 Des. 181,639 Des. 181,641 Des. 181,701 Des. 181,779 D35—2: Des. 181,828 3: Des. 179,881 Des. 181,370 Des. 181,561 D36—2: Des. 181,026 Des. 181,345 8: Des. 179,502 Des. 180,630 Des. 180,631 Des. 181,346 Des. 181,347 Des. 181,657 D37—1: Des. 179,542 Des. 179,610 Des. 179,799 Des. 180,295 Des. 180,363 Des. 180,437 Des. 180,549 Des. 181,004 Des. 181,108 Des. 181,268 D38—15: Des. 179,479 D39—1: Des. 180,018 D40—1: Des. 179,511 Des. 179,512 Des. 179,577 Des. 179,724 Des. 180,054 Des. 180,268 Des. 180,282 Des. 180,568 Des. 180,775 Des. 180,924 Des. 181,091 Des. 181,280 Des. 181,364 Des. 181,449 Des. 181,612 D41—1: Des. 179,821 Des. 179,980 Des. 180,095 Des. 180,291 Des. 180,633 Des. 180,903 Des. 180,922 Des. 181,031 Des. 181,071 Des. 181,269 Des. 181,439 Des. 181,547 Des. 179,835 Des. 180,059 Des. 180,097	D42—1: Des. 180,960 Des. 181,620 7: Des. 179,691 Des. 179,855 Des. 179,927 Des. 179,977 Des. 180,075 Des. 180,941 Des. 180,999 Des. 181,000 Des. 181,133 Des. 181,188 Des. 181,344 8: Des. 180,083 Des. 180,618 Des. 181,013 D43—1: Des. 180,850 D44—1: Des. 179,712 Des. 179,735 Des. 180,427 Des. 180,546 Des. 180,952 Des. 180,985 Des. 181,007 Des. 181,060 Des. 181,798 4: Des. 179,668 5: Des. 180,669 6: Des. 181,776 9: Des. 181,781 10: Des. 179,780 Des. 179,973 Des. 180,078 Des. 180,230 Des. 180,968 Des. 181,080 Des. 181,154 Des. 181,695 Des. 181,704 Des. 181,764 15: Des. 179,508 Des. 179,535 Des. 179,727 Des. 179,728 Des. 179,729 Des. 179,730 Des. 179,731 Des. 179,797 Des. 179,888 Des. 180,012 Des. 180,118 Des. 180,198 Des. 180,261 Des. 180,284 Des. 180,285 Des. 180,329 Des. 180,351 Des. 180,553 Des. 180,554 Des. 180,555 Des. 180,556 Des. 180,557 Des. 180,875 Des. 180,876 Des. 180,877 Des. 180,954 Des. 180,963 Des. 181,074 Des. 181,075 Des. 181,076 Des. 181,077 Des. 181,078 Des. 181,138 Des. 181,174 Des. 181,175 Des. 181,176 Des. 181,177 Des. 181,271 Des. 181,306 Des. 181,326 Des. 181,327 Des. 181,328 Des. 181,333 Des. 181,334 Des. 181,380 Des. 181,381 Des. 181,382 Des. 181,383 Des. 181,384 Des. 181,385 Des. 181,386 Des. 181,387 Des. 181,388 Des. 181,389 Des. 181,390 Des. 181,391 Des. 181,392 Des. 181,393 Des. 181,505 Des. 181,506 Des. 181,585 18: Des. 180,209 Des. 180,303 20: Des. 180,700
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D44—20:	Des. 180,701	D47— 6:	Des. 181,087	D50— 7:	Des. 181,475	D54— 2:	Des. 181,605	D56— 4:	Des. 180,580	D58—13:	Des. 180,610
	Des. 180,702		Des. 181,088		Des. 181,797		Des. 181,606		Des. 180,694		Des. 180,699
21:	Des. 179,705		Des. 181,089	D52— 1:	Des. 179,477		Des. 180,923		Des. 180,695		Des. 180,767
	Des. 180,049	7:	Des. 179,588		Des. 179,493		Des. 180,493		Des. 180,742		Des. 181,125
	Des. 180,563		Des. 180,907		Des. 179,526		Des. 181,558		Des. 180,833	17:	Des. 179,545
	Des. 180,586		Des. 181,586		Des. 179,662		Des. 180,300		Des. 181,043		Des. 180,102
	Des. 180,587	D48— 2:	Des. 180,084		Des. 179,690		Des. 180,944		Des. 181,493		Des. 180,187
	Des. 181,348		Des. 180,835		Des. 179,750		Des. 180,945		Des. 180,847		Des. 180,199
22:	Des. 181,273		Des. 180,008		Des. 179,838		Des. 180,946		Des. 179,532		Des. 180,308
	Des. 181,573	4:	Des. 180,071		Des. 179,848	12:	Des. 179,503		Des. 179,596	D57— 1:	Des. 179,596
24:	Des. 179,798		Des. 180,611		Des. 179,960		Des. 179,504		Des. 179,605		Des. 180,309
	Des. 180,361		Des. 181,238		Des. 180,020		Des. 179,594		Des. 179,623		Des. 180,386
	Des. 180,981		Des. 181,580		Des. 180,144		Des. 179,752		Des. 179,675		Des. 180,795
	Des. 181,592		Des. 179,694		Des. 180,277		Des. 179,758		Des. 179,787		Des. 180,923
25:	Des. 180,056		Des. 179,741		Des. 180,278		Des. 179,763		Des. 179,787		Des. 181,131
26:	Des. 180,160		Des. 179,761		Des. 180,279		Des. 179,764		Des. 179,824		Des. 181,278
	Des. 180,508		Des. 179,853		Des. 180,356		Des. 179,788		Des. 180,219		Des. 181,725
	Des. 180,991		Des. 179,869		Des. 180,408		Des. 179,796		Des. 180,262	25:	Des. 179,736
	Des. 181,780		Des. 179,877		Des. 180,475		Des. 179,804		Des. 180,336		Des. 181,825
	Des. 181,812		Des. 180,105		Des. 180,596		Des. 179,959		Des. 180,357	26:	Des. 179,470
29:	Des. 179,711		Des. 180,235		Des. 180,685		Des. 179,983		Des. 180,372		Des. 179,471
	Des. 179,889		Des. 180,251		Des. 180,692		Des. 180,066		Des. 180,735		Des. 179,472
	Des. 179,911		Des. 180,253		Des. 180,786		Des. 180,073		Des. 180,802		Des. 179,640
	Des. 179,912		Des. 180,446		Des. 180,825		Des. 180,089		Des. 180,803		Des. 179,739
	Des. 179,916		Des. 180,531		Des. 180,845		Des. 180,184		Des. 180,842		Des. 179,833
	Des. 179,956		Des. 180,532		Des. 180,943		Des. 180,206		Des. 180,892		Des. 179,992
	Des. 180,050		Des. 180,533		Des. 180,986		Des. 180,207		Des. 180,956		Des. 180,195
	Des. 180,175		Des. 180,534		Des. 181,040		Des. 180,208		Des. 180,957		Des. 180,399
	Des. 180,248		Des. 180,535		Des. 181,094		Des. 180,212		Des. 181,118		Des. 180,439
	Des. 180,249		Des. 180,536		Des. 181,274		Des. 180,246		Des. 181,277		Des. 180,819
	Des. 180,250		Des. 180,537		Des. 181,303		Des. 180,293		Des. 181,329		Des. 180,898
	Des. 180,305		Des. 180,675		Des. 181,407		Des. 180,325		Des. 181,456		Des. 181,136
	Des. 180,306		Des. 181,182		Des. 181,409		Des. 180,326		Des. 181,503		Des. 181,183
	Des. 180,314		Des. 181,480		Des. 181,467		Des. 180,328		Des. 181,750		Des. 181,199
	Des. 180,316		Des. 181,554		Des. 181,481		Des. 180,374		Des. 181,759		Des. 181,458
	Des. 180,384		Des. 181,594		Des. 181,515		Des. 180,411	D58— 2:	Des. 179,866		Des. 181,629
	Des. 180,878		Des. 181,786		Des. 181,551		Des. 180,412		Des. 179,866		Des. 181,815
	Des. 180,909		Des. 179,882		Des. 181,743		Des. 180,414		Des. 180,763	D59— 2:	Des. 179,587
	Des. 180,910		Des. 181,557	2:	Des. 179,547		Des. 180,415	4:	Des. 179,898		Des. 180,541
	Des. 180,979		Des. 179,904		Des. 180,125		Des. 180,418		Des. 179,943		Des. 180,552
	Des. 181,365		Des. 180,425		Des. 180,252		Des. 180,419		Des. 180,037	D60— 1:	Des. 180,410
	Des. 181,366		Des. 180,647		Des. 180,693		Des. 180,420		Des. 180,666		Des. 181,753
	Des. 181,721		Des. 180,648		Des. 180,841		Des. 180,464		Des. 180,951	D61— 1:	Des. 179,518
D 5— 1:	Des. 179,481		Des. 180,751		Des. 180,894		Des. 180,470		Des. 180,997		Des. 179,554
	Des. 179,602		Des. 179,492		Des. 180,965		Des. 180,476		Des. 181,500		Des. 179,566
	Des. 180,086		Des. 179,599		Des. 181,179		Des. 180,477		Des. 181,516		Des. 179,601
	Des. 180,190		Des. 180,060		Des. 181,354		Des. 180,500	5:	Des. 179,648		Des. 179,631
	Des. 180,661		Des. 180,401		Des. 181,659		Des. 180,739		Des. 180,901		Des. 179,670
	Des. 180,662		Des. 180,854		Des. 181,799		Des. 180,748	6:	Des. 180,233		Des. 179,803
	Des. 180,663		Des. 181,637		Des. 181,820		Des. 180,749		Des. 180,670		Des. 179,828
	Des. 180,736		Des. 179,506		Des. 179,720	3:	Des. 180,807		Des. 180,828		Des. 179,883
	Des. 180,737		Des. 179,970		Des. 179,884		Des. 181,168		Des. 180,837		Des. 180,014
	Des. 180,738		Des. 179,686		Des. 180,267		Des. 181,450		Des. 180,920		Des. 180,027
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Mar. 12, 1957—Vol. 716, No. 2	1,576 to 1,577
Mar. 19, 1957—Vol. 716, No. 3	1,578 to 1,581
Mar. 26, 1957—Vol. 716, No. 4	1,582 to 1,585
Apr. 2, 1957—Vol. 717, No. 1	1,586
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Apr. 30, 1957—Vol. 717, No. 5	1,594 to 1,597
May 7, 1957—Vol. 718, No. 1	1,598 to 1,599
May 14, 1957—Vol. 718, No. 2	1,600 to 1,602
May 21, 1957—Vol. 718, No. 3	1,603 to 1,605
May 28, 1957—Vol. 718, No. 4	None
June 4, 1957—Vol. 719, No. 1	None
June 11, 1957—Vol. 719, No. 2	1,606 to 1,610
June 18, 1957—Vol. 719, No. 3	None
June 25, 1957—Vol. 719, No. 4	1,611
July 2, 1957—Vol. 720, No. 1	1,612 to 1,616
July 9, 1957—Vol. 720, No. 2	1,617 to 1,618
July 16, 1957—Vol. 720, No. 3	1,619 to 1,622
July 23, 1957—Vol. 720, No. 4	None
July 30, 1957—Vol. 720, No. 5	1,623 to 1,625
Aug. 6, 1957—Vol. 721, No. 1	1,626 to 1,631
Aug. 13, 1957—Vol. 721, No. 2	1,632 to 1,633
Aug. 20, 1957—Vol. 721, No. 3	1,634 to 1,636
Aug. 27, 1957—Vol. 721, No. 4	1,637
Sept. 3, 1957—Vol. 722, No. 1	1,638 to 1,639
Sept. 10, 1957—Vol. 722, No. 2	None
Sept. 17, 1957—Vol. 722, No. 3	1,640
Sept. 24, 1957—Vol. 722, No. 4	1,641 to 1,645
Oct. 1, 1957—Vol. 723, No. 1	None
Oct. 8, 1957—Vol. 723, No. 2	1,646 to 1,652
Oct. 15, 1957—Vol. 723, No. 3	1,653
Oct. 22, 1957—Vol. 723, No. 4	None
Oct. 29, 1957—Vol. 723, No. 5	1,654 to 1,655
Nov. 5, 1957—Vol. 724, No. 1	1,656 to 1,658
Nov. 12, 1957—Vol. 724, No. 2	1,659 to 1,660
Nov. 19, 1957—Vol. 724, No. 3	None
Nov. 26, 1957—Vol. 724, No. 4	None
Dec. 3, 1957—Vol. 725, No. 1	1,661 to 1,664
Dec. 10, 1957—Vol. 725, No. 2	1,665 to 1,668
Dec. 17, 1957—Vol. 725, No. 3	1,669 to 1,670
Dec. 24, 1957—Vol. 725, No. 4	1,671
Dec. 31, 1957—Vol. 725, No. 5	None

REISSUES

Jan. 1, 1957—Vol. 714, No. 1	None
Jan. 8, 1957—Vol. 714, No. 2	24,262 to 24,264
Jan. 15, 1957—Vol. 714, No. 3	24,265 to 24,266
Jan. 22, 1957—Vol. 714, No. 4	24,267
Jan. 29, 1957—Vol. 714, No. 5	24,268 to 24,269
Feb. 5, 1957—Vol. 715, No. 1	None
Feb. 12, 1957—Vol. 715, No. 2	24,270 to 24,276
Feb. 19, 1957—Vol. 715, No. 3	24,277 to 24,280
Feb. 26, 1957—Vol. 715, No. 4	24,281 to 24,283
Mar. 5, 1957—Vol. 716, No. 1	24,284
Mar. 12, 1957—Vol. 716, No. 2	24,285 to 24,287
Mar. 19, 1957—Vol. 716, No. 3	24,288 to 24,293

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Mar. 26, 1957—Vol. 716, No. 4	24,294 to 24,296	Aug. 13, 1957—Vol. 721, No. 2	None
Apr. 2, 1957—Vol. 717, No. 1	24,297 to 24,300	Aug. 20, 1957—Vol. 721, No. 3	24,345 to 24,348
Apr. 9, 1957—Vol. 717, No. 2	None	Aug. 27, 1957—Vol. 721, No. 4	24,349 to 24,352
Apr. 16, 1957—Vol. 717, No. 3	24,301 to 24,303	Sept. 3, 1957—Vol. 722, No. 1	24,353
Apr. 23, 1957—Vol. 717, No. 4	24,304 to 24,309	Sept. 10, 1957—Vol. 722, No. 2	24,354
Apr. 30, 1957—Vol. 717, No. 5	24,310	Sept. 17, 1957—Vol. 722, No. 3	24,355 to 24,359
May 7, 1957—Vol. 718, No. 1	24,311 to 24,312	Sept. 24, 1957—Vol. 722, No. 4	24,360 to 24,362
May 14, 1957—Vol. 718, No. 2	24,313 to 24,318	Oct. 1, 1957—Vol. 723, No. 1	24,363 to 24,367
May 21, 1957—Vol. 718, No. 3	24,319 to 24,320	Oct. 8, 1957—Vol. 723, No. 2	24,368 to 24,372
May 28, 1957—Vol. 718, No. 4	24,321 to 24,324	Oct. 15, 1957—Vol. 723, No. 3	24,373 to 24,378
June 4, 1957—Vol. 719, No. 1	24,325 to 24,326	Oct. 22, 1957—Vol. 723, No. 4	24,379 to 24,380
June 11, 1957—Vol. 719, No. 2	24,327 to 24,328	Oct. 29, 1957—Vol. 723, No. 5	24,381 to 24,385
June 18, 1957—Vol. 719, No. 3	24,329 to 24,332	Nov. 5, 1957—Vol. 724, No. 1	24,386 to 24,388
June 25, 1957—Vol. 719, No. 4	24,333 to 24,335	Nov. 12, 1957—Vol. 724, No. 2	24,389 to 24,391
July 2, 1957—Vol. 720, No. 1	None	Nov. 19, 1957—Vol. 724, No. 3	24,392 to 24,395
July 9, 1957—Vol. 720, No. 2	None	Nov. 26, 1957—Vol. 724, No. 4	24,396 to 24,397
July 16, 1957—Vol. 720, No. 3	24,336 to 24,337	Dec. 3, 1957—Vol. 725, No. 1	24,398
July 23, 1957—Vol. 720, No. 4	24,338 to 24,339	Dec. 10, 1957—Vol. 725, No. 2	24,399 to 24,404
July 30, 1957—Vol. 720, No. 5	24,340 to 24,341	Dec. 17, 1957—Vol. 725, No. 3	24,405 to 24,408
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		Dec. 31, 1957—Vol. 725, No. 5	24,410 to 24,412

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LIST OF DISCLAIMERS

- Alderfer, Alvin H., Philadelphia, Pa. Disclaimer filed by the assignee, Specialty Engineering Company. No. 2,230,635; disclaimer filed May 8, 1957; v. 719; p. 643.
- Alexander, Don F., Dayton, Ohio. Disclaimer filed by the assignee, The Sterling Varnish Company. No. 2,417,538; disclaimer filed Nov. 20, 1956; v. 714; p. 1.
- Ander, Eric B., Minneapolis, Minn. Disclaimer filed by the assignee, Minneapolis-Honeywell Regulator Company. No. 2,754,491; disclaimer filed Feb. 18, 1957; v. 716; p. 525.
- Apps, David C., Brighton, Mich. Disclaimer filed by the assignee, General Motors Corporation. No. 2,735,292; disclaimer filed July 25, 1957; v. 722; p. 1.
- Arisman, Mervin B., and Wilbert H. Budd, Elkhart, Ind., and Arthur M. Daily, Edwardsburg, Mich. Disclaimer filed by the assignee, Chicago Telephone Supply Corporation; the inventor concurring. No. 2,789,191; disclaimer filed June 7, 1957; v. 720; p. 223.
- Armistead, Fontaine C., Marblehead, Mass., and Theresa M. McKee, New York, N. Y. Disclaimer filed by the assignee, Texaco Development Corporation. No. 2,759,107; disclaimer filed June 28, 1957; v. 721; p. 1.
- Aritz, William Walter, New York, N. Y. Disclaimer filed by the assignee, Dualoy, Inc. No. 2,739,919; disclaimer filed Apr. 16, 1957; v. 718; p. 435.
- Atwood, Edwin H., Woodbury, N. J. Dedication filed by the assignee, Socony Mobil Oil Company, Inc. No. 2,322,087; dedication filed Nov. 13, 1957; v. 725; p. 394.
- Auerbach, Isaac L., Philadelphia, Pa., and Stanley B. Disson, Falls Church, Va. Disclaimer filed by the assignee, Burroughs Corporation. No. 2,719,228; disclaimer filed June 13, 1957; v. 720; p. 441.
- Augenstein, Karl C., Cranston, R. I. Disclaimer filed by the assignee, Speidel Corporation. No. 2,732,684; disclaimer filed Dec. 31, 1956; v. 715; p. 1.
- Balch, Theodore H., Salem, and Ray F. Van De Mark, West Salem, Oreg. Disclaimer filed by the assignee, Elmer R. Worth, Sr. No. 2,661,036; disclaimer filed Dec. 4, 1956; v. 714; p. 343.
- Balkin, Mark, and Denys Grahame Turner, Newcastle-upon-Tyne, England. Disclaimer filed by the assignee, Armstrong Cork Company. No. 2,729,860; disclaimer filed July 16, 1957; v. 721; p. 414.
- Baule, Werner G., Detroit, Mich. Disclaimer filed by the assignee, Borg-Warner Corporation. No. 2,679,768; disclaimer filed June 20, 1957; v. 720; p. 875.
- Behnke, George W., and Russell G. Westcott, Durand, Mich. Disclaimer filed by the assignee, Simplicity Engineering Company. No. 2,772,769; disclaimer filed Nov. 14, 1957; v. 725; p. 393.
- Berry, Theodore M., Schenectady, N. Y. Disclaimer filed by the assignee, General Electric Company. No. 2,679,620; disclaimer filed Mar. 18, 1957; v. 717; p. 411.
- Boyer, William P., and Jesse Roger Mangham, Chesterfield County, Va. Disclaimer filed by the assignee, Virginia-Carolina Chemical Corporation. No. 2,634,288; disclaimer filed Dec. 5, 1956; v. 714; p. 343.
- Bruce, George D., Wappinger Falls, and Joseph C. Logue, Kingston, N. Y. Disclaimer filed by the assignee, International Business Machines Corporation. No. 2,772,370; disclaimer filed Apr. 30, 1957; v. 718; p. 661.
- Brunsing, Rex L., San Francisco, Calif. Dedication filed by the assignee, Western Vegetable Industries, Inc. No. 2,684,907; dedication filed Aug. 12, 1957; v. 722; p. 215.
- Caesar, Orville S., Barrington, Ill. Dedication filed by the assignee, The Greyhound Corporation. No. 2,415,460; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Caesar, Orville S., Barrington, and Harold C. Wiederhold, Park Ridge, Ill. Dedication filed by the assignee, The Greyhound Corporation. No. 2,536,592; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Caesar, Orville S., Barrington, Ill., and Raymond Loewy, New York, N. Y. Dedication filed by the assignee, The Greyhound Corporation. No. 2,563,917; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Campbell, Oliver F., and William H. Decker, Whiting, Ind. Disclaimer filed by the assignee, Sinclair Refining Company. No. 2,755,782; disclaimer filed July 9, 1957; v. 721; p. 203.
- Cashion, Emerson P., and Dewey Friddle, Greenville, S. C. Disclaimer filed by the inventors. No. 2,792,850; disclaimer filed June 3, 1957; v. 720; p. 1.
- Clarkson, Robert J., Winstboro, S. C. Disclaimer filed by the assignee, United States Rubber Company. No. 2,689,449; disclaimer filed Dec. 4, 1956; v. 714; p. 343.
- Collins, Jack D., Muncie, Ind. Disclaimer filed by the assignee, Borg-Warner Corporation. No. 2,756,851; disclaimer filed May 17, 1957; v. 719; p. 213.
- Cornell, George W., Miami, Fla. Disclaimer filed by the inventor; W. Elder Cornell, Jr., assignee of one-half interest, assenting. No. 2,718,677; disclaimer filed Nov. 6, 1956; v. 714; p. 575.
- Dalrymple, William P., Rochester, N. Y. Disclaimer filed by the assignee, Egner Corporation. No. 2,621,970; disclaimer filed Apr. 24, 1957; v. 718; p. 661.
- Davis, Robert F., Washington, D. C. Disclaimer filed by the assignee, Well Surveys, Inc. No. 2,285,809; disclaimer filed Oct. 29, 1957; v. 725; p. 1.
- Dean, Milo M., Palatine, and Nils A. Thunstrom and Fred N. Ruic, Chicago, Ill. Dedication filed by the assignee, The Greyhound Corporation. No. 2,682,928; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Dean, Milo M., Palatine, and Nils A. Thunstrom, Chicago, Ill. Dedication filed by the assignee, The Greyhound Corporation. No. 2,689,013; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Dean, Milo M., Palatine, and Nils A. Thunstrom and Norman P. Martin, Chicago, Ill. Dedication filed by the assignee, The Greyhound Corporation. No. 2,722,987; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Deziel, Fred T., Bloomington, and Harvey J. Smith, St. Louis Park, Minn. Disclaimer filed by the assignee, Minneapolis-Honeywell Regulator Company. No. 2,747,112; disclaimer filed Jan. 7, 1957; v. 715; p. 229.
- Edwards, Bryant, Chicago, Ill. Disclaimer filed by the assignee, Illinois Tool Works. No. 2,759,390; disclaimer filed Oct. 9, 1957; v. 724; p. 217.
- Ferrier, Norman K., Valley City, Ohio. Dedication filed by the assignee, Magnadux Corporation. No. 2,257,736; dedication filed May 13, 1957; v. 719; p. 643.
- Poster, Boutwell H., Maplewood, N. J. Disclaimer filed by the assignee, United States Rubber Company. No. 2,635,648; disclaimer filed Aug. 12, 1957; v. 722; p. 215.
- Gilbert, Everett E., Flushing, N. Y. Disclaimer filed by the assignee, Allied Chemical & Dye Corporation. No. 2,697,120; disclaimer filed Oct. 24, 1957; v. 724; p. 429.
- Gow, James D., Berkeley, Calif. Disclaimer filed by the inventor; the assignee, Chromatic Television Laboratories, Inc., assenting. No. 2,721,293; disclaimer filed Apr. 9, 1957; v. 718; p. 1.
- Grayson, Richard D., La Canada, Calif. Disclaimer filed by the assignee, General Controls Co.; the inventor consenting. No. 2,741,266; disclaimer filed Mar. 15, 1957; v. 717; p. 411.
- Grayson, Richard D., La Canada, Calif. Disclaimer and dedication filed by the assignee, General Controls Co.; the inventor consenting. No. 2,766,773; disclaimer and dedication filed Aug. 19, 1957; v. 722; p. 639.
- Greer, Fred W., South Lincoln, Mass. Disclaimer filed by the inventor; the assignee, J. W. Greer Company, consenting. No. 2,736,417; disclaimer filed Feb. 15, 1957; v. 716; p. 525.
- Groen, William, Northridge, Calif. Disclaimer filed by the inventor; the assignee, Bendix Aviation Corporation, assenting. No. 2,734,589; disclaimer filed Oct. 22, 1957; v. 724; p. 429.
- Guigas, Gustav, Honolulu, Territory of Hawaii. Disclaimer filed by the assignee, Hawaiian Pineapple Company, Limited. No. 2,774,489; disclaimer filed Oct. 17, 1957; v. 725; p. 189.
- Hall, Lawrence E., Flushing, N. Y. Disclaimer filed by the inventor. No. 2,686,305; disclaimer filed Nov. 12, 1957; v. 725; p. 393.
- Hamilton, Francis E., Endicott, Robert R. Seeber, Jr., Scarsdale, Russell A. Rowley, Binghamton, and Ernest S. Hughes, Jr., Vestal, N. Y. Disclaimer filed by the assignee, International Business Machines Corporation. No. 2,636,672; disclaimer filed Mar. 1, 1957; v. 717; p. 1.
- Hansen, Albert, Jr., Nahant, and Richard G. Jewell, Swampscott, Mass. Disclaimer filed by the assignee, General Electric Company. No. 2,416,097; disclaimer filed July 31, 1957; v. 721; p. 634.
- Hartwig, Edward C., Tonawanda, N. Y. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,533,369; disclaimer filed Dec. 31, 1956; v. 715; p. 229.
- Harvey, Frederic A., Pittsburg, and Raymond E. Birch, Mount Lebanon, Pa. Disclaimer filed by the assignee, Harbison-Walker Refractories Company. No. 2,351,204; disclaimer filed Oct. 24, 1957; v. 724; p. 635.
- Hauck, Paul A., Union, and Guerin Todd, Shrewsbury, N. J. Disclaimer filed by the assignee, Hanson-Van Winkle-Munning Company. No. 2,710,698; disclaimer filed July 18, 1957; v. 722; p. 1.
- Hergenrother, Rudolf C., West Newton, Mass. Disclaimer filed by the inventor and the assignee, Raytheon Manufacturing Company. No. 2,548,789; disclaimer filed Sept. 11, 1957; v. 723; p. 425.
- Hoekstra, Cyrus E., and John C. Radcliffe, Fort Wayne, Ind. Disclaimer filed by the assignee, The Magnavox Company. No. 2,554,859; disclaimer filed Feb. 13, 1957; v. 716; p. 525.
- Hoover, Keith S., Elmhurst, and Bror E. Anderson, Park Ridge, Ill. Dedication filed by the assignee, C. H. Dexter & Sons, Inc. No. 2,693,426; dedication filed Apr. 1, 1957; v. 718; p. 661.

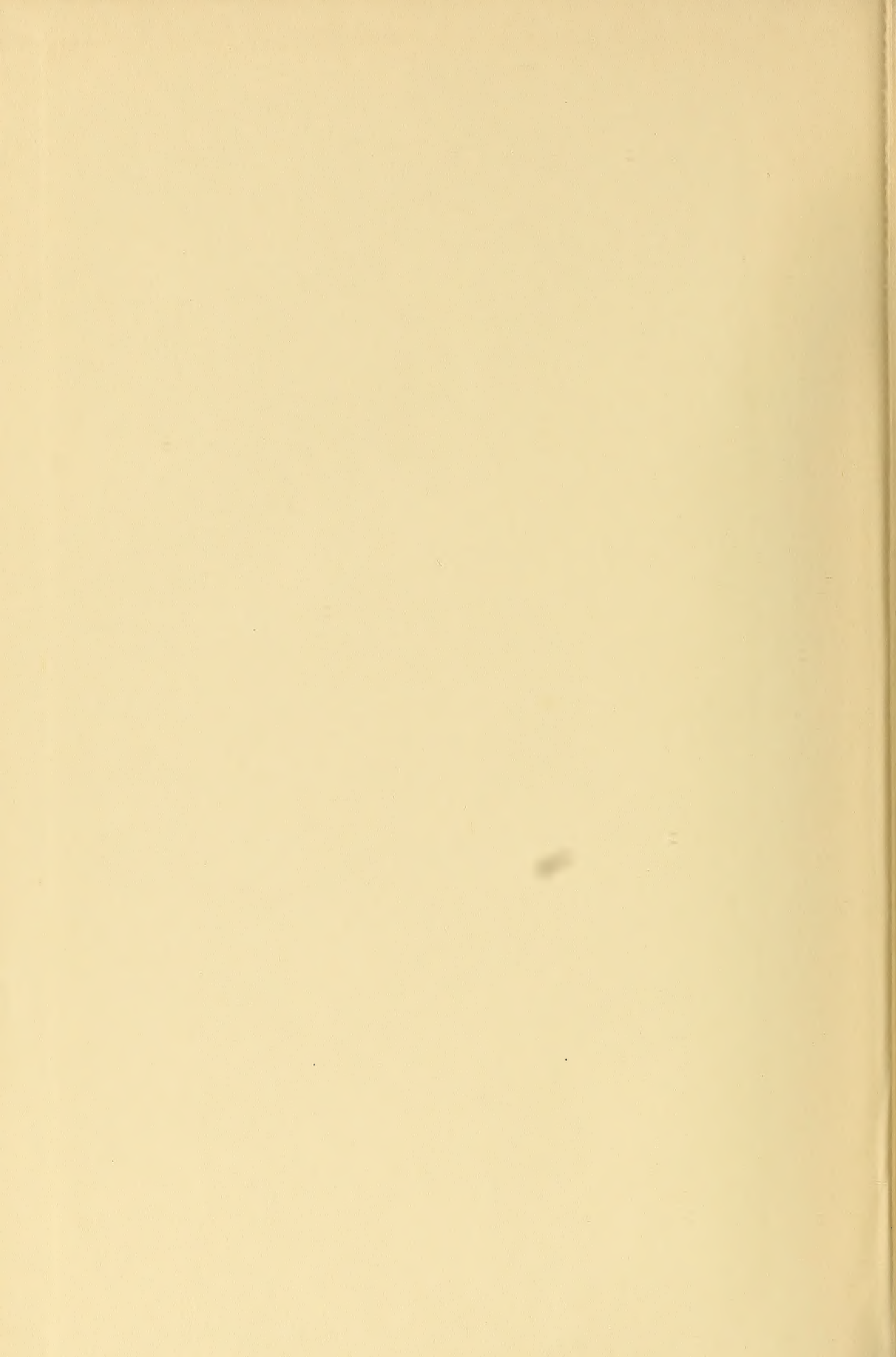
- Huston, James L., Arcanum, Ohio. Disclaimer filed by the inventor. No. 2,231,270; disclaimer filed Nov. 28, 1956; v. 714; p. 171.
- Inglefield, Charles L., Jr., Pittsburgh, Pa. Disclaimer filed by the assignee, United States Steel Corporation. No. 2,708,171; disclaimer filed July 31, 1957; v. 721; p. 634.
- Jennings, Leon H., Beaumont, Tex. Disclaimer filed by the assignee, Socony Mobil Oil Company, Inc. No. 2,677,151; disclaimer filed Feb. 5, 1957; v. 716; p. 261.
- Johnson, Harry, Elizabeth, N. J. Disclaimer filed by the assignee, Vari-Typer Corporation. No. 2,664,184; disclaimer filed Feb. 7, 1957; v. 716; p. 261.
- Kellogg, Spencer, 2nd, Glen Head, N. Y. Disclaimer filed by the inventor; the assignee, Sperry Rand Corporation, consenting. No. 2,613,352; disclaimer filed Feb. 28, 1957; v. 717; p. 1.
- Kellogg, Spencer, 2nd, Glen Head, N. Y. Disclaimer filed by the inventor; the assignee, Sperry Rand Corporation, consenting. No. 2,613,352; disclaimer filed Feb. 28, 1957; v. 717; p. 1.
- Kessler, Joseph S., Kenosha, Wis. Disclaimer filed by the inventor and the assignee, Ladish Company. No. 2,789,844; disclaimer filed May 1, 1957; v. 719; p. 1.
- Kowalski, Anthony C., Worcester, Mass. Dedication filed by the assignee, Magnaflux Corporation. No. 2,236,373; dedication filed May 13, 1957; v. 719; p. 643.
- Kurth, Franz J., Mamaroneck, N. Y. Disclaimer filed by the assignee, Anemostat Corporation of America. Des. No. 166,322; disclaimer filed Jan. 7, 1957; v. 715; p. 229.
- Kurth, Franz J., Mamaroneck, N. Y. Disclaimer filed by the assignee, Anemostat Corporation of America. Des. No. 166,323; disclaimer filed Jan. 7, 1957; v. 715; p. 229.
- Kurth, Franz J., Mamaroneck, N. Y. Disclaimer filed by the assignee, Anemostat Corporation of America. Des. No. 166,324; disclaimer filed Jan. 7, 1957; v. 715; p. 229.
- Lasar, William, Downey, Calif. Disclaimer filed by the inventor. Des. No. 178,294; disclaimer filed Jan. 11, 1957; v. 715; p. 419.
- Levenstein, Harold, Oceanside, N. Y., and Michael Bracutt, East Orange, N. J. Disclaimer filed by the assignee, The W. L. Maxson Corporation. No. 2,709,234; disclaimer filed Feb. 20, 1957; v. 716; p. 737.
- Loewy, Raymond, New York, N. Y. Dedication filed by the assignee, The Greyhound Corporation. Des. No. 113,009; dedication filed Aug. 22, 1957; v. 723; p. 1.
- Loewy, Raymond, New York, N. Y. Dedication filed by the assignee, The Greyhound Corporation. Des. No. 127,174; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Loewy, Raymond, New York, N. Y. Dedication filed by the assignee, The Greyhound Corporation. Des. No. 129,396; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Loewy, Raymond, New York, N. Y. Dedication filed by the assignee, The Greyhound Corporation. Des. No. 129,411; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Loewy, Raymond, New York, N. Y. Dedication filed by the assignee, The Greyhound Corporation. Des. No. 156,445; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Lund, James K., Oak Park, Ill. Disclaimer filed by the assignee, The Dole Valve Company. Re. No. 24,255; disclaimer filed Mar. 8, 1957; v. 717; p. 209.
- Marbet, Roman, and Alfred Winterstein, Riehen, Switzerland. Disclaimer filed by the assignee, Hoffmann-La Roche Inc. No. 2,768,198; disclaimer filed Apr. 3, 1957; v. 717; p. 875.
- Nichols, Julian G., Norwich, N. Y. Disclaimer filed by the assignee, The Norwich Pharmacal Company. No. 2,776,979; disclaimer filed Mar. 29, 1957; v. 717; p. 637.
- Miscall, Jack, Pennington, N. J., and Chester E. Rahr, New York, N. Y. Disclaimer filed by the assignee, Great Lakes Carbon Corporation. No. 2,634,208; disclaimer filed June 17, 1957; v. 720; p. 665.
- Miscall, Jack, Pennington, N. J., and Chester E. Rahr, New York, N. Y. Disclaimer filed by the assignee, Great Lakes Carbon Corporation. No. 2,634,207; disclaimer filed June 17, 1957; v. 720; p. 665.
- Norby, Harold A., Culver City, Calif. Disclaimer filed by the assignee, Hughes Aircraft Company. No. 2,758,204; disclaimer filed Aug. 29, 1957; v. 723; p. 209.
- Oglevee, Isaac N., Prospect Park, Pa. Dedication filed by the assignee, Magnaflux Corporation. No. 2,225,179; dedication filed May 13, 1957; v. 719; p. 643.
- Papazian, Martin S., Worcester, Mass. Disclaimer filed by the assignee, United States Steel Corporation. No. 2,485,065; disclaimer filed Sept. 30, 1957; v. 723; p. 831.
- Parker, Alfred Browning, Miami, Fla. Disclaimer filed by the assignee, Elkay Manufacturing Company. Des. No. 179,031; disclaimer filed Aug. 20, 1957; v. 722; p. 429.
- Peters, Norman K., South Bend, Ind. Disclaimer filed by the assignee, Bendix Aviation Corporation. No. 2,705,864; disclaimer filed Oct. 25, 1957; v. 724; p. 635.
- Petersen, Svend A., Brooklyn, and Ho Chow, New York, N. Y. Disclaimer filed by the inventors and the assignee, Celanese Corporation of America. No. 2,733,874; disclaimer filed Sept. 30, 1957; v. 723; p. 831.
- Post, Donald B., Collingswood, N. J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,581,202; disclaimer filed Jan. 7, 1957; v. 715; p. 229.
- Potts, Phil S., Fort Wayne, Ind. Dedication filed by the assignee, General Electric Company. No. 2,712,965; dedication filed Aug. 16, 1957; v. 722; p. 429.
- Rey, Thomas Julius, Hayes, England. Disclaimer filed by the inventor; the assignee, Electric & Musical Industries Limited, consenting. No. 2,683,819; disclaimer filed Nov. 5, 1957; v. 725; p. 393.
- Rich, John P., and Arthur L. Whiteside, Nashua, N. H. Dedication filed by the assignee, Improved Machinery Inc. No. 2,772,864; dedication filed June 28, 1957; v. 721; p. 1.
- Robell, John, West Hempstead, N. Y. Disclaimer filed by the assignee, Guggenheim Brothers (1949). No. 2,779,660; disclaimer filed Mar. 20, 1957; v. 717; p. 411.
- Salzmann, Gerhard Martin, Franklin Lakes, N. J., and Kenneth Lyman Russell, New York, N. Y. Disclaimer filed by the inventors; the assignee, Colgate-Palmolive Company, assenting. No. 2,744,049; disclaimer filed Sept. 12, 1957; v. 723; p. 631.
- Scherbatskoy, Serge Alexander, Tulsa, Okla. Disclaimer filed by the assignee, Well Surveys, Inc. No. 2,315,355; disclaimer filed Oct. 29, 1957; v. 725; p. 1.
- Schoepel, John F., Minneapolis, Minn. Disclaimer filed by the assignee, Minneapolis-Honeywell Regulator Company. No. 2,715,709; disclaimer filed Mar. 21, 1957; v. 717; p. 411.
- Schwartz, Joseph, Teaneck, N. J. Disclaimer filed by the assignee, ACF Industries, Incorporated. No. 2,695,967; disclaimer filed Oct. 11, 1957; v. 724; p. 217.
- Sedar, William, Santa Barbara, Calif. Disclaimer filed by the assignee, The Borden Company. No. 2,621,075; disclaimer filed Feb. 25, 1957; v. 716; p. 737.
- Shanklin, John P., Cedar Rapids, Iowa. Disclaimer filed by the assignee, Collins Radio Company. No. 2,652,492; disclaimer filed Apr. 3, 1957; v. 718; p. 1.
- Smith, Marsden C., Richmond, Va. Disclaimer filed by the assignee, B-I-F Industries, Inc. No. 2,440,981; disclaimer filed Feb. 11, 1957; v. 716; p. 525.
- Speeter, Merrill E., Kalamazoo, Mich. Disclaimer filed by the assignee, The Upjohn Company; the inventor consenting. No. 2,703,325; disclaimer filed Feb. 11, 1957; v. 716; p. 261.
- Stadum, Clarence B., Snyder, and Edward C. Hartwig and William E. Large, Lancaster, N. Y. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,623,168; disclaimer filed Dec. 31, 1956; v. 715; p. 229.
- Stadum, Clarence B., Snyder, N. Y. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,600,337; disclaimer filed Dec. 31, 1956; v. 715; p. 229.
- Sudduth, Henry Norton, Watertown, N. Y. Disclaimer filed by the assignee, The New York Air Brake Company. No. 2,702,612; disclaimer filed Nov. 20, 1956; v. 714; p. 1.
- Thunstrom, Nils A., and Fred N. Ruic, Chicago, Ill. Dedication filed by the assignee, The Greyhound Corporation. No. 2,682,942; dedication filed Aug. 22, 1957; v. 723; p. 2.
- Von Manteuffel, Gert Sidney Zoega, Wraybury, and Colin Arthur Richardson, Ham Common, England. Disclaimer filed by the assignee, The Sperry Gyroscope Company Limited. No. 2,736,893; disclaimer filed Dec. 24, 1956; v. 714; p. 833.
- Warburton, Geoffrey, Cardiff, and William J. P. Clarke, Glamorgan, Wales. Disclaimer filed by the assignee, Aero Zipp Fasteners Limited. No. 2,744,313; disclaimer filed Sept. 16, 1957; v. 724; p. 1.
- Washburn, Harold W., and Clifford E. Berry, Pasadena, Calif. Disclaimer filed by the assignee, Consolidated Electrodynamics Corporation; the inventors approving. No. 2,627,034; disclaimer filed May 15, 1957; v. 719; p. 213.
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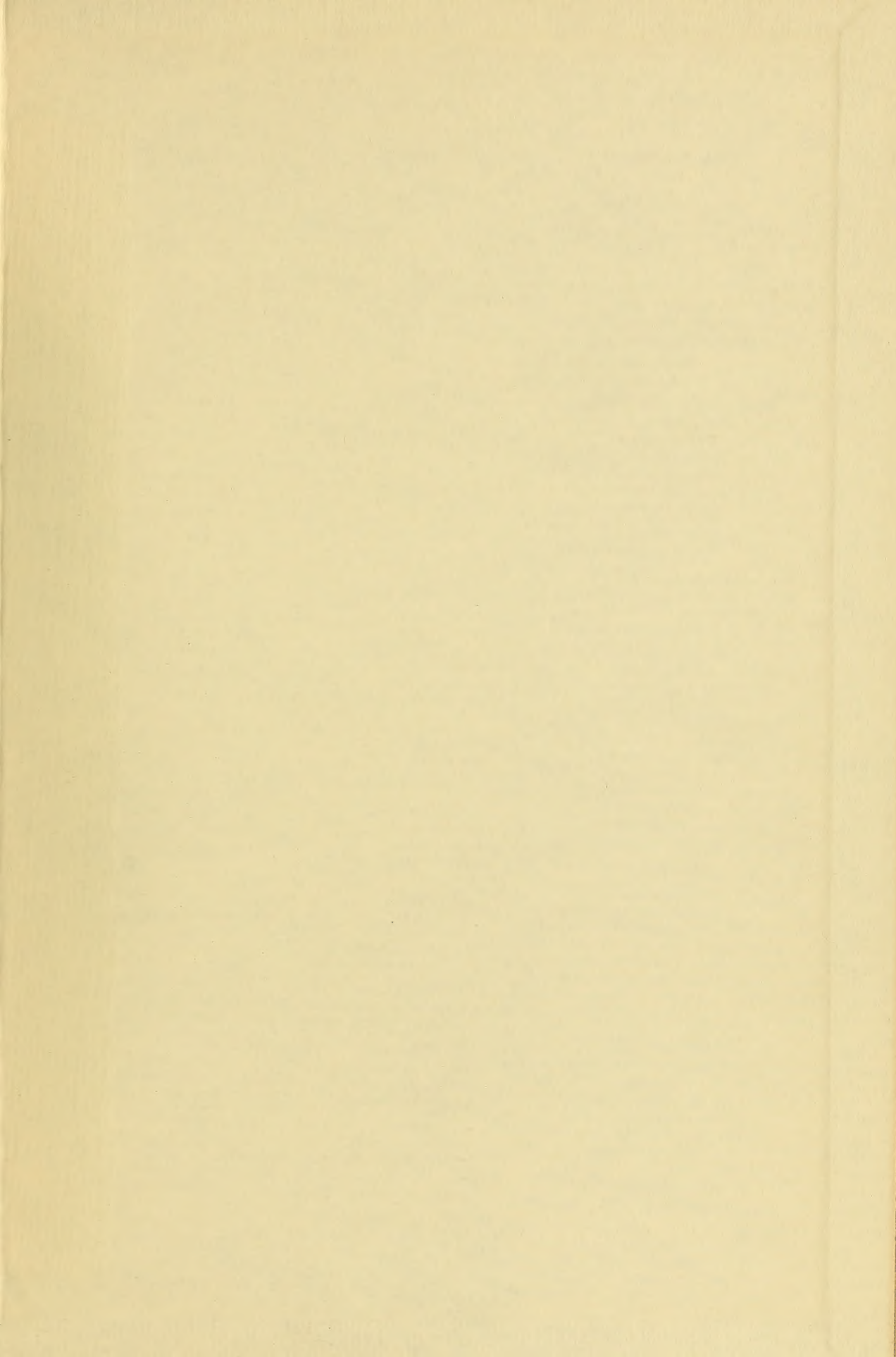
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